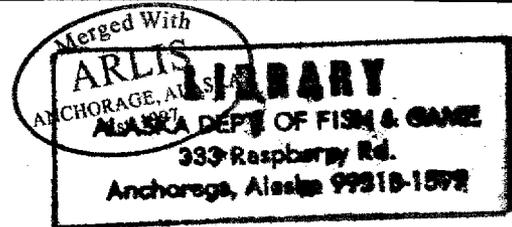


2602

**SUSITNA  
HYDROELECTRIC PROJECT**

FEDERAL ENERGY REGULATORY COMMISSION  
PROJECT No. 7114



ALASKA DEPT. OF  
FISH & GAME

MAY 16 1985

HABITAT  
REGIONAL OFFICE

**STREAM FLOWS AND  
FLOW DURATION CURVES**

AT WATANA, GOLD CREEK, SUNSHINE  
AND SUSITNA STATION  
FOR WATANA ONLY OPERATION  
IN 1996 AND 2001

VOLUME 3 - APPENDIX E

Final Report

February 1985

Document No. 2602

**HARZA-EBASCO**  
SUSITNA JOINT VENTURE

**ALASKA POWER AUTHORITY**

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1425  
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no. 2602

**SUSITNA HYDROELECTRIC PROJECT**

**STREAM FLOWS AND FLOW DURATION CURVES**

**At Watana, Gold Creek, Sunshine And Susitna Station  
For Watana Only Operation  
IN 1996 and 2001**

**VOLUME 3 - APPENDIX E**

Report By  
Harza-Ebasco Susitna Joint Venture

Prepared for  
Alaska Power Authority

**ARLIS**  
Alaska Resources  
Library & Information Services  
Anchorage, Alaska

Final Report  
February 1985

Appendix E

SUSITNA HYDROELECTRIC PROJECT

Stream Flows and Flow Duration Curves

at

Watana, Gold Creek, Sunshine and Susitna Station

For Watana Only Operation in 1996 and 2001

- o Introduction
- o Tables (22)
- o Exhibits (20)

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ASE E-VI ALTERNATIVE FLOW REQUIREMENTS

APPENDIX E

WEEKLY FLOW DURATION CURVES  
FOR THE SUSITNA RIVER BASIN  
1996 AND 2001 ENERGY DEMANDS

Flow duration curves were derived for natural and with-project conditions for the Susitna River at Watana Damsite, Gold Creek, Sunshine and Susitna Station (see Exhibit 1 for locations). Each water year (October 1 through September 30) was divided into 7-day periods for the computations. The flow requirements are those for Case E-VI environmental releases, and energy demands of 1996 and 2001 (Watana operation only). Exhibits 2 through 5 show the 7-day flow duration curves for natural and with-project conditions using the 1996 energy demand. The corresponding curves for the year 2001 demand are shown on Exhibits 6 through 9. The natural and with-project weekly flows are given in Tables 1 through 10. The flow duration data are given in Tables 11 through 22.

The flow duration curves for week 52 (sheet 13 of 13, Exhibits 2 through 9) are based on weekly flows derived as "total 8-day flow divided by 8". The weekly flows for week 52 were also computed as the total 8-day flow divided by 7. Exhibits 10 through 17 provide a comparison between flow duration curves based on weekly mean for 8-day period and those based on total 8-day flow divided by 7. The difference between the two sets of curves is about 14 percent.

The flow duration curves indicate a decrease in the difference between the natural and with-project flows as the distance increases downstream from Gold Creek. This is due to the added flow from tributaries joining the Susitna River downstream from Gold Creek. The flows from the Chulitna River, Talkeetna River and Yentna River have the most significant effects.

A previous report entitled "Weekly Flow Duration Curves and Observed and Filled Weekly Flows for the Susitna River Basin" (Harza-Ebasco 1984) contains additional information on streamflows for

- a) The Chulitna River near Talkeetna,
- b) The Talkeetna River near Talkeetna, and
- c) The Skwentna River near Skwentna.

This report was transmitted to the Federal Energy Regulatory Commission (FERC) on November 2, 1984.

Additionally, Figures E.2.151 - E.2.153 from the License Application have been replaced by Exhibits 18 - 20 which show weekly average water surface levels for 10%, 50%, and 90% exceedence level flows throughout the summer.

APPENDIX E

LIST OF TABLES

<u>Number</u>	<u>Title</u>
1	Natural Weekly Flows for Susitna River at Gold Creek
2	Natural Weekly Flows for Susitna River at Sunshine
3	Natural Weekly Flows for Susitna River at Susitna Station
4	Computed Weekly Flows for Susitna River at Wataná Damsite
5	With-Project Weekly Flows for Susitna River at Watana and at Gold Creek for 1996 Load Conditions - Watana Operation
6	With-Project Weekly Flows for Susitna River at Sunshine for 1996 Load Conditions - Watana Operation
7	With-Project Weekly Flows for Susitna River at Susitna Station for 1996 Load Conditions - Watana Operation
8	With-Project Weekly Flows for Susitna River at Watana and at Gold Creek for 2001 Load Conditions - Watana Operation
9	With-Project Weekly Flows for Susitna River at Sunshine for 2001 Load Conditions - Watana Operation
10	With-Project Weekly Flows for Susitna River at Susitna Station for 2001 Load Conditions - Watana Operation
11	Flow Duration Data at Watana for Natural Conditions
12	Flow Duration Data at Gold Creek for Natural Conditions
13	Flow Duration Data at Sunshine for Natural Conditions
14	Flow Duration Data at Susitna Station for Natural Conditions
15	Flow Duration Data at Watana Damsite for 1996 Load Conditions - Watana Operation
16	Flow Duration Data at Gold Creek for 1996 Load Conditions - Watana Operation
17	Flow Duration Data at Sunshine for 1996 Load Conditions - Watana Operation

LIST OF TABLES (continued)

<u>Number</u>	<u>Title</u>
18	Flow Duration Data at Susitna Station for 1996 Load Conditions - Watana Operation
19	Flow Duration Data at Watana Damsite for 2001 Load Conditions - Watana Operation
20	Flow Duration Data at Gold Creek for 2001 Load Conditions - Watana Operation
21	Flow Duration Data at Sunshine for 2001 Load Conditions - Watana Operation
22	Flow Duration Data at Susitna Station for 2001 Load Conditions - Watana Operation

LIST OF EXHIBITS

<u>Number</u>	<u>Title</u>
1	Location Map
2	Flow Duration Curves Based on Weekly Discharge Susitna River at Watana, Natural and With-Project, for 1996 Load Conditions, Watana Only
3	Flow Duration Curves Based on Weekly Discharge Susitna River at Gold Creek, Natural and With-Project, for 1996 Load Conditions, Watana Only
4	Flow Duration Curves Based on Weekly Discharge Susitna River at Sunshine, Natural and With-Project, for 1996 Load Conditions, Watana Only
5	Flow Duration Curves Based on Weekly Discharge Susitna River at Susitna Station, Natural and With-Project, for 1996 Load Conditions, Watana Only
6	Flow Duration Curves Based on Weekly Discharge Susitna River at Watana, Natural and With-Project, for 2001 Load Conditions, Watana Only
7	Flow Duration Curves Based on Weekly Discharge Susitna River at Gold Creek, Natural and With-Project, for 2001 Load Conditions, Watana Only
8	Flow Duration Curves Based on Weekly Discharge Susitna River at Sunshine, Natural and With-Project, for 2001 Load Conditions, Watana Only

LIST OF EXHIBITS (continued)

<u>Number</u>	<u>Title</u>
9	Flow Duration Curves Based on Weekly Discharge, Susitna River at Susitna Station, Natural and With-Project, for 2001 Load Conditions, Watana Only
10	Flow Duration Curves Based on Weekly Discharge, Week 52 (Sept. 23-30), Susitna River at Watana, for 1996 Load Conditions, Watana Only
11	Flow Duration Curves Based on Weekly Discharge, Week 52 (Sept. 23-30), Susitna River at Gold Creek, for 1996 Load Conditions, Watana Only
12	Flow Duration Curves Based on Weekly Discharge, Week 52 (Sept. 23-30), Susitna River at Sunshine, for 1996 Load Conditions, Watana Only
13	Flow Duration Curves Based on Weekly Discharge, Week 52 (Sept. 23-30), Susitna River at Susitna Station, for 1996 Load Conditions, Watana Only
14	Flow Duration Curves Based on Weekly Discharge, Week 52 (Sept. 23-30), Susitna River at Watana, for 2001 Load Conditions, Watana Only
15	Flow Duration Curves Based on Weekly Discharge, Week 52 Sept. 23-30), Susitna River at Gold Creek, for 2001 Load Conditions, Watana Only

LIST OF EXHIBITS (continued)

<u>Number</u>	<u>Title</u>
16	Flow Duration Curves Based on Weekly Discharge, Week 52 (Sept.23-30), Susitna River at Sunshine, for 2001 Load Conditions, Watana Only
17	Flow Duration Curves Based on Weekly Discharge, Week 52 2 (Sept. 23-30), Susitna River at Susitna Station, for 2001 Load Conditions, Watana Only
18	2001 Energy Demand, Watana Operation: Weekly Average Water Surface Elevations at River Mile 142.3
19	2001 Energy Demand, Watana Operation: Weekly Average Water Surface Elevations at River Mile 130.9
20	2001 Energy Demand, Watana Operation: Weekly Average Water Surface Elevations at River Mile 124.4

**TABLE 1**

TABLE 1

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT GOLD CREEK

1951	5257.	4686.	4091.	2334.	1471.	1386.	1300.	1229.	1171.	1100.
	1100.	1100.	1100.	980.	960.	960.	960.	900.	820.	820.
	820.	786.	740.	740.	740.	740.	774.	997.	1529.	2657.
	6157.	17329.	19271.	9567.	16671.	29543.	21300.	13543.	19071.	20729.
	24343.	23286.	21414.	21429.	17614.	18714.	18314.	25600.	30057.	18671.
	19286.	18657.								
1952	9229.	6171.	4486.	3486.	3500.	3204.	2369.	2343.	2186.	1900.
	1900.	1900.	1900.	1643.	1600.	1600.	1600.	1343.	1000.	1000.
	1000.	949.	880.	880.	880.	880.	920.	920.	920.	920.
	1191.	1514.	2071.	4486.	21929.	24814.	35143.	38114.	33729.	27629.
	19629.	25086.	27186.	37243.	25071.	19686.	14943.	17329.	18886.	12771.
	11029.	15086.								
1953	11143.	10390.	7233.	5271.	5000.	4257.	2729.	3343.	2429.	1700.
	1700.	1700.	1700.	1186.	1100.	1100.	1100.	980.	820.	820.
	820.	820.	820.	820.	820.	820.	930.	930.	1504.	2500.
	14129.	16814.	15300.	26386.	20743.	35114.	27114.	22071.	25829.	20229.
	18271.	19871.	20657.	25643.	21857.	17514.	18029.	21500.	18786.	17114.
	14271.	12426.								
1954	8119.	6733.	4940.	3937.	2401.	2271.	2100.	1957.	1786.	1500.
	1500.	1500.	1500.	1329.	1300.	1300.	1300.	1171.	1000.	1000.
	1000.	906.	780.	780.	780.	780.	870.	870.	1496.	1600.
	6743.	12286.	19900.	22814.	21571.	25457.	24457.	23457.	28514.	24486.
	19529.	19000.	19000.	31143.	24000.	24000.	24000.	23000.	16286.	14000.
	13057.	9581.								
1955	6500.	6109.	4600.	4600.	3686.	3000.	2829.	2500.	2414.	2200.
	2157.	1900.	1900.	1986.	2000.	1714.	1600.	1514.	1400.	1400.
	1400.	1271.	1100.	1100.	1100.	1100.	1200.	1200.	1200.	1200.
	3557.	4500.	5257.	15743.	17429.	20329.	33143.	35957.	33671.	34186.
	28557.	22043.	26357.	22614.	20900.	21443.	26071.	37243.	19671.	15029.
	12214.	10993.								
1956	7236.	5327.	4339.	3737.	2486.	2100.	1929.	1700.	1586.	1300.
	1300.	1300.	1300.	1026.	980.	980.	980.	976.	970.	970.
	970.	957.	940.	940.	940.	940.	950.	950.	950.	950.
	2514.	11400.	16271.	32371.	21686.	33457.	43543.	31971.	28186.	29057.
	31686.	32000.	31229.	31429.	28771.	26000.	20729.	17714.	16000.	22429.
	21857.	16000.								
1957	7200.	7200.	4886.	4500.	3757.	3200.	3071.	2900.	2757.	2400.
	2329.	1900.	1900.	1729.	1700.	1700.	1700.	1614.	1500.	1500.
	1500.	1371.	1200.	1200.	1200.	1200.	1200.	1200.	1200.	1200.
	3414.	5757.	9400.	21057.	30914.	37443.	33086.	29357.	20100.	23214.
	21329.	23914.	25943.	20957.	20943.	20829.	19100.	21143.	18914.	20643.
	20071.	22029.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7

TABLE 1 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT GOLD CREEK

1958	10333.	8864.	7230.	7454.	5429.	4521.	3870.	3181.	3586.	4314.
	3680.	2744.	2229.	2429.	2129.	1857.	1757.	1457.	1443.	1300.
	1200.	1200.	1200.	1171.	1100.	1100.	1200.	1343.	1457.	1766.
	3990.	7883.	11014.	20971.	22057.	28000.	28000.	24143.	22000.	22000.
	22000.	22000.	21571.	38686.	27529.	20443.	16571.	11557.	8500.	8500.
	6600.	7543.								
1959	5991.	5271.	5043.	3500.	2986.	2600.	2214.	1700.	1529.	1100.
	1214.	1900.	1900.	1557.	1500.	1429.	1400.	1400.	1400.	1343.
	1200.	1106.	980.	980.	980.	980.	1000.	1000.	1429.	1500.
	2857.	4543.	19400.	27486.	22329.	26029.	19443.	23171.	25929.	26400.
	25343.	27457.	21686.	23886.	18629.	23914.	44171.	43171.	28700.	14829.
	11137.	12007.								
1960	10714.	7400.	4071.	5086.	3486.	3000.	2871.	2700.	2557.	2200.
	2200.	2200.	2200.	2029.	2000.	1786.	1700.	1614.	1500.	1471.
	1400.	1357.	1300.	1243.	1100.	1100.	1100.	1100.	1443.	1500.
	5857.	7600.	14686.	22857.	24286.	14357.	14886.	15414.	16943.	22929.
	17000.	19557.	26814.	32043.	25429.	22471.	21714.	20857.	18314.	28943.
	20514.	17557.								
1961	12529.	9100.	6471.	4714.	3586.	3300.	3043.	2700.	2757.	2900.
	2843.	2500.	2500.	2414.	2400.	2471.	2500.	2200.	1800.	1771.
	1700.	1614.	1500.	1671.	2100.	2100.	2500.	2500.	2757.	2800.
	7229.	12714.	22000.	20957.	19814.	18971.	30986.	38714.	32529.	23000.
	24143.	25000.	25900.	25643.	26000.	22200.	21071.	15657.	12429.	14100.
	13429.	15457.								
1962	10429.	4600.	4600.	4600.	3514.	2700.	2700.	2700.	2529.	2100.
	2100.	2100.	2100.	1929.	1900.	1900.	1900.	1729.	1500.	1500.
	1500.	1457.	1400.	1400.	1400.	1400.	1700.	1700.	1700.	1700.
	3700.	4500.	12214.	18000.	28471.	30286.	58743.	50229.	35557.	27186.
	26543.	23129.	27186.	26057.	23000.	23000.	23000.	23429.	23571.	14886.
	12057.	13871.								
1963	9150.	6967.	6071.	5486.	3700.	2800.	2800.	2800.	2571.	2000.
	2000.	2000.	2000.	1657.	1600.	1600.	1600.	1557.	1500.	1500.
	1500.	1286.	1000.	1000.	1000.	1000.	830.	830.	830.	830.
	2666.	3400.	19171.	31000.	35686.	26000.	26000.	26000.	26000.	31143.
	40257.	38143.	32571.	27800.	25143.	21814.	23071.	19543.	15143.	13543.
	10829.	10979.								
1964	8897.	7491.	6129.	4643.	2886.	2600.	2300.	1900.	1843.	1700.
	1643.	1300.	1300.	1129.	1100.	1029.	1000.	1000.	1000.	980.
	930.	861.	770.	739.	660.	660.	710.	710.	770.	780.
	866.	1043.	1400.	3099.	28990.	75029.	51529.	43000.	31100.	25371.
	26143.	24671.	16929.	19757.	18729.	15100.	16100.	13600.	11354.	9253.
	9304.	9106.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7

TABLE 1 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT GOLD CREEK

1965	7677.	8591.	5623.	4473.	3080.	2836.	2807.	3129.	2033.	1370.
	1221.	1110.	1110.	981.	960.	960.	960.	917.	860.	860.
	860.	877.	900.	900.	900.	900.	1180.	1180.	1489.	1540.
	2011.	5386.	9371.	16886.	33643.	21971.	23471.	22429.	33014.	30357.
	30614.	28514.	24729.	22229.	19671.	30386.	20371.	11343.	16849.	20700.
	18943.	25043.								
1966	15086.	8387.	3929.	3250.	2764.	2264.	2000.	1907.	1829.	1714.
	1657.	1590.	1530.	1419.	1400.	1400.	1400.	1357.	1300.	1300.
	1300.	1300.	1300.	1300.	1300.	1300.	1500.	1500.	1971.	2050.
	3014.	3886.	7200.	13800.	21657.	47686.	34129.	28829.	24329.	18643.
	17757.	18586.	21029.	28014.	22914.	18843.	22829.	18300.	12886.	12514.
	12371.	10314.								
1967	6990.	4687.	3544.	2400.	1729.	1600.	1600.	1600.	1571.	1500.
	1500.	1500.	1500.	1500.	1500.	1500.	1500.	1457.	1400.	1400.
	1400.	1314.	1200.	1200.	1200.	1200.	1100.	1100.	1129.	1300.
	1743.	4929.	17143.	23986.	28829.	26571.	34814.	29014.	28386.	21557.
	21471.	29857.	34800.	27100.	25043.	54871.	30600.	20614.	29071.	17157.
	12471.	10831.								
1968	6851.	5703.	4460.	3400.	2857.	2429.	2300.	2214.	2171.	2100.
	2100.	2014.	2000.	2000.	2000.	2000.	1971.	1900.	1900.	1900.
	1900.	1900.	1900.	1900.	1900.	1900.	1871.	1800.	1886.	2014.
	2243.	2943.	13086.	33843.	27543.	26457.	36829.	37343.	27186.	29429.
	26786.	25857.	24986.	22214.	20143.	16757.	15143.	13429.	11271.	11291.
	7210.	6309.								
1969	5061.	4370.	3366.	2987.	2543.	1971.	1500.	1314.	1086.	950.
	900.	850.	807.	771.	750.	700.	700.	700.	700.	714.
	750.	750.	779.	800.	843.	871.	957.	1129.	1471.	2086.
	3400.	6013.	11434.	20057.	12069.	12800.	16314.	17871.	16229.	13929.
	17629.	18114.	15143.	13386.	14286.	7399.	6001.	5593.	6303.	5511.
	4726.	4536.								
1970	3940.	3709.	3249.	2193.	1714.	1429.	1129.	1000.	936.	900.
	857.	850.	850.	850.	850.	814.	800.	800.	800.	750.
	750.	750.	750.	764.	800.	800.	850.	936.	1071.	1300.
	1943.	4614.	16343.	14757.	18129.	16971.	16371.	15500.	26100.	25029.
	21000.	22500.	21514.	26429.	22871.	17671.	19971.	13786.	11897.	9466.
	9643.	6143.								
1971	7017.	5857.	4771.	4057.	4000.	3800.	3457.	3057.	2743.	2571.
	2400.	2200.	1971.	1743.	1557.	1414.	1243.	1157.	1100.	1000.
	1000.	979.	950.	950.	950.	950.	964.	1000.	1086.	1214.
	1457.	1900.	2800.	4943.	8714.	22857.	47186.	28657.	39586.	24471.
	24900.	28700.	18671.	24357.	44743.	40000.	24529.	19471.	22857.	14586.
	11029.	10939.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7

TABLE 1 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT GOLD CREEK

1972	7744.	6939.	5267.	4343.	3600.	3257.	3086.	2914.	2771.	2600.
	2600.	2400.	2400.	2400.	2200.	2200.	2200.	2200.	2086.	2000.
	2000.	1914.	1886.	1800.	1800.	1771.	1700.	1700.	1629.	1700.
	3386.	19571.	19286.	26886.	44243.	24471.	43457.	38057.	25729.	25371.
	25357.	22600.	18429.	20243.	21729.	19929.	20600.	13786.	13186.	18029.
	13286.	6857.								
1973	4786.	4429.	6143.	4557.	3114.	2543.	2171.	2000.	1743.	1600.
	1429.	1400.	1400.	1229.	1200.	1200.	1200.	1200.	1200.	1200.
	1200.	1114.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1057.
	1400.	2686.	9200.	12671.	15714.	20214.	33700.	36443.	23943.	21057.
	20129.	15229.	16429.	17657.	21029.	16757.	21800.	23171.	12814.	8942.
	7551.	7010.								
1974	5636.	4539.	3130.	2371.	1914.	1643.	1514.	1386.	1271.	1143.
	1029.	979.	950.	907.	900.	864.	850.	829.	800.	786.
	750.	750.	750.	736.	700.	700.	700.	729.	879.	1400.
	2571.	6586.	12286.	27429.	31357.	19557.	16700.	15614.	16671.	16943.
	21057.	19314.	18571.	17714.	18686.	15986.	12651.	17130.	16614.	9314.
	9413.	14154.								
1975	5503.	5469.	2914.	1943.	1700.	1700.	1700.	1700.	1686.	1600.
	1600.	1600.	1600.	1586.	1500.	1500.	1500.	1500.	1500.	1500.
	1443.	1400.	1400.	1400.	1400.	1400.	1400.	1414.	1543.	1829.
	2843.	6857.	15071.	23029.	30500.	36400.	27343.	34357.	30714.	27500.
	29900.	28343.	25929.	24200.	19486.	18614.	16429.	14157.	11743.	19886.
	18629.	17943.								
1976	10286.	9071.	8357.	4929.	3429.	2457.	1871.	1486.	1271.	1143.
	1100.	1057.	1000.	1000.	1000.	964.	950.	950.	950.	950.
	950.	929.	900.	900.	900.	900.	900.	943.	1171.	1957.
	4957.	13943.	13400.	14014.	16129.	27700.	29843.	21014.	20300.	19329.
	19286.	18386.	18857.	21714.	27714.	20571.	15800.	11183.	7729.	6330.
	6367.	7750.								
1977	4831.	3943.	3760.	3337.	2943.	2714.	2543.	2400.	2886.	2714.
	2457.	2257.	2086.	1957.	1900.	1800.	1757.	1700.	1629.	1600.
	1600.	1557.	1500.	1500.	1500.	1500.	1600.	1600.	1686.	1771.
	1971.	3457.	12514.	19200.	29200.	34957.	46300.	37943.	33857.	21714.
	24143.	25514.	21229.	22286.	21329.	19514.	19729.	12514.	10363.	14671.
	14071.	13534.								
1978	8829.	8957.	7871.	5871.	4486.	3829.	3450.	3200.	2964.	2757.
	2636.	2557.	2364.	2236.	2107.	2000.	1921.	1807.	1700.	1650.
	1650.	1600.	1600.	1600.	1600.	1621.	1650.	1650.	1650.	1743.
	3643.	12557.	17143.	11600.	12371.	15386.	21371.	18286.	22786.	22314.
	20729.	20957.	20557.	20214.	19114.	17771.	14829.	10686.	11214.	10109.
	7599.	6481.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30). the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7

TABLE 1 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT GOLD CREEK

1979	5416.	6069.	4901.	3679.	3577.	3126.	2343.	2057.	1971.	1900.
	1729.	1557.	1500.	1457.	1400.	1400.	1400.	1300.	1300.	1300.
	1300.	1200.	1200.	1200.	1200.	1200.	1200.	1257.	1386.	1743.
	2743.	5143.	12000.	19143.	31671.	27486.	23071.	20829.	25771.	26371.
	26086.	31757.	32457.	26514.	24800.	20029.	17057.	15171.	9447.	9203.
	13543.	12254.								
1980	7890.	10014.	7034.	5197.	4871.	4424.	4929.	3529.	3357.	2743.
	2471.	2257.	2043.	1914.	1829.	1729.	1643.	1600.	1529.	1457.
	1400.	1400.	1400.	1400.	1400.	1400.	1400.	1400.	1471.	2000.
	4143.	9714.	13914.	12443.	19843.	32143.	25329.	32800.	28614.	31343.
	31800.	33557.	30143.	33014.	23200.	21929.	19886.	14457.	10570.	11304.
	19000.	14186.								
1981	9849.	8779.	7303.	6019.	4657.	4211.	3143.	3200.	3200.	2314.
	1786.	1679.	1614.	1571.	1829.	2129.	2300.	2329.	2414.	2014.
	1600.	1500.	1500.	1600.	1629.	1650.	1700.	1771.	1886.	2443.
	5623.	20400.	20486.	13500.	21943.	18629.	16914.	18200.	21257.	17829.
	42086.	41143.	36700.	38600.	36157.	46729.	37029.	24971.	17986.	14500.
	12100.	11256.								
1982	7641.	7200.	7399.	8581.	4612.	3943.	3857.	3243.	2828.	2529.
	2385.	2300.	2300.	2300.	2300.	2300.	2300.	2314.	2357.	1721.
	1250.	1100.	1100.	1100.	1164.	1497.	1500.	1500.	1657.	2200.
	3386.	8100.	15000.	20143.	22714.	26143.	21857.	28857.	28000.	19500.
	24114.	24514.	27500.	23657.	16629.	14471.	12629.	14014.	13486.	16886.
	26557.	16729.								
1983	10429.	8201.	6669.	3914.	2971.	2786.	2643.	2471.	2400.	2300.
	2300.	2300.	2443.	2771.	2400.	2429.	2000.	1957.	1900.	2043.
	2086.	1957.	1814.	1700.	1643.	1514.	1500.	1529.	1786.	2414.
	4600.	11086.	19143.	17000.	24143.	27343.	19586.	23886.	23671.	25371.
	21857.	18243.	19714.	21014.	26586.	25414.	21757.	26671.	18957.	12586.
	10334.	11878.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7

**TABLE 2**

TABLE 2

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUNSHINE

1951	17177.	14159.	11006.	7079.	5194.	4232.	3862.	3826.	3805.	3604.
	3390.	3113.	3054.	3185.	3053.	3289.	3353.	3084.	2955.	2755.
	2706.	2304.	2067.	2037.	2047.	2043.	2019.	2456.	3661.	5807.
	11605.	29453.	31619.	20670.	33347.	56558.	57725.	39376.	50229.	56252.
	67629.	65919.	57570.	55764.	51646.	45836.	40515.	53692.	59465.	37827.
	35510.	36824.								
1952	20305.	14637.	10937.	9606.	9849.	8386.	6569.	6138.	5588.	5231.
	5416.	5343.	5096.	4347.	4022.	4015.	3912.	3390.	2536.	2488.
	2309.	2238.	2260.	2306.	2417.	2594.	2645.	2436.	2473.	2940.
	3908.	5301.	7870.	13448.	54536.	64522.	89263.	85740.	83180.	73837.
	60181.	72666.	71262.	88726.	66940.	54633.	42482.	44512.	45732.	34331.
	27830.	45344.								
1953	29969.	27812.	18379.	11761.	10163.	8499.	6422.	7284.	5694.	4032.
	4039.	4113.	4065.	3341.	3090.	3012.	2867.	2613.	2308.	2306.
	2244.	2187.	2223.	2162.	2188.	2196.	2326.	2572.	3894.	6227.
	23819.	34890.	33229.	60778.	50770.	73245.	66876.	56154.	62575.	51400.
	48805.	50817.	52187.	59958.	53155.	42612.	45613.	49154.	50992.	45939.
	34251.	28171.								
1954	17168.	14581.	11221.	8475.	5119.	5012.	5065.	4797.	4217.	3803.
	3843.	3864.	3576.	3276.	3212.	3241.	3123.	2935.	2656.	2677.
	2526.	2484.	2266.	2259.	2171.	2143.	2249.	2146.	3068.	3127.
	11189.	18368.	34888.	37389.	39503.	48924.	54899.	57570.	64429.	57641.
	53541.	50558.	50722.	77526.	66404.	67140.	62214.	54533.	36463.	33742.
	31890.	23463.								
1955	14415.	13371.	11500.	10838.	9461.	7491.	6510.	5999.	5518.	4869.
	4834.	4555.	4425.	4688.	4493.	3845.	3688.	3269.	2961.	2847.
	2810.	2600.	2385.	2515.	2497.	2703.	3020.	2956.	2988.	3061.
	6978.	10133.	11551.	28802.	31442.	42692.	67856.	71981.	75069.	79208.
	79411.	71137.	68586.	61054.	57583.	53619.	52704.	64547.	45310.	44049.
	34541.	35544.								
1956	20668.	15730.	11828.	9421.	6187.	4841.	4936.	4761.	4486.	3629.
	3648.	3695.	3907.	3294.	3037.	2844.	2783.	2705.	2572.	2736.
	2550.	2605.	2569.	2587.	2540.	2530.	2449.	2405.	2510.	2336.
	5266.	21107.	28155.	53302.	46596.	70346.	93245.	73775.	68116.	64438.
	72291.	76125.	74569.	70713.	62095.	53762.	44261.	37631.	37748.	47085.
	51719.	39838.								
1957	17262.	15437.	10377.	9327.	8482.	7096.	6443.	5983.	5686.	4873.
	4965.	4637.	4739.	4239.	4378.	4300.	4294.	3976.	3578.	3351.
	3353.	3266.	3099.	3089.	3087.	3093.	2994.	2843.	3013.	3118.
	7285.	13024.	17909.	36791.	61104.	72993.	71225.	70391.	55057.	60841.
	61351.	64597.	64000.	56195.	55688.	61697.	53405.	45599.	35339.	37400.
	34408.	39522.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30). the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7  
Synthesized flows for the period Oct. 49 through Apr. 81

TABLE 2 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUNSHINE

1958	21101.	17052.	13585.	13876.	10793.	10335.	8497.	7132.	7668.	8147.
	7112.	5822.	5018.	4930.	4444.	3861.	3739.	3363.	3245.	3032.
	3070.	3242.	3386.	3470.	3241.	3086.	3335.	3455.	4348.	5664.
	12052.	31445.	45444.	63572.	58652.	62743.	72743.	59986.	60064.	57164.
	54094.	57419.	61736.	94235.	78513.	74287.	53006.	39595.	27467.	31858.
	25497.	29445.								
1959	20071.	16994.	14250.	9792.	7710.	7039.	6007.	4625.	4186.	3159.
	3073.	4220.	4143.	3739.	3695.	3457.	3484.	3458.	3355.	2994.
	2834.	2693.	2476.	2545.	2692.	2742.	2798.	2908.	3889.	4892.
	7473.	13268.	43457.	49891.	44598.	50295.	39637.	51160.	63889.	60624.
	59914.	65486.	56443.	59048.	51234.	64813.	110999.	87636.	57222.	34460.
	23992.	23025.								
1960	23231.	16861.	9958.	11305.	8602.	7091.	6624.	6153.	5993.	5041.
	5038.	4884.	4847.	4192.	4408.	4021.	3819.	3598.	3383.	3277.
	3019.	2947.	2926.	2771.	2547.	2550.	2493.	2490.	3033.	3165.
	9834.	16856.	30515.	51986.	58311.	35099.	37580.	41703.	46768.	57159.
	45874.	50165.	67050.	77476.	68861.	58652.	50617.	43507.	32419.	56536.
	42558.	40220.								
1961	27277.	19379.	14352.	10553.	7723.	7194.	6725.	5801.	5867.	6177.
	6017.	5390.	5483.	5124.	4886.	5024.	5072.	4480.	3725.	3658.
	3592.	3469.	3177.	3406.	4001.	3900.	4723.	4855.	5251.	5571.
	11524.	23950.	39710.	38483.	38787.	38325.	63917.	76213.	68496.	57882.
	56695.	61448.	69583.	66684.	70624.	53452.	59133.	39921.	33492.	42348.
	33105.	35882.								
1962	25987.	13080.	12204.	11372.	8964.	7352.	6812.	6311.	5874.	4869.
	4836.	4817.	4810.	4293.	4155.	4159.	4172.	3758.	3292.	3223.
	3227.	3084.	2992.	2939.	2898.	2918.	3293.	3350.	3822.	3948.
	7535.	9228.	21998.	36813.	57048.	54598.	100907.	92899.	75088.	64799.
	64736.	62685.	72878.	72970.	55634.	51364.	49261.	56707.	53471.	30962.
	24002.	28609.								
1963	18542.	13624.	11294.	9763.	7033.	5800.	5593.	5377.	5286.	4735.
	4649.	4821.	4644.	4181.	4018.	3970.	3916.	3627.	3396.	3383.
	3363.	2955.	2358.	2319.	2172.	2236.	2002.	2006.	2056.	2030.
	5162.	6648.	34537.	56583.	73863.	51721.	50320.	51709.	58642.	73962.
	94118.	93556.	71752.	59421.	51527.	49426.	52148.	44959.	34182.	29882.
	23637.	25728.								
1964	22623.	19739.	16110.	10918.	7955.	6917.	5753.	4331.	4157.	3525.
	3449.	3031.	3031.	2936.	2925.	2694.	2580.	2496.	2419.	2387.
	2311.	2179.	2008.	1990.	1899.	1903.	2121.	2374.	2567.	2740.
	3135.	3938.	5265.	10766.	62954.	159391.	121320.	108536.	90560.	63985.
	70008.	68485.	49808.	57704.	48200.	44736.	46976.	35440.	28569.	22262.
	21446.	22168.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7  
Synthesized flows for the period Oct. 49 through Apr. 81

TABLE 2 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUNSHINE

1965	17910.	22910.	13289.	10873.	8339.	7781.	7610.	7836.	6333.	4725.
	4571.	4456.	4456.	3542.	3391.	3391.	3391.	3213.	2978.	2978.
	2978.	2916.	2833.	2833.	2833.	2833.	3267.	3267.	3587.	3639.
	5293.	9335.	20057.	34217.	62024.	48845.	53801.	59666.	69345.	63857.
	73304.	69019.	59113.	58821.	55048.	81679.	53261.	30322.	47226.	52901.
	48390.	79050.								
1966	33187.	23394.	11735.	9202.	7284.	5791.	5218.	4886.	4568.	4150.
	4036.	3912.	3794.	3519.	3453.	3421.	3388.	3258.	3082.	3026.
	2975.	2926.	2894.	2885.	2885.	2888.	3308.	3308.	3810.	3929.
	5661.	7364.	13743.	23295.	35651.	92830.	73419.	64856.	56973.	45860.
	51061.	54992.	62768.	76553.	62697.	54136.	69943.	49930.	33434.	32806.
	31378.	26252.								
1967	19226.	13446.	9958.	6558.	4904.	4424.	4291.	4187.	4068.	3929.
	3884.	3863.	3825.	3818.	3774.	3729.	3619.	3544.	3390.	3330.
	3220.	3116.	2892.	2798.	2747.	2715.	2530.	2502.	2532.	2866.
	4600.	13174.	37642.	49382.	58062.	53555.	69789.	69404.	76686.	65240.
	62004.	96138.	90481.	71299.	63591.	134156.	82846.	53088.	60005.	52333.
	29173.	24348.								
1968	15186.	12355.	9763.	7519.	6387.	5702.	5405.	5140.	4926.	4793.
	4653.	4514.	4369.	4339.	4282.	4183.	4129.	4035.	4023.	4012.
	3991.	3991.	3976.	3940.	3867.	3867.	3922.	3940.	4312.	4970.
	6403.	9989.	29937.	71163.	66407.	64885.	92372.	88636.	67323.	75860.
	74899.	63970.	70111.	56424.	56206.	46980.	43272.	34676.	27331.	26008.
	17424.	15099.								
1969	11338.	9770.	7645.	6914.	5716.	4623.	3892.	3537.	3132.	2843.
	2717.	2585.	2473.	2345.	2296.	2182.	2161.	2130.	2088.	2082.
	2108.	2077.	2077.	2084.	2092.	2121.	2276.	2568.	3330.	4869.
	7525.	12463.	20021.	38337.	26353.	28300.	41006.	49429.	48172.	45426.
	51040.	46444.	41005.	38199.	38765.	20168.	16366.	16328.	18120.	15459.
	12986.	12475.								
1970	11740.	11348.	9474.	6758.	5790.	4595.	3744.	3375.	3087.	2939.
	2850.	2829.	2792.	2695.	2636.	2599.	2579.	2564.	2550.	2462.
	2377.	2368.	2368.	2382.	2419.	2419.	2501.	2719.	3124.	3870.
	5620.	12391.	31697.	34699.	42949.	39107.	51237.	42523.	60532.	60992.
	56330.	62455.	60586.	72477.	63724.	48233.	55810.	40138.	36036.	31765.
	26447.	17198.								
1971	16190.	13622.	11284.	9541.	9275.	8669.	7385.	6557.	5894.	5450.
	5111.	4800.	4401.	3981.	3626.	3279.	2932.	2725.	2619.	2498.
	2474.	2408.	2378.	2364.	2326.	2380.	2428.	2486.	2667.	2888.
	3581.	5450.	8499.	14261.	23880.	51272.	94115.	70113.	105724.	67869.
	73570.	75208.	48933.	58933.	111293.	88576.	56895.	44989.	50071.	34650.
	25264.	23696.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7  
Synthesized flows for the period Oct. 49 through Apr. 81

TABLE 2 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUNSHINE

1972	16986.	19300.	13377.	10265.	8478.	7414.	6736.	6144.	5664.	5258.
	5073.	4741.	4615.	4556.	4291.	4269.	4136.	4136.	3981.	3789.
	3722.	3589.	3494.	3349.	3267.	3207.	3094.	3085.	3083.	3367.
	6890.	31208.	30604.	43564.	77716.	49249.	77141.	76258.	57752.	64368.
	73525.	58894.	55743.	58593.	56133.	52417.	54877.	35655.	38121.	51237.
	32120.	21045.								
1973	15112.	12043.	16499.	12065.	8322.	6791.	5982.	5255.	4896.	4783.
	4349.	4401.	4065.	3543.	3361.	3306.	3209.	3252.	3161.	3090.
	3057.	2855.	2601.	2616.	2488.	2427.	2301.	2476.	2524.	2995.
	4201.	8627.	28303.	32643.	35916.	45603.	74713.	82150.	61144.	54091.
	55013.	42076.	44824.	44994.	51591.	37825.	59742.	54057.	34150.	24306.
	17546.	13608.								
1974	12505.	9102.	6700.	5814.	4871.	4308.	4153.	3868.	3805.	3452.
	3182.	2895.	2896.	2723.	2672.	2599.	2541.	2519.	2542.	2502.
	2463.	2405.	2389.	2290.	2184.	2162.	2132.	2170.	2399.	3372.
	5845.	13273.	21516.	44503.	57360.	39156.	39336.	40758.	48381.	48939.
	55012.	53978.	51181.	47619.	50529.	44633.	33265.	49049.	42016.	24362.
	21924.	30550.								
1975	14144.	12886.	7589.	6290.	5445.	4691.	4373.	4145.	4260.	3996.
	3934.	3994.	3979.	3856.	3641.	3441.	3347.	3443.	3294.	3081.
	3012.	2998.	2856.	2902.	2928.	2845.	2916.	2927.	3038.	3601.
	5316.	10149.	27584.	42834.	63847.	71819.	60748.	74235.	72396.	69072.
	80847.	74257.	59965.	58069.	70989.	51926.	40080.	35119.	31860.	44500.
	41632.	36349.								
1976	21330.	19074.	15485.	9434.	6982.	5183.	4405.	3709.	3496.	3196.
	3096.	2946.	2893.	2848.	2806.	2677.	2688.	2667.	2682.	2967.
	2845.	2828.	2773.	2553.	2544.	2561.	2531.	2730.	3541.	5010.
	12263.	34395.	29057.	31116.	38560.	65694.	78734.	55537.	60624.	56025.
	60466.	62810.	58821.	59378.	63217.	56781.	62128.	34680.	23750.	20236.
	21055.	23935.								
1977	15213.	12668.	10437.	9972.	8122.	7087.	6333.	5823.	6915.	6246.
	5349.	5131.	4920.	4696.	4389.	4067.	3959.	3646.	3518.	3361.
	3475.	3358.	3276.	3219.	3172.	3170.	3426.	3295.	3376.	3489.
	4320.	7537.	21572.	34865.	61347.	87107.	111840.	92399.	89321.	61670.
	67293.	76319.	63978.	62349.	61984.	61972.	67468.	38423.	32239.	37610.
	36740.	35613.								
1978	21436.	20366.	16959.	12879.	10596.	8376.	7179.	6531.	6198.	5791.
	5579.	5376.	5270.	5201.	4739.	4585.	4296.	4039.	3719.	3532.
	3395.	3221.	3216.	3175.	3063.	3200.	3452.	3377.	3503.	3989.
	6769.	20739.	28688.	22552.	25198.	36637.	52575.	45217.	54310.	60360.
	57994.	62681.	63169.	62771.	58740.	53824.	41760.	31138.	35008.	28967.
	21936.	17876.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7  
Synthesized flows for the period Oct. 49 through Apr. 81

TABLE 2 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUNSHINE

1979	13298.	12587.	10669.	8195.	7956.	7355.	5911.	5374.	5222.	5054.
	4810.	4395.	4262.	3911.	4000.	3782.	3710.	3405.	3325.	3158.
	3192.	3072.	2899.	2964.	2885.	2951.	2983.	3119.	3351.	4948.
	8793.	18449.	31505.	42264.	69722.	59100.	53485.	50688.	64893.	68273.
	71248.	93255.	83639.	75231.	67342.	61788.	50656.	38018.	22286.	22524.
	27205.	26030.								
1980	18773.	22775.	14605.	11352.	10306.	9631.	10190.	6813.	6890.	5471.
	4931.	4784.	4435.	4168.	4095.	3915.	3796.	3660.	3597.	3421.
	3344.	3401.	3269.	3230.	3097.	3193.	3207.	3362.	3569.	5062.
	8985.	15510.	21319.	22436.	37557.	57698.	52364.	64839.	68573.	69152.
	76877.	76930.	74906.	71178.	50916.	44331.	41509.	31392.	24977.	26452.
	41331.	30314.								
1981	21247.	18703.	15614.	12936.	10415.	9464.	7562.	7405.	7113.	5740.
	4662.	4300.	4085.	4133.	4272.	4538.	4707.	4621.	4599.	4078.
	3620.	3443.	3369.	3447.	3401.	3422.	3371.	3450.	3742.	5455.
	14600.	40714.	42857.	34114.	49114.	45257.	43229.	52300.	60214.	54143.
	115700.	97171.	87043.	92029.	82914.	103657.	77000.	60971.	44243.	33757.
	27857.	24857.								
1982	17214.	16000.	16214.	18571.	9929.	8414.	7271.	5771.	4914.	4429.
	4043.	3914.	3657.	3000.	3500.	3500.	3500.	3514.	3829.	3214.
	2814.	2700.	2700.	2700.	2800.	3386.	3357.	3300.	3514.	4529.
	6557.	15914.	31000.	35000.	46400.	65386.	55857.	63100.	69257.	51500.
	57886.	59386.	78257.	67214.	49800.	45043.	38500.	40171.	37829.	41971.
	76157.	46571.								
1983	26100.	19400.	14814.	12300.	10443.	9143.	8214.	7286.	6786.	6214.
	5929.	5500.	5729.	6514.	5443.	4843.	4671.	4600.	4514.	4943.
	4786.	4186.	3829.	3486.	3243.	3114.	3157.	3286.	3900.	5514.
	9829.	23214.	40200.	37000.	49700.	56386.	45271.	56800.	63300.	63443.
	58943.	47871.	48071.	52071.	75200.	64386.	49200.	53514.	45200.	27000.
	21571.	25057.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7  
Synthesized flows for the period Oct. 49 through Apr. 81

**TABLE 3**

TABLE 3

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUSITNA STATION

1951	5257.	4686.	4091.	2334.	1471.	1386.	1300.	1229.	1171.	1100.
	1100.	1100.	1100.	980.	960.	960.	960.	900.	820.	820.
	820.	786.	740.	740.	740.	740.	774.	997.	1529.	2657.
	6157.	17329.	19271.	9567.	16671.	29543.	21300.	13543.	19071.	20729.
	24343.	23286.	21414.	21429.	17614.	18714.	18314.	25600.	30057.	18671.
	19286.	18657.								
1952	9229.	6171.	4486.	3486.	3500.	3204.	2369.	2343.	2186.	1900.
	1900.	1900.	1900.	1643.	1600.	1600.	1600.	1343.	1000.	1000.
	1000.	949.	880.	880.	880.	880.	920.	920.	920.	920.
	1191.	1514.	2071.	4486.	21929.	24814.	35143.	38114.	33729.	27629.
	19629.	25086.	27186.	37243.	25071.	19686.	14943.	17329.	18886.	12771.
	11029.	15086.								
1953	11143.	10390.	7233.	5271.	5000.	4257.	2729.	3343.	2429.	1700.
	1700.	1700.	1700.	1186.	1100.	1100.	1100.	980.	820.	820.
	820.	820.	820.	820.	820.	820.	930.	930.	1504.	2500.
	14129.	16814.	15300.	26386.	20743.	35114.	27114.	22071.	25829.	20229.
	18271.	19871.	20657.	25643.	21857.	17514.	18029.	21500.	18786.	17114.
	14271.	12426.								
1954	8119.	6733.	4940.	3937.	2401.	2271.	2100.	1957.	1786.	1500.
	1500.	1500.	1500.	1329.	1300.	1300.	1300.	1171.	1000.	1000.
	1000.	906.	780.	780.	780.	780.	870.	870.	1496.	1600.
	6743.	12286.	19900.	22814.	21571.	25457.	24457.	23457.	28514.	24486.
	19529.	19000.	19000.	31143.	24000.	24000.	24000.	23000.	16286.	14000.
	13057.	9581.								
1955	6500.	6109.	4600.	4600.	3686.	3000.	2829.	2500.	2414.	2200.
	2157.	1900.	1900.	1986.	2000.	1714.	1600.	1514.	1400.	1400.
	1400.	1271.	1100.	1100.	1100.	1100.	1200.	1200.	1200.	1200.
	3557.	4500.	5257.	15743.	17429.	20329.	33143.	35957.	33671.	34186.
	28557.	22043.	26357.	22614.	20900.	21443.	26071.	37243.	19671.	15029.
	12214.	10993.								
1956	7236.	5327.	4339.	3737.	2486.	2100.	1929.	1700.	1586.	1300.
	1300.	1300.	1300.	1026.	980.	980.	980.	976.	970.	970.
	970.	957.	940.	940.	940.	940.	950.	950.	950.	950.
	2514.	11400.	16271.	32371.	21686.	33457.	43543.	31971.	28186.	29057.
	31686.	32000.	31229.	31429.	28771.	26000.	20729.	17714.	16000.	22429.
	21857.	16000.								
1957	7200.	7200.	4886.	4500.	3757.	3200.	3071.	2900.	2757.	2400.
	2329.	1900.	1900.	1729.	1700.	1700.	1700.	1614.	1500.	1500.
	1500.	1371.	1200.	1200.	1200.	1200.	1200.	1200.	1200.	1200.
	3414.	5757.	9400.	21057.	30914.	37443.	33086.	29357.	20100.	23214.
	21329.	23914.	25943.	20957.	20943.	20829.	19100.	21143.	18914.	20643.
	20071.	22029.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7  
Synthesized flows for the period Oct. 49 through Sept. 74

TABLE 3 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUSITNA STATION

1958	10333.	8864.	7230.	7454.	5429.	4521.	3870.	3181.	3586.	4314.
	3680.	2744.	2229.	2429.	2129.	1857.	1757.	1457.	1443.	1300.
	1200.	1200.	1200.	1171.	1100.	1100.	1200.	1343.	1457.	1766.
	3990.	7883.	11014.	20971.	22057.	28000.	28000.	24143.	22000.	22000.
	22000.	22000.	21571.	38686.	27529.	20443.	16571.	11557.	8500.	8500.
	6600.	7543.								
1959	5991.	5271.	5043.	3500.	2986.	2600.	2214.	1700.	1529.	1100.
	1214.	1900.	1900.	1557.	1500.	1429.	1400.	1400.	1400.	1343.
	1200.	1106.	980.	980.	980.	980.	1000.	1000.	1429.	1500.
	2857.	4543.	19400.	27486.	22329.	26029.	19443.	23171.	25929.	26400.
	25343.	27457.	21686.	23886.	18629.	23914.	44171.	43171.	28700.	14829.
	11137.	12007.								
1960	10714.	7400.	4071.	5086.	3486.	3000.	2871.	2700.	2557.	2200.
	2200.	2200.	2200.	2029.	2000.	1786.	1700.	1614.	1500.	1471.
	1400.	1357.	1300.	1243.	1100.	1100.	1100.	1100.	1443.	1500.
	5857.	7600.	14686.	22857.	24286.	14357.	14886.	15414.	16943.	22929.
	17000.	19557.	26814.	32043.	25429.	22471.	21714.	20857.	18314.	28943.
	20514.	17557.								
1961	12529.	9100.	6471.	4714.	3586.	3300.	3043.	2700.	2757.	2900.
	2843.	2500.	2500.	2414.	2400.	2471.	2500.	2200.	1800.	1771.
	1700.	1614.	1500.	1671.	2100.	2100.	2500.	2500.	2757.	2800.
	7229.	12714.	22000.	20957.	19814.	18971.	30986.	38714.	32529.	23000.
	24143.	25000.	25900.	25643.	26000.	22200.	21071.	15657.	12429.	14100.
	13429.	15457.								
1962	10429.	4600.	4600.	4600.	3514.	2700.	2700.	2700.	2529.	2100.
	2100.	2100.	2100.	1929.	1900.	1900.	1900.	1729.	1500.	1500.
	1500.	1457.	1400.	1400.	1400.	1400.	1700.	1700.	1700.	1700.
	3700.	4500.	12214.	18000.	28471.	30286.	58743.	50229.	35557.	27186.
	26543.	23129.	27186.	26057.	23000.	23000.	23000.	23429.	23571.	14886.
	12057.	13871.								
1963	9150.	6967.	6071.	5486.	3700.	2800.	2800.	2800.	2571.	2000.
	2000.	2000.	2000.	1657.	1600.	1600.	1600.	1557.	1500.	1500.
	1500.	1286.	1000.	1000.	1000.	1000.	830.	830.	830.	830.
	2666.	3400.	19171.	31000.	35686.	26000.	26000.	26000.	26000.	31143.
	40257.	38143.	32571.	27800.	25143.	21814.	23071.	19543.	15143.	13543.
	10829.	10979.								
1964	8897.	7491.	6129.	4643.	2886.	2600.	2300.	1900.	1843.	1700.
	1643.	1300.	1300.	1129.	1100.	1029.	1000.	1000.	1000.	980.
	930.	861.	770.	739.	660.	660.	710.	710.	770.	780.
	866.	1043.	1400.	3099.	28990.	75029.	51529.	43000.	31100.	25371.
	26143.	24671.	16929.	19757.	18729.	15100.	16100.	13600.	11354.	9253.
	9304.	9106.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7. Synthesized flows for the period Oct. 49 through Sept. 74

TABLE 3 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUSITNA STATION

1965	7677.	8591.	5623.	4473.	3080.	2836.	2807.	3129.	2033.	1370.
	1221.	1110.	1110.	981.	960.	960.	960.	917.	860.	860.
	860.	877.	900.	900.	900.	900.	1180.	1180.	1489.	1540.
	2011.	5386.	9371.	16886.	33643.	21971.	23471.	22429.	33014.	30357.
	30614.	28514.	24729.	22229.	19671.	30386.	20371.	11343.	16849.	20700.
	18943.	25043.								
1966	15086.	8387.	3929.	3250.	2764.	2264.	2000.	1907.	1829.	1714.
	1657.	1590.	1530.	1419.	1400.	1400.	1400.	1357.	1300.	1300.
	1300.	1300.	1300.	1300.	1300.	1300.	1500.	1500.	1971.	2050.
	3014.	3886.	7200.	13800.	21657.	47686.	34129.	28829.	24329.	18643.
	17757.	18586.	21029.	28014.	22914.	18843.	22829.	18300.	12886.	12514.
	12371.	10314.								
1967	6990.	4687.	3544.	2400.	1729.	1600.	1600.	1600.	1571.	1500.
	1500.	1500.	1500.	1500.	1500.	1500.	1500.	1457.	1400.	1400.
	1400.	1314.	1200.	1200.	1200.	1200.	1100.	1100.	1129.	1300.
	1743.	4929.	17143.	23986.	28829.	26571.	34814.	29014.	28386.	21557.
	21471.	29857.	34800.	27100.	25043.	54871.	30600.	20614.	29071.	17157.
	12471.	10831.								
1968	6851.	5703.	4460.	3400.	2857.	2429.	2300.	2214.	2171.	2100.
	2100.	2014.	2000.	2000.	2000.	2000.	1971.	1900.	1900.	1900.
	1900.	1900.	1900.	1900.	1900.	1900.	1871.	1800.	1886.	2014.
	2243.	2943.	13086.	33843.	27543.	26457.	36829.	37343.	27186.	29429.
	26786.	25857.	24986.	22214.	20143.	16757.	15143.	13429.	11271.	11291.
	7210.	6309.								
1969	5061.	4370.	3366.	2987.	2543.	1971.	1500.	1314.	1086.	950.
	900.	850.	807.	771.	750.	700.	700.	700.	700.	714.
	750.	750.	779.	800.	843.	871.	957.	1129.	1471.	2086.
	3400.	6013.	11434.	20057.	12069.	12800.	16314.	17871.	16229.	13929.
	17629.	18114.	15143.	13386.	14286.	7399.	6001.	5593.	6303.	5511.
	4726.	4536.								
1970	3940.	3709.	3249.	2193.	1714.	1429.	1129.	1000.	936.	900.
	857.	850.	850.	850.	850.	814.	800.	800.	800.	750.
	750.	750.	750.	764.	800.	800.	850.	936.	1071.	1300.
	1943.	4614.	16343.	14757.	18129.	16971.	16371.	15500.	26100.	25029.
	21000.	22500.	21514.	26429.	22871.	17671.	19971.	13786.	11897.	9466.
	9643.	6143.								
1971	7017.	5857.	4771.	4057.	4000.	3800.	3457.	3057.	2743.	2571.
	2400.	2200.	1971.	1743.	1557.	1414.	1243.	1157.	1100.	1000.
	1000.	979.	950.	950.	950.	950.	964.	1000.	1086.	1214.
	1457.	1900.	2800.	4943.	8714.	22857.	47186.	28657.	39586.	24471.
	24900.	28700.	18671.	24357.	44743.	40000.	24529.	19471.	22857.	14586.
	11029.	10939.								

<sup>1/</sup> Weekly flows start from Week 1 (Oct 1-7) to Week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7

TABLE 3 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUSITNA STATION

1972	7744.	6939.	5267.	4343.	3600.	3257.	3086.	2914.	2771.	2600.
	2600.	2400.	2400.	2400.	2200.	2200.	2200.	2200.	2086.	2000.
	2000.	1914.	1886.	1800.	1800.	1771.	1700.	1700.	1629.	1700.
	3386.	19571.	19286.	26886.	44243.	24471.	43457.	38057.	25729.	25371.
	25357.	22600.	18429.	20243.	21729.	19929.	20600.	13786.	13186.	18029.
1973	13286.	6857.								
	4786.	4429.	6143.	4557.	3114.	2543.	2171.	2000.	1743.	1600.
	1429.	1400.	1400.	1229.	1200.	1200.	1200.	1200.	1200.	1200.
	1200.	1114.	1000.	1000.	1000.	1000.	1000.	1000.	1000.	1057.
	1400.	2686.	9200.	12671.	15714.	20214.	33700.	36443.	23943.	21057.
1974	20129.	15229.	16429.	17657.	21029.	16757.	21800.	23171.	12814.	8942.
	7551.	7010.								
	5636.	4539.	3130.	2371.	1914.	1643.	1514.	1386.	1271.	1143.
	1029.	979.	950.	907.	900.	864.	850.	829.	800.	786.
	750.	750.	750.	736.	700.	700.	700.	729.	879.	1400.
1975	2571.	6586.	12286.	27429.	31357.	19557.	16700.	15614.	16671.	16943.
	21057.	19314.	18571.	17714.	18686.	15986.	12651.	17130.	16614.	9314.
	9413.	14154.								
	5503.	5469.	2914.	1943.	1700.	1700.	1700.	1700.	1686.	1600.
	1600.	1600.	1600.	1586.	1500.	1500.	1500.	1500.	1500.	1500.
1976	1443.	1400.	1400.	1400.	1400.	1400.	1400.	1414.	1543.	1829.
	2843.	6857.	15071.	23029.	30500.	36400.	27343.	34357.	30714.	27500.
	29900.	28343.	25929.	24200.	19486.	18614.	16429.	14157.	11743.	19886.
	18629.	17943.								
	10286.	9071.	8357.	4929.	3429.	2457.	1871.	1486.	1271.	1143.
1977	1100.	1057.	1000.	1000.	1000.	964.	950.	950.	950.	950.
	950.	929.	900.	900.	900.	900.	900.	943.	1171.	1957.
	4957.	13943.	13400.	14014.	16129.	27700.	29843.	21014.	20300.	19329.
	19286.	18386.	18857.	21714.	27714.	20571.	15800.	11183.	7729.	6330.
	6367.	7750.								
1978	4831.	3943.	3760.	3337.	2943.	2714.	2543.	2400.	2886.	2714.
	2457.	2257.	2086.	1957.	1900.	1800.	1757.	1700.	1629.	1600.
	1600.	1557.	1500.	1500.	1500.	1500.	1600.	1600.	1686.	1771.
	1971.	3457.	12514.	19200.	29200.	34957.	46300.	37943.	33857.	21714.
	24143.	25514.	21229.	22286.	21329.	19514.	19729.	12514.	10363.	14671.
1978	14071.	13534.								
	8829.	8957.	7871.	5871.	4486.	3829.	3450.	3200.	2964.	2757.
	2636.	2557.	2364.	2236.	2107.	2000.	1921.	1807.	1700.	1650.
	1650.	1600.	1600.	1600.	1600.	1621.	1650.	1650.	1650.	1743.
	3643.	12557.	17143.	11600.	12371.	15386.	21371.	18286.	22786.	22314.
20729.	20957.	20557.	20214.	19114.	17771.	14829.	10686.	11214.	10109.	
7599.	6481.									

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7. Synthesized flows for the period Oct. 49 through Sept. 74

TABLE 3 (Continued)

NATURAL WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT SUSITNA STATION

1979	5416.	6069.	4901.	3679.	3577.	3126.	2343.	2057.	1971.	1900.
	1729.	1557.	1500.	1457.	1400.	1400.	1400.	1300.	1300.	1300.
	1300.	1200.	1200.	1200.	1200.	1200.	1200.	1257.	1386.	1743.
	2743.	5143.	12000.	19143.	31671.	27486.	23071.	20829.	25771.	26371.
	26086.	31757.	32457.	26514.	24800.	20029.	17057.	15171.	9447.	9203.
	13543.	12254.								
1980	7890.	10014.	7034.	5197.	4871.	4424.	4929.	3529.	3357.	2743.
	2471.	2257.	2043.	1914.	1829.	1729.	1643.	1600.	1529.	1457.
	1400.	1400.	1400.	1400.	1400.	1400.	1400.	1400.	1471.	2000.
	4143.	9714.	13914.	12443.	19843.	32143.	25329.	32800.	28614.	31343.
	31800.	33557.	30143.	33014.	23200.	21929.	19886.	14457.	10570.	11304.
	19000.	14186.								
1981	9849.	8779.	7303.	6019.	4657.	4211.	3143.	3200.	3200.	2314.
	1786.	1679.	1614.	1671.	1829.	2129.	2300.	2329.	2414.	2014.
	1600.	1500.	1500.	1600.	1629.	1650.	1700.	1771.	1886.	2443.
	5623.	20400.	20486.	13500.	21943.	18629.	16914.	18200.	21257.	17829.
	42086.	41143.	36700.	38600.	36157.	46729.	37029.	24971.	17986.	14500.
	12100.	11256.								
1982	7641.	7200.	7399.	8581.	4612.	3943.	3857.	3243.	2828.	2529.
	2385.	2300.	2300.	2300.	2300.	2300.	2300.	2314.	2357.	1721.
	1250.	1100.	1100.	1100.	1164.	1497.	1500.	1500.	1657.	2200.
	3386.	8100.	15000.	20143.	22714.	26143.	21857.	28857.	28000.	19500.
	24114.	24514.	27500.	23657.	16629.	14471.	12629.	14014.	13486.	16886.
	26557.	16729.								
1983	10429.	8201.	6669.	3914.	2971.	2786.	2643.	2471.	2400.	2300.
	2300.	2300.	2443.	2771.	2400.	2429.	2000.	1957.	1900.	2043.
	2086.	1957.	1814.	1700.	1643.	1514.	1500.	1529.	1786.	2414.
	4600.	11086.	19143.	17000.	24143.	27343.	19586.	23886.	23671.	25371.
	21857.	18243.	19714.	21014.	26586.	25414.	21757.	26671.	18957.	12586.
	10334.	11878.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 7. Synthesized flows for the period Oct. 49 through Sept. 74

**TABLE 4**

TABLE 4

COMPUTED WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT WATANA DAMSITE

1951	4521.	4029.	3518.	2007.	1248.	1176.	1103.	1042.	994.	903.
	903.	903.	903.	828.	812.	812.	812.	757.	667.	667.
	667.	641.	618.	618.	618.	618.	542.	700.	1071.	1861.
	4923.	14338.	15945.	7915.	13828.	26696.	19247.	12238.	17232.	18464.
	21682.	20740.	19074.	17891.	14413.	15312.	14985.	21048.	24531.	15237.
1952	15738.	13323.								
	7559.	5055.	3674.	2855.	2793.	2609.	1928.	1908.	1761.	1489.
	1489.	1489.	1489.	1329.	1299.	1299.	1299.	1069.	819.	819.
	819.	784.	730.	730.	730.	730.	796.	796.	796.	796.
	909.	1132.	1549.	3357.	16784.	19892.	28174.	30555.	27039.	23527.
1953	16714.	21361.	23150.	30727.	19888.	15618.	11855.	13935.	15561.	10522.
	9086.	10876.								
	8559.	7982.	5556.	4049.	3948.	3377.	2164.	2652.	1913.	1250.
	1250.	1250.	1250.	880.	820.	820.	820.	722.	598.	598.
	598.	606.	678.	678.	678.	678.	486.	486.	785.	1308.
1954	10007.	13666.	12435.	21448.	16652.	27821.	21482.	17488.	20466.	17377.
	15695.	17070.	17745.	20931.	17859.	14312.	14731.	17519.	14058.	12806.
	10679.	8137.								
	6126.	5080.	3728.	2971.	1821.	1738.	1608.	1497.	1361.	1174.
	1174.	1174.	1174.	1120.	1099.	1099.	1099.	982.	794.	794.
1955	794.	716.	630.	630.	630.	630.	506.	506.	870.	930.
	4308.	8521.	13802.	15823.	14807.	19799.	19022.	18245.	22178.	19307.
	15396.	14981.	14981.	24614.	20049.	20049.	20049.	18930.	11256.	9676.
	9025.	5793.								
	4746.	4461.	3359.	3359.	2716.	2156.	2032.	1796.	1756.	1657.
1956	1624.	1431.	1431.	1546.	1561.	1338.	1249.	1179.	1052.	1052.
	1052.	949.	879.	879.	879.	879.	828.	828.	828.	828.
	2519.	3321.	3882.	11626.	12771.	17007.	27727.	30081.	28168.	29660.
	24776.	19124.	22869.	20805.	19270.	19771.	24039.	34146.	17921.	13691.
	11128.	8763.								
1957	6059.	4461.	3633.	3129.	2062.	1721.	1581.	1393.	1306.	1027.
	1027.	1027.	1027.	848.	810.	810.	810.	809.	750.	750.
	750.	739.	689.	689.	689.	689.	641.	641.	641.	641.
	1798.	8483.	12106.	24085.	15966.	27294.	35522.	26081.	22994.	24335.
	26536.	26799.	26153.	24666.	22447.	20285.	16173.	13792.	11446.	16046.
1957	15637.	10015.								
	5279.	5279.	3583.	3300.	2789.	2342.	2247.	2123.	2035.	1908.
	1852.	1509.	1509.	1399.	1378.	1378.	1378.	1310.	1193.	1193.
	1193.	1079.	920.	920.	920.	920.	837.	837.	837.	837.
	2452.	4269.	6969.	15611.	23050.	31747.	28053.	24892.	17043.	19864.
18252.	20463.	22198.	17659.	17664.	17568.	16111.	17804.	14143.	15435.	
15008.	14415.									

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 8.

TABLE 4 (Continued)

COMPUTED WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT WATANA DAMSITE

1958	7628.	6544.	5337.	5503.	3997.	3287.	2815.	2314.	2637.	2991.
	2551.	1902.	1544.	1839.	1614.	1408.	1332.	1101.	1152.	1038.
	959.	959.	1024.	1000.	939.	939.	950.	1063.	1153.	1398.
	3001.	5917.	8267.	15742.	16842.	24642.	24642.	21247.	19363.	18442.
	18442.	18442.	18082.	32829.	23946.	17783.	14415.	9969.	6605.	6605.
	5128.	5129.								
1959	4604.	4050.	3875.	2689.	2392.	2068.	1760.	1352.	1215.	797.
	879.	1375.	1375.	1150.	1109.	1056.	1035.	1051.	1027.	984.
	879.	797.	683.	683.	683.	683.	666.	666.	952.	999.
	1801.	2951.	12604.	17856.	14298.	20496.	15311.	18247.	20418.	21688.
	20819.	22556.	17816.	18373.	14392.	18474.	34121.	33290.	20953.	10824.
	8131.	7669.								
1960	8534.	5896.	3243.	4051.	2692.	2292.	2194.	2064.	1962.	1656.
	1656.	1656.	1656.	1541.	1523.	1360.	1295.	1227.	1175.	1152.
	1097.	1062.	1041.	996.	882.	882.	694.	694.	910.	945.
	4703.	6668.	12886.	20055.	20716.	11838.	12275.	12710.	13971.	19936.
	14780.	17003.	23312.	26487.	20467.	18086.	17477.	16811.	14281.	22570.
	15996.	11980.								
1961	9778.	7102.	5050.	3678.	2753.	2516.	2319.	2058.	2118.	2126.
	2085.	1833.	1833.	1776.	1773.	1825.	1846.	1601.	1317.	1297.
	1246.	1181.	1097.	1222.	1535.	1535.	1617.	1617.	1783.	1811.
	5580.	10306.	17834.	16989.	15795.	14578.	23810.	29749.	24996.	18341.
	19253.	19937.	20655.	22581.	23083.	19710.	18708.	13842.	9309.	10560.
	10059.	10131.								
1962	8304.	3663.	3663.	3663.	2910.	2187.	2187.	2187.	2067.	1742.
	1742.	1742.	1742.	1645.	1626.	1626.	1626.	1462.	1237.	1237.
	1237.	1207.	1174.	1174.	1174.	1174.	1335.	1335.	1335.	1335.
	3165.	3896.	10571.	15580.	25042.	25502.	49464.	42296.	29941.	24659.
	24076.	20979.	24659.	22051.	19487.	19487.	19487.	19844.	18961.	11972.
	9699.	9763.								
1963	7677.	5846.	5094.	4603.	3273.	2427.	2427.	2427.	2243.	1684.
	1684.	1684.	1684.	1346.	1303.	1303.	1303.	1284.	1203.	1203.
	1203.	1015.	870.	870.	870.	870.	680.	680.	680.	680.
	2138.	2871.	16185.	26173.	29395.	20039.	20039.	20039.	20039.	25591.
	33081.	31343.	26765.	24772.	22882.	19853.	20996.	17689.	13124.	11736.
	9384.	8325.								
1964	7204.	6067.	4963.	3760.	2277.	2037.	1803.	1489.	1454.	1358.
	1311.	1038.	1038.	913.	888.	830.	807.	816.	818.	802.
	760.	696.	612.	588.	524.	524.	588.	588.	637.	646.
	524.	521.	699.	1548.	17791.	66753.	45845.	38257.	27669.	22261.
	22938.	21646.	14854.	16893.	15985.	12889.	13741.	11603.	8901.	7255.
	7294.	6247.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 8.

TABLE 4 (Continued)

COMPUTED WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT WATANA DAMSITE

1965	5814.	6506.	4258.	3387.	2593.	2408.	2383.	2656.	1708.	1175.
	1047.	952.	952.	880.	866.	866.	866.	821.	764.	764.
	764.	785.	809.	809.	809.	809.	1050.	1050.	1324.	1370.
	1702.	4582.	7973.	14365.	28598.	18020.	19249.	18396.	27076.	25264.
	25478.	23730.	20581.	18313.	16343.	25247.	16925.	9394.	14093.	17314.
	15844.	18328.								
1966	10948.	6087.	2852.	2359.	2043.	1676.	1481.	1412.	1361.	1265.
	1223.	1174.	1129.	1075.	1062.	1062.	1062.	1025.	980.	980.
	980.	983.	985.	985.	985.	985.	1091.	1091.	1432.	1490.
	2210.	2873.	5322.	10202.	16017.	37660.	26954.	22768.	19214.	15178.
	14458.	15132.	17122.	22511.	18320.	15064.	18252.	14606.	10023.	9733.
	9623.	7019.								
1967	5525.	3705.	2802.	1896.	1290.	1192.	1192.	1192.	1173.	1119.
	1119.	1119.	1119.	1105.	1106.	1106.	1106.	1077.	1037.	1037.
	1037.	965.	882.	882.	882.	882.	771.	771.	790.	910.
	1409.	4044.	14066.	19680.	23533.	22187.	29069.	24227.	23703.	17634.
	17564.	24423.	28466.	21665.	20177.	44209.	24653.	16555.	23511.	13875.
	10087.	7666.								
1968	5636.	4692.	3669.	2797.	2340.	1987.	1881.	1812.	1780.	1740.
	1740.	1669.	1657.	1633.	1634.	1634.	1611.	1552.	1561.	1561.
	1561.	1561.	1560.	1560.	1560.	1560.	1544.	1485.	1556.	1662.
	1787.	2353.	10464.	27061.	21911.	21507.	29938.	30356.	22099.	24724.
	22504.	21723.	20991.	18324.	16541.	13759.	12436.	11024.	9099.	9115.
	5821.	4456.								
1969	4162.	3593.	2768.	2457.	2109.	1631.	1241.	1087.	901.	809.
	767.	724.	687.	658.	640.	598.	598.	598.	587.	599.
	630.	630.	655.	673.	709.	732.	779.	919.	1196.	1696.
	2867.	5116.	9727.	17064.	10209.	11525.	14689.	16092.	14614.	13051.
	16518.	16974.	14188.	11668.	12201.	6318.	5126.	4792.	5256.	4595.
	3939.	3308.								
1970	3018.	2841.	2489.	1680.	1432.	1202.	950.	842.	787.	735.
	699.	694.	694.	656.	656.	628.	617.	618.	628.	589.
	589.	589.	605.	616.	645.	645.	769.	846.	969.	1176.
	1634.	3900.	13817.	12474.	15221.	12989.	12531.	11864.	19977.	20089.
	16855.	18059.	17267.	21606.	18880.	14586.	16486.	11350.	9396.	7477.
	7616.	4244.								
1971	4991.	4166.	3393.	2885.	2923.	2796.	2543.	2249.	2013.	1886.
	1761.	1614.	1446.	1328.	1188.	1080.	950.	880.	821.	746.
	746.	730.	716.	716.	716.	716.	717.	744.	808.	904.
	1098.	1415.	2087.	3683.	6558.	19251.	39740.	24136.	33340.	21395.
	21771.	25092.	16325.	20943.	38945.	34819.	21352.	16880.	19170.	12233.
	9251.	8027.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 8.

TABLE 4 (Continued)

COMPUTED WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT WATANA DAMSITE

1972	6619.	5931.	4501.	3711.	3005.	2717.	2574.	2431.	2311.	2016.
	2016.	1860.	1860.	1790.	1642.	1642.	1642.	1643.	1528.	1465.
	1465.	1403.	1416.	1351.	1351.	1329.	1241.	1241.	1189.	1241.
	2386.	13753.	13553.	18894.	31966.	20142.	35772.	31327.	21178.	22096.
	22084.	19683.	16050.	18343.	19675.	18045.	18653.	12473.	11598.	15857.
	11686.	5278.								
1973	4296.	3976.	5515.	4090.	2727.	2210.	1887.	1738.	1519.	1356.
	1210.	1186.	1186.	1051.	1026.	1026.	1026.	1035.	1008.	1008.
	1008.	929.	868.	868.	868.	868.	879.	879.	879.	929.
	1227.	2355.	8066.	11109.	13811.	17385.	28985.	31344.	20593.	18980.
	18143.	13728.	14810.	15752.	18754.	14942.	19441.	20593.	11210.	7823.
	6605.	5366.								
1974	4607.	3710.	2558.	1938.	1693.	1459.	1344.	1230.	1129.	1028.
	926.	881.	854.	816.	811.	778.	765.	745.	707.	694.
	662.	663.	648.	636.	605.	605.	594.	620.	747.	1189.
	2059.	5341.	9964.	22246.	25280.	16013.	13675.	12785.	13651.	14383.
	17876.	16396.	15766.	14730.	15504.	13265.	10498.	14244.	13395.	7511.
	7590.	9984.								
1975	4537.	4509.	2402.	1602.	1468.	1478.	1478.	1478.	1461.	1264.
	1264.	1264.	1264.	1270.	1203.	1203.	1203.	1200.	1123.	1123.
	1081.	1051.	1040.	1040.	1040.	1040.	1036.	1047.	1142.	1354.
	2133.	5138.	11291.	17252.	23081.	30459.	22880.	28749.	25700.	23413.
	25455.	24131.	22076.	20265.	16199.	15474.	13658.	11762.	9359.	15849.
	14847.	12513.								
1976	7559.	6664.	6139.	3621.	2720.	1937.	1475.	1173.	1011.	925.
	890.	855.	809.	778.	778.	750.	739.	741.	746.	746.
	746.	726.	687.	687.	687.	687.	644.	675.	839.	1402.
	3440.	9778.	9397.	9828.	11375.	23100.	24887.	17525.	16928.	16991.
	16954.	16164.	16576.	20226.	26317.	19534.	15004.	10554.	6302.	5160.
	5190.	5530.								
1977	3729.	3045.	2903.	2576.	2139.	1963.	1839.	1736.	2097.	1902.
	1722.	1583.	1462.	1442.	1400.	1326.	1294.	1257.	1219.	1197.
	1197.	1156.	1106.	1106.	1106.	1106.	1149.	1149.	1211.	1272.
	1314.	2267.	8205.	12588.	19531.	29414.	38957.	31928.	28489.	18502.
	20572.	21740.	18089.	19531.	18939.	17328.	17519.	11066.	8643.	12235.
	11736.	9877.								
1978	6782.	6882.	6046.	4510.	3355.	2862.	2578.	2392.	2223.	2108.
	2015.	1955.	1808.	1741.	1641.	1557.	1496.	1403.	1285.	1247.
	1247.	1212.	1258.	1258.	1258.	1275.	1251.	1251.	1251.	1322.
	3355.	11862.	16195.	10959.	11660.	13979.	19417.	16614.	20703.	19608.
	18215.	18416.	18064.	16600.	15674.	14572.	12160.	8756.	9287.	8372.
	6293.	4696.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 8.

TABLE 4 (Continued)

COMPUTED WEEKLY FLOWS<sup>1/</sup> FOR SUSITNA RIVER AT WATANA DAMSITE

1979	4195.	4701.	3796.	2849.	2736.	2368.	1774.	1558.	1502.	1483.
	1349.	1214.	1170.	1185.	1138.	1138.	1138.	1059.	1067.	1067.
	1067.	989.	1113.	1113.	1113.	1113.	1064.	1113.	1228.	1545.
	2451.	4633.	10811.	17246.	28470.	25470.	21379.	19302.	23880.	22832.
	22584.	27495.	28100.	21732.	20346.	16431.	13993.	12415.	7911.	7704.
	11339.	8978.								
1980	6672.	8469.	5948.	4395.	4084.	3698.	4120.	2949.	2811.	2297.
	2069.	1890.	1711.	1607.	1535.	1451.	1379.	1345.	1285.	1224.
	1176.	1175.	1177.	1177.	1177.	1177.	1122.	1122.	1179.	1604.
	3462.	8212.	11764.	10518.	16714.	25823.	20349.	26351.	22988.	26281.
	26663.	28137.	25275.	28150.	19051.	18006.	16331.	11948.	8723.	9329.
	15679.	10243.								
1981	8532.	7605.	6326.	5214.	3950.	3534.	2637.	2685.	2707.	2175.
	1678.	1578.	1516.	1448.	1684.	1961.	2118.	2142.	1911.	1594.
	1265.	1190.	1194.	1274.	1297.	1314.	1238.	1291.	1373.	1779.
	4737.	17566.	17640.	11625.	19077.	16465.	14949.	16085.	18788.	14090.
	33261.	32516.	29007.	31168.	30077.	38871.	30803.	20647.	15158.	12220.
	10197.	8299.								
1982	5901.	5560.	5713.	6627.	3364.	2845.	2782.	2339.	2057.	1971.
	1860.	1794.	1794.	1697.	1695.	1695.	1695.	1729.	1662.	1213.
	881.	767.	826.	826.	874.	1123.	956.	956.	1057.	1403.
	2641.	6274.	11618.	15603.	17916.	21638.	18090.	23883.	23173.	16689.
	20637.	20979.	23533.	20306.	13970.	12157.	10610.	11835.	10670.	13360.
	21010.	11582.								
1983	7782.	6119.	4982.	2921.	2384.	2252.	2137.	1997.	1944.	1850.
	1850.	1850.	1965.	2201.	1906.	1690.	1588.	1553.	1535.	1650.
	1685.	1583.	1534.	1437.	1389.	1280.	1185.	1208.	1411.	1907.
	3484.	8419.	14537.	12909.	18671.	23758.	17019.	20754.	20568.	22463.
	19352.	16152.	17431.	17935.	22829.	21149.	18683.	22728.	15528.	9607.
	8465.	9728.								

<sup>1/</sup> Weekly flows start from week 1 (Oct 1-7) to week 52 (Sept. 23-30), the flow for week 52 is the total flow between Sept. 23 and 30 divided by 8.

**TABLE 5**

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1951 1	4521.	5352.	0.	0.	5352.	2169.3	736.	6088.
2	4029.	5351.	0.	0.	5351.	2168.8	657.	6008.
3	3518.	5736.	0.	0.	5736.	2167.9	573.	6309.
4	2007.	6111.	0.	0.	6111.	2166.4	327.	6438.
5	1248.	6466.	0.	0.	6466.	2164.4	223.	6689.
6	1176.	6873.	0.	0.	6873.	2162.2	210.	7083.
7	1103.	7238.	0.	0.	7238.	2159.9	197.	7435.
8	1042.	7630.	0.	0.	7630.	2157.4	187.	7817.
9	994.	8020.	0.	0.	8020.	2154.7	177.	8197.
10	903.	8526.	0.	0.	8526.	2151.8	197.	8723.
11	903.	8770.	0.	0.	8770.	2148.6	197.	8967.
12	903.	8470.	0.	0.	8470.	2145.2	197.	8667.
13	903.	7904.	0.	0.	7904.	2142.1	197.	8101.
14	828.	7618.	0.	0.	7618.	2139.0	152.	7770.
15	812.	7616.	0.	0.	7616.	2136.0	148.	7764.
16	812.	7605.	0.	0.	7605.	2132.9	148.	7753.
17	812.	7618.	0.	0.	7618.	2129.8	148.	7766.
18	757.	7606.	0.	0.	7606.	2126.8	143.	7749.
19	667.	7634.	0.	0.	7634.	2123.6	153.	7787.
20	667.	7634.	0.	0.	7634.	2120.5	153.	7787.
21	667.	7556.	0.	0.	7556.	2117.4	153.	7709.
22	641.	7446.	0.	0.	7446.	2114.3	145.	7591.
23	618.	6983.	0.	0.	6983.	2111.5	122.	7105.
24	618.	6676.	0.	0.	6676.	2108.8	122.	6798.
25	618.	6356.	0.	0.	6356.	2106.2	122.	6478.
26	618.	6196.	0.	0.	6196.	2103.7	122.	6318.
27	542.	6071.	0.	0.	6071.	2101.2	232.	6303.
28	700.	5825.	0.	0.	5825.	2098.7	297.	6122.
29	1071.	5588.	0.	0.	5588.	2096.3	458.	6046.
30	1861.	5309.	0.	0.	5309.	2094.4	796.	6105.
31	4923.	5043.	0.	0.	5043.	2094.4	1234.	6277.
32	14338.	4984.	0.	0.	4984.	2099.3	2991.	7975.
33	15945.	5233.	0.	0.	5233.	2104.3	3326.	8559.
34	7915.	6868.	0.	0.	6868.	2104.7	1652.	8520.
35	13828.	7211.	0.	0.	7211.	2107.7	2843.	10054.
36	26696.	7072.	0.	0.	7072.	2116.5	2847.	9919.
37	19247.	7604.	0.	0.	7604.	2121.8	2053.	9657.
38	12238.	7447.	248.	0.	7695.	2123.8	1305.	9000.
39	17232.	7255.	0.	0.	7255.	2128.3	1839.	9094.
40	18464.	6926.	0.	0.	6926.	2133.5	2265.	9191.
41	21682.	6823.	0.	0.	6823.	2140.2	2661.	9484.
42	20740.	6716.	0.	0.	6716.	2146.5	2546.	9262.
43	19074.	6667.	0.	0.	6667.	2151.7	2340.	9007.
44	17891.	6879.	0.	0.	6879.	2155.9	3538.	10417.
45	14413.	6851.	0.	0.	6851.	2158.8	3201.	10052.
46	15312.	6134.	0.	0.	6134.	2162.3	3402.	9536.
47	14985.	6223.	0.	0.	6223.	2165.6	3329.	9552.
48	21048.	6458.	0.	0.	6458.	2171.2	4552.	11010.
49	24531.	6668.	0.	0.	6668.	2177.9	5526.	12194.
50	15237.	6845.	0.	0.	6845.	2181.1	3434.	10279.
51	15738.	7021.	0.	0.	7021.	2184.4	3548.	10569.
52	13323.	7769.	0.	4253.	12022.	2185.0	3002.	15024.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	CONE VALVE ENVIRON. RELEASE	EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1952 1	7559.	8028.	0.	0.	8028.	2184.8	1670.	9698.
2	5055.	8027.	0.	0.	8027.	2183.7	1116.	9143.
3	3674.	8604.	0.	0.	8604.	2181.8	812.	9416.
4	2855.	7639.	0.	0.	7639.	2180.0	631.	8270.
5	2793.	8083.	0.	0.	8083.	2178.0	707.	8790.
6	2609.	8591.	0.	0.	8591.	2175.7	595.	9186.
7	1928.	9048.	0.	0.	9048.	2173.0	441.	9489.
8	1908.	9537.	0.	0.	9537.	2170.1	435.	9972.
9	1761.	10025.	0.	0.	10025.	2167.0	425.	10450.
10	1489.	10657.	0.	0.	10657.	2163.5	411.	11068.
11	1489.	10963.	0.	0.	10963.	2159.9	411.	11374.
12	1489.	10587.	0.	0.	10587.	2156.4	411.	10998.
13	1489.	9880.	0.	0.	9880.	2153.3	411.	10291.
14	1329.	9522.	0.	0.	9522.	2150.1	314.	9836.
15	1299.	9520.	0.	0.	9520.	2146.5	301.	9821.
16	1299.	9506.	0.	0.	9506.	2142.8	301.	9807.
17	1299.	9522.	0.	0.	9522.	2139.1	301.	9823.
18	1069.	9508.	0.	0.	9508.	2135.3	274.	9782.
19	819.	9542.	0.	0.	9542.	2131.4	181.	9723.
20	819.	9542.	0.	0.	9542.	2127.4	181.	9723.
21	819.	9445.	0.	0.	9445.	2123.6	181.	9626.
22	784.	9307.	0.	0.	9307.	2119.7	165.	9472.
23	730.	8729.	0.	0.	8729.	2116.1	150.	8879.
24	730.	8345.	0.	0.	8345.	2112.7	150.	8495.
25	730.	7945.	0.	0.	7945.	2109.5	150.	8095.
26	730.	7745.	0.	0.	7745.	2106.3	150.	7895.
27	796.	7589.	0.	0.	7589.	2103.3	124.	7713.
28	796.	7281.	0.	0.	7281.	2100.3	124.	7405.
29	796.	6985.	0.	0.	6985.	2097.1	124.	7109.
30	796.	6636.	0.	0.	6636.	2094.0	124.	6760.
31	909.	6304.	0.	0.	6304.	2091.1	282.	6586.
32	1132.	6230.	0.	0.	6230.	2088.4	382.	6612.
33	1549.	6541.	0.	0.	6541.	2085.7	522.	7063.
34	3357.	6868.	0.	0.	6868.	2083.9	1129.	7997.
35	16784.	7211.	0.	0.	7211.	2089.0	5145.	12356.
36	19892.	7072.	0.	0.	7072.	2095.8	4922.	11994.
37	28174.	6862.	0.	0.	6862.	2106.0	6969.	13831.
38	30555.	6657.	0.	0.	6657.	2116.8	7559.	14216.
39	27039.	6408.	0.	0.	6408.	2126.1	6690.	13098.
40	23527.	6061.	0.	0.	6061.	2133.9	4102.	10163.
41	16714.	6085.	0.	0.	6085.	2138.7	2915.	9000.
42	21361.	5873.	0.	0.	5873.	2145.7	3725.	9598.
43	23150.	5838.	0.	0.	5838.	2152.9	4036.	9874.
44	30727.	6056.	0.	0.	6056.	2162.3	6516.	12572.
45	19888.	6785.	0.	0.	6785.	2167.3	5183.	11968.
46	15618.	6864.	0.	0.	6864.	2170.6	4068.	10932.
47	11855.	6956.	0.	0.	6956.	2172.4	3088.	10044.
48	13935.	7164.	0.	0.	7164.	2175.0	3394.	10558.
49	15561.	6668.	0.	0.	6668.	2178.4	3325.	9993.
50	10522.	6845.	0.	0.	6845.	2179.8	2249.	9094.
51	9086.	7021.	0.	0.	7021.	2180.6	1943.	8964.
52	10876.	6920.	0.	0.	6920.	2182.3	2324.	9244.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
			(CFS)	ENVIRON. RELEASE				
1953 1	8559.	6690.	0.	0.	6690.	2183.0	2584.	9274.
2	7982.	6689.	0.	0.	6689.	2183.5	2408.	9097.
3	5556.	7170.	0.	0.	7170.	2182.9	1677.	8847.
4	4049.	7639.	0.	0.	7639.	2181.5	1222.	8861.
5	3948.	8083.	0.	0.	8083.	2180.0	1052.	9135.
6	3377.	8591.	0.	0.	8591.	2178.0	880.	9471.
7	2164.	9048.	0.	0.	9048.	2175.4	565.	9613.
8	2652.	11253.	0.	0.	11253.	2172.1	691.	11944.
9	1913.	11698.	0.	0.	11698.	2168.4	516.	12214.
10	1250.	12285.	0.	0.	12285.	2164.2	450.	12735.
11	1250.	12595.	0.	0.	12595.	2159.9	450.	13045.
12	1250.	12266.	0.	0.	12266.	2155.7	450.	12716.
13	1250.	11633.	0.	0.	11633.	2151.7	450.	12083.
14	880.	11331.	0.	0.	11331.	2147.4	306.	11637.
15	820.	11355.	0.	0.	11355.	2142.6	280.	11635.
16	820.	11383.	0.	0.	11383.	2137.9	280.	11663.
17	820.	11412.	0.	0.	11412.	2133.1	280.	11692.
18	722.	11410.	0.	0.	11410.	2128.3	258.	11668.
19	598.	11450.	0.	0.	11450.	2123.4	222.	11672.
20	598.	11450.	0.	0.	11450.	2118.5	222.	11672.
21	598.	11334.	0.	0.	11334.	2113.7	222.	11556.
22	606.	11168.	0.	0.	11168.	2109.0	214.	11382.
23	678.	8729.	0.	0.	8729.	2105.3	142.	8871.
24	678.	8345.	0.	0.	8345.	2101.9	142.	8487.
25	678.	7945.	0.	0.	7945.	2098.4	142.	8087.
26	678.	7745.	0.	0.	7745.	2094.6	142.	7887.
27	486.	6071.	0.	0.	6071.	2091.6	444.	6515.
28	486.	5825.	0.	0.	5825.	2088.8	444.	6269.
29	785.	5588.	0.	0.	5588.	2086.2	719.	6307.
30	1308.	5309.	0.	0.	5309.	2084.1	1192.	6501.
31	10007.	5043.	0.	0.	5043.	2086.7	4122.	9165.
32	13666.	4984.	0.	0.	4984.	2091.4	3148.	8132.
33	12435.	5233.	0.	0.	5233.	2095.2	2865.	8098.
34	21448.	5494.	0.	0.	5494.	2103.1	4938.	10432.
35	16652.	5769.	0.	0.	5769.	2108.0	4091.	9860.
36	27821.	7072.	0.	0.	7072.	2117.4	7293.	14365.
37	21482.	7587.	0.	0.	7587.	2123.6	5632.	13219.
38	17488.	7408.	0.	0.	7408.	2128.1	4583.	11991.
39	20466.	7195.	0.	0.	7195.	2134.1	5363.	12558.
40	17377.	6863.	0.	0.	6863.	2138.8	2852.	9715.
41	15695.	6779.	0.	0.	6779.	2142.8	2576.	9355.
42	17070.	6696.	0.	0.	6696.	2147.5	2801.	9497.
43	17745.	6661.	0.	0.	6661.	2152.1	2912.	9573.
44	20931.	6871.	0.	0.	6871.	2157.4	4712.	11583.
45	17859.	6832.	0.	0.	6832.	2161.6	3998.	10830.
46	14312.	6917.	0.	0.	6917.	2164.4	3202.	10119.
47	14731.	6223.	0.	0.	6223.	2167.7	3298.	9521.
48	17519.	6458.	0.	0.	6458.	2171.9	3981.	10439.
49	14058.	6668.	0.	0.	6668.	2174.7	4728.	11396.
50	12806.	6845.	0.	0.	6845.	2176.9	4308.	11153.
51	10679.	7021.	0.	0.	7021.	2178.3	3592.	10613.
52	8137.	6920.	0.	0.	6920.	2178.9	2736.	9656.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
			ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1954 1	6126.	6690.	0.	0.	6690.	2178.7	1993.	8683.
2	5080.	6689.	0.	0.	6689.	2178.0	1653.	8342.
3	3728.	7170.	0.	0.	7170.	2176.7	1212.	8382.
4	2971.	7639.	0.	0.	7639.	2175.0	966.	8605.
5	1821.	8083.	0.	0.	8083.	2172.6	580.	8663.
6	1738.	8591.	0.	0.	8591.	2170.0	533.	9124.
7	1608.	9048.	0.	0.	9048.	2167.2	492.	9540.
8	1497.	9537.	0.	0.	9537.	2164.1	460.	9997.
9	1361.	10025.	0.	0.	10025.	2160.8	425.	10450.
10	1174.	10657.	0.	0.	10657.	2157.2	326.	10983.
11	1174.	10963.	0.	0.	10963.	2153.5	326.	11289.
12	1174.	10587.	0.	0.	10587.	2149.9	326.	10913.
13	1174.	9880.	0.	0.	9880.	2146.0	326.	10206.
14	1120.	7618.	0.	0.	7618.	2143.1	209.	7827.
15	1099.	7616.	0.	0.	7616.	2140.1	201.	7817.
16	1099.	7605.	0.	0.	7605.	2137.2	201.	7806.
17	1099.	7618.	0.	0.	7618.	2134.3	201.	7819.
18	982.	7606.	0.	0.	7606.	2131.3	189.	7795.
19	794.	7634.	0.	0.	7634.	2128.2	206.	7840.
20	794.	7634.	0.	0.	7634.	2125.1	206.	7840.
21	794.	7556.	0.	0.	7556.	2122.1	206.	7762.
22	716.	7446.	0.	0.	7446.	2119.1	190.	7636.
23	630.	6983.	0.	0.	6983.	2116.2	150.	7133.
24	630.	6676.	0.	0.	6676.	2113.5	150.	6826.
25	630.	6356.	0.	0.	6356.	2110.9	150.	6506.
26	630.	6196.	0.	0.	6196.	2108.4	150.	6346.
27	506.	7589.	0.	0.	7589.	2105.2	364.	7953.
28	506.	7281.	0.	0.	7281.	2102.2	364.	7645.
29	870.	6985.	0.	0.	6985.	2099.3	626.	7611.
30	930.	6636.	0.	0.	6636.	2096.3	670.	7306.
31	4308.	6304.	0.	0.	6304.	2095.2	2435.	8739.
32	8521.	6230.	0.	0.	6230.	2096.4	3765.	9995.
33	13802.	6541.	0.	0.	6541.	2100.3	6098.	12639.
34	15823.	6868.	0.	0.	6868.	2104.3	6991.	13859.
35	14807.	7211.	0.	0.	7211.	2107.7	6764.	13975.
36	19799.	7072.	0.	0.	7072.	2113.4	5658.	12730.
37	19022.	6862.	0.	0.	6862.	2118.9	5435.	12297.
38	18245.	6657.	0.	0.	6657.	2124.1	5212.	11869.
39	22178.	6408.	0.	0.	6408.	2131.2	6336.	12744.
40	19307.	6891.	0.	0.	6891.	2136.8	5179.	12070.
41	15396.	6802.	0.	0.	6802.	2140.7	4133.	10935.
42	14981.	6725.	0.	0.	6725.	2144.4	4019.	10744.
43	14981.	6693.	0.	0.	6693.	2148.1	4019.	10712.
44	24614.	6900.	0.	0.	6900.	2155.1	6529.	13429.
45	20049.	6849.	0.	0.	6849.	2160.1	3951.	10800.
46	20049.	6920.	0.	0.	6920.	2165.1	3951.	10871.
47	20049.	6992.	0.	0.	6992.	2170.1	3951.	10943.
48	18930.	6458.	0.	0.	6458.	2174.8	4070.	10528.
49	11256.	6668.	0.	0.	6668.	2176.6	5030.	11698.
50	9676.	6845.	0.	0.	6845.	2177.6	4324.	11169.
51	9025.	7021.	0.	0.	7021.	2178.4	4032.	11053.
52	5793.	6920.	0.	0.	6920.	2177.9	2590.	9510.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1955 1	4746.	6690.	0.	0.	6690.	2177.2	1754.	8444.
2	4461.	6689.	0.	0.	6689.	2176.3	1648.	8337.
3	3359.	7170.	0.	0.	7170.	2174.9	1241.	8411.
4	3359.	7639.	0.	0.	7639.	2173.3	1241.	8880.
5	2716.	8083.	0.	0.	8083.	2171.2	970.	9053.
6	2156.	8591.	0.	0.	8591.	2168.8	844.	9435.
7	2032.	9048.	0.	0.	9048.	2166.1	797.	9845.
8	1796.	9537.	0.	0.	9537.	2163.2	704.	10241.
9	1756.	10025.	0.	0.	10025.	2160.0	658.	10683.
10	1657.	10657.	0.	0.	10657.	2156.6	543.	11200.
11	1624.	10963.	0.	0.	10963.	2153.1	533.	11496.
12	1431.	10587.	0.	0.	10587.	2149.5	469.	11056.
13	1431.	7904.	0.	0.	7904.	2146.6	469.	8373.
14	1546.	7618.	0.	0.	7618.	2143.9	440.	8058.
15	1561.	7616.	0.	0.	7616.	2141.1	439.	8055.
16	1338.	7605.	0.	0.	7605.	2138.3	376.	7981.
17	1249.	7618.	0.	0.	7618.	2135.5	351.	7969.
18	1179.	7606.	0.	0.	7606.	2132.6	335.	7941.
19	1052.	7634.	0.	0.	7634.	2129.6	348.	7982.
20	1052.	9542.	0.	0.	9542.	2125.8	348.	9890.
21	1052.	9445.	0.	0.	9445.	2122.0	348.	9793.
22	949.	9307.	0.	0.	9307.	2118.2	322.	9629.
23	879.	8729.	0.	0.	8729.	2114.7	221.	8950.
24	879.	8345.	0.	0.	8345.	2111.4	221.	8566.
25	879.	7945.	0.	0.	7945.	2108.2	221.	8166.
26	879.	7745.	0.	0.	7745.	2105.1	221.	7966.
27	828.	7589.	0.	0.	7589.	2102.1	372.	7961.
28	828.	7281.	0.	0.	7281.	2099.0	372.	7653.
29	828.	6985.	0.	0.	6985.	2095.7	372.	7357.
30	828.	6636.	0.	0.	6636.	2092.6	372.	7008.
31	2519.	6304.	0.	0.	6304.	2090.6	1038.	7342.
32	3321.	6230.	0.	0.	6230.	2089.1	1179.	7409.
33	3882.	6541.	0.	0.	6541.	2087.6	1375.	7916.
34	11626.	6868.	0.	0.	6868.	2090.2	4117.	10985.
35	12771.	7211.	0.	0.	7211.	2093.1	4658.	11869.
36	17007.	7072.	0.	0.	7072.	2098.4	3322.	10394.
37	27727.	6862.	0.	0.	6862.	2108.1	5416.	12278.
38	30081.	6657.	0.	0.	6657.	2118.6	5876.	12533.
39	28168.	6408.	0.	0.	6408.	2128.4	5503.	11911.
40	29660.	6061.	0.	0.	6061.	2139.0	4526.	10587.
41	24776.	6755.	0.	0.	6755.	2147.1	3781.	10536.
42	19124.	6656.	0.	0.	6656.	2152.3	2919.	9575.
43	22869.	6612.	0.	0.	6612.	2158.5	3488.	10100.
44	20805.	6816.	376.	0.	7191.	2163.6	1809.	9000.
45	19270.	6777.	593.	0.	7370.	2168.2	1630.	9000.
46	19771.	6851.	477.	0.	7328.	2172.9	1672.	9000.
47	24039.	6915.	53.	0.	6968.	2179.4	2032.	9000.
48	34146.	7118.	0.	12187.	19305.	2185.0	3097.	22402.
49	17921.	7310.	0.	10611.	17921.	2185.0	1750.	19671.
50	13691.	7472.	0.	6219.	13691.	2185.0	1338.	15029.
51	11128.	7638.	0.	3490.	11128.	2185.0	1086.	12214.
52	8763.	7757.	0.	1006.	8763.	2185.0	856.	9619.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1956 1	6059.	8028.	0.	0.	8028.	2184.3	1177.	9205.
2	4461.	8027.	0.	0.	8027.	2182.9	866.	8893.
3	3633.	8604.	0.	0.	8604.	2181.0	706.	9310.
4	3129.	7639.	0.	0.	7639.	2179.3	608.	8247.
5	2062.	8083.	0.	0.	8083.	2177.0	424.	8507.
6	1721.	8591.	0.	0.	8591.	2174.4	379.	8970.
7	1581.	9048.	0.	0.	9048.	2171.6	348.	9396.
8	1393.	9537.	0.	0.	9537.	2168.5	307.	9844.
9	1306.	10025.	0.	0.	10025.	2165.2	280.	10305.
10	1027.	10657.	0.	0.	10657.	2161.5	273.	10930.
11	1027.	10963.	0.	0.	10963.	2157.7	273.	11236.
12	1027.	10587.	0.	0.	10587.	2154.1	273.	10860.
13	1027.	9880.	0.	0.	9880.	2150.7	273.	10153.
14	848.	9522.	0.	0.	9522.	2147.0	178.	9700.
15	810.	9520.	0.	0.	9520.	2143.0	170.	9690.
16	810.	9506.	0.	0.	9506.	2139.1	170.	9676.
17	810.	9522.	0.	0.	9522.	2135.2	170.	9692.
18	809.	9508.	0.	0.	9508.	2131.3	167.	9675.
19	750.	9542.	0.	0.	9542.	2127.4	220.	9762.
20	750.	9542.	0.	0.	9542.	2123.4	220.	9762.
21	750.	9445.	0.	0.	9445.	2119.5	220.	9665.
22	739.	9307.	0.	0.	9307.	2115.6	218.	9525.
23	689.	8729.	0.	0.	8729.	2112.0	251.	8980.
24	689.	8345.	0.	0.	8345.	2108.6	251.	8596.
25	689.	7945.	0.	0.	7945.	2105.3	251.	8196.
26	689.	7745.	0.	0.	7745.	2102.1	251.	7996.
27	641.	7589.	0.	0.	7589.	2098.8	309.	7898.
28	641.	7281.	0.	0.	7281.	2095.3	309.	7590.
29	641.	6985.	0.	0.	6985.	2091.9	309.	7294.
30	641.	6636.	0.	0.	6636.	2088.7	309.	6945.
31	1798.	6304.	0.	0.	6304.	2086.3	716.	7020.
32	8483.	6230.	0.	0.	6230.	2087.5	2917.	9147.
33	12106.	6541.	0.	0.	6541.	2090.5	4165.	10706.
34	24085.	6868.	0.	0.	6868.	2099.7	8286.	15154.
35	15966.	7211.	0.	0.	7211.	2103.6	5720.	12931.
36	27294.	7072.	0.	0.	7072.	2112.7	6163.	13235.
37	35522.	6862.	0.	0.	6862.	2125.6	8021.	14883.
38	26081.	7360.	0.	0.	7360.	2134.1	5890.	13250.
39	22994.	7118.	0.	0.	7118.	2141.2	5192.	12310.
40	24335.	6767.	0.	0.	6767.	2149.1	4722.	11489.
41	26536.	6662.	0.	0.	6662.	2156.8	5150.	11812.
42	26799.	6560.	0.	0.	6560.	2164.5	5201.	11761.
43	26153.	6501.	0.	0.	6501.	2171.9	5076.	11577.
44	24666.	6688.	0.	0.	6688.	2178.8	6763.	13451.
45	22447.	6638.	0.	0.	6638.	2184.8	6324.	12962.
46	20285.	6756.	0.	12923.	19679.	2185.0	5715.	25394.
47	16173.	6861.	0.	9312.	16173.	2185.0	4556.	20729.
48	13792.	7080.	0.	6712.	13792.	2185.0	3922.	17714.
49	11446.	7295.	0.	4151.	11446.	2185.0	4554.	16000.
50	16046.	7478.	0.	8568.	16046.	2185.0	6383.	22429.
51	15637.	7649.	0.	7988.	15637.	2185.0	6220.	21857.
52	10015.	7762.	0.	2254.	10015.	2185.0	3985.	14000.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1957 1	5279.	8028.	0.	0.	8028.	2184.0	1921.	9949.
2	5279.	8027.	0.	0.	8027.	2182.9	1921.	9948.
3	3583.	8604.	0.	0.	8604.	2181.0	1303.	9907.
4	3300.	7639.	0.	0.	7639.	2179.4	1200.	8839.
5	2789.	8083.	0.	0.	8083.	2177.3	968.	9051.
6	2342.	8591.	0.	0.	8591.	2175.0	858.	9449.
7	2247.	9048.	0.	0.	9048.	2172.4	824.	9872.
8	2123.	9537.	0.	0.	9537.	2169.6	777.	10314.
9	2035.	10025.	0.	0.	10025.	2166.5	722.	10747.
10	1908.	10657.	0.	0.	10657.	2163.2	492.	11149.
11	1852.	10963.	0.	0.	10963.	2159.8	477.	11440.
12	1509.	10587.	0.	0.	10587.	2156.3	391.	10978.
13	1509.	9880.	0.	0.	9880.	2153.1	391.	10271.
14	1399.	9522.	0.	0.	9522.	2150.0	330.	9852.
15	1378.	9520.	0.	0.	9520.	2146.4	322.	9842.
16	1378.	9506.	0.	0.	9506.	2142.7	322.	9828.
17	1378.	9522.	0.	0.	9522.	2139.1	322.	9844.
18	1310.	9508.	0.	0.	9508.	2135.4	304.	9812.
19	1193.	9542.	0.	0.	9542.	2131.6	307.	9849.
20	1193.	9542.	0.	0.	9542.	2127.9	307.	9849.
21	1193.	9445.	0.	0.	9445.	2124.2	307.	9752.
22	1079.	9307.	0.	0.	9307.	2120.5	292.	9599.
23	920.	8729.	0.	0.	8729.	2116.9	280.	9009.
24	920.	8345.	0.	0.	8345.	2113.6	280.	8625.
25	920.	7945.	0.	0.	7945.	2110.4	280.	8225.
26	920.	7745.	0.	0.	7745.	2107.4	280.	8025.
27	837.	7589.	0.	0.	7589.	2104.3	363.	7952.
28	837.	7281.	0.	0.	7281.	2101.4	363.	7644.
29	837.	6985.	0.	0.	6985.	2098.4	363.	7348.
30	837.	6636.	0.	0.	6636.	2095.3	363.	6999.
31	2452.	6304.	0.	0.	6304.	2093.3	962.	7266.
32	4269.	6230.	0.	0.	6230.	2092.2	1488.	7718.
33	6969.	6541.	0.	0.	6541.	2092.5	2431.	8972.
34	15611.	6868.	0.	0.	6868.	2097.1	5446.	12314.
35	23050.	7211.	0.	0.	7211.	2104.7	7864.	15075.
36	31747.	7072.	0.	0.	7072.	2115.8	5696.	12768.
37	28053.	6862.	0.	0.	6862.	2125.3	5033.	11895.
38	24892.	7367.	0.	0.	7367.	2133.2	4465.	11832.
39	17043.	7144.	0.	0.	7144.	2137.7	3057.	10201.
40	19864.	6817.	0.	0.	6817.	2143.5	3350.	10167.
41	18252.	6723.	0.	0.	6723.	2148.7	3077.	9800.
42	20463.	6640.	0.	0.	6640.	2154.2	3451.	10091.
43	22198.	6596.	0.	0.	6596.	2160.1	3745.	10341.
44	17659.	6804.	0.	0.	6804.	2164.2	3298.	10102.
45	17664.	6771.	0.	0.	6771.	2168.4	3279.	10050.
46	17568.	6851.	0.	0.	6851.	2172.4	3261.	10112.
47	16111.	6932.	0.	0.	6932.	2175.9	2989.	9921.
48	17804.	7126.	0.	0.	7126.	2180.0	3339.	10465.
49	14143.	7317.	0.	0.	7317.	2182.6	4771.	12088.
50	15435.	7471.	0.	1546.	9018.	2185.0	5208.	14226.
51	15008.	7647.	0.	7361.	15008.	2185.0	5063.	20071.
52	14415.	7772.	0.	6643.	14415.	2185.0	4860.	19275.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1958 1	7628.	8028.	0.	0.	8028.	2184.8	2705.	10733.
2	6544.	8027.	0.	0.	8027.	2184.3	2320.	10347.
3	5337.	8604.	0.	0.	8604.	2183.0	1893.	10497.
4	5503.	9167.	0.	0.	9167.	2181.7	1951.	11118.
5	3997.	9700.	0.	0.	9700.	2179.5	1432.	11132.
6	3287.	10309.	0.	0.	10309.	2176.8	1234.	11543.
7	2815.	10823.	0.	0.	10823.	2173.8	1055.	11878.
8	2314.	11278.	0.	0.	11278.	2170.4	867.	12145.
9	2637.	11722.	0.	0.	11722.	2166.9	949.	12671.
10	2991.	12303.	0.	0.	12303.	2163.4	1323.	13626.
11	2551.	12604.	0.	0.	12604.	2159.6	1129.	13733.
12	1902.	12269.	0.	0.	12269.	2155.6	842.	13111.
13	1544.	11633.	0.	0.	11633.	2151.8	685.	12318.
14	1839.	11327.	0.	0.	11327.	2147.9	590.	11917.
15	1614.	11343.	0.	0.	11343.	2143.5	515.	11858.
16	1408.	11365.	0.	0.	11365.	2139.0	449.	11814.
17	1332.	11389.	0.	0.	11389.	2134.5	425.	11814.
18	1101.	11406.	0.	0.	11406.	2129.8	356.	11762.
19	1152.	11450.	0.	0.	11450.	2125.2	291.	11741.
20	1038.	11450.	0.	0.	11450.	2120.5	262.	11712.
21	959.	11334.	0.	0.	11334.	2115.9	241.	11575.
22	959.	11168.	0.	0.	11168.	2111.3	241.	11409.
23	1024.	10475.	0.	0.	10475.	2107.0	176.	10651.
24	1000.	10014.	0.	0.	10014.	2103.0	171.	10185.
25	939.	9534.	0.	0.	9534.	2098.9	161.	9695.
26	939.	7745.	0.	0.	7745.	2095.3	161.	7906.
27	950.	7589.	0.	0.	7589.	2091.8	250.	7839.
28	1063.	7281.	0.	0.	7281.	2088.5	280.	7561.
29	1153.	6985.	0.	0.	6985.	2085.4	304.	7289.
30	1398.	6636.	0.	0.	6636.	2082.6	368.	7004.
31	3001.	6304.	0.	0.	6304.	2080.8	989.	7293.
32	5917.	6230.	0.	0.	6230.	2080.6	1966.	8196.
33	8267.	6541.	0.	0.	6541.	2081.6	2747.	9288.
34	15742.	6868.	0.	0.	6868.	2086.3	5229.	12097.
35	16842.	7211.	0.	0.	7211.	2091.4	5215.	12426.
36	24642.	7072.	0.	0.	7072.	2100.7	3358.	10430.
37	24642.	6862.	0.	0.	6862.	2108.7	3358.	10220.
38	21247.	6657.	0.	0.	6657.	2115.2	2896.	9553.
39	19363.	6408.	0.	0.	6408.	2121.0	2637.	9045.
40	18442.	6061.	0.	0.	6061.	2126.6	3558.	9619.
41	18442.	5954.	0.	0.	5954.	2132.2	3558.	9512.
42	18442.	5873.	0.	0.	5873.	2137.9	3558.	9431.
43	18082.	5838.	0.	0.	5838.	2143.4	3489.	9327.
44	32829.	6056.	0.	0.	6056.	2154.6	5857.	11913.
45	23946.	6033.	0.	0.	6033.	2161.4	3583.	9616.
46	17783.	6340.	0.	0.	6340.	2165.7	2660.	9000.
47	14415.	6844.	0.	0.	6844.	2168.6	2156.	9000.
48	9969.	7208.	204.	0.	7412.	2169.6	1588.	9000.
49	6605.	6668.	0.	0.	6668.	2169.6	1895.	8563.
50	6605.	6845.	0.	0.	6845.	2169.5	1895.	8740.
51	5128.	7021.	0.	0.	7021.	2168.7	1472.	8493.
52	5129.	5536.	0.	0.	5536.	2168.6	1471.	7007.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1959 1	4604.	5352.	0.	0.	5352.	2168.3	1387.	6739.
2	4050.	5351.	0.	0.	5351.	2167.8	1221.	6572.
3	3875.	5736.	0.	0.	5736.	2167.1	1168.	6904.
4	2689.	6111.	0.	0.	6111.	2165.8	811.	6922.
5	2392.	6466.	0.	0.	6466.	2164.2	594.	7060.
6	2068.	6873.	0.	0.	6873.	2162.4	532.	7405.
7	1760.	7238.	0.	0.	7238.	2160.3	454.	7692.
8	1352.	7630.	0.	0.	7630.	2157.9	348.	7978.
9	1215.	8020.	0.	0.	8020.	2155.4	314.	8334.
10	797.	8526.	0.	0.	8526.	2152.4	303.	8829.
11	879.	8770.	0.	0.	8770.	2149.3	335.	9105.
12	1375.	8470.	0.	0.	8470.	2146.1	525.	8995.
13	1375.	7904.	0.	0.	7904.	2143.2	525.	8429.
14	1150.	7618.	0.	0.	7618.	2140.3	407.	8025.
15	1109.	7616.	0.	0.	7616.	2137.4	391.	8007.
16	1056.	7605.	0.	0.	7605.	2134.4	373.	7978.
17	1035.	7618.	0.	0.	7618.	2131.5	365.	7983.
18	1051.	7606.	0.	0.	7606.	2128.5	349.	7955.
19	1027.	7634.	0.	0.	7634.	2125.5	373.	8007.
20	984.	7634.	0.	0.	7634.	2122.5	359.	7993.
21	879.	7556.	0.	0.	7556.	2119.5	321.	7877.
22	797.	7446.	0.	0.	7446.	2116.6	309.	7755.
23	683.	6983.	0.	0.	6983.	2113.7	297.	7280.
24	683.	6676.	0.	0.	6676.	2111.0	297.	6973.
25	683.	6356.	0.	0.	6356.	2108.5	297.	6653.
26	683.	6196.	0.	0.	6196.	2106.0	297.	6493.
27	666.	6071.	0.	0.	6071.	2103.6	334.	6405.
28	666.	5825.	0.	0.	5825.	2101.2	334.	6159.
29	952.	5588.	0.	0.	5588.	2099.0	477.	6065.
30	999.	5309.	0.	0.	5309.	2096.7	501.	5810.
31	1801.	5043.	0.	0.	5043.	2095.0	1056.	6099.
32	2951.	4984.	0.	0.	4984.	2093.9	1592.	6576.
33	12604.	5233.	0.	0.	5233.	2097.8	6796.	12029.
34	17856.	5494.	0.	0.	5494.	2103.7	9630.	15124.
35	14298.	5769.	0.	0.	5769.	2107.6	8031.	13800.
36	20496.	7072.	0.	0.	7072.	2113.6	5533.	12605.
37	15311.	6862.	0.	0.	6862.	2117.4	4132.	10994.
38	18247.	6657.	0.	0.	6657.	2122.6	4924.	11581.
39	20418.	6408.	0.	0.	6408.	2128.9	5511.	11919.
40	21688.	6061.	0.	0.	6061.	2135.9	4712.	10773.
41	20819.	6798.	0.	0.	6798.	2142.2	4524.	11322.
42	22556.	6690.	0.	0.	6690.	2149.4	4901.	11591.
43	17816.	6645.	0.	0.	6645.	2153.7	3870.	10515.
44	18373.	6860.	0.	0.	6860.	2158.1	5513.	12373.
45	14392.	6832.	0.	0.	6832.	2161.0	4237.	11069.
46	18474.	6916.	0.	0.	6916.	2165.4	5440.	12356.
47	34121.	6965.	0.	0.	6965.	2175.7	10050.	17015.
48	33290.	7109.	0.	1611.	8720.	2185.0	9881.	18601.
49	20953.	7317.	0.	13636.	20953.	2185.0	7747.	28700.
50	10824.	7465.	0.	3359.	10824.	2185.0	4005.	14829.
51	8131.	7629.	0.	503.	8131.	2185.0	3006.	11137.
52	7669.	7754.	0.	0.	7754.	2185.0	2837.	10591.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	EXCESS RELEASE (CFS)				
1960 1	8534.	8216.	0.	222.	8438.	2185.0	2180.	10618.
2	5896.	8027.	0.	0.	8027.	2184.2	1504.	9531.
3	3243.	8604.	0.	0.	8604.	2182.2	828.	9432.
4	4051.	9167.	0.	0.	9167.	2180.2	1035.	10202.
5	2692.	8083.	0.	0.	8083.	2178.2	794.	8877.
6	2292.	8591.	0.	0.	8591.	2175.8	708.	9299.
7	2194.	9048.	0.	0.	9048.	2173.2	677.	9725.
8	2064.	9537.	0.	0.	9537.	2170.3	636.	10173.
9	1962.	10025.	0.	0.	10025.	2167.3	595.	10620.
10	1656.	10657.	0.	0.	10657.	2163.8	544.	11201.
11	1656.	10963.	0.	0.	10963.	2160.3	544.	11507.
12	1656.	10587.	0.	0.	10587.	2156.9	544.	11131.
13	1656.	9880.	0.	0.	9880.	2153.8	544.	10424.
14	1541.	9522.	0.	0.	9522.	2150.8	488.	10010.
15	1523.	9520.	0.	0.	9520.	2147.3	477.	9997.
16	1360.	9506.	0.	0.	9506.	2143.6	426.	9932.
17	1295.	9522.	0.	0.	9522.	2139.9	405.	9927.
18	1227.	9508.	0.	0.	9508.	2136.2	387.	9895.
19	1175.	9542.	0.	0.	9542.	2132.5	325.	9867.
20	1152.	9542.	0.	0.	9542.	2128.7	319.	9861.
21	1097.	9445.	0.	0.	9445.	2124.9	303.	9748.
22	1062.	9307.	0.	0.	9307.	2121.2	295.	9602.
23	1041.	8729.	0.	0.	8729.	2117.8	259.	8988.
24	996.	8345.	0.	0.	8345.	2114.5	247.	8592.
25	882.	7945.	0.	0.	7945.	2111.3	218.	8163.
26	882.	7745.	0.	0.	7745.	2108.2	218.	7963.
27	694.	7589.	0.	0.	7589.	2105.1	406.	7995.
28	694.	7281.	0.	0.	7281.	2102.1	406.	7687.
29	910.	6985.	0.	0.	6985.	2099.3	533.	7518.
30	945.	6636.	0.	0.	6636.	2096.3	555.	7191.
31	4703.	6304.	0.	0.	6304.	2095.4	1154.	7458.
32	6668.	6230.	0.	0.	6230.	2095.6	932.	7162.
33	12886.	6541.	0.	0.	6541.	2099.0	1800.	8341.
34	20055.	6868.	0.	0.	6868.	2105.1	2802.	9670.
35	20716.	7211.	0.	0.	7211.	2111.2	3570.	10781.
36	11838.	7072.	0.	0.	7072.	2113.3	2519.	9591.
37	12275.	6862.	0.	0.	6862.	2115.8	2611.	9473.
38	12710.	6657.	0.	0.	6657.	2118.5	2704.	9361.
39	13971.	6408.	0.	0.	6408.	2121.9	2972.	9380.
40	19936.	6061.	0.	0.	6061.	2128.1	2993.	9054.
41	14780.	6780.	0.	0.	6780.	2131.7	2220.	9000.
42	17003.	6446.	0.	0.	6446.	2136.5	2554.	9000.
43	23312.	5838.	0.	0.	5838.	2144.3	3502.	9340.
44	26487.	6056.	0.	0.	6056.	2153.0	5556.	11612.
45	20467.	6033.	0.	0.	6033.	2158.4	4962.	10995.
46	18086.	6134.	0.	0.	6134.	2163.0	4385.	10519.
47	17477.	6223.	0.	0.	6223.	2167.3	4237.	10460.
48	16811.	6458.	0.	0.	6458.	2171.2	4046.	10504.
49	14281.	6668.	0.	0.	6668.	2174.1	4033.	10701.
50	22570.	6845.	0.	0.	6845.	2180.1	6373.	13218.
51	15996.	7021.	0.	0.	7021.	2183.5	4518.	11539.
52	11980.	7763.	0.	689.	8452.	2185.0	3382.	11834.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1961 1	9778.	8221.	0.	1558.	9778.	2185.0	2751.	12529.
2	7102.	8027.	0.	0.	8027.	2184.6	1998.	10025.
3	5050.	8604.	0.	0.	8604.	2183.3	1421.	10025.
4	3678.	9167.	0.	0.	9167.	2181.2	1036.	10203.
5	2753.	8083.	0.	0.	8083.	2179.2	833.	8916.
6	2516.	8591.	0.	0.	8591.	2176.9	784.	9375.
7	2319.	9048.	0.	0.	9048.	2174.3	724.	9772.
8	2058.	9537.	0.	0.	9537.	2171.5	642.	10179.
9	2118.	10025.	0.	0.	10025.	2168.5	639.	10664.
10	2126.	12280.	0.	0.	12280.	2164.6	774.	13054.
11	2085.	12585.	0.	0.	12585.	2160.6	758.	13343.
12	1833.	12252.	0.	0.	12252.	2156.7	667.	12919.
13	1833.	11616.	0.	0.	11616.	2153.0	667.	12283.
14	1776.	11308.	0.	0.	11308.	2149.2	638.	11946.
15	1773.	11319.	0.	0.	11319.	2144.9	627.	11946.
16	1825.	11337.	0.	0.	11337.	2140.6	646.	11983.
17	1846.	11356.	0.	0.	11356.	2136.4	654.	12010.
18	1601.	11369.	0.	0.	11369.	2132.0	599.	11968.
19	1317.	11440.	0.	0.	11440.	2127.4	483.	11923.
20	1297.	11435.	0.	0.	11435.	2122.9	474.	11909.
21	1246.	11334.	0.	0.	11334.	2118.3	454.	11788.
22	1181.	11168.	0.	0.	11168.	2113.8	433.	11601.
23	1097.	10475.	0.	0.	10475.	2109.6	403.	10878.
24	1222.	10014.	0.	0.	10014.	2105.7	449.	10463.
25	1535.	9534.	0.	0.	9534.	2102.1	565.	10099.
26	1535.	9294.	0.	0.	9294.	2098.3	565.	9859.
27	1617.	9107.	0.	0.	9107.	2094.3	883.	9990.
28	1617.	8737.	0.	0.	8737.	2090.5	883.	9620.
29	1783.	8382.	0.	0.	8382.	2087.0	974.	9356.
30	1811.	7963.	0.	0.	7963.	2083.7	989.	8952.
31	5580.	7565.	0.	0.	7565.	2082.7	1649.	9214.
32	10306.	6230.	0.	0.	6230.	2084.9	2408.	8638.
33	17834.	6541.	0.	0.	6541.	2090.9	4166.	10707.
34	16989.	6868.	0.	0.	6868.	2096.3	3968.	10836.
35	15795.	7211.	0.	0.	7211.	2100.7	4019.	11230.
36	14578.	7072.	0.	0.	7072.	2104.1	4393.	11465.
37	23810.	6862.	0.	0.	6862.	2111.7	7176.	14038.
38	29749.	6657.	0.	0.	6657.	2122.1	8965.	15622.
39	24996.	6408.	0.	0.	6408.	2130.4	7533.	13941.
40	18341.	6902.	0.	0.	6902.	2135.6	4659.	11561.
41	19253.	6806.	0.	0.	6806.	2141.2	4890.	11696.
42	19937.	6707.	0.	0.	6707.	2147.1	5063.	11770.
43	20655.	6659.	0.	0.	6659.	2152.9	5245.	11904.
44	22581.	6860.	0.	0.	6860.	2158.9	3062.	9922.
45	23083.	6810.	0.	0.	6810.	2165.1	2917.	9727.
46	19710.	6877.	0.	0.	6877.	2169.9	2490.	9367.
47	18708.	6950.	0.	0.	6950.	2174.4	2363.	9313.
48	13842.	7147.	38.	0.	7185.	2176.9	1815.	9000.
49	9309.	7354.	0.	0.	7354.	2177.7	3120.	10474.
50	10560.	7519.	0.	0.	7519.	2178.8	3540.	11059.
51	10059.	7021.	0.	0.	7021.	2180.0	3370.	10391.
52	10131.	6920.	0.	0.	6920.	2181.4	3394.	10314.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE  (CFS)	CONC ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1962 1	8304.	6690.	0.	0.	6690.	2182.0	2125.	8815.
2	3663.	6689.	0.	0.	6689.	2180.8	937.	7626.
3	3663.	7170.	0.	0.	7170.	2179.5	937.	8107.
4	3663.	7639.	0.	0.	7639.	2178.0	937.	8576.
5	2910.	8083.	0.	0.	8083.	2176.0	604.	8687.
6	2187.	8591.	0.	0.	8591.	2173.6	513.	9104.
7	2187.	9048.	0.	0.	9048.	2171.0	513.	9561.
8	2187.	9537.	0.	0.	9537.	2168.2	513.	10050.
9	2067.	10025.	0.	0.	10025.	2165.2	462.	10487.
10	1742.	10657.	0.	0.	10657.	2161.8	358.	11015.
11	1742.	10963.	0.	0.	10963.	2158.3	358.	11321.
12	1742.	10587.	0.	0.	10587.	2154.9	358.	10945.
13	1742.	9880.	0.	0.	9880.	2151.8	358.	10238.
14	1645.	9522.	0.	0.	9522.	2148.6	284.	9806.
15	1626.	9520.	0.	0.	9520.	2145.1	274.	9794.
16	1626.	9506.	0.	0.	9506.	2141.5	274.	9780.
17	1626.	9522.	0.	0.	9522.	2138.0	274.	9796.
18	1462.	9508.	0.	0.	9508.	2134.4	267.	9775.
19	1237.	9542.	0.	0.	9542.	2130.6	263.	9805.
20	1237.	9542.	0.	0.	9542.	2126.9	263.	9805.
21	1237.	9445.	0.	0.	9445.	2123.2	263.	9708.
22	1207.	9307.	0.	0.	9307.	2119.6	250.	9557.
23	1174.	8729.	0.	0.	8729.	2116.2	226.	8955.
24	1174.	8345.	0.	0.	8345.	2112.9	226.	8571.
25	1174.	7945.	0.	0.	7945.	2109.9	226.	8171.
26	1174.	7745.	0.	0.	7745.	2106.9	226.	7971.
27	1335.	7589.	0.	0.	7589.	2104.1	365.	7954.
28	1335.	7281.	0.	0.	7281.	2101.4	365.	7646.
29	1335.	6985.	0.	0.	6985.	2098.7	365.	7350.
30	1335.	6636.	0.	0.	6636.	2095.9	365.	7001.
31	3165.	6304.	0.	0.	6304.	2094.2	535.	6839.
32	3896.	6230.	0.	0.	6230.	2093.0	604.	6834.
33	10571.	6541.	0.	0.	6541.	2095.1	1643.	8184.
34	15580.	6868.	0.	0.	6868.	2099.8	2420.	9288.
35	25042.	7211.	0.	0.	7211.	2107.8	3429.	10640.
36	25502.	7072.	0.	0.	7072.	2116.1	4784.	11856.
37	49464.	7523.	0.	0.	7523.	2135.0	9279.	16802.
38	42296.	7206.	0.	0.	7206.	2150.6	7933.	15139.
39	29941.	6940.	0.	0.	6940.	2159.4	5616.	12556.
40	24659.	6610.	0.	0.	6610.	2166.2	2527.	9137.
41	24076.	6518.	15.	0.	6533.	2172.9	2467.	9000.
42	20979.	6435.	415.	0.	6850.	2178.3	2150.	9000.
43	24659.	6391.	0.	507.	6898.	2185.0	2527.	9425.
44	22051.	6643.	0.	15409.	22051.	2185.0	4006.	26057.
45	19487.	6641.	0.	12846.	19487.	2185.0	3513.	23000.
46	19487.	6755.	0.	12733.	19487.	2185.0	3513.	23000.
47	19487.	6868.	0.	12619.	19487.	2185.0	3513.	23000.
48	19844.	7094.	0.	12750.	19844.	2185.0	3585.	23429.
49	18961.	7312.	0.	11649.	18961.	2185.0	4610.	23571.
50	11972.	7468.	0.	4504.	11972.	2185.0	2914.	14886.
51	9699.	7635.	0.	2064.	9699.	2185.0	2358.	12057.
52	9763.	7761.	0.	2002.	9763.	2185.0	2374.	12137.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	CONVEYOR RELEASE	VALVE RELEASE				
1963 1	7677.	8028.	0.	0.	8028.	2184.9	1473.	9501.
2	5846.	8027.	0.	0.	8027.	2184.0	1121.	9148.
3	5094.	8604.	0.	0.	8604.	2182.7	977.	9581.
4	4603.	9167.	0.	0.	9167.	2181.0	883.	10050.
5	3273.	8083.	0.	0.	8083.	2179.1	427.	8510.
6	2427.	8591.	0.	0.	8591.	2176.8	373.	8964.
7	2427.	9048.	0.	0.	9048.	2174.3	373.	9421.
8	2427.	9537.	0.	0.	9537.	2171.6	373.	9910.
9	2243.	10025.	0.	0.	10025.	2168.6	328.	10353.
10	1684.	12279.	0.	0.	12279.	2164.6	316.	12595.
11	1684.	12587.	0.	0.	12587.	2160.5	316.	12903.
12	1684.	12255.	0.	0.	12255.	2156.4	316.	12571.
13	1684.	11620.	0.	0.	11620.	2152.7	316.	11936.
14	1346.	11314.	0.	0.	11314.	2148.7	311.	11625.
15	1303.	11329.	0.	0.	11329.	2144.2	297.	11626.
16	1303.	11353.	0.	0.	11353.	2139.7	297.	11650.
17	1303.	11377.	0.	0.	11377.	2135.1	297.	11674.
18	1284.	11393.	0.	0.	11393.	2130.6	273.	11666.
19	1203.	11450.	0.	0.	11450.	2126.0	297.	11747.
20	1203.	11450.	0.	0.	11450.	2121.4	297.	11747.
21	1203.	11334.	0.	0.	11334.	2116.8	297.	11631.
22	1015.	11168.	0.	0.	11168.	2112.2	271.	11439.
23	870.	10475.	0.	0.	10475.	2107.9	130.	10605.
24	870.	10014.	0.	0.	10014.	2103.8	130.	10144.
25	870.	9534.	0.	0.	9534.	2099.9	130.	9664.
26	870.	9294.	0.	0.	9294.	2095.4	130.	9424.
27	680.	7589.	0.	0.	7589.	2091.7	150.	7739.
28	680.	7281.	0.	0.	7281.	2088.2	150.	7431.
29	680.	6985.	0.	0.	6985.	2084.9	150.	7135.
30	680.	6636.	0.	0.	6636.	2081.7	150.	6786.
31	2138.	6304.	0.	0.	6304.	2079.5	528.	6832.
32	2871.	6230.	0.	0.	6230.	2077.7	529.	6759.
33	16185.	6541.	0.	0.	6541.	2082.8	2986.	9527.
34	26173.	6868.	0.	0.	6868.	2093.1	4827.	11695.
35	29395.	7211.	0.	0.	7211.	2104.1	6291.	13502.
36	20039.	7072.	0.	0.	7072.	2110.0	5961.	13033.
37	20039.	6862.	0.	0.	6862.	2115.9	5961.	12823.
38	20039.	6657.	0.	0.	6657.	2121.9	5961.	12618.
39	20039.	6408.	0.	0.	6408.	2128.0	5961.	12369.
40	25591.	6061.	0.	0.	6061.	2136.8	5552.	11613.
41	33081.	6758.	0.	0.	6758.	2148.7	7176.	13934.
42	31343.	6622.	0.	0.	6622.	2158.3	6800.	13422.
43	26765.	6553.	0.	0.	6553.	2165.9	5806.	12359.
44	24772.	6740.	0.	0.	6740.	2172.8	3028.	9768.
45	22882.	6688.	51.	0.	6739.	2178.9	2261.	9000.
46	19853.	6756.	283.	0.	7039.	2183.8	1961.	9000.
47	20996.	6870.	0.	10955.	17825.	2185.0	2075.	19900.
48	17689.	7089.	0.	10600.	17689.	2185.0	1854.	19543.
49	13124.	7299.	0.	5825.	13124.	2185.0	2019.	15143.
50	11736.	7468.	0.	4269.	11736.	2185.0	1807.	13543.
51	9384.	7633.	0.	1751.	9384.	2185.0	1445.	10829.
52	8325.	7755.	0.	570.	8325.	2185.0	1282.	9607.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1964 1	7204.	8028.	0.	0.	8028.	2184.7	1693.	9721.
2	6067.	8027.	0.	0.	8027.	2183.9	1424.	9451.
3	4963.	8604.	0.	0.	8604.	2182.6	1166.	9770.
4	3760.	9167.	0.	0.	9167.	2180.5	883.	10050.
5	2277.	8083.	0.	0.	8083.	2178.3	609.	8692.
6	2037.	8591.	0.	0.	8591.	2175.8	563.	9154.
7	1803.	9048.	0.	0.	9048.	2173.1	497.	9545.
8	1489.	9537.	0.	0.	9537.	2170.0	411.	9948.
9	1454.	10025.	0.	0.	10025.	2166.7	389.	10414.
10	1358.	10657.	0.	0.	10657.	2163.2	342.	10999.
11	1311.	10963.	0.	0.	10963.	2159.5	332.	11295.
12	1038.	10587.	0.	0.	10587.	2155.9	262.	10849.
13	1038.	9880.	0.	0.	9880.	2152.6	262.	10142.
14	913.	9522.	0.	0.	9522.	2149.2	216.	9738.
15	888.	9520.	0.	0.	9520.	2145.3	212.	9732.
16	830.	9506.	0.	0.	9506.	2141.4	199.	9705.
17	807.	9522.	0.	0.	9522.	2137.5	193.	9715.
18	816.	9508.	0.	0.	9508.	2133.5	184.	9692.
19	818.	9542.	0.	0.	9542.	2129.6	182.	9724.
20	802.	9542.	0.	0.	9542.	2125.7	178.	9720.
21	760.	9445.	0.	0.	9445.	2121.8	170.	9615.
22	696.	9307.	0.	0.	9307.	2117.9	165.	9472.
23	612.	8729.	0.	0.	8729.	2114.3	158.	8887.
24	588.	8345.	0.	0.	8345.	2110.8	151.	8496.
25	524.	7945.	0.	0.	7945.	2107.4	136.	8081.
26	524.	7745.	0.	0.	7745.	2104.2	136.	7881.
27	588.	7589.	0.	0.	7589.	2101.0	122.	7711.
28	588.	7281.	0.	0.	7281.	2097.7	122.	7403.
29	637.	6985.	0.	0.	6985.	2094.3	133.	7118.
30	646.	6636.	0.	0.	6636.	2091.1	134.	6770.
31	524.	6304.	0.	0.	6304.	2088.0	342.	6646.
32	521.	6230.	0.	0.	6230.	2085.0	522.	6752.
33	699.	6541.	0.	0.	6541.	2081.9	701.	7242.
34	1548.	6868.	0.	0.	6868.	2079.0	1551.	8419.
35	17791.	7211.	0.	0.	7211.	2084.7	11199.	18410.
36	66753.	7072.	0.	0.	7072.	2113.9	8276.	15348.
37	45845.	6862.	0.	0.	6862.	2131.4	5684.	12546.
38	38257.	7257.	0.	0.	7257.	2145.4	4743.	12000.
39	27669.	6989.	0.	0.	6989.	2153.9	3431.	10420.
40	22261.	6662.	0.	0.	6662.	2159.9	3110.	9772.
41	22938.	6574.	0.	0.	6574.	2166.1	3205.	9779.
42	21646.	6489.	0.	0.	6489.	2171.8	3025.	9514.
43	14854.	6459.	466.	0.	6925.	2174.9	2075.	9000.
44	16893.	6676.	0.	0.	6676.	2178.7	2864.	9540.
45	15985.	6648.	0.	0.	6648.	2182.3	2744.	9392.
46	12889.	6737.	52.	0.	6789.	2184.6	2211.	9000.
47	13741.	6855.	0.	5832.	12687.	2185.0	2359.	15046.
48	11603.	7075.	0.	4528.	11603.	2185.0	1997.	13600.
49	8901.	7288.	0.	1613.	8901.	2185.0	2453.	11354.
50	7255.	7455.	0.	0.	7455.	2184.9	1998.	9453.
51	7294.	7628.	0.	0.	7628.	2184.8	2010.	9638.
52	6247.	7759.	0.	0.	7759.	2184.1	1721.	9480.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1965 1	5814.	8028.	0.	0.	8028.	2183.3	1863.	9891.
2	6506.	6689.	0.	0.	6689.	2183.2	2085.	8774.
3	4258.	7170.	0.	0.	7170.	2182.1	1365.	8535.
4	3387.	7639.	0.	0.	7639.	2180.5	1086.	8725.
5	2593.	8083.	0.	0.	8083.	2178.4	487.	8570.
6	2408.	8591.	0.	0.	8591.	2176.1	428.	9019.
7	2383.	9048.	0.	0.	9048.	2173.5	424.	9472.
8	2656.	9537.	0.	0.	9537.	2170.9	473.	10010.
9	1708.	10025.	0.	0.	10025.	2167.8	325.	10350.
10	1175.	10657.	0.	0.	10657.	2164.2	195.	10852.
11	1047.	10963.	0.	0.	10963.	2160.4	174.	11137.
12	952.	10587.	0.	0.	10587.	2156.7	158.	10745.
13	952.	9880.	0.	0.	9880.	2153.3	158.	10038.
14	880.	9522.	0.	0.	9522.	2150.1	101.	9623.
15	866.	9520.	0.	0.	9520.	2146.2	94.	9614.
16	866.	9506.	0.	0.	9506.	2142.3	94.	9600.
17	866.	9522.	0.	0.	9522.	2138.4	94.	9616.
18	821.	9508.	0.	0.	9508.	2134.5	96.	9604.
19	764.	9542.	0.	0.	9542.	2130.6	96.	9638.
20	764.	9542.	0.	0.	9542.	2126.6	96.	9638.
21	764.	9445.	0.	0.	9445.	2122.7	96.	9541.
22	785.	9307.	0.	0.	9307.	2118.9	92.	9399.
23	809.	8729.	0.	0.	8729.	2115.3	91.	8820.
24	809.	8345.	0.	0.	8345.	2111.9	91.	8436.
25	809.	7945.	0.	0.	7945.	2108.7	91.	8036.
26	809.	7745.	0.	0.	7745.	2105.6	91.	7836.
27	1050.	7589.	0.	0.	7589.	2102.6	130.	7719.
28	1050.	7281.	0.	0.	7281.	2099.8	130.	7411.
29	1324.	6985.	0.	0.	6985.	2096.8	165.	7150.
30	1370.	6636.	0.	0.	6636.	2094.0	170.	6806.
31	1702.	6304.	0.	0.	6304.	2091.5	309.	6613.
32	4582.	6230.	0.	0.	6230.	2090.7	804.	7034.
33	7973.	6541.	0.	0.	6541.	2091.4	1398.	7939.
34	14365.	6868.	0.	0.	6868.	2095.4	2521.	9389.
35	28598.	7211.	0.	0.	7211.	2105.8	5045.	12256.
36	18020.	7072.	0.	0.	7072.	2110.7	3951.	11023.
37	19249.	6862.	0.	0.	6862.	2116.2	4222.	11084.
38	18396.	6657.	0.	0.	6657.	2121.5	4033.	10690.
39	27076.	6408.	0.	0.	6408.	2130.8	5938.	12346.
40	25264.	6880.	0.	0.	6880.	2139.1	5093.	11973.
41	25478.	6752.	0.	0.	6752.	2147.5	5136.	11888.
42	23730.	6644.	0.	0.	6644.	2154.4	4784.	11428.
43	20581.	6597.	0.	0.	6597.	2159.7	4148.	10745.
44	18313.	6806.	0.	0.	6806.	2164.1	3916.	10722.
45	16343.	6775.	0.	0.	6775.	2167.7	3328.	10103.
46	25247.	6844.	0.	0.	6844.	2174.7	5139.	11983.
47	16925.	6911.	0.	0.	6911.	2178.5	3446.	10357.
48	9394.	7117.	0.	0.	7117.	2179.4	1949.	9066.
49	14093.	7323.	0.	0.	7323.	2181.9	2756.	10079.
50	17314.	7475.	0.	1785.	9260.	2185.0	3386.	12646.
51	15844.	7649.	0.	8195.	15844.	2185.0	3099.	18943.
52	18328.	7782.	0.	10546.	18328.	2185.0	3585.	21913.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW CONE VALVE ENVIRON. RELEASE	EXCESS RELEASE	TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1966 1	10948.	8224.	0.	2724.	10948.	2185.0	4138.	15086.
2	6087.	8027.	0.	0.	8027.	2184.3	2300.	10327.
3	2852.	8604.	0.	0.	8604.	2182.1	1077.	9681.
4	2359.	9167.	0.	0.	9167.	2179.5	891.	10058.
5	2043.	8083.	0.	0.	8083.	2177.2	721.	8804.
6	1676.	8591.	0.	0.	8591.	2174.6	588.	9179.
7	1481.	9048.	0.	0.	9048.	2171.7	519.	9567.
8	1412.	9537.	0.	0.	9537.	2168.6	495.	10032.
9	1361.	10025.	0.	0.	10025.	2165.3	468.	10493.
10	1265.	10657.	0.	0.	10657.	2161.8	449.	11106.
11	1223.	10963.	0.	0.	10963.	2158.1	434.	11397.
12	1174.	10587.	0.	0.	10587.	2154.5	416.	11003.
13	1129.	9880.	0.	0.	9880.	2151.2	401.	10281.
14	1075.	9522.	0.	0.	9522.	2147.6	344.	9866.
15	1062.	9520.	0.	0.	9520.	2143.8	338.	9858.
16	1062.	9506.	0.	0.	9506.	2140.0	338.	9844.
17	1062.	9522.	0.	0.	9522.	2136.2	338.	9860.
18	1025.	9508.	0.	0.	9508.	2132.3	332.	9840.
19	980.	9542.	0.	0.	9542.	2128.5	320.	9862.
20	980.	9542.	0.	0.	9542.	2124.6	320.	9862.
21	980.	9445.	0.	0.	9445.	2120.8	320.	9765.
22	983.	9307.	0.	0.	9307.	2117.1	317.	9624.
23	985.	8729.	0.	0.	8729.	2113.6	315.	9044.
24	985.	8345.	0.	0.	8345.	2110.3	315.	8660.
25	985.	7945.	0.	0.	7945.	2107.2	315.	8260.
26	985.	7745.	0.	0.	7745.	2104.1	315.	8060.
27	1091.	7589.	0.	0.	7589.	2101.2	409.	7998.
28	1091.	7281.	0.	0.	7281.	2098.1	409.	7690.
29	1432.	6985.	0.	0.	6985.	2095.2	539.	7524.
30	1490.	6636.	0.	0.	6636.	2092.4	560.	7196.
31	2210.	6304.	0.	0.	6304.	2090.3	804.	7108.
32	2873.	6230.	0.	0.	6230.	2088.5	1013.	7243.
33	5322.	6541.	0.	0.	6541.	2087.8	1878.	8419.
34	10202.	6868.	0.	0.	6868.	2089.6	3598.	10466.
35	16017.	7211.	0.	0.	7211.	2094.3	5640.	12851.
36	37660.	7072.	0.	0.	7072.	2108.9	10026.	17098.
37	26954.	6862.	0.	0.	6862.	2118.0	7175.	14037.
38	22768.	6657.	0.	0.	6657.	2125.2	6061.	12718.
39	19214.	6408.	0.	0.	6408.	2131.0	5115.	11523.
40	15178.	6904.	0.	0.	6904.	2134.7	3465.	10369.
41	14458.	6828.	0.	0.	6828.	2138.1	3299.	10127.
42	15132.	6752.	0.	0.	6752.	2141.9	3454.	10206.
43	17122.	5838.	0.	0.	5838.	2147.0	3907.	9745.
44	22511.	6056.	0.	0.	6056.	2153.7	5503.	11559.
45	18320.	6033.	0.	0.	6033.	2158.4	4594.	10627.
46	15064.	6134.	0.	0.	6134.	2161.7	3779.	9913.
47	18252.	6223.	0.	0.	6223.	2166.3	4577.	10800.
48	14606.	6458.	0.	0.	6458.	2169.4	3694.	10152.
49	10023.	6668.	0.	0.	6668.	2170.7	2863.	9531.
50	9733.	6845.	0.	0.	6845.	2171.8	2781.	9626.
51	9623.	7021.	0.	0.	7021.	2172.8	2748.	9769.
52	7019.	6920.	0.	0.	6920.	2172.8	2006.	8926.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1967 1	5525.	6690.	0.	0.	6690.	2172.4	1465.	8155.
2	3705.	6689.	0.	0.	6689.	2171.2	982.	7671.
3	2802.	7170.	0.	0.	7170.	2169.6	742.	7912.
4	1896.	7639.	0.	0.	7639.	2167.4	504.	8143.
5	1290.	6466.	0.	0.	6466.	2165.4	439.	6905.
6	1192.	6873.	0.	0.	6873.	2163.3	408.	7281.
7	1192.	7238.	0.	0.	7238.	2161.0	408.	7646.
8	1192.	7630.	0.	0.	7630.	2158.5	408.	8038.
9	1173.	8020.	0.	0.	8020.	2155.9	398.	8418.
10	1119.	8526.	0.	0.	8526.	2153.1	381.	8907.
11	1119.	8770.	0.	0.	8770.	2150.2	381.	9151.
12	1119.	8470.	0.	0.	8470.	2146.9	381.	8851.
13	1119.	7904.	0.	0.	7904.	2143.9	381.	8285.
14	1105.	7618.	0.	0.	7618.	2141.0	395.	8013.
15	1106.	7616.	0.	0.	7616.	2138.0	394.	8010.
16	1106.	7605.	0.	0.	7605.	2135.1	394.	7999.
17	1106.	7618.	0.	0.	7618.	2132.2	394.	8012.
18	1077.	7606.	0.	0.	7606.	2129.2	380.	7986.
19	1037.	7634.	0.	0.	7634.	2126.3	363.	7997.
20	1037.	7634.	0.	0.	7634.	2123.3	363.	7997.
21	1037.	7556.	0.	0.	7556.	2120.4	363.	7919.
22	965.	7446.	0.	0.	7446.	2117.5	349.	7795.
23	882.	6983.	0.	0.	6983.	2114.7	318.	7301.
24	882.	6676.	0.	0.	6676.	2112.1	318.	6994.
25	882.	6356.	0.	0.	6356.	2109.7	318.	6674.
26	882.	6196.	0.	0.	6196.	2107.3	318.	6514.
27	771.	6071.	0.	0.	6071.	2104.9	329.	6400.
28	771.	5825.	0.	0.	5825.	2102.6	329.	6154.
29	790.	5588.	0.	0.	5588.	2100.4	339.	5927.
30	910.	5309.	0.	0.	5309.	2098.2	390.	5699.
31	1409.	5043.	0.	0.	5043.	2096.3	334.	5377.
32	4044.	4984.	0.	0.	4984.	2095.8	885.	5869.
33	14066.	5233.	0.	0.	5233.	2100.4	3077.	8310.
34	19680.	5494.	0.	0.	5494.	2106.8	4306.	9800.
35	23533.	7211.	0.	0.	7211.	2114.1	5296.	12507.
36	22187.	7739.	0.	0.	7739.	2120.6	4384.	12123.
37	29069.	7524.	0.	0.	7524.	2130.3	5745.	13269.
38	24227.	7308.	0.	0.	7308.	2137.9	4787.	12095.
39	23703.	7072.	0.	0.	7072.	2145.4	4683.	11755.
40	17634.	6743.	0.	0.	6743.	2150.2	3923.	10666.
41	17564.	6667.	0.	0.	6667.	2154.4	3907.	10574.
42	24423.	6585.	0.	0.	6585.	2161.2	5434.	12019.
43	28466.	6526.	0.	0.	6526.	2169.5	6334.	12860.
44	21665.	6715.	0.	0.	6715.	2175.2	5435.	12150.
45	20177.	6672.	0.	0.	6672.	2180.3	4866.	11538.
46	44209.	6797.	0.	24000.	30797.	2185.4	10662.	41459.
47	24653.	6880.	0.	18805.	25685.	2185.0	5947.	31632.
48	16555.	7087.	0.	9469.	16555.	2185.0	4059.	20614.
49	23511.	7323.	0.	16188.	23511.	2185.0	5560.	29071.
50	13875.	7473.	0.	6403.	13875.	2185.0	3282.	17157.
51	10087.	7636.	0.	2452.	10087.	2185.0	2384.	12471.
52	7666.	7754.	0.	0.	7754.	2185.0	1811.	9565.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1968 1	5636.	8028.	0.	0.	8028.	2184.1	1215.	9243.
2	4692.	8027.	0.	0.	8027.	2182.8	1011.	9038.
3	3669.	8604.	0.	0.	8604.	2180.9	791.	9395.
4	2797.	7639.	0.	0.	7639.	2179.1	603.	8242.
5	2340.	8083.	0.	0.	8083.	2176.9	517.	8600.
6	1987.	8591.	0.	0.	8591.	2174.4	442.	9033.
7	1881.	9048.	0.	0.	9048.	2171.7	419.	9467.
8	1812.	9537.	0.	0.	9537.	2168.7	402.	9939.
9	1780.	10025.	0.	0.	10025.	2165.6	391.	10416.
10	1740.	10657.	0.	0.	10657.	2162.2	360.	11017.
11	1740.	10963.	0.	0.	10963.	2158.7	360.	11323.
12	1669.	10587.	0.	0.	10587.	2155.3	345.	10932.
13	1657.	9880.	0.	0.	9880.	2152.2	343.	10223.
14	1633.	9522.	0.	0.	9522.	2149.0	367.	9889.
15	1634.	9520.	0.	0.	9520.	2145.5	366.	9886.
16	1634.	9506.	0.	0.	9506.	2142.0	366.	9872.
17	1611.	9522.	0.	0.	9522.	2138.4	360.	9882.
18	1552.	9508.	0.	0.	9508.	2134.8	348.	9856.
19	1561.	9542.	0.	0.	9542.	2131.2	339.	9881.
20	1561.	9542.	0.	0.	9542.	2127.6	339.	9881.
21	1561.	9445.	0.	0.	9445.	2124.1	339.	9784.
22	1561.	9307.	0.	0.	9307.	2120.6	339.	9646.
23	1560.	8729.	0.	0.	8729.	2117.4	340.	9069.
24	1560.	8345.	0.	0.	8345.	2114.3	340.	8685.
25	1560.	7945.	0.	0.	7945.	2111.5	340.	8285.
26	1560.	7745.	0.	0.	7745.	2108.7	340.	8085.
27	1544.	7589.	0.	0.	7589.	2106.0	327.	7916.
28	1485.	7281.	0.	0.	7281.	2103.4	315.	7596.
29	1556.	6985.	0.	0.	6985.	2100.9	330.	7315.
30	1662.	6636.	0.	0.	6636.	2098.4	352.	6988.
31	1787.	6304.	0.	0.	6304.	2096.0	456.	6760.
32	2353.	6230.	0.	0.	6230.	2094.0	590.	6820.
33	10464.	6541.	0.	0.	6541.	2096.1	2622.	9163.
34	27061.	6868.	0.	0.	6868.	2105.8	6782.	13650.
35	21911.	7211.	0.	0.	7211.	2112.4	5632.	12843.
36	21507.	7764.	0.	0.	7764.	2118.5	4950.	12714.
37	29938.	7548.	0.	0.	7548.	2128.6	6891.	14439.
38	30356.	7312.	0.	0.	7312.	2139.0	6987.	14299.
39	22099.	7064.	0.	0.	7064.	2145.7	5087.	12151.
40	24724.	6728.	0.	0.	6728.	2153.2	4705.	11433.
41	22504.	6633.	0.	0.	6633.	2159.3	4282.	10915.
42	21723.	6547.	0.	0.	6547.	2165.0	4134.	10681.
43	20991.	6505.	0.	0.	6505.	2170.5	3995.	10500.
44	18324.	6711.	0.	0.	6711.	2174.9	3890.	10601.
45	16541.	6680.	0.	0.	6680.	2178.7	3602.	10282.
46	13759.	6767.	0.	0.	6767.	2181.3	2998.	9765.
47	12436.	6860.	0.	0.	6860.	2183.5	2707.	9567.
48	11024.	7069.	0.	0.	7069.	2185.0	2405.	9474.
49	9099.	7288.	0.	1731.	9019.	2185.0	2172.	11192.
50	9115.	7460.	0.	1655.	9115.	2185.0	2176.	11291.
51	5821.	7630.	0.	0.	7630.	2184.3	1389.	9019.
52	4456.	7767.	0.	0.	7767.	2182.9	1064.	8831.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1969 1	4162.	8028.	0.	0.	8028.	2181.4	899.	8927.
2	3593.	6689.	0.	0.	6689.	2180.2	777.	7466.
3	2768.	7170.	0.	0.	7170.	2178.6	598.	7768.
4	2457.	7639.	0.	0.	7639.	2176.6	530.	8169.
5	2109.	8083.	0.	0.	8083.	2174.3	434.	8517.
6	1631.	8591.	0.	0.	8591.	2171.7	340.	8931.
7	1241.	9048.	0.	0.	9048.	2168.7	259.	9307.
8	1087.	9537.	0.	0.	9537.	2165.5	227.	9764.
9	901.	10025.	0.	0.	10025.	2162.0	185.	10210.
10	809.	10657.	0.	0.	10657.	2158.3	141.	10798.
11	767.	10963.	0.	0.	10963.	2154.4	133.	11096.
12	724.	10587.	0.	0.	10587.	2150.7	126.	10713.
13	687.	9880.	0.	0.	9880.	2146.7	120.	10000.
14	658.	7618.	0.	0.	7618.	2143.5	113.	7731.
15	640.	7616.	0.	0.	7616.	2140.4	110.	7726.
16	598.	7605.	0.	0.	7605.	2137.2	102.	7707.
17	598.	7618.	0.	0.	7618.	2134.1	102.	7720.
18	598.	7606.	0.	0.	7606.	2130.9	102.	7708.
19	587.	7634.	0.	0.	7634.	2127.8	113.	7747.
20	599.	7634.	0.	0.	7634.	2124.6	115.	7749.
21	630.	7556.	0.	0.	7556.	2121.5	120.	7676.
22	630.	7446.	0.	0.	7446.	2118.4	120.	7566.
23	655.	6983.	0.	0.	6983.	2115.6	124.	7107.
24	673.	6676.	0.	0.	6676.	2112.9	127.	6803.
25	709.	6356.	0.	0.	6356.	2110.3	134.	6490.
26	732.	6196.	0.	0.	6196.	2107.9	139.	6335.
27	779.	6071.	0.	0.	6071.	2105.5	178.	6249.
28	919.	5825.	0.	0.	5825.	2103.3	210.	6035.
29	1196.	5588.	0.	0.	5588.	2101.3	275.	5863.
30	1696.	5309.	0.	0.	5309.	2099.6	390.	5699.
31	2867.	6304.	0.	0.	6304.	2097.8	533.	6837.
32	5116.	6230.	0.	0.	6230.	2097.2	897.	7127.
33	9727.	6541.	0.	0.	6541.	2098.9	1707.	8248.
34	17064.	6868.	0.	0.	6868.	2103.7	2993.	9861.
35	10209.	7211.	0.	0.	7211.	2105.0	1860.	9071.
36	11525.	7072.	0.	0.	7072.	2107.0	1275.	8347.
37	14689.	6862.	0.	0.	6862.	2110.5	1625.	8487.
38	16092.	6657.	0.	0.	6657.	2114.8	1779.	8436.
39	14614.	6408.	0.	0.	6408.	2118.5	1615.	8023.
40	13051.	7055.	67.	0.	7122.	2121.1	878.	8000.
41	16518.	6889.	0.	0.	6889.	2125.5	1111.	8000.
42	16974.	6860.	0.	0.	6860.	2130.0	1140.	8000.
43	14188.	6853.	193.	0.	7045.	2133.2	955.	8000.
44	11668.	6282.	0.	0.	6282.	2135.7	1718.	8000.
45	12201.	5915.	0.	0.	5915.	2138.5	2085.	8000.
46	6318.	6919.	0.	0.	6919.	2138.2	1081.	8000.
47	5126.	7125.	0.	0.	7125.	2137.3	875.	8000.
48	4792.	7199.	0.	0.	7199.	2136.2	801.	8000.
49	5256.	6953.	0.	0.	6953.	2135.5	1047.	8000.
50	4595.	6084.	0.	0.	6084.	2134.8	916.	7000.
51	3939.	5213.	0.	0.	5213.	2134.2	787.	6000.
52	3308.	5339.	0.	0.	5339.	2133.2	661.	6000.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1970 1	3018.	5078.	0.	0.	5078.	2132.3	922.	6000.
2	2841.	5132.	0.	0.	5132.	2131.2	868.	6000.
3	2489.	4517.	0.	0.	4517.	2130.3	760.	5277.
4	1680.	4813.	0.	0.	4813.	2128.9	513.	5326.
5	1432.	5092.	0.	0.	5092.	2127.3	282.	5374.
6	1202.	5412.	0.	0.	5412.	2125.4	227.	5639.
7	950.	5700.	0.	0.	5700.	2123.2	179.	5879.
8	842.	6008.	0.	0.	6008.	2120.9	158.	6166.
9	787.	6316.	0.	0.	6316.	2118.4	149.	6465.
10	735.	6714.	0.	0.	6714.	2115.7	165.	6879.
11	699.	6907.	0.	0.	6907.	2112.9	158.	7065.
12	694.	6670.	0.	0.	6670.	2110.2	156.	6826.
13	694.	6224.	0.	0.	6224.	2107.8	156.	6380.
14	656.	5999.	0.	0.	5999.	2105.4	194.	6193.
15	656.	5998.	0.	0.	5998.	2103.0	194.	6192.
16	628.	5989.	0.	0.	5989.	2100.5	186.	6175.
17	617.	5999.	0.	0.	5999.	2097.8	183.	6182.
18	618.	5990.	0.	0.	5990.	2094.9	182.	6172.
19	628.	6012.	0.	0.	6012.	2092.0	172.	6184.
20	589.	6012.	0.	0.	6012.	2089.2	161.	6173.
21	589.	5950.	0.	0.	5950.	2086.3	161.	6111.
22	589.	5863.	0.	0.	5863.	2083.5	161.	6024.
23	605.	5499.	0.	0.	5499.	2080.9	145.	5644.
24	616.	5257.	0.	0.	5257.	2078.4	148.	5405.
25	645.	5005.	0.	0.	5005.	2076.1	155.	5160.
26	645.	4879.	0.	0.	4879.	2073.8	155.	5034.
27	769.	4781.	0.	0.	4781.	2071.7	81.	4862.
28	846.	4587.	0.	0.	4587.	2069.7	90.	4677.
29	969.	4401.	0.	0.	4401.	2067.9	102.	4503.
30	1176.	4181.	0.	0.	4181.	2066.3	124.	4305.
31	1634.	3972.	0.	0.	3972.	2065.0	309.	4281.
32	3900.	3925.	0.	0.	3925.	2065.0	714.	4639.
33	13817.	4121.	0.	0.	4121.	2070.2	2526.	6647.
34	12474.	4327.	0.	0.	4327.	2074.5	2283.	6610.
35	15221.	4543.	0.	0.	4543.	2080.2	2908.	7451.
36	12989.	4455.	0.	0.	4455.	2084.8	3982.	8437.
37	12531.	4323.	0.	0.	4323.	2089.1	3840.	8163.
38	11864.	4364.	0.	0.	4364.	2093.1	3636.	8000.
39	19977.	4037.	0.	0.	4037.	2101.4	6123.	10160.
40	20089.	3818.	0.	0.	3818.	2108.7	4940.	8758.
41	16855.	3855.	0.	0.	3855.	2114.5	4145.	8000.
42	18059.	3700.	0.	0.	3700.	2121.0	4441.	8141.
43	17267.	3753.	0.	0.	3753.	2127.1	4247.	8000.
44	21606.	3815.	0.	0.	3815.	2135.1	4823.	8638.
45	18880.	4009.	0.	0.	4009.	2141.8	3991.	8000.
46	14586.	4915.	0.	0.	4915.	2146.1	3085.	8000.
47	16486.	4978.	0.	0.	4978.	2151.1	3485.	8463.
48	11350.	5564.	0.	0.	5564.	2153.3	2436.	8000.
49	9396.	5499.	0.	0.	5499.	2154.8	2501.	8000.
50	7477.	5476.	0.	0.	5476.	2155.5	1989.	7465.
51	7616.	5617.	0.	0.	5617.	2156.3	2027.	7644.
52	4244.	5536.	0.	0.	5536.	2155.7	1131.	6667.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
			ENVIRON. RELEASE  (CFS)	VALVE EXCESS RELEASE  (CFS)				
1971 1	4991.	5352.	0.	0.	5352.	2155.6	2026.	7378.
2	4166.	5351.	0.	0.	5351.	2155.1	1691.	7042.
3	3393.	5736.	0.	0.	5736.	2154.2	1378.	7114.
4	2885.	6111.	0.	0.	6111.	2153.0	1172.	7283.
5	2923.	6466.	0.	0.	6466.	2151.7	1077.	7543.
6	2796.	6873.	0.	0.	6873.	2150.1	1004.	7877.
7	2543.	7238.	0.	0.	7238.	2148.0	914.	8152.
8	2249.	7630.	0.	0.	7630.	2145.6	808.	8438.
9	2013.	8020.	0.	0.	8020.	2142.9	730.	8750.
10	1886.	8526.	0.	0.	8526.	2139.9	685.	9211.
11	1761.	8770.	0.	0.	8770.	2136.8	639.	9409.
12	1614.	8470.	0.	0.	8470.	2133.7	586.	9056.
13	1446.	7904.	0.	0.	7904.	2130.8	525.	8429.
14	1328.	7618.	0.	0.	7618.	2128.0	415.	8033.
15	1188.	7616.	0.	0.	7616.	2125.1	369.	7985.
16	1080.	7605.	0.	0.	7605.	2122.1	334.	7939.
17	950.	7618.	0.	0.	7618.	2119.1	293.	7911.
18	880.	7606.	0.	0.	7606.	2116.1	277.	7883.
19	821.	7634.	0.	0.	7634.	2113.0	279.	7913.
20	746.	7634.	0.	0.	7634.	2109.9	254.	7888.
21	746.	7556.	0.	0.	7556.	2106.9	254.	7810.
22	730.	7446.	0.	0.	7446.	2103.9	249.	7695.
23	716.	6983.	0.	0.	6983.	2101.0	234.	7217.
24	716.	6676.	0.	0.	6676.	2098.1	234.	6910.
25	716.	6356.	0.	0.	6356.	2095.1	234.	6590.
26	716.	6196.	0.	0.	6196.	2092.1	234.	6430.
27	717.	6071.	0.	0.	6071.	2089.3	247.	6318.
28	744.	5825.	0.	0.	5825.	2086.6	256.	6081.
29	808.	5588.	0.	0.	5588.	2084.0	278.	5866.
30	904.	5309.	0.	0.	5309.	2081.7	310.	5619.
31	1098.	5043.	0.	0.	5043.	2079.6	359.	5402.
32	1415.	4984.	0.	0.	4984.	2077.7	485.	5469.
33	2087.	5287.	0.	0.	5287.	2076.0	713.	6000.
34	3683.	5494.	0.	0.	5494.	2075.0	1260.	6754.
35	6558.	5769.	0.	0.	5769.	2075.4	2156.	7925.
36	19251.	5658.	0.	0.	5658.	2082.7	3606.	9264.
37	39740.	5490.	0.	0.	5490.	2100.8	7446.	12936.
38	24136.	5326.	0.	0.	5326.	2109.2	4521.	9847.
39	33340.	5126.	0.	0.	5126.	2121.9	6246.	11372.
40	21395.	5924.	0.	0.	5924.	2128.9	3076.	9000.
41	21771.	5954.	0.	0.	5954.	2136.0	3129.	9083.
42	25092.	5873.	0.	0.	5873.	2144.6	3608.	9481.
43	16325.	6654.	0.	0.	6654.	2149.0	2346.	9000.
44	20943.	6056.	0.	0.	6056.	2154.8	3414.	9470.
45	38945.	6033.	0.	0.	6033.	2167.3	5798.	11831.
46	34819.	6831.	0.	0.	6831.	2177.9	5181.	12012.
47	21352.	6875.	0.	0.	6875.	2183.4	3177.	10052.
48	16880.	7085.	0.	5665.	12750.	2185.0	2591.	15341.
49	19170.	7313.	0.	11857.	19170.	2185.0	3687.	22857.
50	12233.	7469.	0.	4764.	12233.	2185.0	2353.	14586.
51	9251.	7633.	0.	1618.	9251.	2185.0	1778.	11029.
52	8027.	7754.	0.	273.	8027.	2185.0	1545.	9572.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1972 1	6619.	8028.	0.	0.	8028.	2184.5	1125.	9153.
2	5931.	8027.	0.	0.	8027.	2183.7	1008.	9035.
3	4501.	8604.	0.	0.	8604.	2182.1	766.	9370.
4	3711.	9167.	0.	0.	9167.	2180.0	632.	9799.
5	3005.	8083.	0.	0.	8083.	2178.1	595.	8678.
6	2717.	8591.	0.	0.	8591.	2175.9	540.	9131.
7	2574.	9048.	0.	0.	9048.	2173.4	512.	9560.
8	2430.	9537.	0.	0.	9537.	2170.7	484.	10021.
9	2311.	10025.	0.	0.	10025.	2167.8	460.	10485.
10	2016.	10657.	0.	0.	10657.	2164.5	584.	11241.
11	2016.	10963.	0.	0.	10963.	2161.1	584.	11547.
12	1860.	10587.	0.	0.	10587.	2157.8	540.	11127.
13	1860.	9880.	0.	0.	9880.	2154.7	540.	10420.
14	1790.	11280.	0.	0.	11280.	2151.1	610.	11890.
15	1642.	11288.	0.	0.	11288.	2147.0	558.	11846.
16	1642.	11299.	0.	0.	11299.	2142.7	558.	11857.
17	1642.	11320.	0.	0.	11320.	2138.3	558.	11878.
18	1643.	11333.	0.	0.	11333.	2134.0	557.	11890.
19	1528.	11402.	0.	0.	11402.	2129.5	558.	11960.
20	1465.	11395.	0.	0.	11395.	2125.1	535.	11930.
21	1465.	11334.	0.	0.	11334.	2120.6	535.	11869.
22	1403.	11168.	0.	0.	11168.	2116.2	511.	11679.
23	1416.	10475.	0.	0.	10475.	2112.1	470.	10945.
24	1351.	10014.	0.	0.	10014.	2108.3	449.	10463.
25	1351.	9534.	0.	0.	9534.	2104.6	449.	9983.
26	1329.	9294.	0.	0.	9294.	2101.0	442.	9736.
27	1241.	9107.	0.	0.	9107.	2097.0	459.	9566.
28	1241.	8737.	0.	0.	8737.	2093.0	459.	9196.
29	1189.	8382.	0.	0.	8382.	2089.2	440.	8822.
30	1241.	7963.	0.	0.	7963.	2085.6	459.	8422.
31	2386.	7565.	0.	0.	7565.	2082.8	1000.	8565.
32	13753.	6230.	0.	0.	6230.	2086.8	5818.	12048.
33	13553.	6541.	0.	0.	6541.	2090.6	5733.	12274.
34	18894.	6868.	0.	0.	6868.	2097.0	7992.	14860.
35	31966.	7211.	0.	0.	7211.	2108.6	12277.	19488.
36	20142.	7072.	0.	0.	7072.	2114.4	4329.	11401.
37	35772.	6862.	0.	0.	6862.	2127.5	7685.	14547.
38	31327.	7323.	0.	0.	7323.	2138.2	6730.	14053.
39	21178.	7075.	0.	0.	7075.	2144.6	4551.	11626.
40	22096.	6742.	0.	0.	6742.	2151.3	3275.	10017.
41	22084.	6651.	0.	0.	6651.	2157.1	3273.	9924.
42	19683.	6569.	0.	0.	6569.	2162.1	2917.	9486.
43	16050.	6538.	83.	0.	6621.	2165.7	2379.	9000.
44	18343.	6755.	345.	0.	7100.	2170.0	1900.	9000.
45	19675.	6719.	227.	0.	6946.	2174.8	2054.	9000.
46	18045.	6795.	321.	0.	7116.	2178.9	1884.	9000.
47	18653.	6871.	182.	0.	7053.	2183.4	1947.	9000.
48	12473.	7073.	0.	1065.	8138.	2185.0	1313.	9451.
49	11598.	7295.	0.	4303.	11598.	2185.0	1588.	13186.
50	15857.	7477.	0.	8380.	15857.	2185.0	2172.	18029.
51	11686.	7639.	0.	4047.	11686.	2185.0	1600.	13286.
52	5278.	7759.	0.	0.	7759.	2183.9	722.	8481.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1973 1	4296.	8028.	0.	0.	8028.	2182.5	490.	8518.
2	3976.	6689.	0.	0.	6689.	2181.5	453.	7142.
3	5515.	7170.	0.	0.	7170.	2180.8	628.	7798.
4	4090.	7639.	0.	0.	7639.	2179.5	467.	8106.
5	2727.	8083.	0.	0.	8083.	2177.5	387.	8470.
6	2210.	8591.	0.	0.	8591.	2175.0	333.	8924.
7	1887.	9048.	0.	0.	9048.	2172.3	284.	9332.
8	1738.	9537.	0.	0.	9537.	2169.4	262.	9799.
9	1519.	10025.	0.	0.	10025.	2166.1	224.	10249.
10	1356.	10657.	0.	0.	10657.	2162.6	244.	10901.
11	1210.	10963.	0.	0.	10963.	2158.9	219.	11182.
12	1186.	10587.	0.	0.	10587.	2155.3	214.	10801.
13	1186.	9880.	0.	0.	9880.	2152.0	214.	10094.
14	1051.	9522.	0.	0.	9522.	2148.6	178.	9700.
15	1026.	9520.	0.	0.	9520.	2144.8	174.	9694.
16	1026.	9506.	0.	0.	9506.	2140.9	174.	9680.
17	1026.	9522.	0.	0.	9522.	2137.1	174.	9696.
18	1035.	9508.	0.	0.	9508.	2133.3	165.	9673.
19	1008.	9542.	0.	0.	9542.	2129.5	192.	9734.
20	1008.	9542.	0.	0.	9542.	2125.6	192.	9734.
21	1008.	9445.	0.	0.	9445.	2121.8	192.	9637.
22	929.	9307.	0.	0.	9307.	2118.1	185.	9492.
23	868.	8729.	0.	0.	8729.	2114.5	132.	8861.
24	868.	8345.	0.	0.	8345.	2111.2	132.	8477.
25	868.	7945.	0.	0.	7945.	2108.0	132.	8077.
26	868.	7745.	0.	0.	7745.	2104.9	132.	7877.
27	879.	7589.	0.	0.	7589.	2101.9	121.	7710.
28	879.	7281.	0.	0.	7281.	2098.8	121.	7402.
29	879.	6985.	0.	0.	6985.	2095.6	121.	7106.
30	929.	6636.	0.	0.	6636.	2092.5	128.	6764.
31	1227.	6304.	0.	0.	6304.	2089.8	173.	6477.
32	2355.	6230.	0.	0.	6230.	2087.8	331.	6561.
33	8066.	6541.	0.	0.	6541.	2088.6	1134.	7675.
34	11109.	6868.	0.	0.	6868.	2090.8	1562.	8430.
35	13811.	7211.	0.	0.	7211.	2094.3	1903.	9114.
36	17385.	7072.	0.	0.	7072.	2099.8	2829.	9901.
37	28985.	6862.	0.	0.	6862.	2109.8	4715.	11577.
38	31344.	6657.	0.	0.	6657.	2120.9	5099.	11756.
39	20593.	6408.	0.	0.	6408.	2127.3	3350.	9758.
40	18980.	6923.	0.	0.	6923.	2132.7	2077.	9000.
41	18143.	6842.	172.	0.	7014.	2137.7	1986.	9000.
42	13728.	6765.	734.	0.	7499.	2140.5	1501.	9000.
43	14810.	6737.	644.	0.	7381.	2143.9	1619.	9000.
44	15752.	6954.	141.	0.	7095.	2147.8	1905.	9000.
45	18754.	6725.	0.	0.	6725.	2152.7	2275.	9000.
46	14942.	6999.	186.	0.	7185.	2155.6	1815.	9000.
47	19441.	6641.	0.	0.	6641.	2160.5	2359.	9000.
48	20593.	6458.	0.	0.	6458.	2165.9	2578.	9036.
49	11210.	6668.	0.	0.	6668.	2167.6	1604.	8272.
50	7823.	6845.	0.	0.	6845.	2167.9	1119.	7964.
51	6605.	5617.	0.	0.	5617.	2168.3	946.	6563.
52	5366.	5536.	0.	0.	5536.	2168.3	768.	6304.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1974 1	4607.	5352.	0.	0.	5352.	2168.0	1029.	6381.
2	3710.	5351.	0.	0.	5351.	2167.3	829.	6180.
3	2558.	5736.	0.	0.	5736.	2166.1	572.	6308.
4	1938.	6111.	0.	0.	6111.	2164.6	433.	6544.
5	1693.	6466.	0.	0.	6466.	2162.7	221.	6687.
6	1459.	6873.	0.	0.	6873.	2160.7	184.	7057.
7	1344.	7238.	0.	0.	7238.	2158.4	170.	7408.
8	1230.	7630.	0.	0.	7630.	2156.0	156.	7786.
9	1129.	8020.	0.	0.	8020.	2153.4	142.	8162.
10	1028.	8526.	0.	0.	8526.	2150.5	115.	8641.
11	926.	8770.	0.	0.	8770.	2147.1	103.	8873.
12	881.	8470.	0.	0.	8470.	2143.7	98.	8568.
13	854.	7904.	0.	0.	7904.	2140.5	96.	8000.
14	816.	7618.	0.	0.	7618.	2137.5	91.	7709.
15	811.	7616.	0.	0.	7616.	2134.4	89.	7705.
16	778.	7605.	0.	0.	7605.	2131.3	86.	7691.
17	765.	7618.	0.	0.	7618.	2128.3	85.	7703.
18	745.	7606.	0.	0.	7606.	2125.2	84.	7690.
19	707.	7634.	0.	0.	7634.	2122.1	93.	7727.
20	694.	7634.	0.	0.	7634.	2118.9	92.	7726.
21	662.	7556.	0.	0.	7556.	2115.8	88.	7644.
22	663.	7446.	0.	0.	7446.	2112.8	87.	7533.
23	648.	6983.	0.	0.	6983.	2109.9	102.	7085.
24	636.	6676.	0.	0.	6676.	2107.2	100.	6776.
25	605.	6356.	0.	0.	6356.	2104.6	95.	6451.
26	605.	6196.	0.	0.	6196.	2102.1	95.	6291.
27	594.	6071.	0.	0.	6071.	2099.6	106.	6177.
28	620.	5825.	0.	0.	5825.	2096.8	109.	5934.
29	747.	5588.	0.	0.	5588.	2094.2	132.	5720.
30	1189.	5309.	0.	0.	5309.	2092.1	211.	5520.
31	2059.	5043.	0.	0.	5043.	2090.5	512.	5555.
32	5341.	4984.	0.	0.	4984.	2090.7	1245.	6229.
33	9964.	5233.	0.	0.	5233.	2093.2	2322.	7555.
34	22246.	5494.	0.	0.	5494.	2101.8	5183.	10677.
35	25280.	5769.	0.	0.	5769.	2110.5	6077.	11846.
36	16013.	7072.	0.	0.	7072.	2114.6	3544.	10616.
37	13675.	6862.	0.	0.	6862.	2117.6	3025.	9887.
38	12785.	6657.	0.	0.	6657.	2120.4	2829.	9486.
39	13651.	6408.	0.	0.	6408.	2123.6	3020.	9428.
40	14383.	6440.	0.	0.	6440.	2127.2	2560.	9000.
41	17876.	5954.	0.	0.	5954.	2132.6	3181.	9135.
42	16396.	6082.	0.	0.	6082.	2137.2	2918.	9000.
43	15766.	6195.	0.	0.	6195.	2141.5	2805.	9000.
44	14730.	6056.	0.	0.	6056.	2145.4	2984.	9040.
45	15504.	5818.	0.	0.	5818.	2149.8	3182.	9000.
46	13265.	6279.	0.	0.	6279.	2152.5	2721.	9000.
47	10498.	6847.	0.	0.	6847.	2153.9	2153.	9000.
48	14244.	6114.	0.	0.	6114.	2156.9	2886.	9000.
49	13395.	5334.	0.	0.	5334.	2160.0	3219.	8553.
50	7511.	5476.	0.	0.	5476.	2160.8	1803.	7279.
51	7590.	5617.	0.	0.	5617.	2161.5	1823.	7440.
52	9984.	5536.	0.	0.	5536.	2163.5	2401.	7937.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1975 1	4537.	5352.	0.	0.	5352.	2163.1	966.	6318.
2	4509.	5351.	0.	0.	5351.	2162.8	960.	6311.
3	2402.	5736.	0.	0.	5736.	2161.6	512.	6248.
4	1602.	6111.	0.	0.	6111.	2159.8	341.	6452.
5	1468.	6466.	0.	0.	6466.	2157.9	232.	6698.
6	1478.	6873.	0.	0.	6873.	2155.9	222.	7095.
7	1478.	7238.	0.	0.	7238.	2153.7	222.	7460.
8	1478.	7630.	0.	0.	7630.	2151.4	222.	7852.
9	1461.	8020.	0.	0.	8020.	2148.7	225.	8245.
10	1264.	8526.	0.	0.	8526.	2145.4	336.	8862.
11	1264.	8770.	0.	0.	8770.	2142.0	336.	9106.
12	1264.	8470.	0.	0.	8470.	2138.8	336.	8806.
13	1264.	7904.	0.	0.	7904.	2135.8	336.	8240.
14	1270.	7618.	0.	0.	7618.	2133.0	316.	7934.
15	1203.	7616.	0.	0.	7616.	2130.1	297.	7913.
16	1203.	7605.	0.	0.	7605.	2127.2	297.	7902.
17	1203.	7618.	0.	0.	7618.	2124.3	297.	7915.
18	1200.	7606.	0.	0.	7606.	2121.4	300.	7906.
19	1123.	7634.	0.	0.	7634.	2118.5	377.	8011.
20	1123.	7634.	0.	0.	7634.	2115.6	377.	8011.
21	1081.	7556.	0.	0.	7556.	2112.7	362.	7918.
22	1051.	7446.	0.	0.	7446.	2109.8	349.	7795.
23	1040.	6983.	0.	0.	6983.	2107.1	360.	7343.
24	1040.	6676.	0.	0.	6676.	2104.6	360.	7036.
25	1040.	6356.	0.	0.	6356.	2102.2	360.	6716.
26	1040.	6196.	0.	0.	6196.	2099.8	360.	6556.
27	1036.	6071.	0.	0.	6071.	2097.2	364.	6435.
28	1047.	5825.	0.	0.	5825.	2094.6	367.	6192.
29	1142.	5588.	0.	0.	5588.	2092.2	401.	5989.
30	1354.	5309.	0.	0.	5309.	2090.1	475.	5784.
31	2133.	5043.	0.	0.	5043.	2088.6	710.	5753.
32	5138.	4984.	0.	0.	4984.	2088.7	1719.	6703.
33	11291.	5233.	0.	0.	5233.	2091.9	3780.	9013.
34	17252.	5494.	0.	0.	5494.	2098.2	5777.	11271.
35	23081.	5769.	0.	0.	5769.	2106.2	7419.	13188.
36	30459.	5658.	0.	0.	5658.	2117.4	5941.	11599.
37	22880.	6862.	0.	0.	6862.	2124.6	4463.	11325.
38	28749.	7365.	0.	0.	7365.	2134.2	5608.	12973.
39	25700.	7110.	0.	0.	7110.	2142.6	5014.	12124.
40	23413.	6757.	0.	0.	6757.	2150.0	4087.	10844.
41	25455.	6656.	0.	0.	6656.	2157.2	4445.	11101.
42	24131.	6561.	0.	0.	6561.	2163.9	4212.	10773.
43	22076.	6513.	0.	0.	6513.	2169.8	3853.	10366.
44	20265.	6714.	0.	0.	6714.	2174.9	3935.	10649.
45	16199.	6681.	0.	0.	6681.	2178.5	3287.	9968.
46	15474.	6765.	0.	0.	6765.	2181.8	3140.	9905.
47	13658.	6853.	0.	0.	6853.	2184.4	2771.	9624.
48	11762.	7075.	0.	3196.	10271.	2185.0	2395.	12666.
49	9359.	7289.	0.	2070.	9359.	2185.0	2384.	11743.
50	15849.	7477.	0.	8372.	15849.	2185.0	4037.	19886.
51	14847.	7647.	0.	7200.	14847.	2185.0	3782.	18629.
52	12513.	7768.	0.	4745.	12513.	2185.0	3187.	15700.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW CONE VALVE ENVIRON. RELEASE	EXCESS RELEASE	TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1976 1	7559.	8028.	0.	0.	8028.	2184.8	2727.	10755.
2	6664.	8027.	0.	0.	8027.	2184.3	2407.	10434.
3	6139.	8604.	0.	0.	8604.	2183.4	2218.	10822.
4	3621.	9167.	0.	0.	9167.	2181.3	1308.	10475.
5	2720.	8083.	0.	0.	8083.	2179.2	709.	8792.
6	1937.	8591.	0.	0.	8591.	2176.7	520.	9111.
7	1475.	9048.	0.	0.	9048.	2173.8	396.	9444.
8	1173.	9537.	0.	0.	9537.	2170.6	313.	9850.
9	1011.	10025.	0.	0.	10025.	2167.2	260.	10285.
10	925.	10657.	0.	0.	10657.	2163.5	218.	10875.
11	890.	10963.	0.	0.	10963.	2159.7	210.	11173.
12	855.	10587.	0.	0.	10587.	2156.0	202.	10789.
13	809.	9880.	0.	0.	9880.	2152.6	191.	10071.
14	778.	9522.	0.	0.	9522.	2149.1	222.	9744.
15	778.	9520.	0.	0.	9520.	2145.2	222.	9742.
16	750.	9506.	0.	0.	9506.	2141.2	214.	9720.
17	739.	9522.	0.	0.	9522.	2137.3	211.	9733.
18	741.	9508.	0.	0.	9508.	2133.3	209.	9717.
19	746.	9542.	0.	0.	9542.	2129.4	204.	9746.
20	746.	9542.	0.	0.	9542.	2125.4	204.	9746.
21	746.	9445.	0.	0.	9445.	2121.5	204.	9649.
22	726.	9307.	0.	0.	9307.	2117.6	203.	9510.
23	687.	8729.	0.	0.	8729.	2114.0	213.	8942.
24	687.	8345.	0.	0.	8345.	2110.6	213.	8558.
25	687.	7945.	0.	0.	7945.	2107.3	213.	8158.
26	687.	7745.	0.	0.	7745.	2104.1	213.	7958.
27	644.	7589.	0.	0.	7589.	2101.0	256.	7845.
28	675.	7281.	0.	0.	7281.	2097.7	268.	7549.
29	839.	6985.	0.	0.	6985.	2094.4	332.	7317.
30	1402.	6636.	0.	0.	6636.	2091.6	555.	7191.
31	3440.	6304.	0.	0.	6304.	2090.1	1517.	7821.
32	9778.	6230.	0.	0.	6230.	2092.0	4165.	10395.
33	9397.	6541.	0.	0.	6541.	2093.5	4003.	10544.
34	9828.	6868.	0.	0.	6868.	2095.1	4186.	11054.
35	11375.	7211.	0.	0.	7211.	2097.3	4754.	11965.
36	23100.	7072.	0.	0.	7072.	2104.9	4600.	11672.
37	24887.	6862.	0.	0.	6862.	2113.0	4956.	11818.
38	17525.	6657.	0.	0.	6657.	2117.9	3489.	10146.
39	16928.	6408.	0.	0.	6408.	2122.7	3372.	9780.
40	16991.	6662.	0.	0.	6662.	2127.3	2338.	9000.
41	16954.	6668.	0.	0.	6668.	2131.9	2332.	9000.
42	16164.	6778.	0.	0.	6778.	2136.2	2222.	9000.
43	16576.	6719.	0.	0.	6719.	2140.6	2281.	9000.
44	20226.	6981.	531.	0.	7512.	2146.3	1488.	9000.
45	26317.	6920.	683.	0.	7603.	2154.0	1397.	9000.
46	19534.	6983.	980.	0.	7963.	2158.4	1037.	9000.
47	15004.	7069.	1136.	0.	8204.	2161.0	796.	9000.
48	10554.	7284.	1087.	0.	8371.	2161.8	629.	9000.
49	6302.	6573.	0.	0.	6573.	2161.7	1427.	8000.
50	5160.	5830.	0.	0.	5830.	2161.4	1170.	7000.
51	5190.	5617.	0.	0.	5617.	2161.3	1177.	6794.
52	5530.	5536.	0.	0.	5536.	2161.3	1251.	6787.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1977 1	3729.	5352.	0.	0.	5352.	2160.7	1102.	6454.
2	3045.	5351.	0.	0.	5351.	2159.8	898.	6249.
3	2903.	5736.	0.	0.	5736.	2158.7	857.	6593.
4	2576.	6111.	0.	0.	6111.	2157.4	761.	6872.
5	2139.	6466.	0.	0.	6466.	2155.7	804.	7270.
6	1963.	6873.	0.	0.	6873.	2153.9	751.	7624.
7	1839.	7238.	0.	0.	7238.	2151.8	704.	7942.
8	1736.	7630.	0.	0.	7630.	2149.5	664.	8294.
9	2097.	8020.	0.	0.	8020.	2146.8	789.	8809.
10	1902.	8526.	0.	0.	8526.	2143.8	812.	9338.
11	1722.	8770.	0.	0.	8770.	2140.7	735.	9505.
12	1583.	8470.	0.	0.	8470.	2137.6	674.	9144.
13	1462.	7904.	0.	0.	7904.	2134.7	624.	8528.
14	1442.	7618.	0.	0.	7618.	2131.9	515.	8133.
15	1400.	7616.	0.	0.	7616.	2129.1	500.	8116.
16	1326.	7605.	0.	0.	7605.	2126.3	474.	8079.
17	1294.	7618.	0.	0.	7618.	2123.4	463.	8081.
18	1257.	7606.	0.	0.	7606.	2120.6	443.	8049.
19	1219.	7634.	0.	0.	7634.	2117.7	410.	8044.
20	1197.	7634.	0.	0.	7634.	2114.8	403.	8037.
21	1197.	7556.	0.	0.	7556.	2111.9	403.	7959.
22	1156.	7446.	0.	0.	7446.	2109.1	401.	7847.
23	1106.	6983.	0.	0.	6983.	2106.5	394.	7377.
24	1106.	6676.	0.	0.	6676.	2104.0	394.	7070.
25	1106.	6356.	0.	0.	6356.	2101.6	394.	6750.
26	1106.	6196.	0.	0.	6196.	2099.2	394.	6590.
27	1149.	6071.	0.	0.	6071.	2096.6	451.	6522.
28	1149.	5825.	0.	0.	5825.	2094.1	451.	6276.
29	1211.	5588.	0.	0.	5588.	2091.7	475.	6063.
30	1272.	5309.	0.	0.	5309.	2089.6	499.	5808.
31	1314.	5043.	0.	0.	5043.	2087.6	657.	5700.
32	2267.	4984.	0.	0.	4984.	2086.2	1190.	6174.
33	8205.	5233.	0.	0.	5233.	2087.7	4309.	9542.
34	12588.	5494.	0.	0.	5494.	2091.5	6612.	12106.
35	19531.	5769.	0.	0.	5769.	2098.9	9669.	15438.
36	29414.	5658.	0.	0.	5658.	2109.7	5543.	11201.
37	38957.	5490.	0.	0.	5490.	2124.8	7343.	12833.
38	31928.	6657.	0.	0.	6657.	2136.1	6015.	12672.
39	28489.	7080.	0.	0.	7080.	2145.8	5368.	12448.
40	18502.	6738.	0.	0.	6738.	2150.9	3212.	9950.
41	20572.	6657.	0.	0.	6657.	2156.2	3571.	10228.
42	21740.	6573.	0.	0.	6573.	2161.9	3774.	10347.
43	18089.	6536.	0.	0.	6536.	2166.3	3140.	9676.
44	19531.	6746.	0.	0.	6746.	2171.2	2755.	9501.
45	18939.	6708.	0.	0.	6708.	2175.8	2390.	9098.
46	17328.	6786.	28.	0.	6814.	2179.8	2186.	9000.
47	17519.	6865.	0.	0.	6865.	2183.9	2210.	9075.
48	11066.	7070.	0.	1012.	8082.	2185.0	1448.	9530.
49	8643.	7287.	0.	1356.	8643.	2185.0	1720.	10363.
50	12235.	7469.	0.	4766.	12235.	2185.0	2436.	14671.
51	11736.	7640.	0.	4097.	11736.	2185.0	2335.	14071.
52	9877.	7761.	0.	2116.	9877.	2185.0	1963.	11842.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
			ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1978 1	6782.	8028.	0.	0.	8028.	2184.5	2047.	10075.
2	6882.	8027.	0.	0.	8027.	2184.1	2075.	10102.
3	6046.	8604.	0.	0.	8604.	2183.1	1825.	10429.
4	4510.	9167.	0.	0.	9167.	2181.4	1361.	10528.
5	3355.	9700.	0.	0.	9700.	2178.9	1131.	10831.
6	2862.	8591.	0.	0.	8591.	2176.8	967.	9558.
7	2578.	9048.	0.	0.	9048.	2174.3	872.	9920.
8	2392.	9537.	0.	0.	9537.	2171.6	808.	10345.
9	2223.	10025.	0.	0.	10025.	2168.6	741.	10766.
10	2108.	12278.	0.	0.	12278.	2164.8	649.	12927.
11	2015.	12583.	0.	0.	12583.	2160.8	621.	13204.
12	1955.	12250.	0.	0.	12250.	2156.8	602.	12852.
13	1808.	11613.	0.	0.	11613.	2153.1	556.	12169.
14	1741.	11305.	0.	0.	11305.	2149.4	495.	11800.
15	1641.	11316.	0.	0.	11316.	2145.0	466.	11782.
16	1557.	11336.	0.	0.	11336.	2140.6	443.	11779.
17	1496.	11358.	0.	0.	11358.	2136.2	425.	11783.
18	1403.	11373.	0.	0.	11373.	2131.7	404.	11777.
19	1285.	11445.	0.	0.	11445.	2127.2	415.	11860.
20	1247.	11440.	0.	0.	11440.	2122.6	403.	11843.
21	1247.	11334.	0.	0.	11334.	2118.0	403.	11737.
22	1212.	11168.	0.	0.	11168.	2113.6	388.	11556.
23	1258.	10475.	0.	0.	10475.	2109.4	342.	10817.
24	1258.	10014.	0.	0.	10014.	2105.5	342.	10356.
25	1258.	9534.	0.	0.	9534.	2101.7	342.	9876.
26	1275.	9294.	0.	0.	9294.	2097.8	346.	9640.
27	1251.	9107.	0.	0.	9107.	2093.6	399.	9506.
28	1251.	8737.	0.	0.	8737.	2089.6	399.	9136.
29	1251.	8382.	0.	0.	8382.	2085.8	399.	8781.
30	1322.	7963.	0.	0.	7963.	2082.3	421.	8384.
31	3355.	7565.	0.	0.	7565.	2080.1	288.	7853.
32	11862.	6230.	0.	0.	6230.	2083.1	695.	6925.
33	16195.	6541.	0.	0.	6541.	2088.2	948.	7489.
34	10959.	6868.	0.	0.	6868.	2090.4	641.	7509.
35	11660.	7211.	0.	0.	7211.	2092.7	711.	7922.
36	13979.	7072.	0.	0.	7072.	2096.4	1407.	8479.
37	19417.	6862.	0.	0.	6862.	2102.6	1954.	8816.
38	16614.	6657.	0.	0.	6657.	2107.1	1672.	8329.
39	20703.	5917.	0.	0.	5917.	2113.7	2083.	8000.
40	19608.	5294.	0.	0.	5294.	2120.2	2706.	8000.
41	18215.	5486.	0.	0.	5486.	2125.9	2514.	8000.
42	18416.	5459.	0.	0.	5459.	2131.7	2541.	8000.
43	18064.	5507.	0.	0.	5507.	2137.4	2493.	8000.
44	16600.	4845.	0.	0.	4845.	2142.7	3614.	8459.
45	15674.	4826.	0.	0.	4826.	2147.6	3440.	8266.
46	14572.	4907.	0.	0.	4907.	2151.6	3199.	8106.
47	12160.	5331.	0.	0.	5331.	2154.2	2669.	8000.
48	8756.	6070.	0.	0.	6070.	2155.2	1930.	8000.
49	9287.	6073.	0.	0.	6073.	2156.4	1927.	8000.
50	8372.	5476.	0.	0.	5476.	2157.5	1737.	7213.
51	6293.	5617.	0.	0.	5617.	2157.8	1306.	6923.
52	4696.	5536.	0.	0.	5536.	2157.4	975.	6511.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1979 1	4195.	5352.	0.	0.	5352.	2157.0	1221.	6573.
2	4701.	5351.	0.	0.	5351.	2156.7	1368.	6719.
3	3796.	5736.	0.	0.	5736.	2156.0	1105.	6841.
4	2849.	6111.	0.	0.	6111.	2154.8	830.	6941.
5	2736.	6466.	0.	0.	6466.	2153.4	841.	7307.
6	2368.	6873.	0.	0.	6873.	2151.6	758.	7631.
7	1774.	7238.	0.	0.	7238.	2149.5	569.	7807.
8	1558.	7630.	0.	0.	7630.	2146.8	499.	8129.
9	1502.	8020.	0.	0.	8020.	2143.8	469.	8489.
10	1483.	8526.	0.	0.	8526.	2140.7	417.	8943.
11	1349.	8770.	0.	0.	8770.	2137.3	380.	9150.
12	1214.	8470.	0.	0.	8470.	2134.1	343.	8813.
13	1170.	7904.	0.	0.	7904.	2131.0	330.	8234.
14	1185.	7618.	0.	0.	7618.	2128.1	272.	7890.
15	1138.	7616.	0.	0.	7616.	2125.2	262.	7878.
16	1138.	7605.	0.	0.	7605.	2122.3	262.	7867.
17	1138.	7618.	0.	0.	7618.	2119.4	262.	7880.
18	1059.	7606.	0.	0.	7606.	2116.5	241.	7847.
19	1067.	7634.	0.	0.	7634.	2113.5	233.	7867.
20	1067.	7634.	0.	0.	7634.	2110.5	233.	7867.
21	1067.	7556.	0.	0.	7556.	2107.6	233.	7789.
22	989.	7446.	0.	0.	7446.	2104.7	211.	7657.
23	1113.	6983.	0.	0.	6983.	2102.1	87.	7070.
24	1113.	6676.	0.	0.	6676.	2099.5	87.	6763.
25	1113.	6356.	0.	0.	6356.	2096.7	87.	6443.
26	1113.	6196.	0.	0.	6196.	2094.0	87.	6283.
27	1064.	6071.	0.	0.	6071.	2091.3	136.	6207.
28	1113.	5825.	0.	0.	5825.	2088.8	144.	5969.
29	1228.	5588.	0.	0.	5588.	2086.5	158.	5746.
30	1545.	5309.	0.	0.	5309.	2084.5	198.	5507.
31	2451.	5043.	0.	0.	5043.	2083.1	292.	5335.
32	4633.	4984.	0.	0.	4984.	2082.9	510.	5494.
33	10811.	5233.	0.	0.	5233.	2085.9	1189.	6422.
34	17246.	5494.	0.	0.	5494.	2092.2	1897.	7391.
35	28470.	5769.	0.	0.	5769.	2103.6	3201.	8970.
36	25470.	6984.	0.	0.	6984.	2111.9	2016.	9000.
37	21379.	7308.	0.	0.	7308.	2118.2	1692.	9000.
38	19302.	7470.	3.	0.	7473.	2123.6	1527.	9000.
39	23880.	7109.	0.	0.	7109.	2131.1	1891.	9000.
40	22832.	6883.	0.	0.	6883.	2138.3	3539.	10422.
41	22584.	6768.	0.	0.	6768.	2145.4	3502.	10270.
42	27495.	6655.	0.	0.	6655.	2154.0	4262.	10917.
43	28100.	6588.	0.	0.	6588.	2162.2	4357.	10945.
44	21732.	6778.	0.	0.	6778.	2167.9	4782.	11560.
45	20346.	6735.	0.	0.	6735.	2173.0	4454.	11189.
46	16431.	6811.	0.	0.	6811.	2176.7	3598.	10409.
47	13993.	6898.	0.	0.	6898.	2179.4	3064.	9962.
48	12415.	7103.	0.	0.	7103.	2181.4	2756.	9859.
49	7911.	7315.	0.	0.	7315.	2181.6	1536.	8851.
50	7704.	7486.	0.	0.	7486.	2181.7	1499.	8985.
51	11339.	7652.	0.	0.	7652.	2183.1	2204.	9856.
52	8978.	7769.	0.	0.	7769.	2183.6	1744.	9513.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1980 1	6672.	8028.	0.	0.	8028.	2183.1	1218.	9246.
2	8469.	6689.	0.	0.	6689.	2183.8	1545.	8234.
3	5948.	7170.	0.	0.	7170.	2183.3	1086.	8256.
4	4395.	7639.	0.	0.	7639.	2182.1	802.	8441.
5	4084.	8083.	0.	0.	8083.	2180.6	787.	8870.
6	3698.	8591.	0.	0.	8591.	2178.7	726.	9317.
7	4120.	9048.	0.	0.	9048.	2176.9	809.	9857.
8	2949.	11230.	0.	0.	11230.	2173.7	580.	11810.
9	2811.	11671.	0.	0.	11671.	2170.3	546.	12217.
10	2297.	12250.	0.	0.	12250.	2166.6	446.	12696.
11	2069.	12553.	0.	0.	12553.	2162.6	402.	12955.
12	1890.	12220.	0.	0.	12220.	2158.7	367.	12587.
13	1711.	11585.	0.	0.	11585.	2154.9	332.	11917.
14	1607.	11278.	0.	0.	11278.	2151.2	307.	11585.
15	1535.	11287.	0.	0.	11287.	2147.1	294.	11581.
16	1451.	11299.	0.	0.	11299.	2142.6	278.	11577.
17	1379.	11322.	0.	0.	11322.	2138.2	264.	11586.
18	1345.	11337.	0.	0.	11337.	2133.7	255.	11592.
19	1285.	11408.	0.	0.	11408.	2129.1	244.	11652.
20	1224.	11403.	0.	0.	11403.	2124.5	233.	11636.
21	1176.	11334.	0.	0.	11334.	2120.0	224.	11558.
22	1175.	11168.	0.	0.	11168.	2115.5	225.	11393.
23	1177.	10475.	0.	0.	10475.	2111.3	223.	10698.
24	1177.	10014.	0.	0.	10014.	2107.3	223.	10237.
25	1177.	9534.	0.	0.	9534.	2103.6	223.	9757.
26	1177.	9294.	0.	0.	9294.	2099.9	223.	9517.
27	1122.	9107.	0.	0.	9107.	2095.7	278.	9385.
28	1122.	8737.	0.	0.	8737.	2091.6	278.	9015.
29	1179.	8382.	0.	0.	8382.	2087.8	292.	8674.
30	1604.	7963.	0.	0.	7963.	2084.4	396.	8359.
31	3462.	7565.	0.	0.	7565.	2082.2	681.	8246.
32	8212.	6230.	0.	0.	6230.	2083.2	1502.	7732.
33	11764.	6541.	0.	0.	6541.	2086.0	2150.	8691.
34	10518.	6868.	0.	0.	6868.	2088.0	1925.	8793.
35	16714.	7211.	0.	0.	7211.	2093.0	3129.	10340.
36	25823.	7072.	0.	0.	7072.	2102.5	6320.	13392.
37	20349.	6862.	0.	0.	6862.	2108.6	4980.	11842.
38	26351.	6657.	0.	0.	6657.	2117.5	6449.	13106.
39	22988.	6408.	0.	0.	6408.	2124.9	5626.	12034.
40	26281.	6061.	0.	0.	6061.	2134.0	5062.	11123.
41	26663.	5954.	0.	0.	5954.	2143.3	5137.	11091.
42	28137.	6671.	0.	0.	6671.	2152.5	5420.	12091.
43	25275.	6605.	0.	0.	6605.	2159.6	4868.	11473.
44	28150.	6790.	0.	0.	6790.	2167.7	4864.	11654.
45	19051.	6738.	0.	0.	6738.	2172.4	4149.	10887.
46	18006.	6814.	0.	0.	6814.	2176.7	3923.	10737.
47	16331.	6894.	0.	0.	6894.	2180.2	3555.	10449.
48	11948.	7097.	0.	0.	7097.	2182.1	2509.	9606.
49	8723.	7307.	0.	0.	7307.	2182.6	1847.	9154.
50	9329.	7474.	0.	0.	7474.	2183.3	1975.	9449.
51	15679.	7647.	0.	3638.	11284.	2185.0	3321.	14605.
52	10243.	7762.	0.	2481.	10243.	2185.0	2170.	12413.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1981 1	8532.	8216.	0.	316.	8532.	2185.0	1317.	9849.
2	7605.	8027.	0.	0.	8027.	2184.8	1174.	9201.
3	6326.	8604.	0.	0.	8604.	2184.0	977.	9581.
4	5214.	9167.	0.	0.	9167.	2182.5	805.	9972.
5	3950.	9700.	0.	0.	9700.	2180.3	707.	10407.
6	3534.	10309.	0.	0.	10309.	2177.7	677.	10986.
7	2637.	10811.	0.	0.	10811.	2174.6	506.	11317.
8	2685.	11263.	0.	0.	11263.	2171.4	515.	11778.
9	2707.	11707.	0.	0.	11707.	2167.9	493.	12200.
10	2175.	12289.	0.	0.	12289.	2164.1	139.	12428.
11	1678.	12595.	0.	0.	12595.	2159.9	108.	12703.
12	1578.	12264.	0.	0.	12264.	2155.9	101.	12365.
13	1516.	11629.	0.	0.	11629.	2152.0	98.	11727.
14	1448.	11324.	0.	0.	11324.	2148.0	123.	11447.
15	1684.	11341.	0.	0.	11341.	2143.6	145.	11486.
16	1961.	11360.	0.	0.	11360.	2139.4	168.	11528.
17	2118.	11378.	0.	0.	11378.	2135.2	182.	11560.
18	2142.	11388.	0.	0.	11388.	2131.1	187.	11575.
19	1911.	11450.	0.	0.	11450.	2126.8	503.	11953.
20	1594.	11445.	0.	0.	11445.	2122.4	420.	11865.
21	1265.	11334.	0.	0.	11334.	2117.8	335.	11669.
22	1190.	11168.	0.	0.	11168.	2113.3	310.	11478.
23	1194.	10475.	0.	0.	10475.	2109.2	306.	10781.
24	1274.	10014.	0.	0.	10014.	2105.2	326.	10340.
25	1297.	9534.	0.	0.	9534.	2101.5	332.	9866.
26	1314.	9294.	0.	0.	9294.	2097.6	336.	9630.
27	1238.	9107.	0.	0.	9107.	2093.4	462.	9569.
28	1291.	8737.	0.	0.	8737.	2089.4	480.	9217.
29	1373.	8382.	0.	0.	8382.	2085.7	513.	8895.
30	1779.	7963.	0.	0.	7963.	2082.4	664.	8627.
31	4737.	7565.	0.	0.	7565.	2080.9	886.	8451.
32	17566.	6230.	0.	0.	6230.	2086.9	2834.	9064.
33	17640.	6541.	0.	0.	6541.	2092.8	2846.	9387.
34	11625.	6868.	0.	0.	6868.	2095.4	1875.	8743.
35	19077.	7211.	0.	0.	7211.	2101.4	2866.	10077.
36	16465.	7072.	0.	0.	7072.	2105.6	2164.	9236.
37	14949.	7035.	0.	0.	7035.	2109.2	1965.	9000.
38	16085.	6885.	0.	0.	6885.	2113.3	2115.	9000.
39	18788.	6531.	0.	0.	6531.	2118.9	2469.	9000.
40	14090.	6061.	0.	0.	6061.	2122.5	3739.	9800.
41	33261.	5954.	0.	0.	5954.	2134.7	8825.	14779.
42	32516.	5873.	0.	0.	5873.	2146.7	8627.	14500.
43	29007.	5838.	0.	0.	5838.	2156.0	7693.	13531.
44	31168.	6817.	0.	0.	6817.	2165.3	7432.	14249.
45	30077.	6741.	0.	0.	6741.	2174.2	6080.	12821.
46	38871.	6781.	0.	3537.	10318.	2185.0	7858.	18176.
47	30803.	6892.	0.	23911.	30803.	2185.0	6226.	37029.
48	20647.	7096.	0.	13551.	20647.	2185.0	4324.	24971.
49	15158.	7304.	0.	7855.	15158.	2185.0	2828.	17986.
50	12220.	7469.	0.	4751.	12220.	2185.0	2280.	14500.
51	10197.	7636.	0.	2561.	10197.	2185.0	1903.	12100.
52	8299.	7755.	0.	544.	8299.	2185.0	1550.	9849.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1982 1	5901.	8028.	0.	0.	8028.	2184.2	1740.	9768.
2	5560.	8027.	0.	0.	8027.	2183.3	1640.	9667.
3	5713.	8604.	0.	0.	8604.	2182.2	1686.	10290.
4	6627.	9167.	0.	0.	9167.	2181.2	1954.	11121.
5	3364.	8083.	0.	0.	8083.	2179.4	1248.	9331.
6	2845.	8591.	0.	0.	8591.	2177.2	1098.	9689.
7	2782.	9048.	0.	0.	9048.	2174.8	1075.	10123.
8	2339.	9537.	0.	0.	9537.	2172.1	904.	10441.
9	2057.	11698.	0.	0.	11698.	2168.4	771.	12469.
10	1971.	12281.	0.	0.	12281.	2164.5	558.	12839.
11	1860.	12587.	0.	0.	12587.	2160.4	525.	13112.
12	1794.	12255.	0.	0.	12255.	2156.5	506.	12761.
13	1794.	11619.	0.	0.	11619.	2152.7	506.	12125.
14	1697.	11312.	0.	0.	11312.	2148.9	603.	11915.
15	1695.	11323.	0.	0.	11323.	2144.6	605.	11928.
16	1695.	11343.	0.	0.	11343.	2140.3	605.	11948.
17	1695.	11364.	0.	0.	11364.	2135.9	605.	11969.
18	1729.	11377.	0.	0.	11377.	2131.6	585.	11962.
19	1662.	11446.	0.	0.	11446.	2127.2	695.	12141.
20	1213.	11440.	0.	0.	11440.	2122.6	508.	11948.
21	881.	11334.	0.	0.	11334.	2117.9	369.	11703.
22	767.	11168.	0.	0.	11168.	2113.2	333.	11501.
23	826.	10475.	0.	0.	10475.	2108.8	274.	10749.
24	826.	10014.	0.	0.	10014.	2104.7	274.	10288.
25	874.	9534.	0.	0.	9534.	2100.8	290.	9824.
26	1123.	9294.	0.	0.	9294.	2096.6	374.	9668.
27	956.	9107.	0.	0.	9107.	2092.3	544.	9651.
28	956.	7281.	0.	0.	7281.	2088.9	544.	7825.
29	1057.	6985.	0.	0.	6985.	2085.8	600.	7585.
30	1403.	6636.	0.	0.	6636.	2083.0	797.	7433.
31	2641.	6304.	0.	0.	6304.	2081.0	745.	7049.
32	6274.	6230.	0.	0.	6230.	2081.0	1826.	8056.
33	11618.	6541.	0.	0.	6541.	2083.7	3382.	9923.
34	15603.	6868.	0.	0.	6868.	2088.4	4540.	11408.
35	17916.	7211.	0.	0.	7211.	2094.1	4798.	12009.
36	21638.	7072.	0.	0.	7072.	2101.6	4505.	11577.
37	18090.	6862.	0.	0.	6862.	2106.6	3767.	10629.
38	23883.	6657.	0.	0.	6657.	2114.4	4974.	11631.
39	23173.	6408.	0.	0.	6408.	2121.9	4827.	11235.
40	16689.	6189.	0.	0.	6189.	2126.6	2811.	9000.
41	20637.	5954.	0.	0.	5954.	2133.2	3477.	9431.
42	20979.	5873.	0.	0.	5873.	2140.0	3535.	9408.
43	23533.	5838.	0.	0.	5838.	2148.0	3967.	9805.
44	20306.	6056.	0.	0.	6056.	2153.7	3351.	9407.
45	13970.	6341.	0.	0.	6341.	2156.6	2659.	9000.
46	12157.	6686.	0.	0.	6686.	2158.7	2314.	9000.
47	10610.	6981.	0.	0.	6981.	2160.1	2019.	9000.
48	11835.	6821.	0.	0.	6821.	2162.0	2179.	9000.
49	10670.	5334.	0.	0.	5334.	2164.0	2816.	8150.
50	13360.	5476.	0.	0.	5476.	2167.0	3526.	9002.
51	21010.	5617.	0.	0.	5617.	2172.8	5547.	11164.
52	11582.	5536.	0.	0.	5536.	2175.5	3056.	8592.

TABLE 5

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
1983 1	7782.	5352.	0.	0.	5352.	2176.4	2647.	7999.
2	6119.	5351.	0.	0.	5351.	2176.7	2082.	7433.
3	4982.	5736.	0.	0.	5736.	2176.4	1695.	7431.
4	2921.	6111.	0.	0.	6111.	2175.2	993.	7104.
5	2384.	6466.	0.	0.	6466.	2173.6	587.	7053.
6	2252.	6873.	0.	0.	6873.	2171.9	534.	7407.
7	2137.	9048.	0.	0.	9048.	2169.2	506.	9554.
8	1997.	9537.	0.	0.	9537.	2166.4	474.	10011.
9	1944.	10025.	0.	0.	10025.	2163.3	456.	10481.
10	1850.	10657.	0.	0.	10657.	2160.0	451.	11108.
11	1850.	10963.	0.	0.	10963.	2156.5	450.	11413.
12	1850.	10587.	0.	0.	10587.	2153.2	450.	11037.
13	1965.	9880.	0.	0.	9880.	2150.2	478.	10358.
14	2201.	9522.	0.	0.	9522.	2146.9	570.	10092.
15	1906.	9520.	0.	0.	9520.	2143.5	494.	10014.
16	1690.	9506.	0.	0.	9506.	2140.0	439.	9945.
17	1588.	9522.	0.	0.	9522.	2136.4	412.	9934.
18	1553.	9508.	0.	0.	9508.	2132.8	404.	9912.
19	1535.	9542.	0.	0.	9542.	2129.2	365.	9907.
20	1650.	9542.	0.	0.	9542.	2125.7	393.	9935.
21	1685.	9445.	0.	0.	9445.	2122.2	401.	9846.
22	1583.	9307.	0.	0.	9307.	2118.7	374.	9681.
23	1534.	8729.	0.	0.	8729.	2115.5	280.	9009.
24	1437.	8345.	0.	0.	8345.	2112.4	263.	8608.
25	1389.	7945.	0.	0.	7945.	2109.4	254.	8199.
26	1280.	7745.	0.	0.	7745.	2106.5	234.	7979.
27	1185.	7589.	0.	0.	7589.	2103.6	315.	7904.
28	1208.	7281.	0.	0.	7281.	2100.9	321.	7602.
29	1411.	6985.	0.	0.	6985.	2098.1	375.	7360.
30	1907.	6636.	0.	0.	6636.	2095.6	507.	7143.
31	3484.	6304.	0.	0.	6304.	2094.1	1102.	7406.
32	8419.	6230.	0.	0.	6230.	2095.3	2667.	8897.
33	14537.	6541.	0.	0.	6541.	2099.5	4606.	11147.
34	12909.	6868.	0.	0.	6868.	2102.3	4091.	10959.
35	18671.	7211.	0.	0.	7211.	2107.5	5472.	12683.
36	23758.	7072.	0.	0.	7072.	2115.0	3585.	10657.
37	17019.	6862.	0.	0.	6862.	2119.5	2567.	9429.
38	20754.	6657.	0.	0.	6657.	2125.9	3132.	9789.
39	20568.	7221.	0.	0.	7221.	2131.9	3103.	10324.
40	22463.	6875.	0.	0.	6875.	2138.9	2908.	9783.
41	19352.	6769.	0.	0.	6769.	2144.5	2505.	9274.
42	16152.	6684.	225.	0.	6909.	2148.7	2091.	9000.
43	17431.	6652.	93.	0.	6745.	2153.0	2255.	9000.
44	17935.	6868.	0.	0.	6868.	2157.2	3079.	9947.
45	22829.	6826.	0.	0.	6826.	2163.2	3757.	10583.
46	21149.	6890.	0.	0.	6890.	2168.7	3480.	10370.
47	18683.	6962.	0.	0.	6962.	2173.1	3074.	10036.
48	22728.	7143.	0.	0.	7143.	2179.0	3801.	10944.
49	15528.	7323.	0.	0.	7323.	2182.2	3429.	10752.
50	9607.	7478.	0.	0.	7478.	2183.0	2122.	9600.
51	8465.	7645.	0.	0.	7645.	2183.3	1869.	9514.
52	9728.	7766.	0.	0.	7766.	2184.1	2149.	9915.

**TABLE 6**

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1951 1	4521.	5352.	0.	0.	5352.	2169.3	12656.	18008.
2	4029.	5351.	0.	0.	5351.	2168.8	10130.	15481.
3	3518.	5736.	0.	0.	5736.	2167.9	7488.	13224.
4	2007.	6111.	0.	0.	6111.	2166.4	5072.	11183.
5	1248.	6466.	0.	0.	6466.	2164.4	3946.	10412.
6	1176.	6873.	0.	0.	6873.	2162.2	3056.	9929.
7	1103.	7238.	0.	0.	7238.	2159.9	2759.	9997.
8	1042.	7630.	0.	0.	7630.	2157.4	2784.	10414.
9	994.	8020.	0.	0.	8020.	2154.7	2811.	10831.
10	903.	8526.	0.	0.	8526.	2151.8	2701.	11227.
11	903.	8770.	0.	0.	8770.	2148.6	2487.	11257.
12	903.	8470.	0.	0.	8470.	2145.2	2210.	10680.
13	903.	7904.	0.	0.	7904.	2142.1	2151.	10055.
14	828.	7618.	0.	0.	7618.	2139.0	2357.	9975.
15	812.	7616.	0.	0.	7616.	2136.0	2241.	9857.
16	812.	7605.	0.	0.	7605.	2132.9	2477.	10082.
17	812.	7618.	0.	0.	7618.	2129.8	2541.	10159.
18	757.	7606.	0.	0.	7606.	2126.8	2327.	9933.
19	667.	7634.	0.	0.	7634.	2123.6	2288.	9922.
20	667.	7634.	0.	0.	7634.	2120.5	2088.	9722.
21	667.	7556.	0.	0.	7556.	2117.4	2039.	9595.
22	641.	7446.	0.	0.	7446.	2114.3	1663.	9109.
23	618.	6983.	0.	0.	6983.	2111.5	1449.	8432.
24	618.	6676.	0.	0.	6676.	2108.8	1419.	8095.
25	618.	6356.	0.	0.	6356.	2106.2	1429.	7785.
26	618.	6196.	0.	0.	6196.	2103.7	1425.	7621.
27	542.	6071.	0.	0.	6071.	2101.2	1477.	7548.
28	700.	5825.	0.	0.	5825.	2098.7	1756.	7581.
29	1071.	5588.	0.	0.	5588.	2096.3	2590.	8178.
30	1861.	5309.	0.	0.	5309.	2094.4	3946.	9255.
31	4923.	5043.	0.	0.	5043.	2094.4	6682.	11725.
32	14338.	4984.	0.	0.	4984.	2099.3	15115.	20099.
33	15945.	5233.	0.	0.	5233.	2104.3	15674.	20907.
34	7915.	6868.	0.	0.	6868.	2104.7	12755.	19623.
35	13828.	7211.	0.	0.	7211.	2107.7	19519.	26730.
36	26696.	7072.	0.	0.	7072.	2116.5	29862.	36934.
37	19247.	7604.	0.	0.	7604.	2121.8	38478.	46082.
38	12238.	7447.	248.	0.	7695.	2123.8	27138.	34833.
39	17232.	7255.	0.	0.	7255.	2128.3	32997.	40252.
40	18464.	6926.	0.	0.	6926.	2133.5	37788.	44714.
41	21682.	6823.	0.	0.	6823.	2140.2	45947.	52770.
42	20740.	6716.	0.	0.	6716.	2146.5	45179.	51895.
43	19074.	6667.	0.	0.	6667.	2151.7	38496.	45163.
44	17891.	6879.	0.	0.	6879.	2155.9	37873.	44752.
45	14413.	6851.	0.	0.	6851.	2158.8	37233.	44084.
46	15312.	6134.	0.	0.	6134.	2162.3	30524.	36658.
47	14985.	6223.	0.	0.	6223.	2165.6	25530.	31753.
48	21048.	6458.	0.	0.	6458.	2171.2	32644.	39102.
49	24531.	6668.	0.	0.	6668.	2177.9	34934.	41602.
50	15237.	6845.	0.	0.	6845.	2181.1	22590.	29435.
51	15738.	7021.	0.	0.	7021.	2184.4	19772.	26793.
52	13323.	7769.	0.	4253.	12022.	2185.0	18898.	30920.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
			ENVIRON. RELEASE  (CFS)	VALVE EXCESS RELEASE  (CFS)				
1952 1	7559.	8028.	0.	0.	8028.	2184.8	12746.	20774.
2	5055.	8027.	0.	0.	8027.	2183.7	9582.	17609.
3	3674.	8604.	0.	0.	8604.	2181.8	7263.	15867.
4	2855.	7639.	0.	0.	7639.	2180.0	6751.	14390.
5	2793.	8083.	0.	0.	8083.	2178.0	7056.	15139.
6	2609.	8591.	0.	0.	8591.	2175.7	5777.	14368.
7	1928.	9048.	0.	0.	9048.	2173.0	4641.	13689.
8	1908.	9537.	0.	0.	9537.	2170.1	4230.	13767.
9	1761.	10025.	0.	0.	10025.	2167.0	3827.	13852.
10	1489.	10657.	0.	0.	10657.	2163.5	3742.	14399.
11	1489.	10963.	0.	0.	10963.	2159.9	3927.	14890.
12	1489.	10587.	0.	0.	10587.	2156.4	3854.	14441.
13	1489.	9880.	0.	0.	9880.	2153.3	3607.	13487.
14	1329.	9522.	0.	0.	9522.	2150.1	3018.	12540.
15	1299.	9520.	0.	0.	9520.	2146.5	2723.	12243.
16	1299.	9506.	0.	0.	9506.	2142.8	2716.	12222.
17	1299.	9522.	0.	0.	9522.	2139.1	2613.	12135.
18	1069.	9508.	0.	0.	9508.	2135.3	2321.	11829.
19	819.	9542.	0.	0.	9542.	2131.4	1717.	11259.
20	819.	9542.	0.	0.	9542.	2127.4	1669.	11211.
21	819.	9445.	0.	0.	9445.	2123.6	1490.	10935.
22	784.	9307.	0.	0.	9307.	2119.7	1454.	10761.
23	730.	8729.	0.	0.	8729.	2116.1	1530.	10259.
24	730.	8345.	0.	0.	8345.	2112.7	1576.	9921.
25	730.	7945.	0.	0.	7945.	2109.5	1687.	9632.
26	730.	7745.	0.	0.	7745.	2106.3	1864.	9609.
27	796.	7589.	0.	0.	7589.	2103.3	1849.	9438.
28	796.	7281.	0.	0.	7281.	2100.3	1640.	8921.
29	796.	6985.	0.	0.	6985.	2097.1	1677.	8662.
30	796.	6636.	0.	0.	6636.	2094.0	2144.	8780.
31	909.	6304.	0.	0.	6304.	2091.1	2999.	9303.
32	1132.	6230.	0.	0.	6230.	2088.4	4169.	10399.
33	1549.	6541.	0.	0.	6541.	2085.7	6321.	12862.
34	3357.	6868.	0.	0.	6868.	2083.9	10091.	16959.
35	16784.	7211.	0.	0.	7211.	2089.0	37752.	44963.
36	19892.	7072.	0.	0.	7072.	2095.8	44630.	51702.
37	28174.	6862.	0.	0.	6862.	2106.0	61089.	67951.
38	30555.	6657.	0.	0.	6657.	2116.8	55185.	61842.
39	27039.	6408.	0.	0.	6408.	2126.1	56141.	62549.
40	23527.	6061.	0.	0.	6061.	2133.9	50310.	56371.
41	16714.	6085.	0.	0.	6085.	2138.7	43467.	49552.
42	21361.	5873.	0.	0.	5873.	2145.7	51305.	57178.
43	23150.	5838.	0.	0.	5838.	2152.9	48112.	53950.
44	30727.	6056.	0.	0.	6056.	2162.3	57999.	64055.
45	19888.	6785.	0.	0.	6785.	2167.3	47052.	53837.
46	15618.	6864.	0.	0.	6864.	2170.6	39015.	45879.
47	11855.	6956.	0.	0.	6956.	2172.4	30627.	37583.
48	13935.	7164.	0.	0.	7164.	2175.0	30577.	37741.
49	15561.	6668.	0.	0.	6668.	2178.4	30171.	36839.
50	10522.	6845.	0.	0.	6845.	2179.8	23809.	30654.
51	9086.	7021.	0.	0.	7021.	2180.6	18744.	25765.
52	10876.	6920.	0.	0.	6920.	2182.3	28800.	35720.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1953 1	8559.	6690.	0.	0.	6690.	2183.0	21410.	28100.
2	7982.	6689.	0.	0.	6689.	2183.5	19830.	26519.
3	5556.	7170.	0.	0.	7170.	2182.9	12823.	19993.
4	4049.	7639.	0.	0.	7639.	2181.5	7712.	15351.
5	3948.	8083.	0.	0.	8083.	2180.0	6215.	14298.
6	3377.	8591.	0.	0.	8591.	2178.0	5122.	13713.
7	2164.	9048.	0.	0.	9048.	2175.4	4258.	13306.
8	2652.	11253.	0.	0.	11253.	2172.1	4632.	15885.
9	1913.	11698.	0.	0.	11698.	2168.4	3781.	15479.
10	1250.	12285.	0.	0.	12285.	2164.2	2782.	15067.
11	1250.	12595.	0.	0.	12595.	2159.9	2789.	15384.
12	1250.	12266.	0.	0.	12266.	2155.7	2863.	15129.
13	1250.	11633.	0.	0.	11633.	2151.7	2815.	14448.
14	880.	11331.	0.	0.	11331.	2147.4	2461.	13792.
15	820.	11355.	0.	0.	11355.	2142.6	2270.	13625.
16	820.	11383.	0.	0.	11383.	2137.9	2192.	13575.
17	820.	11412.	0.	0.	11412.	2133.1	2047.	13459.
18	722.	11410.	0.	0.	11410.	2128.3	1891.	13301.
19	598.	11450.	0.	0.	11450.	2123.4	1710.	13160.
20	598.	11450.	0.	0.	11450.	2118.5	1708.	13158.
21	598.	11334.	0.	0.	11334.	2113.7	1646.	12980.
22	606.	11168.	0.	0.	11168.	2109.0	1581.	12749.
23	678.	8729.	0.	0.	8729.	2105.3	1545.	10274.
24	678.	8345.	0.	0.	8345.	2101.9	1484.	9829.
25	678.	7945.	0.	0.	7945.	2098.4	1510.	9455.
26	678.	7745.	0.	0.	7745.	2094.6	1518.	9263.
27	486.	6071.	0.	0.	6071.	2091.6	1840.	7911.
28	486.	5825.	0.	0.	5825.	2088.8	2086.	7911.
29	785.	5588.	0.	0.	5588.	2086.2	3109.	8697.
30	1308.	5309.	0.	0.	5309.	2084.1	4919.	10228.
31	10007.	5043.	0.	0.	5043.	2086.7	13812.	18855.
32	13666.	4984.	0.	0.	4984.	2091.4	21224.	26208.
33	12435.	5233.	0.	0.	5233.	2095.2	20794.	26027.
34	21448.	5494.	0.	0.	5494.	2103.1	39330.	44824.
35	16652.	5769.	0.	0.	5769.	2108.0	34118.	39887.
36	27821.	7072.	0.	0.	7072.	2117.4	45424.	52496.
37	21482.	7587.	0.	0.	7587.	2123.6	45394.	52981.
38	17488.	7408.	0.	0.	7408.	2128.1	38666.	46074.
39	20466.	7195.	0.	0.	7195.	2134.1	42109.	49304.
40	17377.	6863.	0.	0.	6863.	2138.8	34023.	40886.
41	15695.	6779.	0.	0.	6779.	2142.8	33110.	39889.
42	17070.	6696.	0.	0.	6696.	2147.5	33747.	40443.
43	17745.	6661.	0.	0.	6661.	2152.1	34442.	41103.
44	20931.	6871.	0.	0.	6871.	2157.4	39027.	45898.
45	17859.	6832.	0.	0.	6832.	2161.6	35296.	42128.
46	14312.	6917.	0.	0.	6917.	2164.4	28300.	35217.
47	14731.	6223.	0.	0.	6223.	2167.7	30882.	37105.
48	17519.	6458.	0.	0.	6458.	2171.9	31635.	38093.
49	14058.	6668.	0.	0.	6668.	2174.7	36934.	43602.
50	12806.	6845.	0.	0.	6845.	2176.9	33133.	39978.
51	10679.	7021.	0.	0.	7021.	2178.3	23572.	30593.
52	8137.	6920.	0.	0.	6920.	2178.9	16513.	23433.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1954 1	6126.	6690.	0.	0.	6690.	2178.7	11042.	17732.
2	5080.	6689.	0.	0.	6689.	2178.0	9501.	16190.
3	3728.	7170.	0.	0.	7170.	2176.7	7493.	14663.
4	2971.	7639.	0.	0.	7639.	2175.0	5504.	13143.
5	1821.	8083.	0.	0.	8083.	2172.6	3298.	11381.
6	1738.	8591.	0.	0.	8591.	2170.0	3274.	11865.
7	1608.	9048.	0.	0.	9048.	2167.2	3457.	12505.
8	1497.	9537.	0.	0.	9537.	2164.1	3300.	12837.
9	1361.	10025.	0.	0.	10025.	2160.8	2856.	12881.
10	1174.	10657.	0.	0.	10657.	2157.2	2629.	13286.
11	1174.	10963.	0.	0.	10963.	2153.5	2669.	13632.
12	1174.	10587.	0.	0.	10587.	2149.9	2690.	13277.
13	1174.	9880.	0.	0.	9880.	2146.0	2402.	12282.
14	1120.	7618.	0.	0.	7618.	2143.1	2156.	9774.
15	1099.	7616.	0.	0.	7616.	2140.1	2113.	9729.
16	1099.	7605.	0.	0.	7605.	2137.2	2142.	9747.
17	1099.	7618.	0.	0.	7618.	2134.3	2024.	9642.
18	982.	7606.	0.	0.	7606.	2131.3	1953.	9559.
19	794.	7634.	0.	0.	7634.	2128.2	1862.	9496.
20	794.	7634.	0.	0.	7634.	2125.1	1883.	9517.
21	794.	7556.	0.	0.	7556.	2122.1	1732.	9288.
22	716.	7446.	0.	0.	7446.	2119.1	1768.	9214.
23	630.	6983.	0.	0.	6983.	2116.2	1636.	8619.
24	630.	6676.	0.	0.	6676.	2113.5	1629.	8305.
25	630.	6356.	0.	0.	6356.	2110.9	1541.	7897.
26	630.	6196.	0.	0.	6196.	2108.4	1513.	7709.
27	506.	7589.	0.	0.	7589.	2105.2	1743.	9332.
28	506.	7281.	0.	0.	7281.	2102.2	1640.	8921.
29	870.	6985.	0.	0.	6985.	2099.3	2198.	9183.
30	930.	6636.	0.	0.	6636.	2096.3	2197.	8833.
31	4308.	6304.	0.	0.	6304.	2095.2	6881.	13185.
32	8521.	6230.	0.	0.	6230.	2096.4	9847.	16077.
33	13802.	6541.	0.	0.	6541.	2100.3	21086.	27627.
34	15823.	6868.	0.	0.	6868.	2104.3	21566.	28434.
35	14807.	7211.	0.	0.	7211.	2107.7	24696.	31907.
36	19799.	7072.	0.	0.	7072.	2113.4	29125.	36197.
37	19022.	6862.	0.	0.	6862.	2118.9	35877.	42739.
38	18245.	6657.	0.	0.	6657.	2124.1	39325.	45982.
39	22178.	6408.	0.	0.	6408.	2131.2	42251.	48659.
40	19307.	6891.	0.	0.	6891.	2136.8	38334.	45225.
41	15396.	6802.	0.	0.	6802.	2140.7	38145.	44947.
42	14981.	6725.	0.	0.	6725.	2144.4	35577.	42302.
43	14981.	6693.	0.	0.	6693.	2148.1	35741.	42434.
44	24614.	6900.	0.	0.	6900.	2155.1	52912.	59812.
45	20049.	6849.	0.	0.	6849.	2160.1	46355.	53204.
46	20049.	6920.	0.	0.	6920.	2165.1	47091.	54011.
47	20049.	6992.	0.	0.	6992.	2170.1	42165.	49157.
48	18930.	6458.	0.	0.	6458.	2174.8	35603.	42061.
49	11256.	6668.	0.	0.	6668.	2176.6	25207.	31875.
50	9676.	6845.	0.	0.	6845.	2177.6	24066.	30911.
51	9025.	7021.	0.	0.	7021.	2178.4	22865.	29886.
52	5793.	6920.	0.	0.	6920.	2177.9	17670.	24590.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1955 1	4746.	6690.	0.	0.	6690.	2177.2	9669.	16359.
2	4461.	6689.	0.	0.	6689.	2176.3	8910.	15599.
3	3359.	7170.	0.	0.	7170.	2174.9	8141.	15311.
4	3359.	7639.	0.	0.	7639.	2173.3	7479.	15118.
5	2716.	8083.	0.	0.	8083.	2171.2	6745.	14828.
6	2156.	8591.	0.	0.	8591.	2168.8	5335.	13926.
7	2032.	9048.	0.	0.	9048.	2166.1	4478.	13526.
8	1796.	9537.	0.	0.	9537.	2163.2	4203.	13740.
9	1756.	10025.	0.	0.	10025.	2160.0	3762.	13787.
10	1657.	10657.	0.	0.	10657.	2156.6	3212.	13869.
11	1624.	10963.	0.	0.	10963.	2153.1	3210.	14173.
12	1431.	10587.	0.	0.	10587.	2149.5	3124.	13711.
13	1431.	7904.	0.	0.	7904.	2146.6	2994.	10898.
14	1546.	7618.	0.	0.	7618.	2143.9	3142.	10760.
15	1561.	7616.	0.	0.	7616.	2141.1	2932.	10548.
16	1338.	7605.	0.	0.	7605.	2138.3	2507.	10112.
17	1249.	7618.	0.	0.	7618.	2135.5	2439.	10057.
18	1179.	7606.	0.	0.	7606.	2132.6	2090.	9696.
19	1052.	7634.	0.	0.	7634.	2129.6	1909.	9543.
20	1052.	9542.	0.	0.	9542.	2125.8	1795.	11337.
21	1052.	9445.	0.	0.	9445.	2122.0	1758.	11203.
22	949.	9307.	0.	0.	9307.	2118.2	1651.	10958.
23	879.	8729.	0.	0.	8729.	2114.7	1506.	10235.
24	879.	8345.	0.	0.	8345.	2111.4	1636.	9981.
25	879.	7945.	0.	0.	7945.	2108.2	1618.	9563.
26	879.	7745.	0.	0.	7745.	2105.1	1824.	9569.
27	828.	7589.	0.	0.	7589.	2102.1	2192.	9781.
28	828.	7281.	0.	0.	7281.	2099.0	2128.	9409.
29	828.	6985.	0.	0.	6985.	2095.7	2160.	9145.
30	828.	6636.	0.	0.	6636.	2092.6	2233.	8869.
31	2519.	6304.	0.	0.	6304.	2090.6	4459.	10763.
32	3321.	6230.	0.	0.	6230.	2089.1	6812.	13042.
33	3882.	6541.	0.	0.	6541.	2087.6	7669.	14210.
34	11626.	6868.	0.	0.	6868.	2090.2	17176.	24044.
35	12771.	7211.	0.	0.	7211.	2093.1	18671.	25882.
36	17007.	7072.	0.	0.	7072.	2098.4	25685.	32757.
37	27727.	6862.	0.	0.	6862.	2108.1	40129.	46991.
38	30081.	6657.	0.	0.	6657.	2118.6	41900.	48557.
39	28168.	6408.	0.	0.	6408.	2128.4	46901.	53309.
40	29660.	6061.	0.	0.	6061.	2139.0	49548.	55609.
41	24776.	6755.	0.	0.	6755.	2147.1	54635.	61390.
42	19124.	6656.	0.	0.	6656.	2152.3	52013.	58669.
43	22869.	6612.	0.	0.	6612.	2158.5	45717.	52329.
44	20805.	6816.	376.	0.	7191.	2163.6	40249.	47440.
45	19270.	6777.	593.	0.	7370.	2168.2	38313.	45683.
46	19771.	6851.	477.	0.	7328.	2172.9	33848.	41176.
47	24039.	6915.	53.	0.	6968.	2179.4	28665.	35633.
48	34146.	7118.	0.	12187.	19305.	2185.0	30401.	49706.
49	17921.	7310.	0.	10611.	17921.	2185.0	27389.	45310.
50	13691.	7472.	0.	6219.	13691.	2185.0	30358.	44049.
51	11128.	7638.	0.	3490.	11128.	2185.0	23413.	34541.
52	8763.	7757.	0.	1006.	8763.	2185.0	22338.	31101.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONVEYOR ENVIRON. RELEASE	VALVE EXCESS RELEASE				
1956 1	6059.	8028.	0.	0.	8028.	2184.3	14609.	22637.
2	4461.	8027.	0.	0.	8027.	2182.9	11269.	19296.
3	3633.	8604.	0.	0.	8604.	2181.0	8195.	16799.
4	3129.	7639.	0.	0.	7639.	2179.3	6292.	13931.
5	2062.	8083.	0.	0.	8083.	2177.0	4125.	12208.
6	1721.	8591.	0.	0.	8591.	2174.4	3120.	11711.
7	1581.	9048.	0.	0.	9048.	2171.6	3355.	12403.
8	1393.	9537.	0.	0.	9537.	2168.5	3368.	12905.
9	1306.	10025.	0.	0.	10025.	2165.2	3180.	13205.
10	1027.	10657.	0.	0.	10657.	2161.5	2602.	13259.
11	1027.	10963.	0.	0.	10963.	2157.7	2621.	13584.
12	1027.	10587.	0.	0.	10587.	2154.1	2668.	13255.
13	1027.	9880.	0.	0.	9880.	2150.7	2880.	12760.
14	848.	9522.	0.	0.	9522.	2147.0	2446.	11968.
15	810.	9520.	0.	0.	9520.	2143.0	2227.	11747.
16	810.	9506.	0.	0.	9506.	2139.1	2034.	11540.
17	810.	9522.	0.	0.	9522.	2135.2	1973.	11495.
18	809.	9508.	0.	0.	9508.	2131.3	1896.	11404.
19	750.	9542.	0.	0.	9542.	2127.4	1822.	11364.
20	750.	9542.	0.	0.	9542.	2123.4	1986.	11528.
21	750.	9445.	0.	0.	9445.	2119.5	1800.	11245.
22	739.	9307.	0.	0.	9307.	2115.6	1866.	11173.
23	689.	8729.	0.	0.	8729.	2112.0	1880.	10609.
24	689.	8345.	0.	0.	8345.	2108.6	1898.	10243.
25	689.	7945.	0.	0.	7945.	2105.3	1851.	9796.
26	689.	7745.	0.	0.	7745.	2102.1	1841.	9586.
27	641.	7589.	0.	0.	7589.	2098.8	1808.	9397.
28	641.	7281.	0.	0.	7281.	2095.3	1764.	9045.
29	641.	6985.	0.	0.	6985.	2091.9	1869.	8854.
30	641.	6636.	0.	0.	6636.	2088.7	1695.	8331.
31	1798.	6304.	0.	0.	6304.	2086.3	3468.	9772.
32	8483.	6230.	0.	0.	6230.	2087.5	12624.	18854.
33	12106.	6541.	0.	0.	6541.	2090.5	16049.	22590.
34	24085.	6868.	0.	0.	6868.	2099.7	29217.	36085.
35	15966.	7211.	0.	0.	7211.	2103.6	30630.	37841.
36	27294.	7072.	0.	0.	7072.	2112.7	43052.	50124.
37	35522.	6862.	0.	0.	6862.	2125.6	57723.	64585.
38	26081.	7360.	0.	0.	7360.	2134.1	47694.	55054.
39	22994.	7118.	0.	0.	7118.	2141.2	45122.	52240.
40	24335.	6767.	0.	0.	6767.	2149.1	40103.	46870.
41	26536.	6662.	0.	0.	6662.	2156.8	45755.	52417.
42	26799.	6560.	0.	0.	6560.	2164.5	49326.	55886.
43	26153.	6501.	0.	0.	6501.	2171.9	48416.	54917.
44	24666.	6688.	0.	0.	6688.	2178.8	46047.	52735.
45	22447.	6638.	0.	0.	6638.	2184.8	39648.	46286.
46	20285.	6756.	0.	12923.	19679.	2185.0	33477.	53156.
47	16173.	6861.	0.	9312.	16173.	2185.0	28088.	44261.
48	13792.	7080.	0.	6712.	13792.	2185.0	23839.	37631.
49	11446.	7295.	0.	4151.	11446.	2185.0	26302.	37748.
50	16046.	7478.	0.	8568.	16046.	2185.0	31039.	47085.
51	15637.	7649.	0.	7988.	15637.	2185.0	36082.	51719.
52	10015.	7762.	0.	2254.	10015.	2185.0	24843.	34858.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1957 1	5279.	8028.	0.	0.	8028.	2184.0	11983.	20011.
2	5279.	8027.	0.	0.	8027.	2182.9	10158.	18185.
3	3583.	8604.	0.	0.	8604.	2181.0	6794.	15398.
4	3300.	7639.	0.	0.	7639.	2179.4	6027.	13666.
5	2789.	8083.	0.	0.	8083.	2177.3	5693.	13776.
6	2342.	8591.	0.	0.	8591.	2175.0	4754.	13345.
7	2247.	9048.	0.	0.	9048.	2172.4	4196.	13244.
8	2123.	9537.	0.	0.	9537.	2169.6	3860.	13397.
9	2035.	10025.	0.	0.	10025.	2166.5	3651.	13676.
10	1908.	10657.	0.	0.	10657.	2163.2	2965.	13622.
11	1852.	10963.	0.	0.	10963.	2159.8	3113.	14076.
12	1509.	10587.	0.	0.	10587.	2156.3	3128.	13715.
13	1509.	9880.	0.	0.	9880.	2153.1	3230.	13110.
14	1399.	9522.	0.	0.	9522.	2150.0	2840.	12362.
15	1378.	9520.	0.	0.	9520.	2146.4	3000.	12520.
16	1378.	9506.	0.	0.	9506.	2142.7	2922.	12428.
17	1378.	9522.	0.	0.	9522.	2139.1	2916.	12438.
18	1310.	9508.	0.	0.	9508.	2135.4	2666.	12174.
19	1193.	9542.	0.	0.	9542.	2131.6	2385.	11927.
20	1193.	9542.	0.	0.	9542.	2127.9	2158.	11700.
21	1193.	9445.	0.	0.	9445.	2124.2	2160.	11605.
22	1079.	9307.	0.	0.	9307.	2120.5	2187.	11494.
23	920.	8729.	0.	0.	8729.	2116.9	2179.	10908.
24	920.	8345.	0.	0.	8345.	2113.6	2169.	10514.
25	920.	7945.	0.	0.	7945.	2110.4	2167.	10112.
26	920.	7745.	0.	0.	7745.	2107.4	2173.	9918.
27	837.	7589.	0.	0.	7589.	2104.3	2157.	9746.
28	837.	7281.	0.	0.	7281.	2101.4	2006.	9287.
29	837.	6985.	0.	0.	6985.	2098.4	2176.	9161.
30	837.	6636.	0.	0.	6636.	2095.3	2281.	8917.
31	2452.	6304.	0.	0.	6304.	2093.3	4833.	11137.
32	4269.	6230.	0.	0.	6230.	2092.2	8755.	14985.
33	6969.	6541.	0.	0.	6541.	2092.5	10940.	17481.
34	15611.	6868.	0.	0.	6868.	2097.1	21180.	28048.
35	23050.	7211.	0.	0.	7211.	2104.7	38054.	45265.
36	31747.	7072.	0.	0.	7072.	2115.8	41246.	48318.
37	28053.	6862.	0.	0.	6862.	2125.3	43172.	50034.
38	24892.	7367.	0.	0.	7367.	2133.2	45499.	52866.
39	17043.	7144.	0.	0.	7144.	2137.7	38014.	45158.
40	19864.	6817.	0.	0.	6817.	2143.5	40977.	47794.
41	18252.	6723.	0.	0.	6723.	2148.7	43099.	49822.
42	20463.	6640.	0.	0.	6640.	2154.2	44134.	50774.
43	22198.	6596.	0.	0.	6596.	2160.1	41802.	48398.
44	17659.	6804.	0.	0.	6804.	2164.2	38536.	45340.
45	17664.	6771.	0.	0.	6771.	2168.4	38024.	44795.
46	17568.	6851.	0.	0.	6851.	2172.4	44129.	50980.
47	16111.	6932.	0.	0.	6932.	2175.9	37294.	44226.
48	17804.	7126.	0.	0.	7126.	2180.0	27795.	34921.
49	14143.	7317.	0.	0.	7317.	2182.6	21196.	28513.
50	15435.	7471.	0.	1546.	9018.	2185.0	21965.	30983.
51	15008.	7647.	0.	7361.	15008.	2185.0	19400.	34408.
52	14415.	7772.	0.	6643.	14415.	2185.0	20167.	34582.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONE VALVE ENVIRON. RELEASE	EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1958 1	7628.	8028.	0.	0.	8028.	2184.8	13473.	21501.
2	6544.	8027.	0.	0.	8027.	2184.3	10508.	18535.
3	5337.	8604.	0.	0.	8604.	2183.0	8248.	16852.
4	5503.	9167.	0.	0.	9167.	2181.7	8373.	17540.
5	3997.	9700.	0.	0.	9700.	2179.5	6796.	16496.
6	3287.	10309.	0.	0.	10309.	2176.8	7048.	17357.
7	2815.	10823.	0.	0.	10823.	2173.8	5682.	16505.
8	2314.	11278.	0.	0.	11278.	2170.4	4818.	16096.
9	2637.	11722.	0.	0.	11722.	2166.9	5031.	16753.
10	2991.	12303.	0.	0.	12303.	2163.4	5156.	17459.
11	2551.	12604.	0.	0.	12604.	2159.6	4561.	17165.
12	1902.	12269.	0.	0.	12269.	2155.6	3920.	16189.
13	1544.	11633.	0.	0.	11633.	2151.8	3474.	15107.
14	1839.	11327.	0.	0.	11327.	2147.9	3091.	14418.
15	1614.	11343.	0.	0.	11343.	2143.5	2830.	14173.
16	1408.	11365.	0.	0.	11365.	2139.0	2453.	13818.
17	1332.	11389.	0.	0.	11389.	2134.5	2407.	13796.
18	1101.	11406.	0.	0.	11406.	2129.8	2262.	13668.
19	1152.	11450.	0.	0.	11450.	2125.2	2093.	13543.
20	1038.	11450.	0.	0.	11450.	2120.5	1994.	13444.
21	959.	11334.	0.	0.	11334.	2115.9	2111.	13445.
22	959.	11168.	0.	0.	11168.	2111.3	2283.	13451.
23	1024.	10475.	0.	0.	10475.	2107.0	2362.	12837.
24	1000.	10014.	0.	0.	10014.	2103.0	2470.	12484.
25	939.	9534.	0.	0.	9534.	2098.9	2302.	11836.
26	939.	7745.	0.	0.	7745.	2095.3	2147.	9892.
27	950.	7589.	0.	0.	7589.	2091.8	2385.	9974.
28	1063.	7281.	0.	0.	7281.	2088.5	2392.	9673.
29	1153.	6985.	0.	0.	6985.	2085.4	3195.	10180.
30	1398.	6636.	0.	0.	6636.	2082.6	4266.	10902.
31	3001.	6304.	0.	0.	6304.	2080.8	9051.	15355.
32	5917.	6230.	0.	0.	6230.	2080.6	25528.	31758.
33	8267.	6541.	0.	0.	6541.	2081.6	37177.	43718.
34	15742.	6868.	0.	0.	6868.	2086.3	47830.	54698.
35	16842.	7211.	0.	0.	7211.	2091.4	41810.	49021.
36	24642.	7072.	0.	0.	7072.	2100.7	38101.	45173.
37	24642.	6862.	0.	0.	6862.	2108.7	48101.	54963.
38	21247.	6657.	0.	0.	6657.	2115.2	38739.	45396.
39	19363.	6408.	0.	0.	6408.	2121.0	40701.	47109.
40	18442.	6061.	0.	0.	6061.	2126.6	38722.	44783.
41	18442.	5954.	0.	0.	5954.	2132.2	35652.	41606.
42	18442.	5873.	0.	0.	5873.	2137.9	38977.	44850.
43	18082.	5838.	0.	0.	5838.	2143.4	43654.	49492.
44	32829.	6056.	0.	0.	6056.	2154.6	61406.	67462.
45	23946.	6033.	0.	0.	6033.	2161.4	54567.	60600.
46	17783.	6340.	0.	0.	6340.	2165.7	56504.	62844.
47	14415.	6844.	0.	0.	6844.	2168.6	38591.	45435.
48	9969.	7208.	204.	0.	7412.	2169.6	29626.	37038.
49	6605.	6668.	0.	0.	6668.	2169.6	20862.	27530.
50	6605.	6845.	0.	0.	6845.	2169.5	25253.	32098.
51	5128.	7021.	0.	0.	7021.	2168.7	20369.	27390.
52	5129.	5536.	0.	0.	5536.	2168.6	20635.	26171.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1959 1	4604.	5352.	0.	0.	5352.	2168.3	15467.	20819.
2	4050.	5351.	0.	0.	5351.	2167.8	12944.	18295.
3	3875.	5736.	0.	0.	5736.	2167.1	10375.	16111.
4	2689.	6111.	0.	0.	6111.	2165.8	7103.	13214.
5	2392.	6466.	0.	0.	6466.	2164.2	5318.	11784.
6	2068.	6873.	0.	0.	6873.	2162.4	4971.	11844.
7	1760.	7238.	0.	0.	7238.	2160.3	4247.	11485.
8	1352.	7630.	0.	0.	7630.	2157.9	3273.	10903.
9	1215.	8020.	0.	0.	8020.	2155.4	2971.	10991.
10	797.	8526.	0.	0.	8526.	2152.4	2362.	10888.
11	879.	8770.	0.	0.	8770.	2149.3	2194.	10964.
12	1375.	8470.	0.	0.	8470.	2146.1	2845.	11315.
13	1375.	7904.	0.	0.	7904.	2143.2	2768.	10672.
14	1150.	7618.	0.	0.	7618.	2140.3	2589.	10207.
15	1109.	7616.	0.	0.	7616.	2137.4	2586.	10202.
16	1056.	7605.	0.	0.	7605.	2134.4	2401.	10006.
17	1035.	7618.	0.	0.	7618.	2131.5	2449.	10067.
18	1051.	7606.	0.	0.	7606.	2128.5	2407.	10013.
19	1027.	7634.	0.	0.	7634.	2125.5	2328.	9962.
20	984.	7634.	0.	0.	7634.	2122.5	2010.	9644.
21	879.	7556.	0.	0.	7556.	2119.5	1955.	9511.
22	797.	7446.	0.	0.	7446.	2116.6	1896.	9342.
23	683.	6983.	0.	0.	6983.	2113.7	1793.	8776.
24	683.	6676.	0.	0.	6676.	2111.0	1862.	8538.
25	683.	6356.	0.	0.	6356.	2108.5	2009.	8365.
26	683.	6196.	0.	0.	6196.	2106.0	2059.	8255.
27	666.	6071.	0.	0.	6071.	2103.6	2132.	8203.
28	666.	5825.	0.	0.	5825.	2101.2	2242.	8067.
29	952.	5588.	0.	0.	5588.	2099.0	2937.	8525.
30	999.	5309.	0.	0.	5309.	2096.7	3893.	9202.
31	1801.	5043.	0.	0.	5043.	2095.0	5672.	10715.
32	2951.	4984.	0.	0.	4984.	2093.9	10317.	15301.
33	12604.	5233.	0.	0.	5233.	2097.8	30853.	36086.
34	17856.	5494.	0.	0.	5494.	2103.7	32035.	37529.
35	14298.	5769.	0.	0.	5769.	2107.6	30300.	36069.
36	20496.	7072.	0.	0.	7072.	2113.6	29799.	36871.
37	15311.	6862.	0.	0.	6862.	2117.4	24326.	31188.
38	18247.	6657.	0.	0.	6657.	2122.6	32913.	39570.
39	20418.	6408.	0.	0.	6408.	2128.9	43471.	49879.
40	21688.	6061.	0.	0.	6061.	2135.9	38936.	44997.
41	20819.	6798.	0.	0.	6798.	2142.2	39095.	45893.
42	22556.	6690.	0.	0.	6690.	2149.4	42930.	49620.
43	17816.	6645.	0.	0.	6645.	2153.7	38627.	45272.
44	18373.	6860.	0.	0.	6860.	2158.1	40675.	47535.
45	14392.	6832.	0.	0.	6832.	2161.0	36842.	43674.
46	18474.	6916.	0.	0.	6916.	2165.4	46339.	53255.
47	34121.	6965.	0.	0.	6965.	2175.7	76878.	83843.
48	33290.	7109.	0.	1611.	8720.	2185.0	54346.	63066.
49	20953.	7317.	0.	13636.	20953.	2185.0	36269.	57222.
50	10824.	7465.	0.	3359.	10824.	2185.0	23636.	34460.
51	8131.	7629.	0.	503.	8131.	2185.0	15861.	23992.
52	7669.	7754.	0.	0.	7754.	2185.0	12478.	20232.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1960 1	8534.	8216.	0.	222.	8438.	2185.0	14697.	23135.
2	5896.	8027.	0.	0.	8027.	2184.2	10965.	18992.
3	3243.	8604.	0.	0.	8604.	2182.2	6715.	15319.
4	4051.	9167.	0.	0.	9167.	2180.2	7254.	16421.
5	2692.	8083.	0.	0.	8083.	2178.2	5910.	13993.
6	2292.	8591.	0.	0.	8591.	2175.8	4799.	13390.
7	2194.	9048.	0.	0.	9048.	2173.2	4430.	13478.
8	2064.	9537.	0.	0.	9537.	2170.3	4089.	13626.
9	1962.	10025.	0.	0.	10025.	2167.3	4031.	14056.
10	1656.	10657.	0.	0.	10657.	2163.8	3385.	14042.
11	1656.	10963.	0.	0.	10963.	2160.3	3382.	14345.
12	1656.	10587.	0.	0.	10587.	2156.9	3228.	13815.
13	1656.	9880.	0.	0.	9880.	2153.8	3191.	13071.
14	1541.	9522.	0.	0.	9522.	2150.8	2651.	12173.
15	1523.	9520.	0.	0.	9520.	2147.3	2885.	12405.
16	1360.	9506.	0.	0.	9506.	2143.6	2661.	12167.
17	1295.	9522.	0.	0.	9522.	2139.9	2524.	12046.
18	1227.	9508.	0.	0.	9508.	2136.2	2371.	11879.
19	1175.	9542.	0.	0.	9542.	2132.5	2208.	11750.
20	1152.	9542.	0.	0.	9542.	2128.7	2125.	11667.
21	1097.	9445.	0.	0.	9445.	2124.9	1922.	11367.
22	1062.	9307.	0.	0.	9307.	2121.2	1885.	11192.
23	1041.	8729.	0.	0.	8729.	2117.8	1885.	10614.
24	996.	8345.	0.	0.	8345.	2114.5	1775.	10120.
25	882.	7945.	0.	0.	7945.	2111.3	1665.	9610.
26	882.	7745.	0.	0.	7745.	2108.2	1668.	9413.
27	694.	7589.	0.	0.	7589.	2105.1	1799.	9388.
28	694.	7281.	0.	0.	7281.	2102.1	1796.	9077.
29	910.	6985.	0.	0.	6985.	2099.3	2123.	9108.
30	945.	6636.	0.	0.	6636.	2096.3	2220.	8856.
31	4703.	6304.	0.	0.	6304.	2095.4	5131.	11435.
32	6668.	6230.	0.	0.	6230.	2095.6	10188.	16418.
33	12886.	6541.	0.	0.	6541.	2099.0	17629.	24170.
34	20055.	6868.	0.	0.	6868.	2105.1	31931.	38799.
35	20716.	7211.	0.	0.	7211.	2111.2	37595.	44806.
36	11838.	7072.	0.	0.	7072.	2113.3	23261.	30333.
37	12275.	6862.	0.	0.	6862.	2115.8	25305.	32167.
38	12710.	6657.	0.	0.	6657.	2118.5	28993.	35650.
39	13971.	6408.	0.	0.	6408.	2121.9	32797.	39205.
40	19936.	6061.	0.	0.	6061.	2128.1	37223.	43284.
41	14780.	6780.	0.	0.	6780.	2131.7	31094.	37874.
42	17003.	6446.	0.	0.	6446.	2136.5	33162.	39608.
43	23312.	5838.	0.	0.	5838.	2144.3	43738.	49576.
44	26487.	6056.	0.	0.	6056.	2153.0	50989.	57045.
45	20467.	6033.	0.	0.	6033.	2158.4	48394.	54427.
46	18086.	6134.	0.	0.	6134.	2163.0	40566.	46700.
47	17477.	6223.	0.	0.	6223.	2167.3	33140.	39363.
48	16811.	6458.	0.	0.	6458.	2171.2	26696.	33154.
49	14281.	6668.	0.	0.	6668.	2174.1	18138.	24806.
50	22570.	6845.	0.	0.	6845.	2180.1	33966.	40811.
51	15996.	7021.	0.	0.	7021.	2183.5	26562.	33583.
52	11980.	7763.	0.	689.	8452.	2185.0	23213.	31665.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1961 1	9778.	8221.	0.	1558.	9778.	2185.0	17499.	27277.
2	7102.	8027.	0.	0.	8027.	2184.6	12277.	20304.
3	5050.	8604.	0.	0.	8604.	2183.3	9302.	17906.
4	3678.	9167.	0.	0.	9167.	2181.2	6875.	16042.
5	2753.	8083.	0.	0.	8083.	2179.2	4970.	13053.
6	2516.	8591.	0.	0.	8591.	2176.9	4678.	13269.
7	2319.	9048.	0.	0.	9048.	2174.3	4406.	13454.
8	2058.	9537.	0.	0.	9537.	2171.5	3743.	13280.
9	2118.	10025.	0.	0.	10025.	2168.5	3749.	13774.
10	2126.	12280.	0.	0.	12280.	2164.6	4051.	16331.
11	2085.	12585.	0.	0.	12585.	2160.6	3932.	16517.
12	1833.	12252.	0.	0.	12252.	2156.7	3557.	15809.
13	1833.	11616.	0.	0.	11616.	2153.0	3650.	15266.
14	1776.	11308.	0.	0.	11308.	2149.2	3348.	14656.
15	1773.	11319.	0.	0.	11319.	2144.9	3113.	14432.
16	1825.	11337.	0.	0.	11337.	2140.6	3199.	14536.
17	1846.	11356.	0.	0.	11356.	2136.4	3226.	14582.
18	1601.	11369.	0.	0.	11369.	2132.0	2879.	14248.
19	1317.	11440.	0.	0.	11440.	2127.4	2408.	13848.
20	1297.	11435.	0.	0.	11435.	2122.9	2361.	13796.
21	1246.	11334.	0.	0.	11334.	2118.3	2346.	13680.
22	1181.	11168.	0.	0.	11168.	2113.8	2288.	13456.
23	1097.	10475.	0.	0.	10475.	2109.6	2080.	12555.
24	1222.	10014.	0.	0.	10014.	2105.7	2184.	12198.
25	1535.	9534.	0.	0.	9534.	2102.1	2466.	12000.
26	1535.	9294.	0.	0.	9294.	2098.3	2365.	11659.
27	1617.	9107.	0.	0.	9107.	2094.3	3106.	12213.
28	1617.	8737.	0.	0.	8737.	2090.5	3238.	11975.
29	1783.	8382.	0.	0.	8382.	2087.0	3468.	11850.
30	1811.	7963.	0.	0.	7963.	2083.7	3760.	11723.
31	5580.	7565.	0.	0.	7565.	2082.7	5944.	13509.
32	10306.	6230.	0.	0.	6230.	2084.9	13644.	19874.
33	17834.	6541.	0.	0.	6541.	2090.9	21876.	28417.
34	16989.	6868.	0.	0.	6868.	2096.3	21494.	28362.
35	15795.	7211.	0.	0.	7211.	2100.7	22992.	30203.
36	14578.	7072.	0.	0.	7072.	2104.1	23747.	30819.
37	23810.	6862.	0.	0.	6862.	2111.7	40107.	46969.
38	29749.	6657.	0.	0.	6657.	2122.1	46464.	53121.
39	24996.	6408.	0.	0.	6408.	2130.4	43500.	49908.
40	18341.	6902.	0.	0.	6902.	2135.6	39541.	46443.
41	19253.	6806.	0.	0.	6806.	2141.2	37442.	44248.
42	19937.	6707.	0.	0.	6707.	2147.1	41511.	48218.
43	20655.	6659.	0.	0.	6659.	2152.9	48928.	55587.
44	22581.	6860.	0.	0.	6860.	2158.9	44103.	50963.
45	23083.	6810.	0.	0.	6810.	2165.1	47541.	54351.
46	19710.	6877.	0.	0.	6877.	2169.9	33742.	40619.
47	18708.	6950.	0.	0.	6950.	2174.4	40425.	47375.
48	13842.	7147.	38.	0.	7185.	2176.9	26079.	33264.
49	9309.	7354.	0.	0.	7354.	2177.7	24183.	31537.
50	10560.	7519.	0.	0.	7519.	2178.8	31788.	39307.
51	10059.	7021.	0.	0.	7021.	2180.0	23046.	30067.
52	10131.	6920.	0.	0.	6920.	2181.4	21266.	28186.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1962 1	8304.	6690.	0.	0.	6690.	2182.0	17683.	24373.
2	3663.	6689.	0.	0.	6689.	2180.8	9417.	16106.
3	3663.	7170.	0.	0.	7170.	2179.5	8541.	15711.
4	3663.	7639.	0.	0.	7639.	2178.0	7709.	15348.
5	2910.	8083.	0.	0.	8083.	2176.0	6054.	14137.
6	2187.	8591.	0.	0.	8591.	2173.6	5165.	13756.
7	2187.	9048.	0.	0.	9048.	2171.0	4625.	13673.
8	2187.	9537.	0.	0.	9537.	2168.2	4124.	13661.
9	2067.	10025.	0.	0.	10025.	2165.2	3807.	13832.
10	1742.	10657.	0.	0.	10657.	2161.8	3127.	13784.
11	1742.	10963.	0.	0.	10963.	2158.3	3094.	14057.
12	1742.	10587.	0.	0.	10587.	2154.9	3075.	13662.
13	1742.	9880.	0.	0.	9880.	2151.8	3068.	12948.
14	1645.	9522.	0.	0.	9522.	2148.6	2648.	12170.
15	1626.	9520.	0.	0.	9520.	2145.1	2529.	12049.
16	1626.	9506.	0.	0.	9506.	2141.5	2533.	12039.
17	1626.	9522.	0.	0.	9522.	2138.0	2546.	12068.
18	1462.	9508.	0.	0.	9508.	2134.4	2296.	11804.
19	1237.	9542.	0.	0.	9542.	2130.6	2055.	11597.
20	1237.	9542.	0.	0.	9542.	2126.9	1986.	11528.
21	1237.	9445.	0.	0.	9445.	2123.2	1990.	11435.
22	1207.	9307.	0.	0.	9307.	2119.6	1877.	11184.
23	1174.	8729.	0.	0.	8729.	2116.2	1818.	10547.
24	1174.	8345.	0.	0.	8345.	2112.9	1765.	10110.
25	1174.	7945.	0.	0.	7945.	2109.9	1724.	9669.
26	1174.	7745.	0.	0.	7745.	2106.9	1744.	9489.
27	1335.	7589.	0.	0.	7589.	2104.1	1958.	9547.
28	1335.	7281.	0.	0.	7281.	2101.4	2015.	9296.
29	1335.	6985.	0.	0.	6985.	2098.7	2487.	9472.
30	1335.	6636.	0.	0.	6636.	2095.9	2613.	9249.
31	3165.	6304.	0.	0.	6304.	2094.2	4370.	10674.
32	3896.	6230.	0.	0.	6230.	2093.0	5332.	11562.
33	10571.	6541.	0.	0.	6541.	2095.1	11427.	17968.
34	15580.	6868.	0.	0.	6868.	2099.8	21233.	28101.
35	25042.	7211.	0.	0.	7211.	2107.8	32006.	39217.
36	25502.	7072.	0.	0.	7072.	2116.1	29096.	36168.
37	49464.	7523.	0.	0.	7523.	2135.0	51443.	58966.
38	42296.	7206.	0.	0.	7206.	2150.6	50603.	57809.
39	29941.	6940.	0.	0.	6940.	2159.4	45147.	52087.
40	24659.	6610.	0.	0.	6610.	2166.2	40140.	46750.
41	24076.	6518.	15.	0.	6533.	2172.9	40660.	47193.
42	20979.	6435.	415.	0.	6850.	2178.3	41706.	48556.
43	24659.	6391.	0.	507.	6898.	2185.0	48219.	55117.
44	22051.	6643.	0.	15409.	22051.	2185.0	50919.	72970.
45	19487.	6641.	0.	12846.	19487.	2185.0	36147.	55634.
46	19487.	6755.	0.	12733.	19487.	2185.0	31877.	51364.
47	19487.	6868.	0.	12619.	19487.	2185.0	29774.	49261.
48	19844.	7094.	0.	12750.	19844.	2185.0	36863.	56707.
49	18961.	7312.	0.	11649.	18961.	2185.0	34510.	53471.
50	11972.	7468.	0.	4504.	11972.	2185.0	18990.	30962.
51	9699.	7635.	0.	2064.	9699.	2185.0	14303.	24002.
52	9763.	7761.	0.	2002.	9763.	2185.0	15270.	25033.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1963 1	7677.	8028.	0.	0.	8028.	2184.9	10865.	18893.
2	5846.	8027.	0.	0.	8027.	2184.0	7778.	15805.
3	5094.	8604.	0.	0.	8604.	2182.7	6200.	14804.
4	4603.	9167.	0.	0.	9167.	2181.0	5160.	14327.
5	3273.	8083.	0.	0.	8083.	2179.1	3760.	11843.
6	2427.	8591.	0.	0.	8591.	2176.8	3373.	11964.
7	2427.	9048.	0.	0.	9048.	2174.3	3166.	12214.
8	2427.	9537.	0.	0.	9537.	2171.6	2950.	12487.
9	2243.	10025.	0.	0.	10025.	2168.6	3043.	13068.
10	1684.	12279.	0.	0.	12279.	2164.6	3051.	15330.
11	1684.	12587.	0.	0.	12587.	2160.5	2965.	15552.
12	1684.	12255.	0.	0.	12255.	2156.4	3137.	15392.
13	1684.	11620.	0.	0.	11620.	2152.7	2960.	14580.
14	1346.	11314.	0.	0.	11314.	2148.7	2835.	14149.
15	1303.	11329.	0.	0.	11329.	2144.2	2715.	14044.
16	1303.	11353.	0.	0.	11353.	2139.7	2667.	14020.
17	1303.	11377.	0.	0.	11377.	2135.1	2613.	13990.
18	1284.	11393.	0.	0.	11393.	2130.6	2343.	13736.
19	1203.	11450.	0.	0.	11450.	2126.0	2193.	13643.
20	1203.	11450.	0.	0.	11450.	2121.4	2180.	13630.
21	1203.	11334.	0.	0.	11334.	2116.8	2160.	13494.
22	1015.	11168.	0.	0.	11168.	2112.2	1940.	13108.
23	870.	10475.	0.	0.	10475.	2107.9	1488.	11963.
24	870.	10014.	0.	0.	10014.	2103.8	1449.	11463.
25	870.	9534.	0.	0.	9534.	2099.9	1302.	10836.
26	870.	9294.	0.	0.	9294.	2095.4	1366.	10660.
27	680.	7589.	0.	0.	7589.	2091.7	1322.	8911.
28	680.	7281.	0.	0.	7281.	2088.2	1326.	8607.
29	680.	6985.	0.	0.	6985.	2084.9	1376.	8361.
30	680.	6636.	0.	0.	6636.	2081.7	1350.	7986.
31	2138.	6304.	0.	0.	6304.	2079.5	3024.	9328.
32	2871.	6230.	0.	0.	6230.	2077.7	3777.	10007.
33	16185.	6541.	0.	0.	6541.	2082.8	18352.	24893.
34	26173.	6868.	0.	0.	6868.	2093.1	30410.	37278.
35	29395.	7211.	0.	0.	7211.	2104.1	44468.	51679.
36	20039.	7072.	0.	0.	7072.	2110.0	31682.	38754.
37	20039.	6862.	0.	0.	6862.	2115.9	30281.	37143.
38	20039.	6657.	0.	0.	6657.	2121.9	31670.	38327.
39	20039.	6408.	0.	0.	6408.	2128.0	38603.	45011.
40	25591.	6061.	0.	0.	6061.	2136.8	48371.	54432.
41	33081.	6758.	0.	0.	6758.	2148.7	61037.	67795.
42	31343.	6622.	0.	0.	6622.	2158.3	62213.	68835.
43	26765.	6553.	0.	0.	6553.	2165.9	44987.	51540.
44	24772.	6740.	0.	0.	6740.	2172.8	34649.	41389.
45	22882.	6688.	51.	0.	6739.	2178.9	28645.	35384.
46	19853.	6756.	283.	0.	7039.	2183.8	29573.	36612.
47	20996.	6870.	0.	10955.	17825.	2185.0	31152.	48977.
48	17689.	7089.	0.	10600.	17689.	2185.0	27270.	44959.
49	13124.	7299.	0.	5825.	13124.	2185.0	21058.	34182.
50	11736.	7468.	0.	4269.	11736.	2185.0	18146.	29882.
51	9384.	7633.	0.	1751.	9384.	2185.0	14253.	23637.
52	8325.	7755.	0.	570.	8325.	2185.0	17403.	25728.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1964 1	7204.	8028.	0.	0.	8028.	2184.7	15419.	23447.
2	6067.	8027.	0.	0.	8027.	2183.9	13672.	21699.
3	4963.	8604.	0.	0.	8604.	2182.6	11147.	19751.
4	3760.	9167.	0.	0.	9167.	2180.5	7158.	16325.
5	2277.	8083.	0.	0.	8083.	2178.3	5678.	13761.
6	2037.	8591.	0.	0.	8591.	2175.8	4880.	13471.
7	1803.	9048.	0.	0.	9048.	2173.1	3950.	12998.
8	1489.	9537.	0.	0.	9537.	2170.0	2842.	12379.
9	1454.	10025.	0.	0.	10025.	2166.7	2703.	12728.
10	1358.	10657.	0.	0.	10657.	2163.2	2167.	12824.
11	1311.	10963.	0.	0.	10963.	2159.5	2138.	13101.
12	1038.	10587.	0.	0.	10587.	2155.9	1993.	12580.
13	1038.	9880.	0.	0.	9880.	2152.6	1993.	11873.
14	913.	9522.	0.	0.	9522.	2149.2	2023.	11545.
15	888.	9520.	0.	0.	9520.	2145.3	2037.	11557.
16	830.	9506.	0.	0.	9506.	2141.4	1864.	11370.
17	807.	9522.	0.	0.	9522.	2137.5	1773.	11295.
18	816.	9508.	0.	0.	9508.	2133.5	1680.	11188.
19	818.	9542.	0.	0.	9542.	2129.6	1601.	11143.
20	802.	9542.	0.	0.	9542.	2125.7	1585.	11127.
21	760.	9445.	0.	0.	9445.	2121.8	1551.	10996.
22	696.	9307.	0.	0.	9307.	2117.9	1483.	10790.
23	612.	8729.	0.	0.	8729.	2114.3	1396.	10125.
24	588.	8345.	0.	0.	8345.	2110.8	1402.	9747.
25	524.	7945.	0.	0.	7945.	2107.4	1375.	9320.
26	524.	7745.	0.	0.	7745.	2104.2	1379.	9124.
27	588.	7589.	0.	0.	7589.	2101.0	1533.	9122.
28	588.	7281.	0.	0.	7281.	2097.7	1786.	9067.
29	637.	6985.	0.	0.	6985.	2094.3	1930.	8915.
30	646.	6636.	0.	0.	6636.	2091.1	2094.	8730.
31	524.	6304.	0.	0.	6304.	2088.0	2611.	8915.
32	521.	6230.	0.	0.	6230.	2085.0	3417.	9647.
33	699.	6541.	0.	0.	6541.	2081.9	4566.	11107.
34	1548.	6868.	0.	0.	6868.	2079.0	9218.	16086.
35	17791.	7211.	0.	0.	7211.	2084.7	45163.	52374.
36	66753.	7072.	0.	0.	7072.	2113.9	92638.	99710.
37	45845.	6862.	0.	0.	6862.	2131.4	75475.	82337.
38	38257.	7257.	0.	0.	7257.	2145.4	70279.	77536.
39	27669.	6989.	0.	0.	6989.	2153.9	62891.	69880.
40	22261.	6662.	0.	0.	6662.	2159.9	41724.	48386.
41	22938.	6574.	0.	0.	6574.	2166.1	47070.	53644.
42	21646.	6489.	0.	0.	6489.	2171.8	46839.	53328.
43	14854.	6459.	466.	0.	6925.	2174.9	34954.	41879.
44	16893.	6676.	0.	0.	6676.	2178.7	40811.	47487.
45	15985.	6648.	0.	0.	6648.	2182.3	32215.	38863.
46	12889.	6737.	52.	0.	6789.	2184.6	31847.	38636.
47	13741.	6855.	0.	5832.	12687.	2185.0	33235.	45922.
48	11603.	7075.	0.	4528.	11603.	2185.0	23837.	35440.
49	8901.	7288.	0.	1613.	8901.	2185.0	19668.	28569.
50	7255.	7455.	0.	0.	7455.	2184.9	15007.	22462.
51	7294.	7628.	0.	0.	7628.	2184.8	14152.	21780.
52	6247.	7759.	0.	0.	7759.	2184.1	15921.	23680.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1965 1	5814.	8028.	0.	0.	8028.	2183.3	12096.	20124.
2	6506.	6689.	0.	0.	6689.	2183.2	16404.	23093.
3	4258.	7170.	0.	0.	7170.	2182.1	9031.	16201.
4	3387.	7639.	0.	0.	7639.	2180.5	7486.	15125.
5	2593.	8083.	0.	0.	8083.	2178.4	5746.	13829.
6	2408.	8591.	0.	0.	8591.	2176.1	5373.	13964.
7	2383.	9048.	0.	0.	9048.	2173.5	5227.	14275.
8	2656.	9537.	0.	0.	9537.	2170.9	5180.	14717.
9	1708.	10025.	0.	0.	10025.	2167.8	4625.	14650.
10	1175.	10657.	0.	0.	10657.	2164.2	3550.	14207.
11	1047.	10963.	0.	0.	10963.	2160.4	3524.	14487.
12	952.	10587.	0.	0.	10587.	2156.7	3504.	14091.
13	952.	9880.	0.	0.	9880.	2153.3	3504.	13384.
14	880.	9522.	0.	0.	9522.	2150.1	2662.	12184.
15	866.	9520.	0.	0.	9520.	2146.2	2525.	12045.
16	866.	9506.	0.	0.	9506.	2142.3	2525.	12031.
17	866.	9522.	0.	0.	9522.	2138.4	2525.	12047.
18	821.	9508.	0.	0.	9508.	2134.5	2392.	11900.
19	764.	9542.	0.	0.	9542.	2130.6	2214.	11756.
20	764.	9542.	0.	0.	9542.	2126.6	2214.	11756.
21	764.	9445.	0.	0.	9445.	2122.7	2214.	11659.
22	785.	9307.	0.	0.	9307.	2118.9	2131.	11438.
23	809.	8729.	0.	0.	8729.	2115.3	2024.	10753.
24	809.	8345.	0.	0.	8345.	2111.9	2024.	10369.
25	809.	7945.	0.	0.	7945.	2108.7	2024.	9969.
26	809.	7745.	0.	0.	7745.	2105.6	2024.	9769.
27	1050.	7589.	0.	0.	7589.	2102.6	2217.	9806.
28	1050.	7281.	0.	0.	7281.	2099.8	2217.	9498.
29	1324.	6985.	0.	0.	6985.	2096.8	2263.	9248.
30	1370.	6636.	0.	0.	6636.	2094.0	2269.	8905.
31	1702.	6304.	0.	0.	6304.	2091.5	3591.	9895.
32	4582.	6230.	0.	0.	6230.	2090.7	4753.	10983.
33	7973.	6541.	0.	0.	6541.	2091.4	12084.	18625.
34	14365.	6868.	0.	0.	6868.	2095.4	19852.	26720.
35	28598.	7211.	0.	0.	7211.	2105.8	33426.	40637.
36	18020.	7072.	0.	0.	7072.	2110.7	30825.	37897.
37	19249.	6862.	0.	0.	6862.	2116.2	34552.	41414.
38	18396.	6657.	0.	0.	6657.	2121.5	41270.	47927.
39	27076.	6408.	0.	0.	6408.	2130.8	42269.	48677.
40	25264.	6880.	0.	0.	6880.	2139.1	38593.	45473.
41	25478.	6752.	0.	0.	6752.	2147.5	47826.	54578.
42	23730.	6644.	0.	0.	6644.	2154.4	45289.	51933.
43	20581.	6597.	0.	0.	6597.	2159.7	38532.	45129.
44	18313.	6806.	0.	0.	6806.	2164.1	40508.	47314.
45	16343.	6775.	0.	0.	6775.	2167.7	38705.	45480.
46	25247.	6844.	0.	0.	6844.	2174.7	56432.	63276.
47	16925.	6911.	0.	0.	6911.	2178.5	36336.	43247.
48	9394.	7117.	0.	0.	7117.	2179.4	20928.	28045.
49	14093.	7323.	0.	0.	7323.	2181.9	33133.	40456.
50	17314.	7475.	0.	1785.	9260.	2185.0	35587.	44847.
51	15844.	7649.	0.	8195.	15844.	2185.0	32546.	48390.
52	18328.	7782.	0.	10546.	18328.	2185.0	50841.	69169.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1966 1	10948.	8224.	0.	2724.	10948.	2185.0	22239.	33187.
2	6087.	8027.	0.	0.	8027.	2184.3	17307.	25334.
3	2852.	8604.	0.	0.	8604.	2182.1	8883.	17487.
4	2359.	9167.	0.	0.	9167.	2179.5	6843.	16010.
5	2043.	8083.	0.	0.	8083.	2177.2	5241.	13324.
6	1676.	8591.	0.	0.	8591.	2174.6	4115.	12706.
7	1481.	9048.	0.	0.	9048.	2171.7	3737.	12785.
8	1412.	9537.	0.	0.	9537.	2168.6	3474.	13011.
9	1361.	10025.	0.	0.	10025.	2165.3	3207.	13232.
10	1265.	10657.	0.	0.	10657.	2161.8	2885.	13542.
11	1223.	10963.	0.	0.	10963.	2158.1	2813.	13776.
12	1174.	10587.	0.	0.	10587.	2154.5	2738.	13325.
13	1129.	9880.	0.	0.	9880.	2151.2	2665.	12545.
14	1075.	9522.	0.	0.	9522.	2147.6	2444.	11966.
15	1062.	9520.	0.	0.	9520.	2143.8	2391.	11911.
16	1062.	9506.	0.	0.	9506.	2140.0	2359.	11865.
17	1062.	9522.	0.	0.	9522.	2136.2	2326.	11848.
18	1025.	9508.	0.	0.	9508.	2132.3	2233.	11741.
19	980.	9542.	0.	0.	9542.	2128.5	2102.	11644.
20	980.	9542.	0.	0.	9542.	2124.6	2046.	11588.
21	980.	9445.	0.	0.	9445.	2120.8	1995.	11440.
22	983.	9307.	0.	0.	9307.	2117.1	1943.	11250.
23	985.	8729.	0.	0.	8729.	2113.6	1909.	10638.
24	985.	8345.	0.	0.	8345.	2110.3	1900.	10245.
25	985.	7945.	0.	0.	7945.	2107.2	1900.	9845.
26	985.	7745.	0.	0.	7745.	2104.1	1903.	9648.
27	1091.	7589.	0.	0.	7589.	2101.2	2217.	9806.
28	1091.	7281.	0.	0.	7281.	2098.1	2217.	9498.
29	1432.	6985.	0.	0.	6985.	2095.2	2378.	9363.
30	1490.	6636.	0.	0.	6636.	2092.4	2439.	9075.
31	2210.	6304.	0.	0.	6304.	2090.3	3451.	9755.
32	2873.	6230.	0.	0.	6230.	2088.5	4491.	10721.
33	5322.	6541.	0.	0.	6541.	2087.8	8421.	14962.
34	10202.	6868.	0.	0.	6868.	2089.6	13093.	19961.
35	16017.	7211.	0.	0.	7211.	2094.3	19634.	26845.
36	37660.	7072.	0.	0.	7072.	2108.9	55170.	62242.
37	26954.	6862.	0.	0.	6862.	2118.0	46465.	53327.
38	22768.	6657.	0.	0.	6657.	2125.2	42088.	48745.
39	19214.	6408.	0.	0.	6408.	2131.0	37759.	44167.
40	15178.	6904.	0.	0.	6904.	2134.7	30682.	37586.
41	14458.	6828.	0.	0.	6828.	2138.1	36603.	43431.
42	15132.	6752.	0.	0.	6752.	2141.9	39860.	46612.
43	17122.	5838.	0.	0.	5838.	2147.0	45646.	51484.
44	22511.	6056.	0.	0.	6056.	2153.7	54042.	60098.
45	18320.	6033.	0.	0.	6033.	2158.4	44377.	50410.
46	15064.	6134.	0.	0.	6134.	2161.7	39072.	45206.
47	18252.	6223.	0.	0.	6223.	2166.3	51691.	57914.
48	14606.	6458.	0.	0.	6458.	2169.4	35324.	41782.
49	10023.	6668.	0.	0.	6668.	2170.7	23411.	30079.
50	9733.	6845.	0.	0.	6845.	2171.8	23073.	29918.
51	9623.	7021.	0.	0.	7021.	2172.8	21755.	28776.
52	7019.	6920.	0.	0.	6920.	2172.8	15952.	22872.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1967 1	5525.	6690.	0.	0.	6690.	2172.4	13701.	20391.
2	3705.	6689.	0.	0.	6689.	2171.2	9741.	16430.
3	2802.	7170.	0.	0.	7170.	2169.6	7156.	14326.
4	1896.	7639.	0.	0.	7639.	2167.4	4662.	12301.
5	1290.	6466.	0.	0.	6466.	2165.4	3614.	10080.
6	1192.	6873.	0.	0.	6873.	2163.3	3232.	10105.
7	1192.	7238.	0.	0.	7238.	2161.0	3099.	10337.
8	1192.	7630.	0.	0.	7630.	2158.5	2995.	10625.
9	1173.	8020.	0.	0.	8020.	2155.9	2895.	10915.
10	1119.	8526.	0.	0.	8526.	2153.1	2810.	11336.
11	1119.	8770.	0.	0.	8770.	2150.2	2765.	11535.
12	1119.	8470.	0.	0.	8470.	2146.9	2744.	11214.
13	1119.	7904.	0.	0.	7904.	2143.9	2706.	10610.
14	1105.	7618.	0.	0.	7618.	2141.0	2713.	10331.
15	1106.	7616.	0.	0.	7616.	2138.0	2668.	10284.
16	1106.	7605.	0.	0.	7605.	2135.1	2623.	10228.
17	1106.	7618.	0.	0.	7618.	2132.2	2513.	10131.
18	1077.	7606.	0.	0.	7606.	2129.2	2467.	10073.
19	1037.	7634.	0.	0.	7634.	2126.3	2353.	9987.
20	1037.	7634.	0.	0.	7634.	2123.3	2293.	9927.
21	1037.	7556.	0.	0.	7556.	2120.4	2183.	9739.
22	965.	7446.	0.	0.	7446.	2117.5	2151.	9597.
23	882.	6983.	0.	0.	6983.	2114.7	2010.	8993.
24	882.	6676.	0.	0.	6676.	2112.1	1916.	8592.
25	882.	6356.	0.	0.	6356.	2109.7	1865.	8221.
26	882.	6196.	0.	0.	6196.	2107.3	1833.	8029.
27	771.	6071.	0.	0.	6071.	2104.9	1759.	7830.
28	771.	5825.	0.	0.	5825.	2102.6	1731.	7556.
29	790.	5588.	0.	0.	5588.	2100.4	1742.	7330.
30	910.	5309.	0.	0.	5309.	2098.2	1956.	7265.
31	1409.	5043.	0.	0.	5043.	2096.3	3191.	8234.
32	4044.	4984.	0.	0.	4984.	2095.8	9130.	14114.
33	14066.	5233.	0.	0.	5233.	2100.4	23576.	28809.
34	19680.	5494.	0.	0.	5494.	2106.8	29702.	35196.
35	23533.	7211.	0.	0.	7211.	2114.1	34529.	41740.
36	22187.	7739.	0.	0.	7739.	2120.6	31368.	39107.
37	29069.	7524.	0.	0.	7524.	2130.3	40720.	48244.
38	24227.	7308.	0.	0.	7308.	2137.9	45177.	52485.
39	23703.	7072.	0.	0.	7072.	2145.4	52983.	60055.
40	17634.	6743.	0.	0.	6743.	2150.2	47606.	54349.
41	17564.	6667.	0.	0.	6667.	2154.4	44440.	51107.
42	24423.	6585.	0.	0.	6585.	2161.2	71715.	78300.
43	28466.	6526.	0.	0.	6526.	2169.5	62015.	68541.
44	21665.	6715.	0.	0.	6715.	2175.2	49634.	56349.
45	20177.	6672.	0.	0.	6672.	2180.3	43414.	50086.
46	44209.	6797.	0.	24000.	30797.	2185.4	89947.	120744.
47	24653.	6880.	0.	18805.	25685.	2185.0	58193.	83878.
48	16555.	7087.	0.	9469.	16555.	2185.0	36533.	53088.
49	23511.	7323.	0.	16188.	23511.	2185.0	36494.	60005.
50	13875.	7473.	0.	6403.	13875.	2185.0	38458.	52333.
51	10087.	7636.	0.	2452.	10087.	2185.0	19086.	29173.
52	7666.	7754.	0.	0.	7754.	2185.0	13639.	21393.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1968 1	5636.	8028.	0.	0.	8028.	2184.1	9550.	17578.
2	4692.	8027.	0.	0.	8027.	2182.8	7663.	15690.
3	3669.	8604.	0.	0.	8604.	2180.9	6094.	14698.
4	2797.	7639.	0.	0.	7639.	2179.1	4722.	12361.
5	2340.	8083.	0.	0.	8083.	2176.9	4047.	12130.
6	1987.	8591.	0.	0.	8591.	2174.4	3715.	12306.
7	1881.	9048.	0.	0.	9048.	2171.7	3524.	12572.
8	1812.	9537.	0.	0.	9537.	2168.7	3328.	12865.
9	1780.	10025.	0.	0.	10025.	2165.6	3146.	13171.
10	1740.	10657.	0.	0.	10657.	2162.2	3053.	13710.
11	1740.	10963.	0.	0.	10963.	2158.7	2913.	13876.
12	1669.	10587.	0.	0.	10587.	2155.3	2845.	13432.
13	1657.	9880.	0.	0.	9880.	2152.2	2712.	12592.
14	1633.	9522.	0.	0.	9522.	2149.0	2706.	12228.
15	1634.	9520.	0.	0.	9520.	2145.5	2648.	12168.
16	1634.	9506.	0.	0.	9506.	2142.0	2549.	12055.
17	1611.	9522.	0.	0.	9522.	2138.4	2518.	12040.
18	1552.	9508.	0.	0.	9508.	2134.8	2483.	11991.
19	1561.	9542.	0.	0.	9542.	2131.2	2462.	12004.
20	1561.	9542.	0.	0.	9542.	2127.6	2451.	11993.
21	1561.	9445.	0.	0.	9445.	2124.1	2430.	11875.
22	1561.	9307.	0.	0.	9307.	2120.6	2430.	11737.
23	1560.	8729.	0.	0.	8729.	2117.4	2416.	11145.
24	1560.	8345.	0.	0.	8345.	2114.3	2380.	10725.
25	1560.	7945.	0.	0.	7945.	2111.5	2307.	10252.
26	1560.	7745.	0.	0.	7745.	2108.7	2307.	10052.
27	1544.	7589.	0.	0.	7589.	2106.0	2378.	9967.
28	1485.	7281.	0.	0.	7281.	2103.4	2455.	9736.
29	1556.	6985.	0.	0.	6985.	2100.9	2756.	9741.
30	1662.	6636.	0.	0.	6636.	2098.4	3308.	9944.
31	1787.	6304.	0.	0.	6304.	2096.0	4616.	10920.
32	2353.	6230.	0.	0.	6230.	2094.0	7636.	13866.
33	10464.	6541.	0.	0.	6541.	2096.1	19473.	26014.
34	27061.	6868.	0.	0.	6868.	2105.8	44102.	50970.
35	21911.	7211.	0.	0.	7211.	2112.4	44496.	51707.
36	21507.	7764.	0.	0.	7764.	2118.5	43378.	51142.
37	29938.	7548.	0.	0.	7548.	2128.6	62434.	69982.
38	30356.	7312.	0.	0.	7312.	2139.0	58280.	65592.
39	22099.	7064.	0.	0.	7064.	2145.7	45224.	52288.
40	24724.	6728.	0.	0.	6728.	2153.2	51136.	57864.
41	22504.	6633.	0.	0.	6633.	2159.3	52395.	59028.
42	21723.	6547.	0.	0.	6547.	2165.0	42247.	48794.
43	20991.	6505.	0.	0.	6505.	2170.5	49120.	55625.
44	18324.	6711.	0.	0.	6711.	2174.9	38100.	44811.
45	16541.	6680.	0.	0.	6680.	2178.7	39665.	46345.
46	13759.	6767.	0.	0.	6767.	2181.3	33221.	39988.
47	12436.	6860.	0.	0.	6860.	2183.5	30836.	37696.
48	11024.	7069.	0.	0.	7069.	2185.0	23652.	30721.
49	9099.	7288.	0.	1731.	9019.	2185.0	18232.	27252.
50	9115.	7460.	0.	1655.	9115.	2185.0	16893.	26008.
51	5821.	7630.	0.	0.	7630.	2184.3	11603.	19233.
52	4456.	7767.	0.	0.	7767.	2182.9	8756.	16523.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1969 1	4162.	8028.	0.	0.	8028.	2181.4	7176.	15204.
2	3593.	6689.	0.	0.	6689.	2180.2	6177.	12866.
3	2768.	7170.	0.	0.	7170.	2178.6	4877.	12047.
4	2457.	7639.	0.	0.	7639.	2176.6	4457.	12096.
5	2109.	8083.	0.	0.	8083.	2174.3	3607.	11690.
6	1631.	8591.	0.	0.	8591.	2171.7	2992.	11583.
7	1241.	9048.	0.	0.	9048.	2168.7	2651.	11699.
8	1087.	9537.	0.	0.	9537.	2165.5	2450.	11987.
9	901.	10025.	0.	0.	10025.	2162.0	2231.	12256.
10	809.	10657.	0.	0.	10657.	2158.3	2034.	12691.
11	767.	10963.	0.	0.	10963.	2154.4	1950.	12913.
12	724.	10587.	0.	0.	10587.	2150.7	1861.	12448.
13	687.	9880.	0.	0.	9880.	2146.7	1786.	11666.
14	658.	7618.	0.	0.	7618.	2143.5	1687.	9305.
15	640.	7616.	0.	0.	7616.	2140.4	1656.	9272.
16	598.	7605.	0.	0.	7605.	2137.2	1584.	9189.
17	598.	7618.	0.	0.	7618.	2134.1	1563.	9181.
18	598.	7606.	0.	0.	7606.	2130.9	1532.	9138.
19	587.	7634.	0.	0.	7634.	2127.8	1501.	9135.
20	599.	7634.	0.	0.	7634.	2124.6	1483.	9117.
21	630.	7556.	0.	0.	7556.	2121.5	1478.	9034.
22	630.	7446.	0.	0.	7446.	2118.4	1447.	8893.
23	655.	6983.	0.	0.	6983.	2115.6	1422.	8405.
24	673.	6676.	0.	0.	6676.	2112.9	1411.	8087.
25	709.	6356.	0.	0.	6356.	2110.3	1383.	7739.
26	732.	6196.	0.	0.	6196.	2107.9	1389.	7585.
27	779.	6071.	0.	0.	6071.	2105.5	1497.	7568.
28	919.	5825.	0.	0.	5825.	2103.3	1649.	7474.
29	1196.	5588.	0.	0.	5588.	2101.3	2134.	7722.
30	1696.	5309.	0.	0.	5309.	2099.6	3173.	8482.
31	2867.	6304.	0.	0.	6304.	2097.8	4658.	10962.
32	5116.	6230.	0.	0.	6230.	2097.2	7347.	13577.
33	9727.	6541.	0.	0.	6541.	2098.9	10294.	16835.
34	17064.	6868.	0.	0.	6868.	2103.7	21273.	28141.
35	10209.	7211.	0.	0.	7211.	2105.0	16144.	23355.
36	11525.	7072.	0.	0.	7072.	2107.0	16775.	23847.
37	14689.	6862.	0.	0.	6862.	2110.5	26317.	33179.
38	16092.	6657.	0.	0.	6657.	2114.8	33337.	39994.
39	14614.	6408.	0.	0.	6408.	2118.5	33558.	39966.
40	13051.	7055.	67.	0.	7122.	2121.1	32375.	39497.
41	16518.	6889.	0.	0.	6889.	2125.5	34522.	41411.
42	16974.	6860.	0.	0.	6860.	2130.0	29470.	36330.
43	14188.	6853.	193.	0.	7045.	2133.2	26817.	33862.
44	11668.	6282.	0.	0.	6282.	2135.7	26531.	32813.
45	12201.	5915.	0.	0.	5915.	2138.5	26564.	32479.
46	6318.	6919.	0.	0.	6919.	2138.2	13850.	20769.
47	5126.	7125.	0.	0.	7125.	2137.3	11240.	18365.
48	4792.	7199.	0.	0.	7199.	2136.2	11536.	18735.
49	5256.	6953.	0.	0.	6953.	2135.5	12864.	19817.
50	4595.	6084.	0.	0.	6084.	2134.8	10864.	16948.
51	3939.	5213.	0.	0.	5213.	2134.2	9047.	14260.
52	3308.	5339.	0.	0.	5339.	2133.2	7608.	12947.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1970 1	3018.	5078.	0.	0.	5078.	2132.3	8722.	13800.
2	2841.	5132.	0.	0.	5132.	2131.2	8507.	13639.
3	2489.	4517.	0.	0.	4517.	2130.3	6985.	11502.
4	1680.	4813.	0.	0.	4813.	2128.9	5078.	9891.
5	1432.	5092.	0.	0.	5092.	2127.3	4358.	9450.
6	1202.	5412.	0.	0.	5412.	2125.4	3393.	8805.
7	950.	5700.	0.	0.	5700.	2123.2	2794.	8494.
8	842.	6008.	0.	0.	6008.	2120.9	2533.	8541.
9	787.	6316.	0.	0.	6316.	2118.4	2300.	8616.
10	735.	6714.	0.	0.	6714.	2115.7	2204.	8918.
11	699.	6907.	0.	0.	6907.	2112.9	2151.	9058.
12	694.	6670.	0.	0.	6670.	2110.2	2135.	8805.
13	694.	6224.	0.	0.	6224.	2107.8	2098.	8322.
14	656.	5999.	0.	0.	5999.	2105.4	2039.	8038.
15	656.	5998.	0.	0.	5998.	2103.0	1980.	7978.
16	628.	5989.	0.	0.	5989.	2100.5	1971.	7960.
17	617.	5999.	0.	0.	5999.	2097.8	1962.	7961.
18	618.	5990.	0.	0.	5990.	2094.9	1946.	7936.
19	628.	6012.	0.	0.	6012.	2092.0	1922.	7934.
20	589.	6012.	0.	0.	6012.	2089.2	1873.	7885.
21	589.	5950.	0.	0.	5950.	2086.3	1788.	7738.
22	589.	5863.	0.	0.	5863.	2083.5	1779.	7642.
23	605.	5499.	0.	0.	5499.	2080.9	1763.	7262.
24	616.	5257.	0.	0.	5257.	2078.4	1766.	7023.
25	645.	5005.	0.	0.	5005.	2076.1	1774.	6779.
26	645.	4879.	0.	0.	4879.	2073.8	1774.	6653.
27	769.	4781.	0.	0.	4781.	2071.7	1732.	6513.
28	846.	4587.	0.	0.	4587.	2069.7	1873.	6460.
29	969.	4401.	0.	0.	4401.	2067.9	2155.	6556.
30	1176.	4181.	0.	0.	4181.	2066.3	2694.	6875.
31	1634.	3972.	0.	0.	3972.	2065.0	3986.	7958.
32	3900.	3925.	0.	0.	3925.	2065.0	8491.	12416.
33	13817.	4121.	0.	0.	4121.	2070.2	17880.	22001.
34	12474.	4327.	0.	0.	4327.	2074.5	22225.	26552.
35	15221.	4543.	0.	0.	4543.	2080.2	27728.	32271.
36	12989.	4455.	0.	0.	4455.	2084.8	26118.	30573.
37	12531.	4323.	0.	0.	4323.	2089.1	38706.	43029.
38	11864.	4364.	0.	0.	4364.	2093.1	30659.	35023.
39	19977.	4037.	0.	0.	4037.	2101.4	40555.	44592.
40	20089.	3818.	0.	0.	3818.	2108.7	40903.	44721.
41	16855.	3855.	0.	0.	3855.	2114.5	39475.	43330.
42	18059.	3700.	0.	0.	3700.	2121.0	44396.	48096.
43	17267.	3753.	0.	0.	3753.	2127.1	43319.	47072.
44	21606.	3815.	0.	0.	3815.	2135.1	50871.	54686.
45	18880.	4009.	0.	0.	4009.	2141.8	44844.	48853.
46	14586.	4915.	0.	0.	4915.	2146.1	33647.	38562.
47	16486.	4978.	0.	0.	4978.	2151.1	39324.	44302.
48	11350.	5564.	0.	0.	5564.	2153.3	28788.	34352.
49	9396.	5499.	0.	0.	5499.	2154.8	26640.	32139.
50	7477.	5476.	0.	0.	5476.	2155.5	24288.	29764.
51	7616.	5617.	0.	0.	5617.	2156.3	18831.	24448.
52	4244.	5536.	0.	0.	5536.	2155.7	10804.	16340.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1971 1	4991.	5352.	0.	0.	5352.	2155.6	11199.	16551.
2	4166.	5351.	0.	0.	5351.	2155.1	9456.	14807.
3	3393.	5736.	0.	0.	5736.	2154.2	7891.	13627.
4	2885.	6111.	0.	0.	6111.	2153.0	6656.	12767.
5	2923.	6466.	0.	0.	6466.	2151.7	6352.	12818.
6	2796.	6873.	0.	0.	6873.	2150.1	5873.	12746.
7	2543.	7238.	0.	0.	7238.	2148.0	4842.	12080.
8	2249.	7630.	0.	0.	7630.	2145.6	4308.	11938.
9	2013.	8020.	0.	0.	8020.	2142.9	3881.	11901.
10	1886.	8526.	0.	0.	8526.	2139.9	3564.	12090.
11	1761.	8770.	0.	0.	8770.	2136.8	3350.	12120.
12	1614.	8470.	0.	0.	8470.	2133.7	3186.	11656.
13	1446.	7904.	0.	0.	7904.	2130.8	2955.	10859.
14	1328.	7618.	0.	0.	7618.	2128.0	2653.	10271.
15	1188.	7616.	0.	0.	7616.	2125.1	2438.	10054.
16	1080.	7605.	0.	0.	7605.	2122.1	2199.	9804.
17	950.	7618.	0.	0.	7618.	2119.1	1982.	9600.
18	880.	7606.	0.	0.	7606.	2116.1	1845.	9451.
19	821.	7634.	0.	0.	7634.	2113.0	1798.	9432.
20	746.	7634.	0.	0.	7634.	2109.9	1752.	9386.
21	746.	7556.	0.	0.	7556.	2106.9	1728.	9284.
22	730.	7446.	0.	0.	7446.	2103.9	1678.	9124.
23	716.	6983.	0.	0.	6983.	2101.0	1662.	8645.
24	716.	6676.	0.	0.	6676.	2098.1	1648.	8324.
25	716.	6356.	0.	0.	6356.	2095.1	1610.	7966.
26	716.	6196.	0.	0.	6196.	2092.1	1664.	7860.
27	717.	6071.	0.	0.	6071.	2089.3	1711.	7782.
28	744.	5825.	0.	0.	5825.	2086.6	1742.	7567.
29	808.	5588.	0.	0.	5588.	2084.0	1859.	7447.
30	904.	5309.	0.	0.	5309.	2081.7	1984.	7293.
31	1098.	5043.	0.	0.	5043.	2079.6	2483.	7526.
32	1415.	4984.	0.	0.	4984.	2077.7	4035.	9019.
33	2087.	5287.	0.	0.	5287.	2076.0	6412.	11699.
34	3683.	5494.	0.	0.	5494.	2075.0	10578.	16072.
35	6558.	5769.	0.	0.	5769.	2075.4	17322.	23091.
36	19251.	5658.	0.	0.	5658.	2082.7	32021.	37679.
37	39740.	5490.	0.	0.	5490.	2100.8	54375.	59865.
38	24136.	5326.	0.	0.	5326.	2109.2	45977.	51303.
39	33340.	5126.	0.	0.	5126.	2121.9	72384.	77510.
40	21395.	5924.	0.	0.	5924.	2128.9	46474.	52398.
41	21771.	5954.	0.	0.	5954.	2136.0	51799.	57753.
42	25092.	5873.	0.	0.	5873.	2144.6	50116.	55989.
43	16325.	6654.	0.	0.	6654.	2149.0	32608.	39262.
44	20943.	6056.	0.	0.	6056.	2154.8	37990.	44046.
45	38945.	6033.	0.	0.	6033.	2167.3	72348.	78381.
46	34819.	6831.	0.	0.	6831.	2177.9	53757.	60588.
47	21352.	6875.	0.	0.	6875.	2183.4	35543.	42418.
48	16880.	7085.	0.	5665.	12750.	2185.0	28109.	40859.
49	19170.	7313.	0.	11857.	19170.	2185.0	30901.	50071.
50	12233.	7469.	0.	4764.	12233.	2185.0	22417.	34650.
51	9251.	7633.	0.	1618.	9251.	2185.0	16013.	25264.
52	8027.	7754.	0.	273.	8027.	2185.0	12946.	20973.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1972 1	6619.	8028.	0.	0.	8028.	2184.5	10367.	18395.
2	5931.	8027.	0.	0.	8027.	2183.7	13369.	21396.
3	4501.	8604.	0.	0.	8604.	2182.1	8876.	17480.
4	3711.	9167.	0.	0.	9167.	2180.0	6554.	15721.
5	3005.	8083.	0.	0.	8083.	2178.1	5473.	13556.
6	2717.	8591.	0.	0.	8591.	2175.9	4697.	13288.
7	2574.	9048.	0.	0.	9048.	2173.4	4162.	13210.
8	2430.	9537.	0.	0.	9537.	2170.7	3714.	13251.
9	2311.	10025.	0.	0.	10025.	2167.8	3353.	13378.
10	2016.	10657.	0.	0.	10657.	2164.5	3242.	13899.
11	2016.	10963.	0.	0.	10963.	2161.1	3057.	14020.
12	1860.	10587.	0.	0.	10587.	2157.8	2881.	13468.
13	1860.	9880.	0.	0.	9880.	2154.7	2755.	12635.
14	1790.	11280.	0.	0.	11280.	2151.1	2766.	14046.
15	1642.	11288.	0.	0.	11288.	2147.0	2649.	13937.
16	1642.	11299.	0.	0.	11299.	2142.7	2627.	13926.
17	1642.	11320.	0.	0.	11320.	2138.3	2494.	13814.
18	1643.	11333.	0.	0.	11333.	2134.0	2493.	13826.
19	1528.	11402.	0.	0.	11402.	2129.5	2453.	13855.
20	1465.	11395.	0.	0.	11395.	2125.1	2324.	13719.
21	1465.	11334.	0.	0.	11334.	2120.6	2257.	13591.
22	1403.	11168.	0.	0.	11168.	2116.2	2186.	13354.
23	1416.	10475.	0.	0.	10475.	2112.1	2078.	12553.
24	1351.	10014.	0.	0.	10014.	2108.3	1998.	12012.
25	1351.	9534.	0.	0.	9534.	2104.6	1916.	11450.
26	1329.	9294.	0.	0.	9294.	2101.0	1878.	11172.
27	1241.	9107.	0.	0.	9107.	2097.0	1853.	10960.
28	1241.	8737.	0.	0.	8737.	2093.0	1844.	10581.
29	1189.	8382.	0.	0.	8382.	2089.2	1894.	10276.
30	1241.	7963.	0.	0.	7963.	2085.6	2126.	10089.
31	2386.	7565.	0.	0.	7565.	2082.8	4504.	12069.
32	13753.	6230.	0.	0.	6230.	2086.8	17455.	23685.
33	13553.	6541.	0.	0.	6541.	2090.6	17051.	23592.
34	18894.	6868.	0.	0.	6868.	2097.0	24670.	31538.
35	31966.	7211.	0.	0.	7211.	2108.6	45750.	52961.
36	20142.	7072.	0.	0.	7072.	2114.4	29107.	36179.
37	35772.	6862.	0.	0.	6862.	2127.5	41369.	48231.
38	31327.	7323.	0.	0.	7323.	2138.2	44931.	52254.
39	21178.	7075.	0.	0.	7075.	2144.6	36574.	43649.
40	22096.	6742.	0.	0.	6742.	2151.3	42272.	49014.
41	22084.	6651.	0.	0.	6651.	2157.1	51441.	58092.
42	19683.	6569.	0.	0.	6569.	2162.1	39211.	45780.
43	16050.	6538.	83.	0.	6621.	2165.7	39693.	46314.
44	18343.	6755.	345.	0.	7100.	2170.0	40250.	47350.
45	19675.	6719.	227.	0.	6946.	2174.8	36458.	43404.
46	18045.	6795.	321.	0.	7116.	2178.9	34372.	41488.
47	18653.	6871.	182.	0.	7053.	2183.4	36224.	43277.
48	12473.	7073.	0.	1065.	8138.	2185.0	23182.	31320.
49	11598.	7295.	0.	4303.	11598.	2185.0	26523.	38121.
50	15857.	7477.	0.	8380.	15857.	2185.0	35380.	51237.
51	11686.	7639.	0.	4047.	11686.	2185.0	20434.	32120.
52	5278.	7759.	0.	0.	7759.	2183.9	12863.	20622.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1973 1	4296.	8028.	0.	0.	8028.	2182.5	10816.	18844.
2	3976.	6689.	0.	0.	6689.	2181.5	8067.	14756.
3	5515.	7170.	0.	0.	7170.	2180.8	10984.	18154.
4	4090.	7639.	0.	0.	7639.	2179.5	7975.	15614.
5	2727.	8083.	0.	0.	8083.	2177.5	5595.	13678.
6	2210.	8591.	0.	0.	8591.	2175.0	4581.	13172.
7	1887.	9048.	0.	0.	9048.	2172.3	4095.	13143.
8	1738.	9537.	0.	0.	9537.	2169.4	3517.	13054.
9	1519.	10025.	0.	0.	10025.	2166.1	3377.	13402.
10	1356.	10657.	0.	0.	10657.	2162.6	3427.	14084.
11	1210.	10963.	0.	0.	10963.	2158.9	3139.	14102.
12	1186.	10587.	0.	0.	10587.	2155.3	3215.	13802.
13	1186.	9880.	0.	0.	9880.	2152.0	2879.	12759.
14	1051.	9522.	0.	0.	9522.	2148.6	2492.	12014.
15	1026.	9520.	0.	0.	9520.	2144.8	2335.	11855.
16	1026.	9506.	0.	0.	9506.	2140.9	2280.	11786.
17	1026.	9522.	0.	0.	9522.	2137.1	2183.	11705.
18	1035.	9508.	0.	0.	9508.	2133.3	2217.	11725.
19	1008.	9542.	0.	0.	9542.	2129.5	2153.	11695.
20	1008.	9542.	0.	0.	9542.	2125.6	2082.	11624.
21	1008.	9445.	0.	0.	9445.	2121.8	2049.	11494.
22	929.	9307.	0.	0.	9307.	2118.1	1926.	11233.
23	868.	8729.	0.	0.	8729.	2114.5	1733.	10462.
24	868.	8345.	0.	0.	8345.	2111.2	1748.	10093.
25	868.	7945.	0.	0.	7945.	2108.0	1620.	9565.
26	868.	7745.	0.	0.	7745.	2104.9	1559.	9304.
27	879.	7589.	0.	0.	7589.	2101.9	1422.	9011.
28	879.	7281.	0.	0.	7281.	2098.8	1597.	8878.
29	879.	6985.	0.	0.	6985.	2095.6	1645.	8630.
30	929.	6636.	0.	0.	6636.	2092.5	2066.	8702.
31	1227.	6304.	0.	0.	6304.	2089.8	2974.	9278.
32	2355.	6230.	0.	0.	6230.	2087.8	6272.	12502.
33	8066.	6541.	0.	0.	6541.	2088.6	20237.	26778.
34	11109.	6868.	0.	0.	6868.	2090.8	21534.	28402.
35	13811.	7211.	0.	0.	7211.	2094.3	22105.	29316.
36	17385.	7072.	0.	0.	7072.	2099.8	28218.	35290.
37	28985.	6862.	0.	0.	6862.	2109.8	45728.	52590.
38	31344.	6657.	0.	0.	6657.	2120.9	50806.	57463.
39	20593.	6408.	0.	0.	6408.	2127.3	40551.	46959.
40	18980.	6923.	0.	0.	6923.	2132.7	35111.	42034.
41	18143.	6842.	172.	0.	7014.	2137.7	36870.	43884.
42	13728.	6765.	734.	0.	7499.	2140.5	28348.	35847.
43	14810.	6737.	644.	0.	7381.	2143.9	30014.	37395.
44	15752.	6954.	141.	0.	7095.	2147.8	29242.	36337.
45	18754.	6725.	0.	0.	6725.	2152.7	32837.	39562.
46	14942.	6999.	186.	0.	7185.	2155.6	22883.	30068.
47	19441.	6641.	0.	0.	6641.	2160.5	40301.	46942.
48	20593.	6458.	0.	0.	6458.	2165.9	33464.	39922.
49	11210.	6668.	0.	0.	6668.	2167.6	22940.	29608.
50	7823.	6845.	0.	0.	6845.	2167.9	16483.	23328.
51	6605.	5617.	0.	0.	5617.	2168.3	10941.	16558.
52	5366.	5536.	0.	0.	5536.	2168.3	6541.	12077.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1974 1	4607.	5352.	0.	0.	5352.	2168.0	7898.	13250.
2	3710.	5351.	0.	0.	5351.	2167.3	5392.	10743.
3	2558.	5736.	0.	0.	5736.	2166.1	4142.	9878.
4	1938.	6111.	0.	0.	6111.	2164.6	3876.	9987.
5	1693.	6466.	0.	0.	6466.	2162.7	3178.	9644.
6	1459.	6873.	0.	0.	6873.	2160.7	2849.	9722.
7	1344.	7238.	0.	0.	7238.	2158.4	2809.	10047.
8	1230.	7630.	0.	0.	7630.	2156.0	2638.	10268.
9	1129.	8020.	0.	0.	8020.	2153.4	2676.	10696.
10	1028.	8526.	0.	0.	8526.	2150.5	2424.	10950.
11	926.	8770.	0.	0.	8770.	2147.1	2256.	11026.
12	881.	8470.	0.	0.	8470.	2143.7	2014.	10484.
13	854.	7904.	0.	0.	7904.	2140.5	2042.	9946.
14	816.	7618.	0.	0.	7618.	2137.5	1907.	9525.
15	811.	7616.	0.	0.	7616.	2134.4	1861.	9477.
16	778.	7605.	0.	0.	7605.	2131.3	1821.	9426.
17	765.	7618.	0.	0.	7618.	2128.3	1776.	9394.
18	745.	7606.	0.	0.	7606.	2125.2	1774.	9380.
19	707.	7634.	0.	0.	7634.	2122.1	1835.	9469.
20	694.	7634.	0.	0.	7634.	2118.9	1808.	9442.
21	662.	7556.	0.	0.	7556.	2115.8	1801.	9357.
22	663.	7446.	0.	0.	7446.	2112.8	1742.	9188.
23	648.	6983.	0.	0.	6983.	2109.9	1741.	8724.
24	636.	6676.	0.	0.	6676.	2107.2	1654.	8330.
25	605.	6356.	0.	0.	6356.	2104.6	1579.	7935.
26	605.	6196.	0.	0.	6196.	2102.1	1557.	7753.
27	594.	6071.	0.	0.	6071.	2099.6	1538.	7609.
28	620.	5825.	0.	0.	5825.	2096.8	1550.	7375.
29	747.	5588.	0.	0.	5588.	2094.2	1652.	7240.
30	1189.	5309.	0.	0.	5309.	2092.1	2183.	7492.
31	2059.	5043.	0.	0.	5043.	2090.5	3786.	8829.
32	5341.	4984.	0.	0.	4984.	2090.7	7932.	12916.
33	9964.	5233.	0.	0.	5233.	2093.2	11552.	16785.
34	22246.	5494.	0.	0.	5494.	2101.8	22257.	27751.
35	25280.	5769.	0.	0.	5769.	2110.5	32080.	37849.
36	16013.	7072.	0.	0.	7072.	2114.6	23143.	30215.
37	13675.	6862.	0.	0.	6862.	2117.6	25661.	32523.
38	12785.	6657.	0.	0.	6657.	2120.4	27973.	34630.
39	13651.	6408.	0.	0.	6408.	2123.6	34730.	41138.
40	14383.	6440.	0.	0.	6440.	2127.2	34556.	40996.
41	17876.	5954.	0.	0.	5954.	2132.6	37136.	43090.
42	16396.	6082.	0.	0.	6082.	2137.2	37582.	43664.
43	15766.	6195.	0.	0.	6195.	2141.5	35415.	41610.
44	14730.	6056.	0.	0.	6056.	2145.4	32889.	38945.
45	15504.	5818.	0.	0.	5818.	2149.8	35025.	40843.
46	13265.	6279.	0.	0.	6279.	2152.5	31368.	37647.
47	10498.	6847.	0.	0.	6847.	2153.9	22767.	29614.
48	14244.	6114.	0.	0.	6114.	2156.9	34805.	40919.
49	13395.	5334.	0.	0.	5334.	2160.0	28621.	33955.
50	7511.	5476.	0.	0.	5476.	2160.8	16851.	22327.
51	7590.	5617.	0.	0.	5617.	2161.5	14334.	19951.
52	9984.	5536.	0.	0.	5536.	2163.5	16747.	22283.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
			ENVIRON. RELEASE	EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1975 1	4537.	5352.	0.	0.	5352.	2163.1	9607.	14959.
2	4509.	5351.	0.	0.	5351.	2162.8	8377.	13728.
3	2402.	5736.	0.	0.	5736.	2161.6	5187.	10923.
4	1602.	6111.	0.	0.	6111.	2159.8	4688.	10799.
5	1468.	6466.	0.	0.	6466.	2157.9	3977.	10443.
6	1478.	6873.	0.	0.	6873.	2155.9	3213.	10086.
7	1478.	7238.	0.	0.	7238.	2153.7	2895.	10133.
8	1478.	7630.	0.	0.	7630.	2151.4	2667.	10297.
9	1461.	8020.	0.	0.	8020.	2148.7	2799.	10819.
10	1264.	8526.	0.	0.	8526.	2145.4	2732.	11258.
11	1264.	8770.	0.	0.	8770.	2142.0	2670.	11440.
12	1264.	8470.	0.	0.	8470.	2138.8	2730.	11200.
13	1264.	7904.	0.	0.	7904.	2135.8	2715.	10619.
14	1270.	7618.	0.	0.	7618.	2133.0	2586.	10204.
15	1203.	7616.	0.	0.	7616.	2130.1	2438.	10054.
16	1203.	7605.	0.	0.	7605.	2127.2	2238.	9843.
17	1203.	7618.	0.	0.	7618.	2124.3	2144.	9762.
18	1200.	7606.	0.	0.	7606.	2121.4	2243.	9849.
19	1123.	7634.	0.	0.	7634.	2118.5	2171.	9805.
20	1123.	7634.	0.	0.	7634.	2115.6	1958.	9592.
21	1081.	7556.	0.	0.	7556.	2112.7	1931.	9487.
22	1051.	7446.	0.	0.	7446.	2109.8	1947.	9393.
23	1040.	6983.	0.	0.	6983.	2107.1	1816.	8799.
24	1040.	6676.	0.	0.	6676.	2104.6	1862.	8538.
25	1040.	6356.	0.	0.	6356.	2102.2	1888.	8244.
26	1040.	6196.	0.	0.	6196.	2099.8	1805.	8001.
27	1036.	6071.	0.	0.	6071.	2097.2	1880.	7951.
28	1047.	5825.	0.	0.	5825.	2094.6	1880.	7705.
29	1142.	5588.	0.	0.	5588.	2092.2	1896.	7484.
30	1354.	5309.	0.	0.	5309.	2090.1	2247.	7556.
31	2133.	5043.	0.	0.	5043.	2088.6	3183.	8226.
32	5138.	4984.	0.	0.	4984.	2088.7	5011.	9995.
33	11291.	5233.	0.	0.	5233.	2091.9	16293.	21526.
34	17252.	5494.	0.	0.	5494.	2098.2	25582.	31076.
35	23081.	5769.	0.	0.	5769.	2106.2	40766.	46535.
36	30459.	5658.	0.	0.	5658.	2117.4	41360.	47018.
37	22880.	6862.	0.	0.	6862.	2124.6	37868.	44730.
38	28749.	7365.	0.	0.	7365.	2134.2	45486.	52851.
39	25700.	7110.	0.	0.	7110.	2142.6	46696.	53806.
40	23413.	6757.	0.	0.	6757.	2150.0	45659.	52416.
41	25455.	6656.	0.	0.	6656.	2157.2	55392.	62048.
42	24131.	6561.	0.	0.	6561.	2163.9	50126.	56687.
43	22076.	6513.	0.	0.	6513.	2169.8	37889.	44402.
44	20265.	6714.	0.	0.	6714.	2174.9	37804.	44518.
45	16199.	6681.	0.	0.	6681.	2178.5	54790.	61471.
46	15474.	6765.	0.	0.	6765.	2181.8	36452.	43217.
47	13658.	6853.	0.	0.	6853.	2184.4	26422.	33275.
48	11762.	7075.	0.	3196.	10271.	2185.0	23357.	33628.
49	9359.	7289.	0.	2070.	9359.	2185.0	22501.	31860.
50	15849.	7477.	0.	8372.	15849.	2185.0	28651.	44500.
51	14847.	7647.	0.	7200.	14847.	2185.0	26785.	41632.
52	12513.	7768.	0.	4745.	12513.	2185.0	19292.	31805.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1976 1	7559.	8028.	0.	0.	8028.	2184.8	13771.	21799.
2	6664.	8027.	0.	0.	8027.	2184.3	12410.	20437.
3	6139.	8604.	0.	0.	8604.	2183.4	9346.	17950.
4	3621.	9167.	0.	0.	9167.	2181.3	5813.	14980.
5	2720.	8083.	0.	0.	8083.	2179.2	4262.	12345.
6	1937.	8591.	0.	0.	8591.	2176.7	3246.	11837.
7	1475.	9048.	0.	0.	9048.	2173.8	2930.	11978.
8	1173.	9537.	0.	0.	9537.	2170.6	2536.	12073.
9	1011.	10025.	0.	0.	10025.	2167.2	2485.	12510.
10	925.	10657.	0.	0.	10657.	2163.5	2271.	12928.
11	890.	10963.	0.	0.	10963.	2159.7	2206.	13169.
12	855.	10587.	0.	0.	10587.	2156.0	2091.	12678.
13	809.	9880.	0.	0.	9880.	2152.6	2084.	11964.
14	778.	9522.	0.	0.	9522.	2149.1	2070.	11592.
15	778.	9520.	0.	0.	9520.	2145.2	2028.	11548.
16	750.	9506.	0.	0.	9506.	2141.2	1927.	11433.
17	739.	9522.	0.	0.	9522.	2137.3	1949.	11471.
18	741.	9508.	0.	0.	9508.	2133.3	1926.	11434.
19	746.	9542.	0.	0.	9542.	2129.4	1936.	11478.
20	746.	9542.	0.	0.	9542.	2125.4	2221.	11763.
21	746.	9445.	0.	0.	9445.	2121.5	2099.	11544.
22	726.	9307.	0.	0.	9307.	2117.6	2102.	11409.
23	687.	8729.	0.	0.	8729.	2114.0	2086.	10815.
24	687.	8345.	0.	0.	8345.	2110.6	1866.	10211.
25	687.	7945.	0.	0.	7945.	2107.3	1857.	9802.
26	687.	7745.	0.	0.	7745.	2104.1	1874.	9619.
27	644.	7589.	0.	0.	7589.	2101.0	1887.	9476.
28	675.	7281.	0.	0.	7281.	2097.7	2055.	9336.
29	839.	6985.	0.	0.	6985.	2094.4	2702.	9687.
30	1402.	6636.	0.	0.	6636.	2091.6	3608.	10244.
31	3440.	6304.	0.	0.	6304.	2090.1	8823.	15127.
32	9778.	6230.	0.	0.	6230.	2092.0	24617.	30847.
33	9397.	6541.	0.	0.	6541.	2093.5	19660.	26201.
34	9828.	6868.	0.	0.	6868.	2095.1	21288.	28156.
35	11375.	7211.	0.	0.	7211.	2097.3	27185.	34396.
36	23100.	7072.	0.	0.	7072.	2104.9	42594.	49666.
37	24887.	6862.	0.	0.	6862.	2113.0	53847.	60709.
38	17525.	6657.	0.	0.	6657.	2117.9	38012.	44669.
39	16928.	6408.	0.	0.	6408.	2122.7	43696.	50104.
40	16991.	6662.	0.	0.	6662.	2127.3	39034.	45696.
41	16954.	6668.	0.	0.	6668.	2131.9	43512.	50180.
42	16164.	6778.	0.	0.	6778.	2136.2	46646.	53424.
43	16576.	6719.	0.	0.	6719.	2140.6	42245.	48964.
44	20226.	6981.	531.	0.	7512.	2146.3	39152.	46664.
45	26317.	6920.	683.	0.	7603.	2154.0	36900.	44503.
46	19534.	6983.	980.	0.	7963.	2158.4	37247.	45210.
47	15004.	7069.	1136.	0.	8204.	2161.0	47124.	55328.
48	10554.	7284.	1087.	0.	8371.	2161.8	24126.	32497.
49	6302.	6573.	0.	0.	6573.	2161.7	17448.	24021.
50	5160.	5830.	0.	0.	5830.	2161.4	15076.	20906.
51	5190.	5617.	0.	0.	5617.	2161.3	15865.	21482.
52	5530.	5536.	0.	0.	5536.	2161.3	15413.	20949.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1977 1	3729.	5352.	0.	0.	5352.	2160.7	11484.	16836.
2	3045.	5351.	0.	0.	5351.	2159.8	9623.	14974.
3	2903.	5736.	0.	0.	5736.	2158.7	7534.	13270.
4	2576.	6111.	0.	0.	6111.	2157.4	7396.	13507.
5	2139.	6466.	0.	0.	6466.	2155.7	5983.	12449.
6	1963.	6873.	0.	0.	6873.	2153.9	5124.	11997.
7	1839.	7238.	0.	0.	7238.	2151.8	4494.	11732.
8	1736.	7630.	0.	0.	7630.	2149.5	4087.	11717.
9	2097.	8020.	0.	0.	8020.	2146.8	4818.	12838.
10	1902.	8526.	0.	0.	8526.	2143.8	4344.	12870.
11	1722.	8770.	0.	0.	8770.	2140.7	3627.	12397.
12	1583.	8470.	0.	0.	8470.	2137.6	3548.	12018.
13	1462.	7904.	0.	0.	7904.	2134.7	3458.	11362.
14	1442.	7618.	0.	0.	7618.	2131.9	3254.	10872.
15	1400.	7616.	0.	0.	7616.	2129.1	2989.	10605.
16	1326.	7605.	0.	0.	7605.	2126.3	2741.	10346.
17	1294.	7618.	0.	0.	7618.	2123.4	2665.	10283.
18	1257.	7606.	0.	0.	7606.	2120.6	2389.	9995.
19	1219.	7634.	0.	0.	7634.	2117.7	2299.	9933.
20	1197.	7634.	0.	0.	7634.	2114.8	2164.	9798.
21	1197.	7556.	0.	0.	7556.	2111.9	2278.	9834.
22	1156.	7446.	0.	0.	7446.	2109.1	2202.	9648.
23	1106.	6983.	0.	0.	6983.	2106.5	2170.	9153.
24	1106.	6676.	0.	0.	6676.	2104.0	2113.	8789.
25	1106.	6356.	0.	0.	6356.	2101.6	2066.	8422.
26	1106.	6196.	0.	0.	6196.	2099.2	2064.	8260.
27	1149.	6071.	0.	0.	6071.	2096.6	2277.	8348.
28	1149.	5825.	0.	0.	5825.	2094.1	2146.	7971.
29	1211.	5588.	0.	0.	5588.	2091.7	2165.	7753.
30	1272.	5309.	0.	0.	5309.	2089.6	2217.	7526.
31	1314.	5043.	0.	0.	5043.	2087.6	3006.	8049.
32	2267.	4984.	0.	0.	4984.	2086.2	5270.	10254.
33	8205.	5233.	0.	0.	5233.	2087.7	13367.	18600.
34	12588.	5494.	0.	0.	5494.	2091.5	22277.	27771.
35	19531.	5769.	0.	0.	5769.	2098.9	41816.	47585.
36	29414.	5658.	0.	0.	5658.	2109.7	57693.	63351.
37	38957.	5490.	0.	0.	5490.	2124.8	72883.	78373.
38	31928.	6657.	0.	0.	6657.	2136.1	60471.	67128.
39	28489.	7080.	0.	0.	7080.	2145.8	60832.	67912.
40	18502.	6738.	0.	0.	6738.	2150.9	43168.	49906.
41	20572.	6657.	0.	0.	6657.	2156.2	46721.	53378.
42	21740.	6573.	0.	0.	6573.	2161.9	54579.	61152.
43	18089.	6536.	0.	0.	6536.	2166.3	45889.	52425.
44	19531.	6746.	0.	0.	6746.	2171.2	42818.	49564.
45	18939.	6708.	0.	0.	6708.	2175.8	43045.	49753.
46	17328.	6786.	28.	0.	6814.	2179.8	44644.	51458.
47	17519.	6865.	0.	0.	6865.	2183.9	49949.	56814.
48	11066.	7070.	0.	1012.	8082.	2185.0	27357.	35439.
49	8643.	7287.	0.	1356.	8643.	2185.0	23596.	32239.
50	12235.	7469.	0.	4766.	12235.	2185.0	25375.	37610.
51	11736.	7640.	0.	4097.	11736.	2185.0	25004.	36740.
52	9877.	7761.	0.	2116.	9877.	2185.0	21284.	31161.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1978 1	6782.	8028.	0.	0.	8028.	2184.5	14654.	22682.
2	6882.	8027.	0.	0.	8027.	2184.1	13484.	21511.
3	6046.	8604.	0.	0.	8604.	2183.1	10913.	19517.
4	4510.	9167.	0.	0.	9167.	2181.4	8369.	17536.
5	3355.	9700.	0.	0.	9700.	2178.9	7241.	16941.
6	2862.	8591.	0.	0.	8591.	2176.8	5514.	14105.
7	2578.	9048.	0.	0.	9048.	2174.3	4601.	13649.
8	2392.	9537.	0.	0.	9537.	2171.6	4139.	13676.
9	2223.	10025.	0.	0.	10025.	2168.6	3975.	14000.
10	2108.	12278.	0.	0.	12278.	2164.8	3683.	15961.
11	2015.	12583.	0.	0.	12583.	2160.8	3564.	16147.
12	1955.	12250.	0.	0.	12250.	2156.8	3421.	15671.
13	1808.	11613.	0.	0.	11613.	2153.1	3462.	15075.
14	1741.	11305.	0.	0.	11305.	2149.4	3460.	14765.
15	1641.	11316.	0.	0.	11316.	2145.0	3098.	14414.
16	1557.	11336.	0.	0.	11336.	2140.6	3028.	14364.
17	1496.	11358.	0.	0.	11358.	2136.2	2800.	14158.
18	1403.	11373.	0.	0.	11373.	2131.7	2636.	14009.
19	1285.	11445.	0.	0.	11445.	2127.2	2434.	13879.
20	1247.	11440.	0.	0.	11440.	2122.6	2285.	13725.
21	1247.	11334.	0.	0.	11334.	2118.0	2148.	13482.
22	1212.	11168.	0.	0.	11168.	2113.6	2009.	13177.
23	1258.	10475.	0.	0.	10475.	2109.4	1958.	12433.
24	1258.	10014.	0.	0.	10014.	2105.5	1917.	11931.
25	1258.	9534.	0.	0.	9534.	2101.7	1805.	11339.
26	1275.	9294.	0.	0.	9294.	2097.8	1925.	11219.
27	1251.	9107.	0.	0.	9107.	2093.6	2201.	11308.
28	1251.	8737.	0.	0.	8737.	2089.6	2126.	10863.
29	1251.	8382.	0.	0.	8382.	2085.8	2252.	10634.
30	1322.	7963.	0.	0.	7963.	2082.3	2667.	10630.
31	3355.	7565.	0.	0.	7565.	2080.1	3414.	10979.
32	11862.	6230.	0.	0.	6230.	2083.1	8877.	15107.
33	16195.	6541.	0.	0.	6541.	2088.2	12493.	19034.
34	10959.	6868.	0.	0.	6868.	2090.4	11593.	18461.
35	11660.	7211.	0.	0.	7211.	2092.7	13538.	20749.
36	13979.	7072.	0.	0.	7072.	2096.4	22658.	29730.
37	19417.	6862.	0.	0.	6862.	2102.6	33158.	40020.
38	16614.	6657.	0.	0.	6657.	2107.1	28603.	35260.
39	20703.	5917.	0.	0.	5917.	2113.7	33607.	39524.
40	19608.	5294.	0.	0.	5294.	2120.2	40752.	46046.
41	18215.	5486.	0.	0.	5486.	2125.9	39779.	45265.
42	18416.	5459.	0.	0.	5459.	2131.7	44265.	49724.
43	18064.	5507.	0.	0.	5507.	2137.4	45105.	50612.
44	16600.	4845.	0.	0.	4845.	2142.7	46171.	51016.
45	15674.	4826.	0.	0.	4826.	2147.6	43066.	47892.
46	14572.	4907.	0.	0.	4907.	2151.6	39252.	44159.
47	12160.	5331.	0.	0.	5331.	2154.2	29600.	34931.
48	8756.	6070.	0.	0.	6070.	2155.2	22382.	28452.
49	9287.	6073.	0.	0.	6073.	2156.4	25721.	31794.
50	8372.	5476.	0.	0.	5476.	2157.5	20595.	26071.
51	6293.	5617.	0.	0.	5617.	2157.8	15643.	21260.
52	4696.	5536.	0.	0.	5536.	2157.4	10946.	16482.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1979 1	4195.	5352.	0.	0.	5352.	2157.0	9103.	14455.
2	4701.	5351.	0.	0.	5351.	2156.7	7886.	13237.
3	3796.	5736.	0.	0.	5736.	2156.0	6873.	12609.
4	2849.	6111.	0.	0.	6111.	2154.8	5346.	11457.
5	2736.	6466.	0.	0.	6466.	2153.4	5220.	11686.
6	2368.	6873.	0.	0.	6873.	2151.6	4987.	11860.
7	1774.	7238.	0.	0.	7238.	2149.5	4137.	11375.
8	1558.	7630.	0.	0.	7630.	2146.8	3816.	11446.
9	1502.	8020.	0.	0.	8020.	2143.8	3720.	11740.
10	1483.	8526.	0.	0.	8526.	2140.7	3571.	12097.
11	1349.	8770.	0.	0.	8770.	2137.3	3461.	12231.
12	1214.	8470.	0.	0.	8470.	2134.1	3181.	11651.
13	1170.	7904.	0.	0.	7904.	2131.0	3092.	10996.
14	1185.	7618.	0.	0.	7618.	2128.1	2726.	10344.
15	1138.	7616.	0.	0.	7616.	2125.2	2862.	10478.
16	1138.	7605.	0.	0.	7605.	2122.3	2644.	10249.
17	1138.	7618.	0.	0.	7618.	2119.4	2572.	10190.
18	1059.	7606.	0.	0.	7606.	2116.5	2346.	9952.
19	1067.	7634.	0.	0.	7634.	2113.5	2258.	9892.
20	1067.	7634.	0.	0.	7634.	2110.5	2091.	9725.
21	1067.	7556.	0.	0.	7556.	2107.6	2125.	9681.
22	989.	7446.	0.	0.	7446.	2104.7	2083.	9529.
23	1113.	6983.	0.	0.	6983.	2102.1	1786.	8769.
24	1113.	6676.	0.	0.	6676.	2099.5	1851.	8527.
25	1113.	6356.	0.	0.	6356.	2096.7	1772.	8128.
26	1113.	6196.	0.	0.	6196.	2094.0	1838.	8034.
27	1064.	6071.	0.	0.	6071.	2091.3	1919.	7990.
28	1113.	5825.	0.	0.	5825.	2088.8	2006.	7831.
29	1228.	5588.	0.	0.	5588.	2086.5	2123.	7711.
30	1545.	5309.	0.	0.	5309.	2084.5	3403.	8712.
31	2451.	5043.	0.	0.	5043.	2083.1	6342.	11385.
32	4633.	4984.	0.	0.	4984.	2082.9	13816.	18800.
33	10811.	5233.	0.	0.	5233.	2085.9	20694.	25927.
34	17246.	5494.	0.	0.	5494.	2092.2	25018.	30512.
35	28470.	5769.	0.	0.	5769.	2103.6	41252.	47021.
36	25470.	6984.	0.	0.	6984.	2111.9	33630.	40614.
37	21379.	7308.	0.	0.	7308.	2118.2	32106.	39414.
38	19302.	7470.	3.	0.	7473.	2123.6	31386.	38859.
39	23880.	7109.	0.	0.	7109.	2131.1	41013.	48122.
40	22832.	6883.	0.	0.	6883.	2138.3	45441.	52324.
41	22584.	6768.	0.	0.	6768.	2145.4	48664.	55432.
42	27495.	6655.	0.	0.	6655.	2154.0	65760.	72415.
43	28100.	6588.	0.	0.	6588.	2162.2	55539.	62127.
44	21732.	6778.	0.	0.	6778.	2167.9	53499.	60277.
45	20346.	6735.	0.	0.	6735.	2173.0	46996.	53731.
46	16431.	6811.	0.	0.	6811.	2176.7	45357.	52168.
47	13993.	6898.	0.	0.	6898.	2179.4	36663.	43561.
48	12415.	7103.	0.	0.	7103.	2181.4	25603.	32706.
49	7911.	7315.	0.	0.	7315.	2181.6	14375.	21690.
50	7704.	7486.	0.	0.	7486.	2181.7	14820.	22306.
51	11339.	7652.	0.	0.	7652.	2183.1	15866.	23518.
52	8978.	7769.	0.	0.	7769.	2183.6	13798.	21567.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1980 1	6672.	8028.	0.	0.	8028.	2183.1	12101.	20129.
2	8469.	6689.	0.	0.	6689.	2183.8	14306.	20995.
3	5948.	7170.	0.	0.	7170.	2183.3	8657.	15827.
4	4395.	7639.	0.	0.	7639.	2182.1	6957.	14596.
5	4084.	8083.	0.	0.	8083.	2180.6	6222.	14305.
6	3698.	8591.	0.	0.	8591.	2178.7	5933.	14524.
7	4120.	9048.	0.	0.	9048.	2176.9	6070.	15118.
8	2949.	11230.	0.	0.	11230.	2173.7	3864.	15094.
9	2811.	11671.	0.	0.	11671.	2170.3	4079.	15750.
10	2297.	12250.	0.	0.	12250.	2166.6	3174.	15424.
11	2069.	12553.	0.	0.	12553.	2162.6	2862.	15415.
12	1890.	12220.	0.	0.	12220.	2158.7	2894.	15114.
13	1711.	11585.	0.	0.	11585.	2154.9	2724.	14309.
14	1607.	11278.	0.	0.	11278.	2151.2	2561.	13839.
15	1535.	11287.	0.	0.	11287.	2147.1	2560.	13847.
16	1451.	11299.	0.	0.	11299.	2142.6	2464.	13763.
17	1379.	11322.	0.	0.	11322.	2138.2	2417.	13739.
18	1345.	11337.	0.	0.	11337.	2133.7	2315.	13652.
19	1285.	11408.	0.	0.	11408.	2129.1	2312.	13720.
20	1224.	11403.	0.	0.	11403.	2124.5	2197.	13600.
21	1176.	11334.	0.	0.	11334.	2120.0	2168.	13502.
22	1175.	11168.	0.	0.	11168.	2115.5	2226.	13394.
23	1177.	10475.	0.	0.	10475.	2111.3	2092.	12567.
24	1177.	10014.	0.	0.	10014.	2107.3	2053.	12067.
25	1177.	9534.	0.	0.	9534.	2103.6	1920.	11454.
26	1177.	9294.	0.	0.	9294.	2099.9	2016.	11310.
27	1122.	9107.	0.	0.	9107.	2095.7	2085.	11192.
28	1122.	8737.	0.	0.	8737.	2091.6	2240.	10977.
29	1179.	8382.	0.	0.	8382.	2087.8	2390.	10772.
30	1604.	7963.	0.	0.	7963.	2084.4	3458.	11421.
31	3462.	7565.	0.	0.	7565.	2082.2	5523.	13088.
32	8212.	6230.	0.	0.	6230.	2083.2	7298.	13528.
33	11764.	6541.	0.	0.	6541.	2086.0	9555.	16096.
34	10518.	6868.	0.	0.	6868.	2088.0	11918.	18786.
35	16714.	7211.	0.	0.	7211.	2093.0	20843.	28054.
36	25823.	7072.	0.	0.	7072.	2102.5	31875.	38947.
37	20349.	6862.	0.	0.	6862.	2108.6	32015.	38877.
38	26351.	6657.	0.	0.	6657.	2117.5	38488.	45145.
39	22988.	6408.	0.	0.	6408.	2124.9	45585.	51993.
40	26281.	6061.	0.	0.	6061.	2134.0	42871.	48932.
41	26663.	5954.	0.	0.	5954.	2143.3	50214.	56168.
42	28137.	6671.	0.	0.	6671.	2152.5	48793.	55464.
43	25275.	6605.	0.	0.	6605.	2159.6	49631.	56236.
44	28150.	6790.	0.	0.	6790.	2167.7	43028.	49818.
45	19051.	6738.	0.	0.	6738.	2172.4	31865.	38603.
46	18006.	6814.	0.	0.	6814.	2176.7	26325.	33139.
47	16331.	6894.	0.	0.	6894.	2180.2	25178.	32072.
48	11948.	7097.	0.	0.	7097.	2182.1	19444.	26541.
49	8723.	7307.	0.	0.	7307.	2182.6	16254.	23561.
50	9329.	7474.	0.	0.	7474.	2183.3	17123.	24597.
51	15679.	7647.	0.	3638.	11284.	2185.0	25652.	36936.
52	10243.	7762.	0.	2481.	10243.	2185.0	16282.	26525.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
			ENVIRON. RELEASE  (CFS)	VALVE EXCESS RELEASE  (CFS)				
1981 1	8532.	8216.	0.	316.	8532.	2185.0	12715.	21247.
2	7605.	8027.	0.	0.	8027.	2184.8	11098.	19125.
3	6326.	8604.	0.	0.	8604.	2184.0	9288.	17892.
4	5214.	9167.	0.	0.	9167.	2182.5	7722.	16889.
5	3950.	9700.	0.	0.	9700.	2180.3	6465.	16165.
6	3534.	10309.	0.	0.	10309.	2177.7	5930.	16239.
7	2637.	10811.	0.	0.	10811.	2174.6	4925.	15736.
8	2685.	11263.	0.	0.	11263.	2171.4	4720.	15983.
9	2707.	11707.	0.	0.	11707.	2167.9	4406.	16113.
10	2175.	12289.	0.	0.	12289.	2164.1	3565.	15854.
11	1678.	12595.	0.	0.	12595.	2159.9	2984.	15579.
12	1578.	12264.	0.	0.	12264.	2155.9	2722.	14986.
13	1516.	11629.	0.	0.	11629.	2152.0	2569.	14198.
14	1448.	11324.	0.	0.	11324.	2148.0	2685.	14009.
15	1684.	11341.	0.	0.	11341.	2143.6	2588.	13929.
16	1961.	11360.	0.	0.	11360.	2139.4	2577.	13937.
17	2118.	11378.	0.	0.	11378.	2135.2	2589.	13967.
18	2142.	11388.	0.	0.	11388.	2131.1	2479.	13867.
19	1911.	11450.	0.	0.	11450.	2126.8	2688.	14138.
20	1594.	11445.	0.	0.	11445.	2122.4	2484.	13929.
21	1265.	11334.	0.	0.	11334.	2117.8	2355.	13689.
22	1190.	11168.	0.	0.	11168.	2113.3	2253.	13421.
23	1194.	10475.	0.	0.	10475.	2109.2	2175.	12650.
24	1274.	10014.	0.	0.	10014.	2105.2	2173.	12187.
25	1297.	9534.	0.	0.	9534.	2101.5	2104.	11638.
26	1314.	9294.	0.	0.	9294.	2097.6	2108.	11402.
27	1238.	9107.	0.	0.	9107.	2093.4	2133.	11240.
28	1291.	8737.	0.	0.	8737.	2089.4	2159.	10896.
29	1373.	8382.	0.	0.	8382.	2085.7	2369.	10751.
30	1779.	7963.	0.	0.	7963.	2082.4	3676.	11639.
31	4737.	7565.	0.	0.	7565.	2080.9	9863.	17428.
32	17566.	6230.	0.	0.	6230.	2086.9	23148.	29378.
33	17640.	6541.	0.	0.	6541.	2092.8	25217.	31758.
34	11625.	6868.	0.	0.	6868.	2095.4	22489.	29357.
35	19077.	7211.	0.	0.	7211.	2101.4	30037.	37248.
36	16465.	7072.	0.	0.	7072.	2105.6	28792.	35864.
37	14949.	7035.	0.	0.	7035.	2109.2	28280.	35315.
38	16085.	6885.	0.	0.	6885.	2113.3	36215.	43100.
39	18788.	6531.	0.	0.	6531.	2118.9	41426.	47957.
40	14090.	6061.	0.	0.	6061.	2122.5	40053.	46114.
41	33261.	5954.	0.	0.	5954.	2134.7	82439.	88393.
42	32516.	5873.	0.	0.	5873.	2146.7	64655.	70528.
43	29007.	5838.	0.	0.	5838.	2156.0	58036.	63874.
44	31168.	6817.	0.	0.	6817.	2165.3	60861.	67678.
45	30077.	6741.	0.	0.	6741.	2174.2	52837.	59578.
46	38871.	6781.	0.	3537.	10318.	2185.0	64786.	75104.
47	30803.	6892.	0.	23911.	30803.	2185.0	46197.	77000.
48	20647.	7096.	0.	13551.	20647.	2185.0	40324.	60971.
49	15158.	7304.	0.	7855.	15158.	2185.0	29085.	44243.
50	12220.	7469.	0.	4751.	12220.	2185.0	21537.	33757.
51	10197.	7636.	0.	2561.	10197.	2185.0	17660.	27857.
52	8299.	7755.	0.	544.	8299.	2185.0	13451.	21750.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1982 1	5901.	8028.	0.	0.	8028.	2184.2	11313.	19341.
2	5560.	8027.	0.	0.	8027.	2183.3	10440.	18467.
3	5713.	8604.	0.	0.	8604.	2182.2	10501.	19105.
4	6627.	9167.	0.	0.	9167.	2181.2	11944.	21111.
5	3364.	8083.	0.	0.	8083.	2179.4	6565.	14648.
6	2845.	8591.	0.	0.	8591.	2177.2	5569.	14160.
7	2782.	9048.	0.	0.	9048.	2174.8	4489.	13537.
8	2339.	9537.	0.	0.	9537.	2172.1	3432.	12969.
9	2057.	11698.	0.	0.	11698.	2168.4	2857.	14555.
10	1971.	12281.	0.	0.	12281.	2164.5	2458.	14739.
11	1860.	12587.	0.	0.	12587.	2160.4	2183.	14770.
12	1794.	12255.	0.	0.	12255.	2156.5	2120.	14375.
13	1794.	11619.	0.	0.	11619.	2152.7	1863.	13482.
14	1697.	11312.	0.	0.	11312.	2148.9	1303.	12615.
15	1695.	11323.	0.	0.	11323.	2144.6	1805.	13128.
16	1695.	11343.	0.	0.	11343.	2140.3	1805.	13148.
17	1695.	11364.	0.	0.	11364.	2135.9	1805.	13169.
18	1729.	11377.	0.	0.	11377.	2131.6	1785.	13162.
19	1662.	11446.	0.	0.	11446.	2127.2	2167.	13613.
20	1213.	11440.	0.	0.	11440.	2122.6	2001.	13441.
21	881.	11334.	0.	0.	11334.	2117.9	1933.	13267.
22	767.	11168.	0.	0.	11168.	2113.2	1933.	13101.
23	826.	10475.	0.	0.	10475.	2108.8	1874.	12349.
24	826.	10014.	0.	0.	10014.	2104.7	1874.	11888.
25	874.	9534.	0.	0.	9534.	2100.8	1926.	11460.
26	1123.	9294.	0.	0.	9294.	2096.6	2263.	11557.
27	956.	9107.	0.	0.	9107.	2092.3	2401.	11508.
28	956.	7281.	0.	0.	7281.	2088.9	2344.	9625.
29	1057.	6985.	0.	0.	6985.	2085.8	2457.	9442.
30	1403.	6636.	0.	0.	6636.	2083.0	3126.	9762.
31	2641.	6304.	0.	0.	6304.	2081.0	3916.	10220.
32	6274.	6230.	0.	0.	6230.	2081.0	9640.	15870.
33	11618.	6541.	0.	0.	6541.	2083.7	19382.	25923.
34	15603.	6868.	0.	0.	6868.	2088.4	19397.	26265.
35	17916.	7211.	0.	0.	7211.	2094.1	28484.	35695.
36	21638.	7072.	0.	0.	7072.	2101.6	43748.	50820.
37	18090.	6862.	0.	0.	6862.	2106.6	37767.	44629.
38	23883.	6657.	0.	0.	6657.	2114.4	39217.	45874.
39	23173.	6408.	0.	0.	6408.	2121.9	46084.	52492.
40	16689.	6189.	0.	0.	6189.	2126.6	34811.	41000.
41	20637.	5954.	0.	0.	5954.	2133.2	37249.	43203.
42	20979.	5873.	0.	0.	5873.	2140.0	38407.	44280.
43	23533.	5838.	0.	0.	5838.	2148.0	54724.	60562.
44	20306.	6056.	0.	0.	6056.	2153.7	46908.	52964.
45	13970.	6341.	0.	0.	6341.	2156.6	35830.	42171.
46	12157.	6686.	0.	0.	6686.	2158.7	32886.	39572.
47	10610.	6981.	0.	0.	6981.	2160.1	27890.	34871.
48	11835.	6821.	0.	0.	6821.	2162.0	28336.	35157.
49	10670.	5334.	0.	0.	5334.	2164.0	27159.	32493.
50	13360.	5476.	0.	0.	5476.	2167.0	28611.	34087.
51	21010.	5617.	0.	0.	5617.	2172.8	55147.	60764.
52	11582.	5536.	0.	0.	5536.	2175.5	29168.	34704.

TABLE 6

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	OUTFLOW CONE VALVE		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
			ENVIRON. RELEASE  (CFS)	EXCESS RELEASE  (CFS)				
1983 1	7782.	5352.	0.	0.	5352.	2176.4	18318.	23670.
2	6119.	5351.	0.	0.	5351.	2176.7	13281.	18632.
3	4982.	5736.	0.	0.	5736.	2176.4	9832.	15568.
4	2921.	6111.	0.	0.	6111.	2175.2	9379.	15490.
5	2384.	6466.	0.	0.	6466.	2173.6	8059.	14525.
6	2252.	6873.	0.	0.	6873.	2171.9	6891.	13764.
7	2137.	9048.	0.	0.	9048.	2169.2	6077.	15125.
8	1997.	9537.	0.	0.	9537.	2166.4	5289.	14826.
9	1944.	10025.	0.	0.	10025.	2163.3	4842.	14867.
10	1850.	10657.	0.	0.	10657.	2160.0	4364.	15021.
11	1850.	10963.	0.	0.	10963.	2156.5	4079.	15042.
12	1850.	10587.	0.	0.	10587.	2153.2	3650.	14237.
13	1965.	9880.	0.	0.	9880.	2150.2	3764.	13644.
14	2201.	9522.	0.	0.	9522.	2146.9	4313.	13835.
15	1906.	9520.	0.	0.	9520.	2143.5	3537.	13057.
16	1690.	9506.	0.	0.	9506.	2140.0	3153.	12659.
17	1588.	9522.	0.	0.	9522.	2136.4	3083.	12605.
18	1553.	9508.	0.	0.	9508.	2132.8	3047.	12555.
19	1535.	9542.	0.	0.	9542.	2129.2	2979.	12521.
20	1650.	9542.	0.	0.	9542.	2125.7	3293.	12835.
21	1685.	9445.	0.	0.	9445.	2122.2	3101.	12546.
22	1583.	9307.	0.	0.	9307.	2118.7	2603.	11910.
23	1534.	8729.	0.	0.	8729.	2115.5	2295.	11024.
24	1437.	8345.	0.	0.	8345.	2112.4	2049.	10394.
25	1389.	7945.	0.	0.	7945.	2109.4	1854.	9799.
26	1280.	7745.	0.	0.	7745.	2106.5	1834.	9579.
27	1185.	7589.	0.	0.	7589.	2103.6	1972.	9561.
28	1208.	7281.	0.	0.	7281.	2100.9	2078.	9359.
29	1411.	6985.	0.	0.	6985.	2098.1	2489.	9474.
30	1907.	6636.	0.	0.	6636.	2095.6	3607.	10243.
31	3484.	6304.	0.	0.	6304.	2094.1	6345.	12649.
32	8419.	6230.	0.	0.	6230.	2095.3	14795.	21025.
33	14537.	6541.	0.	0.	6541.	2099.5	25663.	32204.
34	12909.	6868.	0.	0.	6868.	2102.3	24091.	30959.
35	18671.	7211.	0.	0.	7211.	2107.5	31029.	38240.
36	23758.	7072.	0.	0.	7072.	2115.0	32628.	39700.
37	17019.	6862.	0.	0.	6862.	2119.5	28252.	35114.
38	20754.	6657.	0.	0.	6657.	2125.9	36046.	42703.
39	20568.	7221.	0.	0.	7221.	2131.9	42732.	49953.
40	22463.	6875.	0.	0.	6875.	2138.9	40980.	47855.
41	19352.	6769.	0.	0.	6769.	2144.5	39591.	46360.
42	16152.	6684.	225.	0.	6909.	2148.7	31719.	38628.
43	17431.	6652.	93.	0.	6745.	2153.0	30640.	37385.
44	17935.	6868.	0.	0.	6868.	2157.2	34136.	41004.
45	22829.	6826.	0.	0.	6826.	2163.2	52371.	59197.
46	21149.	6890.	0.	0.	6890.	2168.7	43237.	50127.
47	18683.	6962.	0.	0.	6962.	2173.1	30517.	37479.
48	22728.	7143.	0.	0.	7143.	2179.0	30786.	37929.
49	15528.	7323.	0.	0.	7323.	2182.2	29672.	36995.
50	9607.	7478.	0.	0.	7478.	2183.0	17393.	24871.
51	8465.	7645.	0.	0.	7645.	2183.3	13106.	20751.
52	9728.	7766.	0.	0.	7766.	2184.1	12197.	19963.

**TABLE 7**

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE (CFS)	OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1951 1	4521.	5352.	0.	0.	5352.	2169.3	62998.	68350.
2	4029.	5351.	0.	0.	5351.	2168.8	62585.	67936.
3	3518.	5736.	0.	0.	5736.	2167.9	48402.	54138.
4	2007.	6111.	0.	0.	6111.	2166.4	33225.	39336.
5	1248.	6466.	0.	0.	6466.	2164.4	20455.	26921.
6	1176.	6873.	0.	0.	6873.	2162.2	14967.	21840.
7	1103.	7238.	0.	0.	7238.	2159.9	16309.	23547.
8	1042.	7630.	0.	0.	7630.	2157.4	10985.	18615.
9	994.	8020.	0.	0.	8020.	2154.7	9906.	17926.
10	903.	8526.	0.	0.	8526.	2151.8	10221.	18747.
11	903.	8770.	0.	0.	8770.	2148.6	9981.	18751.
12	903.	8470.	0.	0.	8470.	2145.2	7657.	16127.
13	903.	7904.	0.	0.	7904.	2142.1	7123.	15027.
14	828.	7618.	0.	0.	7618.	2139.0	6414.	14032.
15	812.	7616.	0.	0.	7616.	2136.0	6230.	13846.
16	812.	7605.	0.	0.	7605.	2132.9	7205.	14810.
17	812.	7618.	0.	0.	7618.	2129.8	7413.	15031.
18	757.	7606.	0.	0.	7606.	2126.8	8334.	15940.
19	667.	7634.	0.	0.	7634.	2123.6	8461.	16095.
20	667.	7634.	0.	0.	7634.	2120.5	7614.	15248.
21	667.	7556.	0.	0.	7556.	2117.4	7740.	15296.
22	641.	7446.	0.	0.	7446.	2114.3	6477.	13923.
23	618.	6983.	0.	0.	6983.	2111.5	6308.	13291.
24	618.	6676.	0.	0.	6676.	2108.8	5821.	12497.
25	618.	6356.	0.	0.	6356.	2106.2	5500.	11856.
26	618.	6196.	0.	0.	6196.	2103.7	6089.	12285.
27	542.	6071.	0.	0.	6071.	2101.2	5401.	11472.
28	700.	5825.	0.	0.	5825.	2098.7	6713.	12538.
29	1071.	5588.	0.	0.	5588.	2096.3	7221.	12809.
30	1861.	5309.	0.	0.	5309.	2094.4	10373.	15682.
31	4923.	5043.	0.	0.	5043.	2094.4	21948.	26991.
32	14338.	4984.	0.	0.	4984.	2099.3	52702.	57686.
33	15945.	5233.	0.	0.	5233.	2104.3	51865.	57098.
34	7915.	6868.	0.	0.	6868.	2104.7	59134.	66002.
35	13828.	7211.	0.	0.	7211.	2107.7	54386.	61597.
36	26696.	7072.	0.	0.	7072.	2116.5	75720.	82792.
37	19247.	7604.	0.	0.	7604.	2121.8	95159.	102763.
38	12238.	7447.	248.	0.	7695.	2123.8	82477.	90172.
39	17232.	7255.	0.	0.	7255.	2128.3	104624.	111879.
40	18464.	6926.	0.	0.	6926.	2133.5	104693.	111619.
41	21682.	6823.	0.	0.	6823.	2140.2	125688.	132511.
42	20740.	6716.	0.	0.	6716.	2146.5	107963.	114679.
43	19074.	6667.	0.	0.	6667.	2151.7	87266.	93933.
44	17891.	6879.	0.	0.	6879.	2155.9	95290.	102169.
45	14413.	6851.	0.	0.	6851.	2158.8	104434.	111285.
46	15312.	6134.	0.	0.	6134.	2162.3	85469.	91603.
47	14985.	6223.	0.	0.	6223.	2165.6	86192.	92415.
48	21048.	6458.	0.	0.	6458.	2171.2	69142.	75600.
49	24531.	6668.	0.	0.	6668.	2177.9	76023.	82691.
50	15237.	6845.	0.	0.	6845.	2181.1	61836.	68681.
51	15738.	7021.	0.	0.	7021.	2184.4	80725.	87746.
52	13323.	7769.	0.	4253.	12022.	2185.0	49337.	61359.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1952 1	7559.	8028.	0.	0.	8028.	2184.8	41000.	
2	5055.	8027.	0.	0.	8027.	2183.7	39619.	
3	3674.	8604.	0.	0.	8604.	2181.8	35125.	
4	2855.	7639.	0.	0.	7639.	2180.0	26547.	
5	2793.	8083.	0.	0.	8083.	2178.0	23289.	
6	2609.	8591.	0.	0.	8591.	2175.7	21147.	
7	1928.	9048.	0.	0.	9048.	2173.0	19918.	
8	1908.	9537.	0.	0.	9537.	2170.1	22083.	
9	1761.	10025.	0.	0.	10025.	2167.0	22861.	
10	1489.	10657.	0.	0.	10657.	2163.5	19872.	
11	1489.	10963.	0.	0.	10963.	2159.9	20743.	
12	1489.	10587.	0.	0.	10587.	2156.4	20057.	
13	1489.	9880.	0.	0.	9880.	2153.3	18378.	
14	1329.	9522.	0.	0.	9522.	2150.1	16123.	
15	1299.	9520.	0.	0.	9520.	2146.5	16131.	
16	1299.	9506.	0.	0.	9506.	2142.8	16252.	
17	1299.	9522.	0.	0.	9522.	2139.1	15944.	
18	1069.	9508.	0.	0.	9508.	2135.3	15195.	
19	819.	9542.	0.	0.	9542.	2131.4	14723.	
20	819.	9542.	0.	0.	9542.	2127.4	14646.	
21	819.	9445.	0.	0.	9445.	2123.6	14740.	
22	784.	9307.	0.	0.	9307.	2119.7	14523.	
23	730.	8729.	0.	0.	8729.	2116.1	14058.	
24	730.	8345.	0.	0.	8345.	2112.7	13636.	
25	730.	7945.	0.	0.	7945.	2109.5	12898.	
26	730.	7745.	0.	0.	7745.	2106.3	12105.	
27	796.	7589.	0.	0.	7589.	2103.3	11535.	
28	796.	7281.	0.	0.	7281.	2100.3	10705.	
29	796.	6985.	0.	0.	6985.	2097.1	10196.	
30	796.	6636.	0.	0.	6636.	2094.0	10957.	
31	909.	6304.	0.	0.	6304.	2091.1	11291.	
32	1132.	6230.	0.	0.	6230.	2088.4	19021.	
33	1549.	6541.	0.	0.	6541.	2085.7	37770.	
34	3357.	6868.	0.	0.	6868.	2083.9	51684.	
35	16784.	7211.	0.	0.	7211.	2089.0	62839.	
36	19892.	7072.	0.	0.	7072.	2095.8	79540.	
37	28174.	6862.	0.	0.	6862.	2106.0	73546.	
38	30555.	6657.	0.	0.	6657.	2116.8	79036.	
39	27039.	6408.	0.	0.	6408.	2126.1	96019.	
40	23527.	6061.	0.	0.	6061.	2133.9	95782.	
41	16714.	6085.	0.	0.	6085.	2138.7	98028.	
42	21361.	5873.	0.	0.	5873.	2145.7	101968.	
43	23150.	5838.	0.	0.	5838.	2152.9	100403.	
44	30727.	6056.	0.	0.	6056.	2162.3	98180.	
45	19888.	6785.	0.	0.	6785.	2167.3	104909.	
46	15618.	6864.	0.	0.	6864.	2170.6	100482.	
47	11855.	6956.	0.	0.	6956.	2172.4	78216.	
48	13935.	7164.	0.	0.	7164.	2175.0	61397.	
49	15561.	6668.	0.	0.	6668.	2178.4	55892.	
50	10522.	6845.	0.	0.	6845.	2179.8	53358.	
51	9086.	7021.	0.	0.	7021.	2180.6	55873.	
52	10876.	6920.	0.	0.	6920.	2182.3	71700.	

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1953 1	8559.	6690.	0.	0.	6690.	2183.0	40769.	47459.
2	7982.	6689.	0.	0.	6689.	2183.5	41172.	47861.
3	5556.	7170.	0.	0.	7170.	2182.9	28524.	35694.
4	4049.	7639.	0.	0.	7639.	2181.5	20851.	28490.
5	3948.	8083.	0.	0.	8083.	2180.0	19393.	27476.
6	3377.	8591.	0.	0.	8591.	2178.0	20544.	29135.
7	2164.	9048.	0.	0.	9048.	2175.4	15934.	24982.
8	2652.	11253.	0.	0.	11253.	2172.1	13515.	24768.
9	1913.	11698.	0.	0.	11698.	2168.4	13847.	25545.
10	1250.	12285.	0.	0.	12285.	2164.2	10431.	22716.
11	1250.	12595.	0.	0.	12595.	2159.9	8319.	20914.
12	1250.	12266.	0.	0.	12266.	2155.7	10184.	22450.
13	1250.	11633.	0.	0.	11633.	2151.7	8467.	20100.
14	880.	11331.	0.	0.	11331.	2147.4	8684.	20015.
15	820.	11355.	0.	0.	11355.	2142.6	7429.	18784.
16	820.	11383.	0.	0.	11383.	2137.9	7738.	19121.
17	820.	11412.	0.	0.	11412.	2133.1	7741.	19153.
18	722.	11410.	0.	0.	11410.	2128.3	6835.	18245.
19	598.	11450.	0.	0.	11450.	2123.4	6892.	18342.
20	598.	11450.	0.	0.	11450.	2118.5	6773.	18223.
21	598.	11334.	0.	0.	11334.	2113.7	5769.	17103.
22	606.	11168.	0.	0.	11168.	2109.0	5427.	16595.
23	678.	8729.	0.	0.	8729.	2105.3	5421.	14150.
24	678.	8345.	0.	0.	8345.	2101.9	4606.	12951.
25	678.	7945.	0.	0.	7945.	2098.4	4374.	12319.
26	678.	7745.	0.	0.	7745.	2094.6	4662.	12407.
27	486.	6071.	0.	0.	6071.	2091.6	4655.	10726.
28	486.	5825.	0.	0.	5825.	2088.8	4886.	10711.
29	785.	5588.	0.	0.	5588.	2086.2	5262.	10850.
30	1308.	5309.	0.	0.	5309.	2084.1	7007.	12316.
31	10007.	5043.	0.	0.	5043.	2086.7	16001.	21044.
32	13666.	4984.	0.	0.	4984.	2091.4	24909.	29893.
33	12435.	5233.	0.	0.	5233.	2095.2	38898.	44131.
34	21448.	5494.	0.	0.	5494.	2103.1	54197.	59691.
35	16652.	5769.	0.	0.	5769.	2108.0	59454.	65223.
36	27821.	7072.	0.	0.	7072.	2117.4	56281.	63353.
37	21482.	7587.	0.	0.	7587.	2123.6	69935.	77522.
38	17488.	7408.	0.	0.	7408.	2128.1	76463.	83871.
39	20466.	7195.	0.	0.	7195.	2134.1	100572.	107767.
40	17377.	6863.	0.	0.	6863.	2138.8	96408.	103271.
41	15695.	6779.	0.	0.	6779.	2142.8	105411.	112190.
42	17070.	6696.	0.	0.	6696.	2147.5	106151.	112847.
43	17745.	6661.	0.	0.	6661.	2152.1	94176.	100837.
44	20931.	6871.	0.	0.	6871.	2157.4	115882.	122753.
45	17859.	6832.	0.	0.	6832.	2161.6	119173.	126005.
46	14312.	6917.	0.	0.	6917.	2164.4	108785.	115702.
47	14731.	6223.	0.	0.	6223.	2167.7	89215.	95438.
48	17519.	6458.	0.	0.	6458.	2171.9	77389.	83847.
49	14058.	6668.	0.	0.	6668.	2174.7	71699.	78367.
50	12806.	6845.	0.	0.	6845.	2176.9	89036.	95881.
51	10679.	7021.	0.	0.	7021.	2178.3	128151.	135172.
52	8137.	6920.	0.	0.	6920.	2178.9	80179.	87099.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1954 1	6126.	6690.	0.	0.	6690.	2178.7	38642.	45332.
2	5080.	6689.	0.	0.	6689.	2178.0	43955.	50644.
3	3728.	7170.	0.	0.	7170.	2176.7	50431.	57601.
4	2971.	7639.	0.	0.	7639.	2175.0	35437.	43076.
5	1821.	8083.	0.	0.	8083.	2172.6	20541.	28624.
6	1738.	8591.	0.	0.	8591.	2170.0	20762.	29353.
7	1608.	9048.	0.	0.	9048.	2167.2	18067.	27115.
8	1497.	9537.	0.	0.	9537.	2164.1	14874.	24411.
9	1361.	10025.	0.	0.	10025.	2160.8	11131.	21156.
10	1174.	10657.	0.	0.	10657.	2157.2	9920.	20577.
11	1174.	10963.	0.	0.	10963.	2153.5	10934.	21897.
12	1174.	10587.	0.	0.	10587.	2149.9	9413.	20000.
13	1174.	9880.	0.	0.	9880.	2146.0	7726.	17606.
14	1120.	7618.	0.	0.	7618.	2143.1	8303.	15921.
15	1099.	7616.	0.	0.	7616.	2140.1	7980.	15596.
16	1099.	7605.	0.	0.	7605.	2137.2	7191.	14796.
17	1099.	7618.	0.	0.	7618.	2134.3	6242.	13860.
18	982.	7606.	0.	0.	7606.	2131.3	5730.	13336.
19	794.	7634.	0.	0.	7634.	2128.2	5797.	13431.
20	794.	7634.	0.	0.	7634.	2125.1	6214.	13848.
21	794.	7556.	0.	0.	7556.	2122.1	5815.	13371.
22	716.	7446.	0.	0.	7446.	2119.1	5911.	13357.
23	630.	6983.	0.	0.	6983.	2116.2	6352.	13335.
24	630.	6676.	0.	0.	6676.	2113.5	6027.	12703.
25	630.	6356.	0.	0.	6356.	2110.9	5352.	11708.
26	630.	6196.	0.	0.	6196.	2108.4	5428.	11624.
27	506.	7589.	0.	0.	7589.	2105.2	5337.	12926.
28	506.	7281.	0.	0.	7281.	2102.2	5083.	12364.
29	870.	6985.	0.	0.	6985.	2099.3	6103.	13088.
30	930.	6636.	0.	0.	6636.	2096.3	6578.	13214.
31	4308.	6304.	0.	0.	6304.	2095.2	29018.	35322.
32	8521.	6230.	0.	0.	6230.	2096.4	35898.	42128.
33	13802.	6541.	0.	0.	6541.	2100.3	46049.	52590.
34	15823.	6868.	0.	0.	6868.	2104.3	48972.	55840.
35	14807.	7211.	0.	0.	7211.	2107.7	47109.	54320.
36	19799.	7072.	0.	0.	7072.	2113.4	56842.	63914.
37	19022.	6862.	0.	0.	6862.	2118.9	57662.	64524.
38	18245.	6657.	0.	0.	6657.	2124.1	65034.	71691.
39	22178.	6408.	0.	0.	6408.	2131.2	88608.	95016.
40	19307.	6891.	0.	0.	6891.	2136.8	84650.	91541.
41	15396.	6802.	0.	0.	6802.	2140.7	85667.	92469.
42	14981.	6725.	0.	0.	6725.	2144.4	76759.	83484.
43	14981.	6693.	0.	0.	6693.	2148.1	69852.	76545.
44	24614.	6900.	0.	0.	6900.	2155.1	78052.	84952.
45	20049.	6849.	0.	0.	6849.	2160.1	87173.	94022.
46	20049.	6920.	0.	0.	6920.	2165.1	83027.	89947.
47	20049.	6992.	0.	0.	6992.	2170.1	78889.	85881.
48	18930.	6458.	0.	0.	6458.	2174.8	60156.	66614.
49	11256.	6668.	0.	0.	6668.	2176.6	42819.	49487.
50	9676.	6845.	0.	0.	6845.	2177.6	44660.	51505.
51	9025.	7021.	0.	0.	7021.	2178.4	63105.	70126.
52	5793.	6920.	0.	0.	6920.	2177.9	37695.	44615.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
			ENVIRON. RELEASE  (CFS)	EXCESS RELEASE  (CFS)				
1955 1	4746.	6690.	0.	0.	6690.	2177.2	25730.	32420.
2	4461.	6689.	0.	0.	6689.	2176.3	31381.	38070.
3	3359.	7170.	0.	0.	7170.	2174.9	24990.	32160.
4	3359.	7639.	0.	0.	7639.	2173.3	23718.	31357.
5	2716.	8083.	0.	0.	8083.	2171.2	19929.	28012.
6	2156.	8591.	0.	0.	8591.	2168.8	16424.	25015.
7	2032.	9048.	0.	0.	9048.	2166.1	11131.	20179.
8	1796.	9537.	0.	0.	9537.	2163.2	9389.	18926.
9	1756.	10025.	0.	0.	10025.	2160.0	10817.	20842.
10	1657.	10657.	0.	0.	10657.	2156.6	7478.	18135.
11	1624.	10963.	0.	0.	10963.	2153.1	7388.	18351.
12	1431.	10587.	0.	0.	10587.	2149.5	8516.	19103.
13	1431.	7904.	0.	0.	7904.	2146.6	7288.	15192.
14	1546.	7618.	0.	0.	7618.	2143.9	7773.	15391.
15	1561.	7616.	0.	0.	7616.	2141.1	6813.	14429.
16	1338.	7605.	0.	0.	7605.	2138.3	6346.	13951.
17	1249.	7618.	0.	0.	7618.	2135.5	6372.	13990.
18	1179.	7606.	0.	0.	7606.	2132.6	6476.	14082.
19	1052.	7634.	0.	0.	7634.	2129.6	6549.	14183.
20	1052.	9542.	0.	0.	9542.	2125.8	6002.	15544.
21	1052.	9445.	0.	0.	9445.	2122.0	5824.	15269.
22	949.	9307.	0.	0.	9307.	2118.2	5800.	15107.
23	879.	8729.	0.	0.	8729.	2114.7	5861.	14590.
24	879.	8345.	0.	0.	8345.	2111.4	5394.	13739.
25	879.	7945.	0.	0.	7945.	2108.2	4588.	12533.
26	879.	7745.	0.	0.	7745.	2105.1	5193.	12938.
27	828.	7589.	0.	0.	7589.	2102.1	5527.	13116.
28	828.	7281.	0.	0.	7281.	2099.0	5335.	12616.
29	828.	6985.	0.	0.	6985.	2095.7	5246.	12231.
30	828.	6636.	0.	0.	6636.	2092.6	6695.	13331.
31	2519.	6304.	0.	0.	6304.	2090.6	12808.	19112.
32	3321.	6230.	0.	0.	6230.	2089.1	23698.	29928.
33	3882.	6541.	0.	0.	6541.	2087.6	51326.	57867.
34	11626.	6868.	0.	0.	6868.	2090.2	63750.	70618.
35	12771.	7211.	0.	0.	7211.	2093.1	72399.	79610.
36	17007.	7072.	0.	0.	7072.	2098.4	90576.	97648.
37	27727.	6862.	0.	0.	6862.	2108.1	78706.	85568.
38	30081.	6657.	0.	0.	6657.	2118.6	87409.	94066.
39	28168.	6408.	0.	0.	6408.	2128.4	102259.	108667.
40	29660.	6061.	0.	0.	6061.	2139.0	119830.	125891.
41	24776.	6755.	0.	0.	6755.	2147.1	138576.	145331.
42	19124.	6656.	0.	0.	6656.	2152.3	139197.	145853.
43	22869.	6612.	0.	0.	6612.	2158.5	131412.	138024.
44	20805.	6816.	376.	0.	7191.	2163.6	104591.	111782.
45	19270.	6777.	593.	0.	7370.	2168.2	111266.	118636.
46	19771.	6851.	477.	0.	7328.	2172.9	114333.	121661.
47	24039.	6915.	53.	0.	6968.	2179.4	83681.	90649.
48	34146.	7118.	0.	12187.	19305.	2185.0	49905.	69210.
49	17921.	7310.	0.	10611.	17921.	2185.0	57703.	75624.
50	13691.	7472.	0.	6219.	13691.	2185.0	69551.	83242.
51	11128.	7638.	0.	3490.	11128.	2185.0	69744.	80872.
52	8763.	7757.	0.	1006.	8763.	2185.0	70761.	79524.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1956 1	6059.	8028.	0.	0.	8028.	2184.3	42012.	50040.
2	4461.	8027.	0.	0.	8027.	2182.9	48839.	56866.
3	3633.	8604.	0.	0.	8604.	2181.0	49324.	57928.
4	3129.	7639.	0.	0.	7639.	2179.3	37967.	45606.
5	2062.	8083.	0.	0.	8083.	2177.0	22374.	30457.
6	1721.	8591.	0.	0.	8591.	2174.4	16661.	25252.
7	1581.	9048.	0.	0.	9048.	2171.6	13735.	22783.
8	1393.	9537.	0.	0.	9537.	2168.5	12676.	22213.
9	1306.	10025.	0.	0.	10025.	2165.2	11104.	21129.
10	1027.	10657.	0.	0.	10657.	2161.5	8775.	19432.
11	1027.	10963.	0.	0.	10963.	2157.7	9791.	20754.
12	1027.	10587.	0.	0.	10587.	2154.1	8590.	19177.
13	1027.	9880.	0.	0.	9880.	2150.7	9527.	19407.
14	848.	9522.	0.	0.	9522.	2147.0	8590.	18112.
15	810.	9520.	0.	0.	9520.	2143.0	8268.	17788.
16	810.	9506.	0.	0.	9506.	2139.1	7201.	16707.
17	810.	9522.	0.	0.	9522.	2135.2	7301.	16823.
18	809.	9508.	0.	0.	9508.	2131.3	7527.	17035.
19	750.	9542.	0.	0.	9542.	2127.4	7199.	16741.
20	750.	9542.	0.	0.	9542.	2123.4	6902.	16444.
21	750.	9445.	0.	0.	9445.	2119.5	6551.	15996.
22	739.	9307.	0.	0.	9307.	2115.6	6417.	15724.
23	689.	8729.	0.	0.	8729.	2112.0	5547.	14276.
24	689.	8345.	0.	0.	8345.	2108.6	5497.	13842.
25	689.	7945.	0.	0.	7945.	2105.3	4624.	12569.
26	689.	7745.	0.	0.	7745.	2102.1	4758.	12503.
27	641.	7589.	0.	0.	7589.	2098.8	5292.	12881.
28	641.	7281.	0.	0.	7281.	2095.3	4621.	11902.
29	641.	6985.	0.	0.	6985.	2091.9	4841.	11826.
30	641.	6636.	0.	0.	6636.	2088.7	5996.	12632.
31	1798.	6304.	0.	0.	6304.	2086.3	10629.	16933.
32	8483.	6230.	0.	0.	6230.	2087.5	38346.	44576.
33	12106.	6541.	0.	0.	6541.	2090.5	42552.	49093.
34	24085.	6868.	0.	0.	6868.	2099.7	47915.	54783.
35	15966.	7211.	0.	0.	7211.	2103.6	77770.	84981.
36	27294.	7072.	0.	0.	7072.	2112.7	123303.	130375.
37	35522.	6862.	0.	0.	6862.	2125.6	130388.	137250.
38	26081.	7360.	0.	0.	7360.	2134.1	119171.	126531.
39	22994.	7118.	0.	0.	7118.	2141.2	115123.	122241.
40	24335.	6767.	0.	0.	6767.	2149.1	105033.	111800.
41	26536.	6662.	0.	0.	6662.	2156.8	114814.	121476.
42	26799.	6560.	0.	0.	6560.	2164.5	112565.	119125.
43	26153.	6501.	0.	0.	6501.	2171.9	96755.	103256.
44	24666.	6688.	0.	0.	6688.	2178.8	101742.	108430.
45	22447.	6638.	0.	0.	6638.	2184.8	101307.	107945.
46	20285.	6756.	0.	12923.	19679.	2185.0	93643.	113322.
47	16173.	6861.	0.	9312.	16173.	2185.0	62713.	78886.
48	13792.	7080.	0.	6712.	13792.	2185.0	48239.	62031.
49	11446.	7295.	0.	4151.	11446.	2185.0	35869.	47315.
50	16046.	7478.	0.	8568.	16046.	2185.0	41173.	57219.
51	15637.	7649.	0.	7988.	15637.	2185.0	62950.	78587.
52	10015.	7762.	0.	2254.	10015.	2185.0	40526.	50541.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
			ENVIRON. RELEASE  (CFS)	EXCESS VALVE RELEASE  (CFS)				
1957 1	5279.	8028.	0.	0.	8028.	2184.0	26568.	34596.
2	5279.	8027.	0.	0.	8027.	2182.9	21365.	29392.
3	3583.	8604.	0.	0.	8604.	2181.0	17937.	26541.
4	3300.	7639.	0.	0.	7639.	2179.4	18379.	26018.
5	2789.	8083.	0.	0.	8083.	2177.3	16999.	25082.
6	2342.	8591.	0.	0.	8591.	2175.0	18784.	27375.
7	2247.	9048.	0.	0.	9048.	2172.4	16489.	25537.
8	2123.	9537.	0.	0.	9537.	2169.6	10974.	20511.
9	2035.	10025.	0.	0.	10025.	2166.5	9569.	19594.
10	1908.	10657.	0.	0.	10657.	2163.2	6173.	16830.
11	1852.	10963.	0.	0.	10963.	2159.8	5452.	16415.
12	1509.	10587.	0.	0.	10587.	2156.3	5233.	15820.
13	1509.	9880.	0.	0.	9880.	2153.1	5493.	15373.
14	1399.	9522.	0.	0.	9522.	2150.0	5661.	15183.
15	1378.	9520.	0.	0.	9520.	2146.4	5884.	15404.
16	1378.	9506.	0.	0.	9506.	2142.7	5966.	15472.
17	1378.	9522.	0.	0.	9522.	2139.1	5903.	15425.
18	1310.	9508.	0.	0.	9508.	2135.4	5912.	15420.
19	1193.	9542.	0.	0.	9542.	2131.6	6356.	15898.
20	1193.	9542.	0.	0.	9542.	2127.9	5590.	15132.
21	1193.	9445.	0.	0.	9445.	2124.2	6326.	15771.
22	1079.	9307.	0.	0.	9307.	2120.5	5207.	14514.
23	920.	8729.	0.	0.	8729.	2116.9	4959.	13688.
24	920.	8345.	0.	0.	8345.	2113.6	4938.	13283.
25	920.	7945.	0.	0.	7945.	2110.4	4710.	12655.
26	920.	7745.	0.	0.	7745.	2107.4	4783.	12528.
27	837.	7589.	0.	0.	7589.	2104.3	4368.	11957.
28	837.	7281.	0.	0.	7281.	2101.4	3987.	11268.
29	837.	6985.	0.	0.	6985.	2098.4	4758.	11743.
30	837.	6636.	0.	0.	6636.	2095.3	6742.	13378.
31	2452.	6304.	0.	0.	6304.	2093.3	11641.	17945.
32	4269.	6230.	0.	0.	6230.	2092.2	26103.	32333.
33	6969.	6541.	0.	0.	6541.	2092.5	49311.	55852.
34	15611.	6868.	0.	0.	6868.	2097.1	56594.	63462.
35	23050.	7211.	0.	0.	7211.	2104.7	86250.	93461.
36	31747.	7072.	0.	0.	7072.	2115.8	110532.	117604.
37	28053.	6862.	0.	0.	6862.	2125.3	100856.	107718.
38	24892.	7367.	0.	0.	7367.	2133.2	110871.	118238.
39	17043.	7144.	0.	0.	7144.	2137.7	95287.	102431.
40	19864.	6817.	0.	0.	6817.	2143.5	83530.	90347.
41	18252.	6723.	0.	0.	6723.	2148.7	90244.	96967.
42	20463.	6640.	0.	0.	6640.	2154.2	88448.	95088.
43	22198.	6596.	0.	0.	6596.	2160.1	78699.	85295.
44	17659.	6804.	0.	0.	6804.	2164.2	89561.	96365.
45	17664.	6771.	0.	0.	6771.	2168.4	97370.	104141.
46	17568.	6851.	0.	0.	6851.	2172.4	107987.	114838.
47	16111.	6932.	0.	0.	6932.	2175.9	82830.	89762.
48	17804.	7126.	0.	0.	7126.	2180.0	64796.	71922.
49	14143.	7317.	0.	0.	7317.	2182.6	51926.	59243.
50	15435.	7471.	0.	1546.	9018.	2185.0	57155.	66173.
51	15008.	7647.	0.	7361.	15008.	2185.0	50480.	65488.
52	14415.	7772.	0.	6643.	14415.	2185.0	44076.	58491.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1958 1	7628.	8028.	0.	0.	8028.	2184.8	26826.	34854.
2	6544.	8027.	0.	0.	8027.	2184.3	28031.	36058.
3	5337.	8604.	0.	0.	8604.	2183.0	18887.	27491.
4	5503.	9167.	0.	0.	9167.	2181.7	19942.	29109.
5	3997.	9700.	0.	0.	9700.	2179.5	25120.	34820.
6	3287.	10309.	0.	0.	10309.	2176.8	26049.	36358.
7	2815.	10823.	0.	0.	10823.	2173.8	19867.	30690.
8	2314.	11278.	0.	0.	11278.	2170.4	12671.	23949.
9	2637.	11722.	0.	0.	11722.	2166.9	15120.	26842.
10	2991.	12303.	0.	0.	12303.	2163.4	11462.	23765.
11	2551.	12604.	0.	0.	12604.	2159.6	7855.	20459.
12	1902.	12269.	0.	0.	12269.	2155.6	6460.	18729.
13	1544.	11633.	0.	0.	11633.	2151.8	7092.	18725.
14	1839.	11327.	0.	0.	11327.	2147.9	7639.	18966.
15	1614.	11343.	0.	0.	11343.	2143.5	7488.	18831.
16	1408.	11365.	0.	0.	11365.	2139.0	6890.	18255.
17	1332.	11389.	0.	0.	11389.	2134.5	6647.	18036.
18	1101.	11406.	0.	0.	11406.	2129.8	6411.	17817.
19	1152.	11450.	0.	0.	11450.	2125.2	5865.	17315.
20	1038.	11450.	0.	0.	11450.	2120.5	5411.	16861.
21	959.	11334.	0.	0.	11334.	2115.9	5747.	17081.
22	959.	11168.	0.	0.	11168.	2111.3	5810.	16978.
23	1024.	10475.	0.	0.	10475.	2107.0	5553.	16028.
24	1000.	10014.	0.	0.	10014.	2103.0	6133.	16147.
25	939.	9534.	0.	0.	9534.	2098.9	4716.	14250.
26	939.	7745.	0.	0.	7745.	2095.3	4143.	11888.
27	950.	7589.	0.	0.	7589.	2091.8	4710.	12299.
28	1063.	7281.	0.	0.	7281.	2088.5	4771.	12052.
29	1153.	6985.	0.	0.	6985.	2085.4	5288.	12273.
30	1398.	6636.	0.	0.	6636.	2082.6	5508.	12144.
31	3001.	6304.	0.	0.	6304.	2080.8	7661.	13965.
32	5917.	6230.	0.	0.	6230.	2080.6	12719.	18949.
33	8267.	6541.	0.	0.	6541.	2081.6	33522.	40063.
34	15742.	6868.	0.	0.	6868.	2086.3	48067.	54935.
35	16842.	7211.	0.	0.	7211.	2091.4	46812.	54023.
36	24642.	7072.	0.	0.	7072.	2100.7	50757.	57829.
37	24642.	6862.	0.	0.	6862.	2108.7	53666.	60528.
38	21247.	6657.	0.	0.	6657.	2115.2	62825.	69482.
39	19363.	6408.	0.	0.	6408.	2121.0	79695.	86103.
40	18442.	6061.	0.	0.	6061.	2126.6	84343.	90404.
41	18442.	5954.	0.	0.	5954.	2132.2	85209.	91163.
42	18442.	5873.	0.	0.	5873.	2137.9	76431.	82304.
43	18082.	5838.	0.	0.	5838.	2143.4	72069.	77907.
44	32829.	6056.	0.	0.	6056.	2154.6	87734.	93790.
45	23946.	6033.	0.	0.	6033.	2161.4	87627.	93660.
46	17783.	6340.	0.	0.	6340.	2165.7	87636.	93976.
47	14415.	6844.	0.	0.	6844.	2168.6	68187.	75031.
48	9969.	7208.	204.	0.	7412.	2169.6	55031.	62443.
49	6605.	6668.	0.	0.	6668.	2169.6	38229.	44897.
50	6605.	6845.	0.	0.	6845.	2169.5	38634.	45479.
51	5128.	7021.	0.	0.	7021.	2168.7	38378.	45399.
52	5129.	5536.	0.	0.	5536.	2168.6	33686.	39222.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	EXCESS RELEASE (CFS)				
1959 1	4604.	5352.	0.	0.	5352.	2168.3	25720.	31072.
2	4050.	5351.	0.	0.	5351.	2167.8	24418.	29769.
3	3875.	5736.	0.	0.	5736.	2167.1	24791.	30527.
4	2689.	6111.	0.	0.	6111.	2165.8	24527.	30638.
5	2392.	6466.	0.	0.	6466.	2164.2	17867.	24333.
6	2068.	6873.	0.	0.	6873.	2162.4	16377.	23250.
7	1760.	7238.	0.	0.	7238.	2160.3	11595.	18833.
8	1352.	7630.	0.	0.	7630.	2157.9	8161.	15791.
9	1215.	8020.	0.	0.	8020.	2155.4	8786.	16806.
10	797.	8526.	0.	0.	8526.	2152.4	6526.	15052.
11	879.	8770.	0.	0.	8770.	2149.3	6413.	15183.
12	1375.	8470.	0.	0.	8470.	2146.1	6587.	15057.
13	1375.	7904.	0.	0.	7904.	2143.2	7238.	15142.
14	1150.	7618.	0.	0.	7618.	2140.3	6089.	13707.
15	1109.	7616.	0.	0.	7616.	2137.4	6303.	13919.
16	1056.	7605.	0.	0.	7605.	2134.4	6314.	13919.
17	1035.	7618.	0.	0.	7618.	2131.5	6520.	14138.
18	1051.	7606.	0.	0.	7606.	2128.5	6344.	13950.
19	1027.	7634.	0.	0.	7634.	2125.5	6116.	13750.
20	984.	7634.	0.	0.	7634.	2122.5	5545.	13179.
21	879.	7556.	0.	0.	7556.	2119.5	5090.	12646.
22	797.	7446.	0.	0.	7446.	2116.6	4379.	11825.
23	683.	6983.	0.	0.	6983.	2113.7	4411.	11394.
24	683.	6676.	0.	0.	6676.	2111.0	4476.	11152.
25	683.	6356.	0.	0.	6356.	2108.5	4765.	11121.
26	683.	6196.	0.	0.	6196.	2106.0	4740.	10936.
27	666.	6071.	0.	0.	6071.	2103.6	4974.	11045.
28	666.	5825.	0.	0.	5825.	2101.2	4770.	10595.
29	952.	5588.	0.	0.	5588.	2099.0	5275.	10863.
30	999.	5309.	0.	0.	5309.	2096.7	6618.	11927.
31	1801.	5043.	0.	0.	5043.	2095.0	9038.	14081.
32	2951.	4984.	0.	0.	4984.	2093.9	20792.	25776.
33	12604.	5233.	0.	0.	5233.	2097.8	50003.	55236.
34	17856.	5494.	0.	0.	5494.	2103.7	62616.	68110.
35	14298.	5769.	0.	0.	5769.	2107.6	62969.	68738.
36	20496.	7072.	0.	0.	7072.	2113.6	81653.	88725.
37	15311.	6862.	0.	0.	6862.	2117.4	66332.	73194.
38	18247.	6657.	0.	0.	6657.	2122.6	82448.	89105.
39	20418.	6408.	0.	0.	6408.	2128.9	105194.	111602.
40	21688.	6061.	0.	0.	6061.	2135.9	98023.	104084.
41	20819.	6798.	0.	0.	6798.	2142.2	103053.	109851.
42	22556.	6690.	0.	0.	6690.	2149.4	106777.	113467.
43	17816.	6645.	0.	0.	6645.	2153.7	86443.	93088.
44	18373.	6860.	0.	0.	6860.	2158.1	82706.	89566.
45	14392.	6832.	0.	0.	6832.	2161.0	85955.	92787.
46	18474.	6916.	0.	0.	6916.	2165.4	59365.	66281.
47	34121.	6965.	0.	0.	6965.	2175.7	63931.	70896.
48	33290.	7109.	0.	1611.	8720.	2185.0	52860.	61580.
49	20953.	7317.	0.	13636.	20953.	2185.0	37769.	58722.
50	10824.	7465.	0.	3359.	10824.	2185.0	27514.	38338.
51	8131.	7629.	0.	503.	8131.	2185.0	27508.	35639.
52	7669.	7754.	0.	0.	7754.	2185.0	17214.	24968.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1960 1	8534.	8216.	0.	222.	8438.	2185.0	20496.	28934.
2	5896.	8027.	0.	0.	8027.	2184.2	24096.	32123.
3	3243.	8604.	0.	0.	8604.	2182.2	19583.	28187.
4	4051.	9167.	0.	0.	9167.	2180.2	16374.	25541.
5	2692.	8083.	0.	0.	8083.	2178.2	15313.	23396.
6	2292.	8591.	0.	0.	8591.	2175.8	17542.	26133.
7	2194.	9048.	0.	0.	9048.	2173.2	11609.	20657.
8	2064.	9537.	0.	0.	9537.	2170.3	9594.	19131.
9	1962.	10025.	0.	0.	10025.	2167.3	10540.	20565.
10	1656.	10657.	0.	0.	10657.	2163.8	6899.	17556.
11	1656.	10963.	0.	0.	10963.	2160.3	8234.	19197.
12	1656.	10587.	0.	0.	10587.	2156.9	7473.	18060.
13	1656.	9880.	0.	0.	9880.	2153.8	7329.	17209.
14	1541.	9522.	0.	0.	9522.	2150.8	7825.	17347.
15	1523.	9520.	0.	0.	9520.	2147.3	7183.	16703.
16	1360.	9506.	0.	0.	9506.	2143.6	6758.	16264.
17	1295.	9522.	0.	0.	9522.	2139.9	6703.	16225.
18	1227.	9508.	0.	0.	9508.	2136.2	6814.	16322.
19	1175.	9542.	0.	0.	9542.	2132.5	6742.	16284.
20	1152.	9542.	0.	0.	9542.	2128.7	6951.	16493.
21	1097.	9445.	0.	0.	9445.	2124.9	7526.	16971.
22	1062.	9307.	0.	0.	9307.	2121.2	7956.	17263.
23	1041.	8729.	0.	0.	8729.	2117.8	7953.	16682.
24	996.	8345.	0.	0.	8345.	2114.5	6969.	15314.
25	882.	7945.	0.	0.	7945.	2111.3	6752.	14697.
26	882.	7745.	0.	0.	7745.	2108.2	7012.	14757.
27	694.	7589.	0.	0.	7589.	2105.1	6579.	14168.
28	694.	7281.	0.	0.	7281.	2102.1	6045.	13326.
29	910.	6985.	0.	0.	6985.	2099.3	7116.	14101.
30	945.	6636.	0.	0.	6636.	2096.3	8973.	15609.
31	4703.	6304.	0.	0.	6304.	2095.4	28561.	34865.
32	6668.	6230.	0.	0.	6230.	2095.6	61378.	67608.
33	12886.	6541.	0.	0.	6541.	2099.0	69234.	75775.
34	20055.	6868.	0.	0.	6868.	2105.1	63589.	70457.
35	20716.	7211.	0.	0.	7211.	2111.2	73860.	81071.
36	11838.	7072.	0.	0.	7072.	2113.3	84803.	91875.
37	12275.	6862.	0.	0.	6862.	2115.8	74466.	81328.
38	12710.	6657.	0.	0.	6657.	2118.5	88206.	94863.
39	13971.	6408.	0.	0.	6408.	2121.9	101671.	108079.
40	19936.	6061.	0.	0.	6061.	2128.1	107167.	113228.
41	14780.	6780.	0.	0.	6780.	2131.7	104402.	111182.
42	17003.	6446.	0.	0.	6446.	2136.5	106928.	113374.
43	23312.	5838.	0.	0.	5838.	2144.3	147488.	153326.
44	26487.	6056.	0.	0.	6056.	2153.0	172513.	178569.
45	20467.	6033.	0.	0.	6033.	2158.4	156252.	162285.
46	18086.	6134.	0.	0.	6134.	2163.0	170929.	177063.
47	17477.	6223.	0.	0.	6223.	2167.3	117117.	123340.
48	16811.	6458.	0.	0.	6458.	2171.2	85692.	92150.
49	14281.	6668.	0.	0.	6668.	2174.1	58145.	64813.
50	22570.	6845.	0.	0.	6845.	2180.1	75405.	82250.
51	15996.	7021.	0.	0.	7021.	2183.5	73396.	80417.
52	11980.	7763.	0.	689.	8452.	2185.0	94921.	103373.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1961 1	9778.	8221.	0.	1558.	9778.	2185.0	41927.	51705.
2	7102.	8027.	0.	0.	8027.	2184.6	30623.	38650.
3	5050.	8604.	0.	0.	8604.	2183.3	25710.	34314.
4	3678.	9167.	0.	0.	9167.	2181.2	18847.	28014.
5	2753.	8083.	0.	0.	8083.	2179.2	9921.	18004.
6	2516.	8591.	0.	0.	8591.	2176.9	13021.	21612.
7	2319.	9048.	0.	0.	9048.	2174.3	11129.	20177.
8	2058.	9537.	0.	0.	9537.	2171.5	10755.	20292.
9	2118.	10025.	0.	0.	10025.	2168.5	11388.	21413.
10	2126.	12280.	0.	0.	12280.	2164.6	9586.	21866.
11	2085.	12585.	0.	0.	12585.	2160.6	9064.	21649.
12	1833.	12252.	0.	0.	12252.	2156.7	7648.	19900.
13	1833.	11616.	0.	0.	11616.	2153.0	7447.	19063.
14	1776.	11308.	0.	0.	11308.	2149.2	8081.	19389.
15	1773.	11319.	0.	0.	11319.	2144.9	6640.	17959.
16	1825.	11337.	0.	0.	11337.	2140.6	6902.	18239.
17	1846.	11356.	0.	0.	11356.	2136.4	6970.	18326.
18	1601.	11369.	0.	0.	11369.	2132.0	7275.	18644.
19	1317.	11440.	0.	0.	11440.	2127.4	7765.	19205.
20	1297.	11435.	0.	0.	11435.	2122.9	8294.	19729.
21	1246.	11334.	0.	0.	11334.	2118.3	8654.	19988.
22	1181.	11168.	0.	0.	11168.	2113.8	8048.	19216.
23	1097.	10475.	0.	0.	10475.	2109.6	7158.	17633.
24	1222.	10014.	0.	0.	10014.	2105.7	6545.	16559.
25	1535.	9534.	0.	0.	9534.	2102.1	6650.	16184.
26	1535.	9294.	0.	0.	9294.	2098.3	6303.	15597.
27	1617.	9107.	0.	0.	9107.	2094.3	7289.	16396.
28	1617.	8737.	0.	0.	8737.	2090.5	6529.	15266.
29	1783.	8382.	0.	0.	8382.	2087.0	6884.	15266.
30	1811.	7963.	0.	0.	7963.	2083.7	8417.	16380.
31	5580.	7565.	0.	0.	7565.	2082.7	22594.	30159.
32	10306.	6230.	0.	0.	6230.	2084.9	54511.	60741.
33	17834.	6541.	0.	0.	6541.	2090.9	66241.	72782.
34	16989.	6868.	0.	0.	6868.	2096.3	63665.	70533.
35	15795.	7211.	0.	0.	7211.	2100.7	66330.	73541.
36	14578.	7072.	0.	0.	7072.	2104.1	82687.	89759.
37	23810.	6862.	0.	0.	6862.	2111.7	91920.	98782.
38	29749.	6657.	0.	0.	6657.	2122.1	92374.	99031.
39	24996.	6408.	0.	0.	6408.	2130.4	103582.	109990.
40	18341.	6902.	0.	0.	6902.	2135.6	94666.	101568.
41	19253.	6806.	0.	0.	6806.	2141.2	103516.	110322.
42	19937.	6707.	0.	0.	6707.	2147.1	110456.	117163.
43	20655.	6659.	0.	0.	6659.	2152.9	107824.	114483.
44	22581.	6860.	0.	0.	6860.	2158.9	100060.	106920.
45	23083.	6810.	0.	0.	6810.	2165.1	114086.	120896.
46	19710.	6877.	0.	0.	6877.	2169.9	98850.	105727.
47	18708.	6950.	0.	0.	6950.	2174.4	92891.	99841.
48	13842.	7147.	38.	0.	7185.	2176.9	68281.	75466.
49	9309.	7354.	0.	0.	7354.	2177.7	55513.	62867.
50	10560.	7519.	0.	0.	7519.	2178.8	79903.	87422.
51	10059.	7021.	0.	0.	7021.	2180.0	67704.	74725.
52	10131.	6920.	0.	0.	6920.	2181.4	69217.	76137.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1962 1	8304.	6690.	0.	0.	6690.	2182.0	56414.	63104.
2	3663.	6689.	0.	0.	6689.	2180.8	37213.	43902.
3	3663.	7170.	0.	0.	7170.	2179.5	28196.	35366.
4	3663.	7639.	0.	0.	7639.	2178.0	30154.	37793.
5	2910.	8083.	0.	0.	8083.	2176.0	21866.	29949.
6	2187.	8591.	0.	0.	8591.	2173.6	19798.	28389.
7	2187.	9048.	0.	0.	9048.	2171.0	16453.	25501.
8	2187.	9537.	0.	0.	9537.	2168.2	14095.	23632.
9	2067.	10025.	0.	0.	10025.	2165.2	14561.	24586.
10	1742.	10657.	0.	0.	10657.	2161.8	10474.	21131.
11	1742.	10963.	0.	0.	10963.	2158.3	8792.	19755.
12	1742.	10587.	0.	0.	10587.	2154.9	7315.	17902.
13	1742.	9880.	0.	0.	9880.	2151.8	7595.	17475.
14	1645.	9522.	0.	0.	9522.	2148.6	7566.	17088.
15	1626.	9520.	0.	0.	9520.	2145.1	6779.	16299.
16	1626.	9506.	0.	0.	9506.	2141.5	6961.	16467.
17	1626.	9522.	0.	0.	9522.	2138.0	6858.	16380.
18	1462.	9508.	0.	0.	9508.	2134.4	6831.	16339.
19	1237.	9542.	0.	0.	9542.	2130.6	7200.	16742.
20	1237.	9542.	0.	0.	9542.	2126.9	7131.	16673.
21	1237.	9445.	0.	0.	9445.	2123.2	6502.	15947.
22	1207.	9307.	0.	0.	9307.	2119.6	6204.	15511.
23	1174.	8729.	0.	0.	8729.	2116.2	5835.	14564.
24	1174.	8345.	0.	0.	8345.	2112.9	5698.	14043.
25	1174.	7945.	0.	0.	7945.	2109.9	5545.	13490.
26	1174.	7745.	0.	0.	7745.	2106.9	6342.	14087.
27	1335.	7589.	0.	0.	7589.	2104.1	6133.	13722.
28	1335.	7281.	0.	0.	7281.	2101.4	6532.	13813.
29	1335.	6985.	0.	0.	6985.	2098.7	7988.	14973.
30	1335.	6636.	0.	0.	6636.	2095.9	8634.	15270.
31	3165.	6304.	0.	0.	6304.	2094.2	17375.	23679.
32	3896.	6230.	0.	0.	6230.	2093.0	17047.	23277.
33	10571.	6541.	0.	0.	6541.	2095.1	42317.	48858.
34	15580.	6868.	0.	0.	6868.	2099.8	53929.	60797.
35	25042.	7211.	0.	0.	7211.	2107.8	60021.	67232.
36	25502.	7072.	0.	0.	7072.	2116.1	70294.	77366.
37	49464.	7523.	0.	0.	7523.	2135.0	78111.	85634.
38	42296.	7206.	0.	0.	7206.	2150.6	83551.	90757.
39	29941.	6940.	0.	0.	6940.	2159.4	101478.	108418.
40	24659.	6610.	0.	0.	6610.	2166.2	112931.	119541.
41	24076.	6518.	15.	0.	6533.	2172.9	128211.	134744.
42	20979.	6435.	415.	0.	6850.	2178.3	140984.	147834.
43	24659.	6391.	0.	507.	6898.	2185.0	156019.	162918.
44	22051.	6643.	0.	15409.	22051.	2185.0	134363.	156414.
45	19487.	6641.	0.	12846.	19487.	2185.0	98623.	118110.
46	19487.	6755.	0.	12733.	19487.	2185.0	97274.	116761.
47	19487.	6868.	0.	12619.	19487.	2185.0	88115.	107602.
48	19844.	7094.	0.	12750.	19844.	2185.0	87181.	107025.
49	18961.	7312.	0.	11649.	18961.	2185.0	62664.	81625.
50	11972.	7468.	0.	4504.	11972.	2185.0	54051.	66023.
51	9699.	7635.	0.	2064.	9699.	2185.0	49389.	59088.
52	9763.	7761.	0.	2002.	9763.	2185.0	41111.	50874.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
			ENVIRON. RELEASE  (CFS)	VALVE EXCESS RELEASE  (CFS)				
1963 1	7677.	8028.	0.	0.	8028.	2184.9	23501.	31529.
2	5846.	8027.	0.	0.	8027.	2184.0	18502.	26529.
3	5094.	8604.	0.	0.	8604.	2182.7	17423.	26027.
4	4603.	9167.	0.	0.	9167.	2181.0	18619.	27786.
5	3273.	8083.	0.	0.	8083.	2179.1	11246.	19329.
6	2427.	8591.	0.	0.	8591.	2176.8	12423.	21014.
7	2427.	9048.	0.	0.	9048.	2174.3	7725.	16773.
8	2427.	9537.	0.	0.	9537.	2171.6	6428.	15965.
9	2243.	10025.	0.	0.	10025.	2168.6	6532.	16557.
10	1684.	12279.	0.	0.	12279.	2164.6	7039.	19318.
11	1684.	12587.	0.	0.	12587.	2160.5	7794.	20381.
12	1684.	12255.	0.	0.	12255.	2156.4	8224.	20479.
13	1684.	11620.	0.	0.	11620.	2152.7	8177.	19797.
14	1346.	11314.	0.	0.	11314.	2148.7	7819.	19133.
15	1303.	11329.	0.	0.	11329.	2144.2	7122.	18451.
16	1303.	11353.	0.	0.	11353.	2139.7	6959.	18312.
17	1303.	11377.	0.	0.	11377.	2135.1	6693.	18070.
18	1284.	11393.	0.	0.	11393.	2130.6	6067.	17460.
19	1203.	11450.	0.	0.	11450.	2126.0	6053.	17503.
20	1203.	11450.	0.	0.	11450.	2121.4	5973.	17423.
21	1203.	11334.	0.	0.	11334.	2116.8	5536.	16870.
22	1015.	11168.	0.	0.	11168.	2112.2	5861.	17029.
23	870.	10475.	0.	0.	10475.	2107.9	5532.	16007.
24	870.	10014.	0.	0.	10014.	2103.8	5531.	15545.
25	870.	9534.	0.	0.	9534.	2099.9	5283.	14817.
26	870.	9294.	0.	0.	9294.	2095.4	5085.	14379.
27	680.	7589.	0.	0.	7589.	2091.7	5119.	12708.
28	680.	7281.	0.	0.	7281.	2088.2	4480.	11761.
29	680.	6985.	0.	0.	6985.	2084.9	4336.	11321.
30	680.	6636.	0.	0.	6636.	2081.7	4959.	11595.
31	2138.	6304.	0.	0.	6304.	2079.5	5976.	12280.
32	2871.	6230.	0.	0.	6230.	2077.7	17712.	23942.
33	16185.	6541.	0.	0.	6541.	2082.8	52142.	58683.
34	26173.	6868.	0.	0.	6868.	2093.1	53841.	60709.
35	29395.	7211.	0.	0.	7211.	2104.1	74869.	82080.
36	20039.	7072.	0.	0.	7072.	2110.0	89052.	96124.
37	20039.	6862.	0.	0.	6862.	2115.9	65943.	72805.
38	20039.	6657.	0.	0.	6657.	2121.9	86173.	92830.
39	20039.	6408.	0.	0.	6408.	2128.0	96064.	102472.
40	25591.	6061.	0.	0.	6061.	2136.8	103531.	109592.
41	33081.	6758.	0.	0.	6758.	2148.7	126219.	132977.
42	31343.	6622.	0.	0.	6622.	2158.3	150626.	157248.
43	26765.	6553.	0.	0.	6553.	2165.9	102428.	108981.
44	24772.	6740.	0.	0.	6740.	2172.8	90645.	97385.
45	22882.	6688.	51.	0.	6739.	2178.9	81989.	88728.
46	19853.	6756.	283.	0.	7039.	2183.8	84265.	91304.
47	20996.	6870.	0.	10955.	17825.	2185.0	85677.	103502.
48	17689.	7089.	0.	10600.	17689.	2185.0	66782.	84471.
49	13124.	7299.	0.	5825.	13124.	2185.0	61161.	74285.
50	11736.	7468.	0.	4269.	11736.	2185.0	59293.	71029.
51	9384.	7633.	0.	1751.	9384.	2185.0	55707.	65091.
52	8325.	7755.	0.	570.	8325.	2185.0	46671.	54996.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
			ENVIRON. RELEASE	EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1964 1	7204.	8028.	0.	0.	8028.	2184.7	38258.	46286.
2	6067.	8027.	0.	0.	8027.	2183.9	29438.	37465.
3	4963.	8604.	0.	0.	8604.	2182.6	24980.	33584.
4	3760.	9167.	0.	0.	9167.	2180.5	16824.	25991.
5	2277.	8083.	0.	0.	8083.	2178.3	13807.	21890.
6	2037.	8591.	0.	0.	8591.	2175.8	11937.	20528.
7	1803.	9048.	0.	0.	9048.	2173.1	10058.	19106.
8	1489.	9537.	0.	0.	9537.	2170.0	6308.	15845.
9	1454.	10025.	0.	0.	10025.	2166.7	6005.	16030.
10	1358.	10657.	0.	0.	10657.	2163.2	5168.	15825.
11	1311.	10963.	0.	0.	10963.	2159.5	5171.	16134.
12	1038.	10587.	0.	0.	10587.	2155.9	5260.	15847.
13	1038.	9880.	0.	0.	9880.	2152.6	6118.	15998.
14	913.	9522.	0.	0.	9522.	2149.2	6866.	16388.
15	888.	9520.	0.	0.	9520.	2145.3	7296.	16816.
16	830.	9506.	0.	0.	9506.	2141.4	7351.	16857.
17	807.	9522.	0.	0.	9522.	2137.5	7502.	17024.
18	816.	9508.	0.	0.	9508.	2133.5	6575.	16083.
19	818.	9542.	0.	0.	9542.	2129.6	6197.	15739.
20	802.	9542.	0.	0.	9542.	2125.7	6242.	15784.
21	760.	9445.	0.	0.	9445.	2121.8	5911.	15356.
22	696.	9307.	0.	0.	9307.	2117.9	5655.	14962.
23	612.	8729.	0.	0.	8729.	2114.3	5098.	13827.
24	588.	8345.	0.	0.	8345.	2110.8	4579.	12924.
25	524.	7945.	0.	0.	7945.	2107.4	4670.	12615.
26	524.	7745.	0.	0.	7745.	2104.2	4400.	12145.
27	588.	7589.	0.	0.	7589.	2101.0	4524.	12113.
28	588.	7281.	0.	0.	7281.	2097.7	4492.	11773.
29	637.	6985.	0.	0.	6985.	2094.3	4490.	11475.
30	646.	6636.	0.	0.	6636.	2091.1	5453.	12089.
31	524.	6304.	0.	0.	6304.	2088.0	5710.	12014.
32	521.	6230.	0.	0.	6230.	2085.0	14213.	20443.
33	699.	6541.	0.	0.	6541.	2081.9	29431.	35972.
34	1548.	6868.	0.	0.	6868.	2079.0	43003.	49871.
35	17791.	7211.	0.	0.	7211.	2084.7	50587.	57798.
36	66753.	7072.	0.	0.	7072.	2113.9	71184.	78256.
37	45845.	6862.	0.	0.	6862.	2131.4	67309.	74171.
38	38257.	7257.	0.	0.	7257.	2145.4	92187.	99444.
39	27669.	6989.	0.	0.	6989.	2153.9	109191.	116180.
40	22261.	6662.	0.	0.	6662.	2159.9	86164.	92826.
41	22938.	6574.	0.	0.	6574.	2166.1	105844.	112418.
42	21646.	6489.	0.	0.	6489.	2171.8	105540.	112029.
43	14854.	6459.	466.	0.	6925.	2174.9	93574.	100499.
44	16893.	6676.	0.	0.	6676.	2178.7	95747.	102423.
45	15985.	6648.	0.	0.	6648.	2182.3	91899.	98547.
46	12889.	6737.	52.	0.	6789.	2184.6	86729.	93518.
47	13741.	6855.	0.	5832.	12687.	2185.0	88899.	101586.
48	11603.	7075.	0.	4528.	11603.	2185.0	60039.	71642.
49	8901.	7288.	0.	1613.	8901.	2185.0	39135.	48036.
50	7255.	7455.	0.	0.	7455.	2184.9	32445.	39900.
51	7294.	7628.	0.	0.	7628.	2184.8	30931.	38559.
52	6247.	7759.	0.	0.	7759.	2184.1	29821.	37580.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1965 1	5814.	8028.	0.	0.	8028.	2183.3	22124.	30152.
2	6506.	6689.	0.	0.	6689.	2183.2	32707.	39396.
3	4258.	7170.	0.	0.	7170.	2182.1	24297.	31467.
4	3387.	7639.	0.	0.	7639.	2180.5	21981.	29620.
5	2593.	8083.	0.	0.	8083.	2178.4	14123.	22206.
6	2408.	8591.	0.	0.	8591.	2176.1	13047.	21638.
7	2383.	9048.	0.	0.	9048.	2173.5	9713.	18761.
8	2656.	9537.	0.	0.	9537.	2170.9	9213.	18750.
9	1708.	10025.	0.	0.	10025.	2167.8	10562.	20587.
10	1175.	10657.	0.	0.	10657.	2164.2	8356.	19013.
11	1047.	10963.	0.	0.	10963.	2160.4	8311.	19274.
12	952.	10587.	0.	0.	10587.	2156.7	7912.	18499.
13	952.	9880.	0.	0.	9880.	2153.3	7672.	17552.
14	880.	9522.	0.	0.	9522.	2150.1	7089.	16611.
15	866.	9520.	0.	0.	9520.	2146.2	6843.	16363.
16	866.	9506.	0.	0.	9506.	2142.3	6763.	16269.
17	866.	9522.	0.	0.	9522.	2138.4	6106.	15628.
18	821.	9508.	0.	0.	9508.	2134.5	5527.	15035.
19	764.	9542.	0.	0.	9542.	2130.6	5943.	15485.
20	764.	9542.	0.	0.	9542.	2126.6	5940.	15482.
21	764.	9445.	0.	0.	9445.	2122.7	5704.	15149.
22	785.	9307.	0.	0.	9307.	2118.9	5287.	14594.
23	809.	8729.	0.	0.	8729.	2115.3	5208.	13937.
24	809.	8345.	0.	0.	8345.	2111.9	5152.	13497.
25	809.	7945.	0.	0.	7945.	2108.7	5331.	13276.
26	809.	7745.	0.	0.	7745.	2105.6	5373.	13118.
27	1050.	7589.	0.	0.	7589.	2102.6	5442.	13031.
28	1050.	7281.	0.	0.	7281.	2099.8	5368.	12649.
29	1324.	6985.	0.	0.	6985.	2096.8	6384.	13369.
30	1370.	6636.	0.	0.	6636.	2094.0	7362.	13998.
31	1702.	6304.	0.	0.	6304.	2091.5	19787.	26091.
32	4582.	6230.	0.	0.	6230.	2090.7	24134.	30364.
33	7973.	6541.	0.	0.	6541.	2091.4	56162.	62703.
34	14365.	6868.	0.	0.	6868.	2095.4	62922.	69790.
35	28598.	7211.	0.	0.	7211.	2105.8	77990.	85201.
36	18020.	7072.	0.	0.	7072.	2110.7	99363.	106435.
37	19249.	6862.	0.	0.	6862.	2116.2	76418.	83280.
38	18396.	6657.	0.	0.	6657.	2121.5	93352.	100009.
39	27076.	6408.	0.	0.	6408.	2130.8	117698.	124106.
40	25264.	6880.	0.	0.	6880.	2139.1	116567.	123447.
41	25478.	6752.	0.	0.	6752.	2147.5	135492.	142244.
42	23730.	6644.	0.	0.	6644.	2154.4	132559.	139203.
43	20581.	6597.	0.	0.	6597.	2159.7	94751.	101348.
44	18313.	6806.	0.	0.	6806.	2164.1	112635.	119441.
45	16343.	6775.	0.	0.	6775.	2167.7	95596.	102371.
46	25247.	6844.	0.	0.	6844.	2174.7	87671.	94515.
47	16925.	6911.	0.	0.	6911.	2178.5	71289.	78200.
48	9394.	7117.	0.	0.	7117.	2179.4	57943.	65060.
49	14093.	7323.	0.	0.	7323.	2181.9	54758.	62081.
50	17314.	7475.	0.	1785.	9260.	2185.0	53924.	63184.
51	15844.	7649.	0.	8195.	15844.	2185.0	71224.	87068.
52	18328.	7782.	0.	10546.	18328.	2185.0	83228.	101556.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	CONVE ENVIRON. RELEASE  (CFS)	VALVE EXCESS RELEASE  (CFS)				
1966 1	10948.	8224.	0.	2724.	10948.	2185.0	47022.	57970.
2	6087.	8027.	0.	0.	8027.	2184.3	34794.	42821.
3	2852.	8604.	0.	0.	8604.	2182.1	37090.	45694.
4	2359.	9167.	0.	0.	9167.	2179.5	38936.	48103.
5	2043.	8083.	0.	0.	8083.	2177.2	29760.	37843.
6	1676.	8591.	0.	0.	8591.	2174.6	21291.	29882.
7	1481.	9048.	0.	0.	9048.	2171.7	17778.	26826.
8	1412.	9537.	0.	0.	9537.	2168.6	15819.	25356.
9	1361.	10025.	0.	0.	10025.	2165.3	12601.	22626.
10	1265.	10657.	0.	0.	10657.	2161.8	9387.	20044.
11	1223.	10963.	0.	0.	10963.	2158.1	6967.	17930.
12	1174.	10587.	0.	0.	10587.	2154.5	7806.	18393.
13	1129.	9880.	0.	0.	9880.	2151.2	7046.	16926.
14	1075.	9522.	0.	0.	9522.	2147.6	6725.	16247.
15	1062.	9520.	0.	0.	9520.	2143.8	6988.	16508.
16	1062.	9506.	0.	0.	9506.	2140.0	6909.	16415.
17	1062.	9522.	0.	0.	9522.	2136.2	7151.	16673.
18	1025.	9508.	0.	0.	9508.	2132.3	6973.	16481.
19	980.	9542.	0.	0.	9542.	2128.5	7149.	16691.
20	980.	9542.	0.	0.	9542.	2124.6	6673.	16215.
21	980.	9445.	0.	0.	9445.	2120.8	6975.	16420.
22	983.	9307.	0.	0.	9307.	2117.1	5673.	14980.
23	985.	8729.	0.	0.	8729.	2113.6	5591.	14320.
24	985.	8345.	0.	0.	8345.	2110.3	5283.	13628.
25	985.	7945.	0.	0.	7945.	2107.2	5509.	13454.
26	985.	7745.	0.	0.	7745.	2104.1	5702.	13447.
27	1091.	7589.	0.	0.	7589.	2101.2	4970.	12559.
28	1091.	7281.	0.	0.	7281.	2098.1	5404.	12685.
29	1432.	6985.	0.	0.	6985.	2095.2	5288.	12273.
30	1490.	6636.	0.	0.	6636.	2092.4	4878.	11514.
31	2210.	6304.	0.	0.	6304.	2090.3	3476.	9780.
32	2873.	6230.	0.	0.	6230.	2088.5	8305.	14535.
33	5322.	6541.	0.	0.	6541.	2087.8	32910.	39451.
34	10202.	6868.	0.	0.	6868.	2089.6	48783.	55651.
35	16017.	7211.	0.	0.	7211.	2094.3	39930.	47141.
36	37660.	7072.	0.	0.	7072.	2108.9	72231.	79303.
37	26954.	6862.	0.	0.	6862.	2118.0	83861.	90723.
38	22768.	6657.	0.	0.	6657.	2125.2	78304.	84961.
39	19214.	6408.	0.	0.	6408.	2131.0	94038.	100446.
40	15178.	6904.	0.	0.	6904.	2134.7	81359.	88263.
41	14458.	6828.	0.	0.	6828.	2138.1	97988.	104816.
42	15132.	6752.	0.	0.	6752.	2141.9	100287.	107039.
43	17122.	5838.	0.	0.	5838.	2147.0	122140.	127978.
44	22511.	6056.	0.	0.	6056.	2153.7	110050.	116106.
45	18320.	6033.	0.	0.	6033.	2158.4	132651.	138684.
46	15064.	6134.	0.	0.	6134.	2161.7	120400.	126534.
47	18252.	6223.	0.	0.	6223.	2166.3	116223.	122446.
48	14606.	6458.	0.	0.	6458.	2169.4	94421.	100879.
49	10023.	6668.	0.	0.	6668.	2170.7	76421.	83089.
50	9733.	6845.	0.	0.	6845.	2171.8	85999.	92844.
51	9623.	7021.	0.	0.	7021.	2172.8	130411.	137432.
52	7019.	6920.	0.	0.	6920.	2172.8	81528.	88448.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1967 1	5525.	6690.	0.	0.	6690.	2172.4	61884.	68574.
2	3705.	6689.	0.	0.	6689.	2171.2	45763.	52452.
3	2802.	7170.	0.	0.	7170.	2169.6	28972.	36142.
4	1896.	7639.	0.	0.	7639.	2167.4	20742.	28381.
5	1290.	6466.	0.	0.	6466.	2165.4	12724.	19190.
6	1192.	6873.	0.	0.	6873.	2163.3	7963.	14836.
7	1192.	7238.	0.	0.	7238.	2161.0	8024.	15262.
8	1192.	7630.	0.	0.	7630.	2158.5	9264.	16894.
9	1173.	8020.	0.	0.	8020.	2155.9	7097.	15117.
10	1119.	8526.	0.	0.	8526.	2153.1	5458.	13984.
11	1119.	8770.	0.	0.	8770.	2150.2	5822.	14592.
12	1119.	8470.	0.	0.	8470.	2146.9	4808.	13278.
13	1119.	7904.	0.	0.	7904.	2143.9	4836.	12740.
14	1105.	7618.	0.	0.	7618.	2141.0	4381.	11999.
15	1106.	7616.	0.	0.	7616.	2138.0	4964.	12580.
16	1106.	7605.	0.	0.	7605.	2135.1	5533.	13138.
17	1106.	7618.	0.	0.	7618.	2132.2	5692.	13310.
18	1077.	7606.	0.	0.	7606.	2129.2	5885.	13491.
19	1037.	7634.	0.	0.	7634.	2126.3	6009.	13643.
20	1037.	7634.	0.	0.	7634.	2123.3	5766.	13400.
21	1037.	7556.	0.	0.	7556.	2120.4	5451.	13007.
22	965.	7446.	0.	0.	7446.	2117.5	5025.	12471.
23	882.	6983.	0.	0.	6983.	2114.7	4901.	11884.
24	882.	6676.	0.	0.	6676.	2112.1	5260.	11936.
25	882.	6356.	0.	0.	6356.	2109.7	4824.	11180.
26	882.	6196.	0.	0.	6196.	2107.3	4868.	11064.
27	771.	6071.	0.	0.	6071.	2104.9	5092.	11163.
28	771.	5825.	0.	0.	5825.	2102.6	4696.	10521.
29	790.	5588.	0.	0.	5588.	2100.4	3999.	9587.
30	910.	5309.	0.	0.	5309.	2098.2	4089.	9398.
31	1409.	5043.	0.	0.	5043.	2096.3	2431.	7474.
32	4044.	4984.	0.	0.	4984.	2095.8	6132.	11116.
33	14066.	5233.	0.	0.	5233.	2100.4	19451.	24684.
34	19680.	5494.	0.	0.	5494.	2106.8	28169.	33663.
35	23533.	7211.	0.	0.	7211.	2114.1	22486.	29697.
36	22187.	7739.	0.	0.	7739.	2120.6	41762.	49501.
37	29069.	7524.	0.	0.	7524.	2130.3	35354.	42878.
38	24227.	7308.	0.	0.	7308.	2137.9	54344.	61652.
39	23703.	7072.	0.	0.	7072.	2145.4	72652.	79724.
40	17634.	6743.	0.	0.	6743.	2150.2	75703.	82446.
41	17564.	6667.	0.	0.	6667.	2154.4	88806.	95473.
42	24423.	6585.	0.	0.	6585.	2161.2	95320.	101905.
43	28466.	6526.	0.	0.	6526.	2169.5	89930.	96456.
44	21665.	6715.	0.	0.	6715.	2175.2	93918.	100633.
45	20177.	6672.	0.	0.	6672.	2180.3	103540.	110212.
46	44209.	6797.	0.	24000.	30797.	2185.4	112118.	142915.
47	24653.	6880.	0.	18805.	25685.	2185.0	85400.	111085.
48	16555.	7087.	0.	9469.	16555.	2185.0	74432.	90987.
49	23511.	7323.	0.	16188.	23511.	2185.0	67495.	91006.
50	13875.	7473.	0.	6403.	13875.	2185.0	67957.	81832.
51	10087.	7636.	0.	2452.	10087.	2185.0	51249.	61336.
52	7666.	7754.	0.	0.	7754.	2185.0	48434.	56188.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1968 1	5636.	8028.	0.	0.	8028.	2184.1	38223.	46251.
2	4692.	8027.	0.	0.	8027.	2182.8	41498.	49525.
3	3669.	8604.	0.	0.	8604.	2180.9	27901.	36505.
4	2797.	7639.	0.	0.	7639.	2179.1	20711.	28350.
5	2340.	8083.	0.	0.	8083.	2176.9	16673.	24756.
6	1987.	8591.	0.	0.	8591.	2174.4	14020.	22611.
7	1881.	9048.	0.	0.	9048.	2171.7	8942.	17990.
8	1812.	9537.	0.	0.	9537.	2168.7	11506.	21043.
9	1780.	10025.	0.	0.	10025.	2165.6	11036.	21061.
10	1740.	10657.	0.	0.	10657.	2162.2	9109.	19766.
11	1740.	10963.	0.	0.	10963.	2158.7	7483.	18446.
12	1669.	10587.	0.	0.	10587.	2155.3	6883.	17470.
13	1657.	9880.	0.	0.	9880.	2152.2	6340.	16220.
14	1633.	9522.	0.	0.	9522.	2149.0	7039.	16561.
15	1634.	9520.	0.	0.	9520.	2145.5	7016.	16536.
16	1634.	9506.	0.	0.	9506.	2142.0	7066.	16572.
17	1611.	9522.	0.	0.	9522.	2138.4	7253.	16775.
18	1552.	9508.	0.	0.	9508.	2134.8	7029.	16537.
19	1561.	9542.	0.	0.	9542.	2131.2	7547.	17089.
20	1561.	9542.	0.	0.	9542.	2127.6	7424.	16966.
21	1561.	9445.	0.	0.	9445.	2124.1	6726.	16171.
22	1561.	9307.	0.	0.	9307.	2120.6	6555.	15862.
23	1560.	8729.	0.	0.	8729.	2117.4	6102.	14831.
24	1560.	8345.	0.	0.	8345.	2114.3	5590.	13935.
25	1560.	7945.	0.	0.	7945.	2111.5	6036.	13981.
26	1560.	7745.	0.	0.	7745.	2108.7	6386.	14131.
27	1544.	7589.	0.	0.	7589.	2106.0	5675.	13264.
28	1485.	7281.	0.	0.	7281.	2103.4	6483.	13764.
29	1556.	6985.	0.	0.	6985.	2100.9	8800.	15785.
30	1662.	6636.	0.	0.	6636.	2098.4	16187.	22823.
31	1787.	6304.	0.	0.	6304.	2096.0	41771.	48075.
32	2353.	6230.	0.	0.	6230.	2094.0	83239.	89469.
33	10464.	6541.	0.	0.	6541.	2096.1	74359.	80900.
34	27061.	6868.	0.	0.	6868.	2105.8	71412.	78280.
35	21911.	7211.	0.	0.	7211.	2112.4	106602.	113813.
36	21507.	7764.	0.	0.	7764.	2118.5	116102.	123866.
37	29938.	7548.	0.	0.	7548.	2128.6	141773.	149321.
38	30356.	7312.	0.	0.	7312.	2139.0	114387.	121699.
39	22099.	7064.	0.	0.	7064.	2145.7	101593.	108657.
40	24724.	6728.	0.	0.	6728.	2153.2	113822.	120550.
41	22504.	6633.	0.	0.	6633.	2159.3	124852.	131485.
42	21723.	6547.	0.	0.	6547.	2165.0	99822.	106369.
43	20991.	6505.	0.	0.	6505.	2170.5	109976.	116481.
44	18324.	6711.	0.	0.	6711.	2174.9	92781.	99492.
45	16541.	6680.	0.	0.	6680.	2178.7	92493.	99173.
46	13759.	6767.	0.	0.	6767.	2181.3	75757.	82524.
47	12436.	6860.	0.	0.	6860.	2183.5	80807.	87667.
48	11024.	7069.	0.	0.	7069.	2185.0	59621.	66690.
49	9099.	7288.	0.	1731.	9019.	2185.0	42546.	51565.
50	9115.	7460.	0.	1655.	9115.	2185.0	34949.	44064.
51	5821.	7630.	0.	0.	7630.	2184.3	28942.	36572.
52	4456.	7767.	0.	0.	7767.	2182.9	21644.	29411.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
1969 1	4162.	8028.	0.	0.	8028.	2181.4	14384.	22412.
2	3593.	6689.	0.	0.	6689.	2180.2	10340.	17029.
3	2768.	7170.	0.	0.	7170.	2178.6	10431.	17601.
4	2457.	7639.	0.	0.	7639.	2176.6	7799.	15438.
5	2109.	8083.	0.	0.	8083.	2174.3	6630.	14713.
6	1631.	8591.	0.	0.	8591.	2171.7	6214.	14805.
7	1241.	9048.	0.	0.	9048.	2168.7	6886.	15934.
8	1087.	9537.	0.	0.	9537.	2165.5	7623.	17160.
9	901.	10025.	0.	0.	10025.	2162.0	7056.	17081.
10	809.	10657.	0.	0.	10657.	2158.3	5914.	16571.
11	767.	10963.	0.	0.	10963.	2154.4	5020.	15983.
12	724.	10587.	0.	0.	10587.	2150.7	4803.	15390.
13	687.	9880.	0.	0.	9880.	2146.7	5753.	15633.
14	658.	7618.	0.	0.	7618.	2143.5	7011.	14629.
15	640.	7616.	0.	0.	7616.	2140.4	6953.	14569.
16	598.	7605.	0.	0.	7605.	2137.2	6794.	14399.
17	598.	7618.	0.	0.	7618.	2134.1	6667.	14285.
18	598.	7606.	0.	0.	7606.	2130.9	6594.	14200.
19	587.	7634.	0.	0.	7634.	2127.8	6153.	13787.
20	599.	7634.	0.	0.	7634.	2124.6	5764.	13398.
21	630.	7556.	0.	0.	7556.	2121.5	5871.	13427.
22	630.	7446.	0.	0.	7446.	2118.4	5737.	13183.
23	655.	6983.	0.	0.	6983.	2115.6	5508.	12491.
24	673.	6676.	0.	0.	6676.	2112.9	5183.	11859.
25	709.	6356.	0.	0.	6356.	2110.3	5356.	11712.
26	732.	6196.	0.	0.	6196.	2107.9	5006.	11202.
27	779.	6071.	0.	0.	6071.	2105.5	4822.	10893.
28	919.	5825.	0.	0.	5825.	2103.3	4639.	10464.
29	1196.	5588.	0.	0.	5588.	2101.3	6702.	12290.
30	1696.	5309.	0.	0.	5309.	2099.6	10666.	15975.
31	2867.	6304.	0.	0.	6304.	2097.8	25762.	32066.
32	5116.	6230.	0.	0.	6230.	2097.2	75113.	81343.
33	9727.	6541.	0.	0.	6541.	2098.9	80283.	86824.
34	17064.	6868.	0.	0.	6868.	2103.7	79540.	86408.
35	10209.	7211.	0.	0.	7211.	2105.0	108256.	115467.
36	11525.	7072.	0.	0.	7072.	2107.0	99684.	106756.
37	14689.	6862.	0.	0.	6862.	2110.5	100421.	107283.
38	16092.	6657.	0.	0.	6657.	2114.8	113215.	119872.
39	14614.	6408.	0.	0.	6408.	2118.5	110687.	117095.
40	13051.	7055.	67.	0.	7122.	2121.1	105299.	112421.
41	16518.	6889.	0.	0.	6889.	2125.5	109217.	116106.
42	16974.	6860.	0.	0.	6860.	2130.0	102553.	109413.
43	14188.	6853.	193.	0.	7045.	2133.2	84496.	91541.
44	11668.	6282.	0.	0.	6282.	2135.7	96503.	102785.
45	12201.	5915.	0.	0.	5915.	2138.5	107622.	113537.
46	6318.	6919.	0.	0.	6919.	2138.2	69011.	75930.
47	5126.	7125.	0.	0.	7125.	2137.3	50185.	57310.
48	4792.	7199.	0.	0.	7199.	2136.2	48824.	56023.
49	5256.	6953.	0.	0.	6953.	2135.5	37446.	44399.
50	4595.	6084.	0.	0.	6084.	2134.8	35105.	41189.
51	3939.	5213.	0.	0.	5213.	2134.2	32501.	37714.
52	3308.	5339.	0.	0.	5339.	2133.2	26975.	32314.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1970 1	3018.	5078.	0.	0.	5078.	2132.3	24584.	29662.
2	2841.	5132.	0.	0.	5132.	2131.2	36402.	41534.
3	2489.	4517.	0.	0.	4517.	2130.3	30211.	34728.
4	1680.	4813.	0.	0.	4813.	2128.9	14322.	19135.
5	1432.	5092.	0.	0.	5092.	2127.3	13634.	18726.
6	1202.	5412.	0.	0.	5412.	2125.4	8939.	14351.
7	950.	5700.	0.	0.	5700.	2123.2	8157.	13857.
8	842.	6008.	0.	0.	6008.	2120.9	6795.	12803.
9	787.	6316.	0.	0.	6316.	2118.4	7032.	13348.
10	735.	6714.	0.	0.	6714.	2115.7	4999.	11713.
11	699.	6907.	0.	0.	6907.	2112.9	5031.	11938.
12	694.	6670.	0.	0.	6670.	2110.2	4766.	11436.
13	694.	6224.	0.	0.	6224.	2107.8	4728.	10952.
14	656.	5999.	0.	0.	5999.	2105.4	5632.	11631.
15	656.	5998.	0.	0.	5998.	2103.0	6060.	12058.
16	628.	5989.	0.	0.	5989.	2100.5	6339.	12328.
17	617.	5999.	0.	0.	5999.	2097.8	6062.	12061.
18	618.	5990.	0.	0.	5990.	2094.9	6262.	12252.
19	628.	6012.	0.	0.	6012.	2092.0	6406.	12418.
20	589.	6012.	0.	0.	6012.	2089.2	5990.	12002.
21	589.	5950.	0.	0.	5950.	2086.3	5902.	11852.
22	589.	5863.	0.	0.	5863.	2083.5	5893.	11756.
23	605.	5499.	0.	0.	5499.	2080.9	5723.	11222.
24	616.	5257.	0.	0.	5257.	2078.4	5447.	10704.
25	645.	5005.	0.	0.	5005.	2076.1	5364.	10369.
26	645.	4879.	0.	0.	4879.	2073.8	5227.	10106.
27	769.	4781.	0.	0.	4781.	2071.7	5352.	10133.
28	846.	4587.	0.	0.	4587.	2069.7	5402.	9989.
29	969.	4401.	0.	0.	4401.	2067.9	6076.	10477.
30	1176.	4181.	0.	0.	4181.	2066.3	7995.	12176.
31	1634.	3972.	0.	0.	3972.	2065.0	21963.	25935.
32	3900.	3925.	0.	0.	3925.	2065.0	38722.	42647.
33	13817.	4121.	0.	0.	4121.	2070.2	65200.	69321.
34	12474.	4327.	0.	0.	4327.	2074.5	78102.	82429.
35	15221.	4543.	0.	0.	4543.	2080.2	95531.	100074.
36	12989.	4455.	0.	0.	4455.	2084.8	101655.	106110.
37	12531.	4323.	0.	0.	4323.	2089.1	95515.	99838.
38	11864.	4364.	0.	0.	4364.	2093.1	103603.	107967.
39	19977.	4037.	0.	0.	4037.	2101.4	117316.	121353.
40	20089.	3818.	0.	0.	3818.	2108.7	129034.	132852.
41	16855.	3855.	0.	0.	3855.	2114.5	116723.	120578.
42	18059.	3700.	0.	0.	3700.	2121.0	120733.	124433.
43	17267.	3753.	0.	0.	3753.	2127.1	131016.	134769.
44	21606.	3815.	0.	0.	3815.	2135.1	126155.	129970.
45	18880.	4009.	0.	0.	4009.	2141.8	105853.	109862.
46	14586.	4915.	0.	0.	4915.	2146.1	104286.	109201.
47	16486.	4978.	0.	0.	4978.	2151.1	93197.	98175.
48	11350.	5564.	0.	0.	5564.	2153.3	74414.	79978.
49	9396.	5499.	0.	0.	5499.	2154.8	64561.	70060.
50	7477.	5476.	0.	0.	5476.	2155.5	53749.	59225.
51	7616.	5617.	0.	0.	5617.	2156.3	46761.	52378.
52	4244.	5536.	0.	0.	5536.	2155.7	29918.	35454.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1971 1	4991.	5352.	0.	0.	5352.	2155.6	19967.	25319.
2	4166.	5351.	0.	0.	5351.	2155.1	16956.	22307.
3	3393.	5736.	0.	0.	5736.	2154.2	15889.	21625.
4	2885.	6111.	0.	0.	6111.	2153.0	14172.	20283.
5	2923.	6466.	0.	0.	6466.	2151.7	12803.	19269.
6	2796.	6873.	0.	0.	6873.	2150.1	10892.	17765.
7	2543.	7238.	0.	0.	7238.	2148.0	10840.	18078.
8	2249.	7630.	0.	0.	7630.	2145.6	8798.	16428.
9	2013.	8020.	0.	0.	8020.	2142.9	8592.	16612.
10	1886.	8526.	0.	0.	8526.	2139.9	7234.	15760.
11	1761.	8770.	0.	0.	8770.	2136.8	6917.	15687.
12	1614.	8470.	0.	0.	8470.	2133.7	7071.	15541.
13	1446.	7904.	0.	0.	7904.	2130.8	6569.	14473.
14	1328.	7618.	0.	0.	7618.	2128.0	6725.	14343.
15	1188.	7616.	0.	0.	7616.	2125.1	7055.	14671.
16	1080.	7605.	0.	0.	7605.	2122.1	7286.	14891.
17	950.	7618.	0.	0.	7618.	2119.1	6958.	14576.
18	880.	7606.	0.	0.	7606.	2116.1	6431.	14037.
19	821.	7634.	0.	0.	7634.	2113.0	6036.	13670.
20	746.	7634.	0.	0.	7634.	2109.9	5316.	12950.
21	746.	7556.	0.	0.	7556.	2106.9	5087.	12643.
22	730.	7446.	0.	0.	7446.	2103.9	5299.	12745.
23	716.	6983.	0.	0.	6983.	2101.0	4853.	11836.
24	716.	6676.	0.	0.	6676.	2098.1	4524.	11200.
25	716.	6356.	0.	0.	6356.	2095.1	4422.	10778.
26	716.	6196.	0.	0.	6196.	2092.1	4149.	10345.
27	717.	6071.	0.	0.	6071.	2089.3	4483.	10554.
28	744.	5825.	0.	0.	5825.	2086.6	4780.	10605.
29	808.	5588.	0.	0.	5588.	2084.0	4536.	10124.
30	904.	5309.	0.	0.	5309.	2081.7	5326.	10635.
31	1098.	5043.	0.	0.	5043.	2079.6	5843.	10886.
32	1415.	4984.	0.	0.	4984.	2077.7	14669.	19653.
33	2087.	5287.	0.	0.	5287.	2076.0	36359.	41646.
34	3683.	5494.	0.	0.	5494.	2075.0	60055.	65549.
35	6558.	5769.	0.	0.	5769.	2075.4	66719.	72488.
36	19251.	5658.	0.	0.	5658.	2082.7	86567.	92225.
37	39740.	5490.	0.	0.	5490.	2100.8	77567.	83057.
38	24136.	5326.	0.	0.	5326.	2109.2	94920.	100246.
39	33340.	5126.	0.	0.	5126.	2121.9	148794.	153920.
40	21395.	5924.	0.	0.	5924.	2128.9	140003.	145927.
41	21771.	5954.	0.	0.	5954.	2136.0	139692.	145646.
42	25092.	5873.	0.	0.	5873.	2144.6	123879.	129752.
43	16325.	6654.	0.	0.	6654.	2149.0	86570.	93224.
44	20943.	6056.	0.	0.	6056.	2154.8	84281.	90337.
45	38945.	6033.	0.	0.	6033.	2167.3	108345.	114378.
46	34819.	6831.	0.	0.	6831.	2177.9	96855.	103686.
47	21352.	6875.	0.	0.	6875.	2183.4	75643.	82518.
48	16880.	7085.	0.	5665.	12750.	2185.0	70467.	83217.
49	19170.	7313.	0.	11857.	19170.	2185.0	73114.	92284.
50	12233.	7469.	0.	4764.	12233.	2185.0	52509.	64742.
51	9251.	7633.	0.	1618.	9251.	2185.0	49721.	58972.
52	8027.	7754.	0.	273.	8027.	2185.0	39094.	47121.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	CONVE ENVIRON. RELEASE	VALVE EXCESS RELEASE				
1972 1	6619.	8028.	0.	0.	8028.	2184.5	23091.	31119.
2	5931.	8027.	0.	0.	8027.	2183.7	28065.	36092.
3	4501.	8604.	0.	0.	8604.	2182.1	17651.	26255.
4	3711.	9167.	0.	0.	9167.	2180.0	14118.	23285.
5	3005.	8083.	0.	0.	8083.	2178.1	9578.	17661.
6	2717.	8591.	0.	0.	8591.	2175.9	9589.	18180.
7	2574.	9048.	0.	0.	9048.	2173.4	7924.	16972.
8	2430.	9537.	0.	0.	9537.	2170.7	6236.	15773.
9	2311.	10025.	0.	0.	10025.	2167.8	6307.	16332.
10	2016.	10657.	0.	0.	10657.	2164.5	5579.	16236.
11	2016.	10963.	0.	0.	10963.	2161.1	5063.	16026.
12	1860.	10587.	0.	0.	10587.	2157.8	6502.	17089.
13	1860.	9880.	0.	0.	9880.	2154.7	6405.	16285.
14	1790.	11280.	0.	0.	11280.	2151.1	6634.	17914.
15	1642.	11288.	0.	0.	11288.	2147.0	7824.	19112.
16	1642.	11299.	0.	0.	11299.	2142.7	6737.	18036.
17	1642.	11320.	0.	0.	11320.	2138.3	6804.	18124.
18	1643.	11333.	0.	0.	11333.	2134.0	6328.	17661.
19	1528.	11402.	0.	0.	11402.	2129.5	7043.	18445.
20	1465.	11395.	0.	0.	11395.	2125.1	6129.	17524.
21	1465.	11334.	0.	0.	11334.	2120.6	5822.	17156.
22	1403.	11168.	0.	0.	11168.	2116.2	4996.	16164.
23	1416.	10475.	0.	0.	10475.	2112.1	4962.	15437.
24	1351.	10014.	0.	0.	10014.	2108.3	4394.	14408.
25	1351.	9534.	0.	0.	9534.	2104.6	4678.	14212.
26	1329.	9294.	0.	0.	9294.	2101.0	5191.	14485.
27	1241.	9107.	0.	0.	9107.	2097.0	5534.	14641.
28	1241.	8737.	0.	0.	8737.	2093.0	5457.	14194.
29	1189.	8382.	0.	0.	8382.	2089.2	5647.	14029.
30	1241.	7963.	0.	0.	7963.	2085.6	5311.	13274.
31	2386.	7565.	0.	0.	7565.	2082.8	12097.	19662.
32	13753.	6230.	0.	0.	6230.	2086.8	33831.	40061.
33	13553.	6541.	0.	0.	6541.	2090.6	39649.	46190.
34	18894.	6868.	0.	0.	6868.	2097.0	49699.	56567.
35	31966.	7211.	0.	0.	7211.	2108.6	79829.	87040.
36	20142.	7072.	0.	0.	7072.	2114.4	93006.	100078.
37	35772.	6862.	0.	0.	6862.	2127.5	81172.	88034.
38	31327.	7323.	0.	0.	7323.	2138.2	87508.	94831.
39	21178.	7075.	0.	0.	7075.	2144.6	100486.	107561.
40	22096.	6742.	0.	0.	6742.	2151.3	102809.	109551.
41	22084.	6651.	0.	0.	6651.	2157.1	125378.	132029.
42	19683.	6569.	0.	0.	6569.	2162.1	98956.	105525.
43	16050.	6538.	83.	0.	6621.	2165.7	99685.	106306.
44	18343.	6755.	345.	0.	7100.	2170.0	104834.	111934.
45	19675.	6719.	227.	0.	6946.	2174.8	96246.	103192.
46	18045.	6795.	321.	0.	7116.	2178.9	84582.	91698.
47	18653.	6871.	182.	0.	7053.	2183.4	80898.	87951.
48	12473.	7073.	0.	1065.	8138.	2185.0	62867.	71005.
49	11598.	7295.	0.	4303.	11598.	2185.0	56740.	68338.
50	15857.	7477.	0.	8380.	15857.	2185.0	55985.	71842.
51	11686.	7639.	0.	4047.	11686.	2185.0	53083.	64769.
52	5278.	7759.	0.	0.	7759.	2183.9	31019.	38778.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1973 1	4296.	8028.	0.	0.	8028.	2182.5	17210.	25238.
2	3976.	6689.	0.	0.	6689.	2181.5	10696.	17385.
3	5515.	7170.	0.	0.	7170.	2180.8	30443.	37613.
4	4090.	7639.	0.	0.	7639.	2179.5	24841.	32480.
5	2727.	8083.	0.	0.	8083.	2177.5	22715.	30798.
6	2210.	8591.	0.	0.	8591.	2175.0	17013.	25604.
7	1887.	9048.	0.	0.	9048.	2172.3	12505.	21553.
8	1738.	9537.	0.	0.	9537.	2169.4	9139.	18676.
9	1519.	10025.	0.	0.	10025.	2166.1	9131.	19156.
10	1356.	10657.	0.	0.	10657.	2162.6	9078.	19735.
11	1210.	10963.	0.	0.	10963.	2158.9	8324.	19287.
12	1186.	10587.	0.	0.	10587.	2155.3	7490.	18077.
13	1186.	9880.	0.	0.	9880.	2152.0	6708.	16588.
14	1051.	9522.	0.	0.	9522.	2148.6	6916.	16438.
15	1026.	9520.	0.	0.	9520.	2144.8	6517.	16037.
16	1026.	9506.	0.	0.	9506.	2140.9	5974.	15480.
17	1026.	9522.	0.	0.	9522.	2137.1	5710.	15232.
18	1035.	9508.	0.	0.	9508.	2133.3	5526.	15034.
19	1008.	9542.	0.	0.	9542.	2129.5	5582.	15124.
20	1008.	9542.	0.	0.	9542.	2125.6	5384.	14926.
21	1008.	9445.	0.	0.	9445.	2121.8	5097.	14542.
22	929.	9307.	0.	0.	9307.	2118.1	5084.	14391.
23	868.	8729.	0.	0.	8729.	2114.5	4326.	13055.
24	868.	8345.	0.	0.	8345.	2111.2	4452.	12797.
25	868.	7945.	0.	0.	7945.	2108.0	4274.	12219.
26	868.	7745.	0.	0.	7745.	2104.9	4379.	12124.
27	879.	7589.	0.	0.	7589.	2101.9	4656.	12245.
28	879.	7281.	0.	0.	7281.	2098.8	3922.	11203.
29	879.	6985.	0.	0.	6985.	2095.6	3707.	10692.
30	929.	6636.	0.	0.	6636.	2092.5	5003.	11639.
31	1227.	6304.	0.	0.	6304.	2089.8	4306.	10610.
32	2355.	6230.	0.	0.	6230.	2087.8	15335.	21565.
33	8066.	6541.	0.	0.	6541.	2088.6	50764.	57305.
34	11109.	6868.	0.	0.	6868.	2090.8	51995.	58863.
35	13811.	7211.	0.	0.	7211.	2094.3	47398.	54609.
36	17385.	7072.	0.	0.	7072.	2099.8	61607.	68679.
37	28985.	6862.	0.	0.	6862.	2109.8	58834.	65696.
38	31344.	6657.	0.	0.	6657.	2120.9	103977.	110634.
39	20593.	6408.	0.	0.	6408.	2127.3	108850.	115258.
40	18980.	6923.	0.	0.	6923.	2132.7	96839.	103762.
41	18143.	6842.	172.	0.	7014.	2137.7	84582.	91596.
42	13728.	6765.	734.	0.	7499.	2140.5	73290.	80789.
43	14810.	6737.	644.	0.	7381.	2143.9	79977.	87358.
44	15752.	6954.	141.	0.	7095.	2147.8	76471.	83566.
45	18754.	6725.	0.	0.	6725.	2152.7	80847.	87572.
46	14942.	6999.	186.	0.	7185.	2155.6	62794.	69979.
47	19441.	6641.	0.	0.	6641.	2160.5	79084.	85725.
48	20593.	6458.	0.	0.	6458.	2165.9	65434.	71892.
49	11210.	6668.	0.	0.	6668.	2167.6	51477.	58145.
50	7823.	6845.	0.	0.	6845.	2167.9	56152.	62997.
51	6605.	5617.	0.	0.	5617.	2168.3	54404.	60021.
52	5366.	5536.	0.	0.	5536.	2168.3	43688.	49224.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1974 1	4607.	5352.	0.	0.	5352.	2168.0	34482.	39834.
2	3710.	5351.	0.	0.	5351.	2167.3	28098.	33449.
3	2558.	5736.	0.	0.	5736.	2166.1	20927.	26663.
4	1938.	6111.	0.	0.	6111.	2164.6	16047.	22158.
5	1693.	6466.	0.	0.	6466.	2162.7	15118.	21584.
6	1459.	6873.	0.	0.	6873.	2160.7	12243.	19116.
7	1344.	7238.	0.	0.	7238.	2158.4	8947.	16185.
8	1230.	7630.	0.	0.	7630.	2156.0	9072.	16702.
9	1129.	8020.	0.	0.	8020.	2153.4	9391.	17411.
10	1028.	8526.	0.	0.	8526.	2150.5	7554.	16080.
11	926.	8770.	0.	0.	8770.	2147.1	6685.	15455.
12	881.	8470.	0.	0.	8470.	2143.7	6988.	15458.
13	854.	7904.	0.	0.	7904.	2140.5	7659.	15563.
14	816.	7618.	0.	0.	7618.	2137.5	8065.	15683.
15	811.	7616.	0.	0.	7616.	2134.4	7489.	15105.
16	778.	7605.	0.	0.	7605.	2131.3	7410.	15015.
17	765.	7618.	0.	0.	7618.	2128.3	7322.	14940.
18	745.	7606.	0.	0.	7606.	2125.2	7260.	14866.
19	707.	7634.	0.	0.	7634.	2122.1	6947.	14581.
20	694.	7634.	0.	0.	7634.	2118.9	7482.	15116.
21	662.	7556.	0.	0.	7556.	2115.8	7524.	15080.
22	663.	7446.	0.	0.	7446.	2112.8	7275.	14721.
23	648.	6983.	0.	0.	6983.	2109.9	7571.	14554.
24	636.	6676.	0.	0.	6676.	2107.2	6678.	13354.
25	605.	6356.	0.	0.	6356.	2104.6	6387.	12743.
26	605.	6196.	0.	0.	6196.	2102.1	6392.	12588.
27	594.	6071.	0.	0.	6071.	2099.6	6187.	12258.
28	620.	5825.	0.	0.	5825.	2096.8	6150.	11975.
29	747.	5588.	0.	0.	5588.	2094.2	6623.	12211.
30	1189.	5309.	0.	0.	5309.	2092.1	10121.	15430.
31	2059.	5043.	0.	0.	5043.	2090.5	33047.	38090.
32	5341.	4984.	0.	0.	4984.	2090.7	68849.	73833.
33	9964.	5233.	0.	0.	5233.	2093.2	47639.	52872.
34	22246.	5494.	0.	0.	5494.	2101.8	56039.	61533.
35	25280.	5769.	0.	0.	5769.	2110.5	68500.	74269.
36	16013.	7072.	0.	0.	7072.	2114.6	66805.	73877.
37	13675.	6862.	0.	0.	6862.	2117.6	49782.	56644.
38	12785.	6657.	0.	0.	6657.	2120.4	63215.	69872.
39	13651.	6408.	0.	0.	6408.	2123.6	88341.	94749.
40	14383.	6440.	0.	0.	6440.	2127.2	78276.	84716.
41	17876.	5954.	0.	0.	5954.	2132.6	73313.	79267.
42	16396.	6082.	0.	0.	6082.	2137.2	73454.	79536.
43	15766.	6195.	0.	0.	6195.	2141.5	81190.	87385.
44	14730.	6056.	0.	0.	6056.	2145.4	76360.	82416.
45	15504.	5818.	0.	0.	5818.	2149.8	81405.	87223.
46	13265.	6279.	0.	0.	6279.	2152.5	76453.	82732.
47	10498.	6847.	0.	0.	6847.	2153.9	65855.	72702.
48	14244.	6114.	0.	0.	6114.	2156.9	72517.	78631.
49	13395.	5334.	0.	0.	5334.	2160.0	61820.	67154.
50	7511.	5476.	0.	0.	5476.	2160.8	48090.	53566.
51	7590.	5617.	0.	0.	5617.	2161.5	36670.	42287.
52	9984.	5536.	0.	0.	5536.	2163.5	32874.	38410.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1975 1	4537.	5352.	0.	0.	5352.	2163.1	21034.	26386.
2	4509.	5351.	0.	0.	5351.	2162.8	21062.	26413.
3	2402.	5736.	0.	0.	5736.	2161.6	14741.	20477.
4	1602.	6111.	0.	0.	6111.	2159.8	11684.	17795.
5	1468.	6466.	0.	0.	6466.	2157.9	9675.	16141.
6	1478.	6873.	0.	0.	6873.	2155.9	9522.	16395.
7	1478.	7238.	0.	0.	7238.	2153.7	8665.	15903.
8	1478.	7630.	0.	0.	7630.	2151.4	8522.	16152.
9	1461.	8020.	0.	0.	8020.	2148.7	8539.	16559.
10	1264.	8526.	0.	0.	8526.	2145.4	8522.	17048.
11	1264.	8770.	0.	0.	8770.	2142.0	8236.	17006.
12	1264.	8470.	0.	0.	8470.	2138.8	8022.	16492.
13	1264.	7904.	0.	0.	7904.	2135.8	7736.	15640.
14	1270.	7618.	0.	0.	7618.	2133.0	7730.	15348.
15	1203.	7616.	0.	0.	7616.	2130.1	7583.	15199.
16	1203.	7605.	0.	0.	7605.	2127.2	7297.	14902.
17	1203.	7618.	0.	0.	7618.	2124.3	7297.	14915.
18	1200.	7606.	0.	0.	7606.	2121.4	6800.	14406.
19	1123.	7634.	0.	0.	7634.	2118.5	6877.	14511.
20	1123.	7634.	0.	0.	7634.	2115.6	6877.	14511.
21	1081.	7556.	0.	0.	7556.	2112.7	6419.	13975.
22	1051.	7446.	0.	0.	7446.	2109.8	6449.	13895.
23	1040.	6983.	0.	0.	6983.	2107.1	5960.	12943.
24	1040.	6676.	0.	0.	6676.	2104.6	5960.	12636.
25	1040.	6356.	0.	0.	6356.	2102.2	5960.	12316.
26	1040.	6196.	0.	0.	6196.	2099.8	5960.	12156.
27	1036.	6071.	0.	0.	6071.	2097.2	5750.	11821.
28	1047.	5825.	0.	0.	5825.	2094.6	5453.	11278.
29	1142.	5588.	0.	0.	5588.	2092.2	5358.	10946.
30	1354.	5309.	0.	0.	5309.	2090.1	5932.	11241.
31	2133.	5043.	0.	0.	5043.	2088.6	7081.	12124.
32	5138.	4984.	0.	0.	4984.	2088.7	9433.	14417.
33	11291.	5233.	0.	0.	5233.	2091.9	23138.	28371.
34	17252.	5494.	0.	0.	5494.	2098.2	60777.	66271.
35	23081.	5769.	0.	0.	5769.	2106.2	89419.	95188.
36	30459.	5658.	0.	0.	5658.	2117.4	98970.	104628.
37	22880.	6862.	0.	0.	6862.	2124.6	87406.	94268.
38	28749.	7365.	0.	0.	7365.	2134.2	106680.	114045.
39	25700.	7110.	0.	0.	7110.	2142.6	115157.	122267.
40	23413.	6757.	0.	0.	6757.	2150.0	119444.	126201.
41	25455.	6656.	0.	0.	6656.	2157.2	127974.	134630.
42	24131.	6561.	0.	0.	6561.	2163.9	113726.	120287.
43	22076.	6513.	0.	0.	6513.	2169.8	96353.	102866.
44	20265.	6714.	0.	0.	6714.	2174.9	89878.	96592.
45	16199.	6681.	0.	0.	6681.	2178.5	83372.	90053.
46	15474.	6765.	0.	0.	6765.	2181.8	82826.	89591.
47	13658.	6853.	0.	0.	6853.	2184.4	70956.	77809.
48	11762.	7075.	0.	3196.	10271.	2185.0	56224.	66495.
49	9359.	7289.	0.	2070.	9359.	2185.0	52341.	61700.
50	15849.	7477.	0.	8372.	15849.	2185.0	73308.	89157.
51	14847.	7647.	0.	7200.	14847.	2185.0	79424.	94271.
52	12513.	7768.	0.	4745.	12513.	2185.0	57887.	70400.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	EXCESS RELEASE (CFS)				
1976 1	7559.	8028.	0.	0.	8028.	2184.8	37884.	45912.
2	6664.	8027.	0.	0.	8027.	2184.3	27136.	35163.
3	6139.	8604.	0.	0.	8604.	2183.4	25475.	34079.
4	3621.	9167.	0.	0.	9167.	2181.3	17808.	26975.
5	2720.	8083.	0.	0.	8083.	2179.2	13280.	21363.
6	1937.	8591.	0.	0.	8591.	2176.7	10349.	18940.
7	1475.	9048.	0.	0.	9048.	2173.8	7882.	16930.
8	1173.	9537.	0.	0.	9537.	2170.6	6470.	16007.
9	1011.	10025.	0.	0.	10025.	2167.2	5418.	15443.
10	925.	10657.	0.	0.	10657.	2163.5	5075.	15732.
11	890.	10963.	0.	0.	10963.	2159.7	5110.	16073.
12	855.	10587.	0.	0.	10587.	2156.0	5145.	15732.
13	809.	9880.	0.	0.	9880.	2152.6	5191.	15071.
14	778.	9522.	0.	0.	9522.	2149.1	5565.	15087.
15	778.	9520.	0.	0.	9520.	2145.2	5793.	15313.
16	750.	9506.	0.	0.	9506.	2141.2	6050.	15556.
17	739.	9522.	0.	0.	9522.	2137.3	5661.	15183.
18	741.	9508.	0.	0.	9508.	2133.3	5488.	14996.
19	746.	9542.	0.	0.	9542.	2129.4	5254.	14796.
20	746.	9542.	0.	0.	9542.	2125.4	4854.	14396.
21	746.	9445.	0.	0.	9445.	2121.5	4625.	14070.
22	726.	9307.	0.	0.	9307.	2117.6	4474.	13781.
23	687.	8729.	0.	0.	8729.	2114.0	4656.	13385.
24	687.	8345.	0.	0.	8345.	2110.6	4713.	13058.
25	687.	7945.	0.	0.	7945.	2107.3	4713.	12658.
26	687.	7745.	0.	0.	7745.	2104.1	4713.	12458.
27	644.	7589.	0.	0.	7589.	2101.0	4756.	12345.
28	675.	7281.	0.	0.	7281.	2097.7	4725.	12006.
29	839.	6985.	0.	0.	6985.	2094.4	4875.	11860.
30	1402.	6636.	0.	0.	6636.	2091.6	7598.	14234.
31	3440.	6304.	0.	0.	6304.	2090.1	42703.	49007.
32	9778.	6230.	0.	0.	6230.	2092.0	88308.	94538.
33	9397.	6541.	0.	0.	6541.	2093.5	57117.	63658.
34	9828.	6868.	0.	0.	6868.	2095.1	52886.	59754.
35	11375.	7211.	0.	0.	7211.	2097.3	51354.	58565.
36	23100.	7072.	0.	0.	7072.	2104.9	69729.	76801.
37	24887.	6862.	0.	0.	6862.	2113.0	96642.	103504.
38	17525.	6657.	0.	0.	6657.	2117.9	94046.	100703.
39	16928.	6408.	0.	0.	6408.	2122.7	97129.	103537.
40	16991.	6662.	0.	0.	6662.	2127.3	108866.	115528.
41	16954.	6668.	0.	0.	6668.	2131.9	103475.	110143.
42	16164.	6778.	0.	0.	6778.	2136.2	100407.	107185.
43	16576.	6719.	0.	0.	6719.	2140.6	90095.	96814.
44	20226.	6981.	531.	0.	7512.	2146.3	91117.	98629.
45	26317.	6920.	683.	0.	7603.	2154.0	92254.	99857.
46	19534.	6983.	980.	0.	7963.	2158.4	83123.	91086.
47	15004.	7069.	1136.	0.	8204.	2161.0	75239.	83443.
48	10554.	7284.	1087.	0.	8371.	2161.8	57146.	65517.
49	6302.	6573.	0.	0.	6573.	2161.7	36069.	42642.
50	5160.	5830.	0.	0.	5830.	2161.4	33554.	39384.
51	5190.	5617.	0.	0.	5617.	2161.3	47667.	53284.
52	5530.	5536.	0.	0.	5536.	2161.3	53920.	59456.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1977 1	3729.	5352.	0.	0.	5352.	2160.7	29171.	34523.
2	3045.	5351.	0.	0.	5351.	2159.8	26812.	32163.
3	2903.	5736.	0.	0.	5736.	2158.7	27097.	32833.
4	2576.	6111.	0.	0.	6111.	2157.4	27853.	33964.
5	2139.	6466.	0.	0.	6466.	2155.7	19861.	26327.
6	1963.	6873.	0.	0.	6873.	2153.9	16894.	23767.
7	1839.	7238.	0.	0.	7238.	2151.8	17447.	24685.
8	1736.	7630.	0.	0.	7630.	2149.5	15407.	23037.
9	2097.	8020.	0.	0.	8020.	2146.8	13474.	21494.
10	1902.	8526.	0.	0.	8526.	2143.8	12669.	21195.
11	1722.	8770.	0.	0.	8770.	2140.7	11707.	20477.
12	1583.	8470.	0.	0.	8470.	2137.6	10703.	19173.
13	1462.	7904.	0.	0.	7904.	2134.7	10252.	18156.
14	1442.	7618.	0.	0.	7618.	2131.9	10129.	17747.
15	1400.	7616.	0.	0.	7616.	2129.1	8743.	16359.
16	1326.	7605.	0.	0.	7605.	2126.3	8245.	15850.
17	1294.	7618.	0.	0.	7618.	2123.4	8206.	15824.
18	1257.	7606.	0.	0.	7606.	2120.6	8672.	16278.
19	1219.	7634.	0.	0.	7634.	2117.7	8138.	15772.
20	1197.	7634.	0.	0.	7634.	2114.8	7446.	15080.
21	1197.	7556.	0.	0.	7556.	2111.9	7589.	15145.
22	1156.	7446.	0.	0.	7446.	2109.1	6630.	14076.
23	1106.	6983.	0.	0.	6983.	2106.5	6037.	13020.
24	1106.	6676.	0.	0.	6676.	2104.0	5537.	12213.
25	1106.	6356.	0.	0.	6356.	2101.6	5394.	11750.
26	1106.	6196.	0.	0.	6196.	2099.2	5394.	11590.
27	1149.	6071.	0.	0.	6071.	2096.6	4994.	11065.
28	1149.	5825.	0.	0.	5825.	2094.1	4851.	10676.
29	1211.	5588.	0.	0.	5588.	2091.7	4789.	10377.
30	1272.	5309.	0.	0.	5309.	2089.6	5299.	10608.
31	1314.	5043.	0.	0.	5043.	2087.6	6900.	11943.
32	2267.	4984.	0.	0.	4984.	2086.2	15876.	20860.
33	8205.	5233.	0.	0.	5233.	2087.7	47952.	53185.
34	12588.	5494.	0.	0.	5494.	2091.5	75869.	81363.
35	19531.	5769.	0.	0.	5769.	2098.9	99298.	105067.
36	29414.	5658.	0.	0.	5658.	2109.7	128729.	134387.
37	38957.	5490.	0.	0.	5490.	2124.8	134043.	139533.
38	31928.	6657.	0.	0.	6657.	2136.1	140358.	147015.
39	28489.	7080.	0.	0.	7080.	2145.8	140082.	147162.
40	18502.	6738.	0.	0.	6738.	2150.9	130641.	137379.
41	20572.	6657.	0.	0.	6657.	2156.2	121714.	128371.
42	21740.	6573.	0.	0.	6573.	2161.9	128403.	134976.
43	18089.	6536.	0.	0.	6536.	2166.3	116768.	123304.
44	19531.	6746.	0.	0.	6746.	2171.2	116612.	123358.
45	18939.	6708.	0.	0.	6708.	2175.8	114490.	121198.
46	17328.	6786.	28.	0.	6814.	2179.8	116672.	123486.
47	17519.	6865.	0.	0.	6865.	2183.9	116910.	123775.
48	11066.	7070.	0.	1012.	8082.	2185.0	78034.	86116.
49	8643.	7287.	0.	1356.	8643.	2185.0	65014.	73657.
50	12235.	7469.	0.	4766.	12235.	2185.0	85394.	97629.
51	11736.	7640.	0.	4097.	11736.	2185.0	73035.	84771.
52	9877.	7761.	0.	2116.	9877.	2185.0	71186.	81063.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1978 1	6782.	8028.	0.	0.	8028.	2184.5	49947.	57975.
2	6882.	8027.	0.	0.	8027.	2184.1	39832.	47859.
3	6046.	8604.	0.	0.	8604.	2183.1	27383.	35987.
4	4510.	9167.	0.	0.	9167.	2181.4	19490.	28657.
5	3355.	9700.	0.	0.	9700.	2178.9	15074.	24774.
6	2862.	8591.	0.	0.	8591.	2176.8	12424.	21015.
7	2578.	9048.	0.	0.	9048.	2174.3	9993.	19041.
8	2392.	9537.	0.	0.	9537.	2171.6	7665.	17202.
9	2223.	10025.	0.	0.	10025.	2168.6	17948.	27973.
10	2108.	12278.	0.	0.	12278.	2164.8	5806.	18084.
11	2015.	12583.	0.	0.	12583.	2160.8	5471.	18054.
12	1955.	12250.	0.	0.	12250.	2156.8	5388.	17638.
13	1808.	11613.	0.	0.	11613.	2153.1	5392.	17005.
14	1741.	11305.	0.	0.	11305.	2149.4	5288.	16593.
15	1641.	11316.	0.	0.	11316.	2145.0	5359.	16675.
16	1557.	11336.	0.	0.	11336.	2140.6	5443.	16779.
17	1496.	11358.	0.	0.	11358.	2136.2	5504.	16862.
18	1403.	11373.	0.	0.	11373.	2131.7	5397.	16770.
19	1285.	11445.	0.	0.	11445.	2127.2	5515.	16960.
20	1247.	11440.	0.	0.	11440.	2122.6	5553.	16993.
21	1247.	11334.	0.	0.	11334.	2118.0	5553.	16887.
22	1212.	11168.	0.	0.	11168.	2113.6	5388.	16556.
23	1258.	10475.	0.	0.	10475.	2109.4	5342.	15817.
24	1258.	10014.	0.	0.	10014.	2105.5	5342.	15356.
25	1258.	9534.	0.	0.	9534.	2101.7	5342.	14876.
26	1275.	9294.	0.	0.	9294.	2097.8	5282.	14576.
27	1251.	9107.	0.	0.	9107.	2093.6	5178.	14285.
28	1251.	8737.	0.	0.	8737.	2089.6	5206.	13943.
29	1251.	8382.	0.	0.	8382.	2085.8	5549.	13931.
30	1322.	7963.	0.	0.	7963.	2082.3	6392.	14355.
31	3355.	7565.	0.	0.	7565.	2080.1	9674.	17239.
32	11862.	6230.	0.	0.	6230.	2083.1	32424.	38654.
33	16195.	6541.	0.	0.	6541.	2088.2	43519.	50060.
34	10959.	6868.	0.	0.	6868.	2090.4	45912.	52780.
35	11660.	7211.	0.	0.	7211.	2092.7	51369.	58580.
36	13979.	7072.	0.	0.	7072.	2096.4	55735.	62807.
37	19417.	6862.	0.	0.	6862.	2102.6	75854.	82716.
38	16614.	6657.	0.	0.	6657.	2107.1	76915.	83572.
39	20703.	5917.	0.	0.	5917.	2113.7	91868.	97785.
40	19608.	5294.	0.	0.	5294.	2120.2	95535.	100829.
41	18215.	5486.	0.	0.	5486.	2125.9	100642.	106128.
42	18416.	5459.	0.	0.	5459.	2131.7	99441.	104900.
43	18064.	5507.	0.	0.	5507.	2137.4	99222.	104729.
44	16600.	4845.	0.	0.	4845.	2142.7	107400.	112245.
45	15674.	4826.	0.	0.	4826.	2147.6	104469.	109295.
46	14572.	4907.	0.	0.	4907.	2151.6	90442.	95349.
47	12160.	5331.	0.	0.	5331.	2154.2	81211.	86542.
48	8756.	6070.	0.	0.	6070.	2155.2	61887.	67957.
49	9287.	6073.	0.	0.	6073.	2156.4	62842.	68915.
50	8372.	5476.	0.	0.	5476.	2157.5	58328.	63804.
51	6293.	5617.	0.	0.	5617.	2157.8	45521.	51138.
52	4696.	5536.	0.	0.	5536.	2157.4	28292.	33828.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1979 1	4195.	5352.	0.	0.	5352.	2157.0	26805.	32157.
2	4701.	5351.	0.	0.	5351.	2156.7	40442.	45793.
3	3796.	5736.	0.	0.	5736.	2156.0	38204.	43940.
4	2849.	6111.	0.	0.	6111.	2154.8	29151.	35262.
5	2736.	6466.	0.	0.	6466.	2153.4	23835.	30301.
6	2368.	6873.	0.	0.	6873.	2151.6	17346.	24219.
7	1774.	7238.	0.	0.	7238.	2149.5	11655.	18893.
8	1558.	7630.	0.	0.	7630.	2146.8	8728.	16358.
9	1502.	8020.	0.	0.	8020.	2143.8	8355.	16375.
10	1483.	8526.	0.	0.	8526.	2140.7	8017.	16543.
11	1349.	8770.	0.	0.	8770.	2137.3	8151.	16921.
12	1214.	8470.	0.	0.	8470.	2134.1	8000.	16470.
13	1170.	7904.	0.	0.	7904.	2131.0	7830.	15734.
14	1185.	7618.	0.	0.	7618.	2128.1	7815.	15433.
15	1138.	7616.	0.	0.	7616.	2125.2	7862.	15478.
16	1138.	7605.	0.	0.	7605.	2122.3	7862.	15467.
17	1138.	7618.	0.	0.	7618.	2119.4	7362.	14980.
18	1059.	7606.	0.	0.	7606.	2116.5	7441.	15047.
19	1067.	7634.	0.	0.	7634.	2113.5	7076.	14710.
20	1067.	7634.	0.	0.	7634.	2110.5	6933.	14567.
21	1067.	7556.	0.	0.	7556.	2107.6	6647.	14203.
22	989.	7446.	0.	0.	7446.	2104.7	6440.	13886.
23	1113.	6983.	0.	0.	6983.	2102.1	5887.	12870.
24	1113.	6676.	0.	0.	6676.	2099.5	5887.	12563.
25	1113.	6356.	0.	0.	6356.	2096.7	5887.	12243.
26	1113.	6196.	0.	0.	6196.	2094.0	5887.	12083.
27	1064.	6071.	0.	0.	6071.	2091.3	5436.	11507.
28	1113.	5825.	0.	0.	5825.	2088.8	5673.	11498.
29	1228.	5588.	0.	0.	5588.	2086.5	6915.	12503.
30	1545.	5309.	0.	0.	5309.	2084.5	9812.	15121.
31	2451.	5043.	0.	0.	5043.	2083.1	20263.	25306.
32	4633.	4984.	0.	0.	4984.	2082.9	62510.	67494.
33	10811.	5233.	0.	0.	5233.	2085.9	77403.	82636.
34	17246.	5494.	0.	0.	5494.	2092.2	77125.	82619.
35	28470.	5769.	0.	0.	5769.	2103.6	98101.	103870.
36	25470.	6984.	0.	0.	6984.	2111.9	99530.	106514.
37	21379.	7308.	0.	0.	7308.	2118.2	94907.	102215.
38	19302.	7470.	3.	0.	7473.	2123.6	85555.	93028.
39	23880.	7109.	0.	0.	7109.	2131.1	109120.	116229.
40	22832.	6883.	0.	0.	6883.	2138.3	106311.	113194.
41	22584.	6768.	0.	0.	6768.	2145.4	113559.	120327.
42	27495.	6655.	0.	0.	6655.	2154.0	123791.	130446.
43	28100.	6588.	0.	0.	6588.	2162.2	127329.	133917.
44	21732.	6778.	0.	0.	6778.	2167.9	115839.	122617.
45	20346.	6735.	0.	0.	6735.	2173.0	117940.	124675.
46	16431.	6811.	0.	0.	6811.	2176.7	127283.	134094.
47	13993.	6898.	0.	0.	6898.	2179.4	110150.	117048.
48	12415.	7103.	0.	0.	7103.	2181.4	82042.	89145.
49	7911.	7315.	0.	0.	7315.	2181.6	50418.	57733.
50	7704.	7486.	0.	0.	7486.	2181.7	47696.	55182.
51	11339.	7652.	0.	0.	7652.	2183.1	80775.	88427.
52	8978.	7769.	0.	0.	7769.	2183.6	90972.	98741.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1980 1	6672.	8028.	0.	0.	8028.	2183.1	59271.	67299.
2	8469.	6689.	0.	0.	6689.	2183.8	75431.	82120.
3	5948.	7170.	0.	0.	7170.	2183.3	49966.	57136.
4	4395.	7639.	0.	0.	7639.	2182.1	33834.	41473.
5	4084.	8083.	0.	0.	8083.	2180.6	35130.	43213.
6	3698.	8591.	0.	0.	8591.	2178.7	35131.	43722.
7	4120.	9048.	0.	0.	9048.	2176.9	32809.	41857.
8	2949.	11230.	0.	0.	11230.	2173.7	19337.	30567.
9	2811.	11671.	0.	0.	11671.	2170.3	16475.	28146.
10	2297.	12250.	0.	0.	12250.	2166.6	15060.	27310.
11	2069.	12553.	0.	0.	12553.	2162.6	13217.	25770.
12	1890.	12220.	0.	0.	12220.	2158.7	11296.	23516.
13	1711.	11585.	0.	0.	11585.	2154.9	10360.	21945.
14	1607.	11278.	0.	0.	11278.	2151.2	9679.	20957.
15	1535.	11287.	0.	0.	11287.	2147.1	8894.	20181.
16	1451.	11299.	0.	0.	11299.	2142.6	8478.	19777.
17	1379.	11322.	0.	0.	11322.	2138.2	8121.	19443.
18	1345.	11337.	0.	0.	11337.	2133.7	8012.	19349.
19	1285.	11408.	0.	0.	11408.	2129.1	7901.	19309.
20	1224.	11403.	0.	0.	11403.	2124.5	7819.	19222.
21	1176.	11334.	0.	0.	11334.	2120.0	7695.	19029.
22	1175.	11168.	0.	0.	11168.	2115.5	7625.	18793.
23	1177.	10475.	0.	0.	10475.	2111.3	7680.	18155.
24	1177.	10014.	0.	0.	10014.	2107.3	7952.	17966.
25	1177.	9534.	0.	0.	9534.	2103.6	7523.	17057.
26	1177.	9294.	0.	0.	9294.	2099.9	7809.	17103.
27	1122.	9107.	0.	0.	9107.	2095.7	8507.	17614.
28	1122.	8737.	0.	0.	8737.	2091.6	9235.	17972.
29	1179.	8382.	0.	0.	8382.	2087.8	10821.	19203.
30	1604.	7963.	0.	0.	7963.	2084.4	12967.	20930.
31	3462.	7565.	0.	0.	7565.	2082.2	20252.	27817.
32	8212.	6230.	0.	0.	6230.	2083.2	47417.	53647.
33	11764.	6541.	0.	0.	6541.	2086.0	56165.	62706.
34	10518.	6868.	0.	0.	6868.	2088.0	66496.	73364.
35	16714.	7211.	0.	0.	7211.	2093.0	92872.	100083.
36	25823.	7072.	0.	0.	7072.	2102.5	112320.	119392.
37	20349.	6862.	0.	0.	6862.	2108.6	121222.	128084.
38	26351.	6657.	0.	0.	6657.	2117.5	124935.	131592.
39	22988.	6408.	0.	0.	6408.	2124.9	124441.	130849.
40	26281.	6061.	0.	0.	6061.	2134.0	134862.	140923.
41	26663.	5954.	0.	0.	5954.	2143.3	163194.	169148.
42	28137.	6671.	0.	0.	6671.	2152.5	162434.	169105.
43	25275.	6605.	0.	0.	6605.	2159.6	149582.	156187.
44	28150.	6790.	0.	0.	6790.	2167.7	143993.	150783.
45	19051.	6738.	0.	0.	6738.	2172.4	118663.	125401.
46	18006.	6814.	0.	0.	6814.	2176.7	113565.	120379.
47	16331.	6894.	0.	0.	6894.	2180.2	102383.	109277.
48	11948.	7097.	0.	0.	7097.	2182.1	87338.	94435.
49	8723.	7307.	0.	0.	7307.	2182.6	75706.	83013.
50	9329.	7474.	0.	0.	7474.	2183.3	74242.	81716.
51	15679.	7647.	0.	3638.	11284.	2185.0	92035.	103319.
52	10243.	7762.	0.	2481.	10243.	2185.0	79132.	89375.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1981 1	8532.	8216.	0.	316.	8532.	2185.0	34039.	42571.
2	7605.	8027.	0.	0.	8027.	2184.8	32538.	40565.
3	6326.	8604.	0.	0.	8604.	2184.0	27217.	35821.
4	5214.	9167.	0.	0.	9167.	2182.5	22272.	31439.
5	3950.	9700.	0.	0.	9700.	2180.3	18607.	28307.
6	3534.	10309.	0.	0.	10309.	2177.7	16180.	26489.
7	2637.	10811.	0.	0.	10811.	2174.6	11506.	22317.
8	2685.	11263.	0.	0.	11263.	2171.4	11458.	22721.
9	2707.	11707.	0.	0.	11707.	2167.9	11007.	22714.
10	2175.	12289.	0.	0.	12289.	2164.1	8254.	20543.
11	1678.	12595.	0.	0.	12595.	2159.9	6751.	19346.
12	1578.	12264.	0.	0.	12264.	2155.9	5708.	17972.
13	1516.	11629.	0.	0.	11629.	2152.0	5413.	17042.
14	1448.	11324.	0.	0.	11324.	2148.0	5409.	16733.
15	1684.	11341.	0.	0.	11341.	2143.6	5745.	17086.
16	1961.	11360.	0.	0.	11360.	2139.4	6110.	17470.
17	2118.	11378.	0.	0.	11378.	2135.2	6025.	17403.
18	2142.	11388.	0.	0.	11388.	2131.1	6429.	17817.
19	1911.	11450.	0.	0.	11450.	2126.8	6946.	18396.
20	1594.	11445.	0.	0.	11445.	2122.4	5977.	17422.
21	1265.	11334.	0.	0.	11334.	2117.8	5449.	16783.
22	1190.	11168.	0.	0.	11168.	2113.3	4881.	16049.
23	1194.	10475.	0.	0.	10475.	2109.2	4806.	15281.
24	1274.	10014.	0.	0.	10014.	2105.2	4726.	14740.
25	1297.	9534.	0.	0.	9534.	2101.5	4917.	14451.
26	1314.	9294.	0.	0.	9294.	2097.6	5257.	14551.
27	1238.	9107.	0.	0.	9107.	2093.4	5976.	15083.
28	1291.	8737.	0.	0.	8737.	2089.4	6709.	15446.
29	1373.	8382.	0.	0.	8382.	2085.7	7770.	16152.
30	1779.	7963.	0.	0.	7963.	2082.4	11650.	19613.
31	4737.	7565.	0.	0.	7565.	2080.9	35120.	42685.
32	17566.	6230.	0.	0.	6230.	2086.9	68148.	74378.
33	17640.	6541.	0.	0.	6541.	2092.8	75217.	81758.
34	11625.	6868.	0.	0.	6868.	2095.4	74546.	81414.
35	19077.	7211.	0.	0.	7211.	2101.4	86894.	94105.
36	16465.	7072.	0.	0.	7072.	2105.6	82935.	90007.
37	14949.	7035.	0.	0.	7035.	2109.2	79180.	86215.
38	16085.	6885.	0.	0.	6885.	2113.3	100629.	107514.
39	18788.	6531.	0.	0.	6531.	2118.9	102069.	108600.
40	14090.	6061.	0.	0.	6061.	2122.5	88510.	94571.
41	33261.	5954.	0.	0.	5954.	2134.7	119639.	125593.
42	32516.	5873.	0.	0.	5873.	2146.7	156341.	162214.
43	29007.	5838.	0.	0.	5838.	2156.0	142279.	148117.
44	31168.	6817.	0.	0.	6817.	2165.3	134546.	141363.
45	30077.	6741.	0.	0.	6741.	2174.2	132637.	139378.
46	38871.	6781.	0.	3537.	10318.	2185.0	167843.	178161.
47	30803.	6892.	0.	23911.	30803.	2185.0	103054.	133857.
48	20647.	7096.	0.	13551.	20647.	2185.0	94924.	115571.
49	15158.	7304.	0.	7855.	15158.	2185.0	82299.	97457.
50	12220.	7469.	0.	4751.	12220.	2185.0	57194.	69414.
51	10197.	7636.	0.	2561.	10197.	2185.0	45903.	56100.
52	8299.	7755.	0.	544.	8299.	2185.0	33864.	42163.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1982 1	5901.	8028.	0.	0.	8028.	2184.2	24556.	32584.
2	5560.	8027.	0.	0.	8027.	2183.3	22026.	30053.
3	5713.	8604.	0.	0.	8604.	2182.2	25401.	34005.
4	6627.	9167.	0.	0.	9167.	2181.2	41630.	50797.
5	3364.	8083.	0.	0.	8083.	2179.4	22293.	30376.
6	2845.	8591.	0.	0.	8591.	2177.2	18441.	27032.
7	2782.	9048.	0.	0.	9048.	2174.8	14789.	23837.
8	2339.	9537.	0.	0.	9537.	2172.1	11804.	21341.
9	2057.	11698.	0.	0.	11698.	2168.4	10943.	22641.
10	1971.	12281.	0.	0.	12281.	2164.5	10315.	22596.
11	1860.	12587.	0.	0.	12587.	2160.4	10140.	22727.
12	1794.	12255.	0.	0.	12255.	2156.5	9635.	21890.
13	1794.	11619.	0.	0.	11619.	2152.7	9206.	20825.
14	1697.	11312.	0.	0.	11312.	2148.9	8589.	19901.
15	1695.	11323.	0.	0.	11323.	2144.6	7591.	18914.
16	1695.	11343.	0.	0.	11343.	2140.3	7162.	18505.
17	1695.	11364.	0.	0.	11364.	2135.9	6805.	18169.
18	1729.	11377.	0.	0.	11377.	2131.6	6342.	17719.
19	1662.	11446.	0.	0.	11446.	2127.2	5909.	17355.
20	1213.	11440.	0.	0.	11440.	2122.6	5858.	17298.
21	881.	11334.	0.	0.	11334.	2117.9	6119.	17453.
22	767.	11168.	0.	0.	11168.	2113.2	5733.	16901.
23	826.	10475.	0.	0.	10475.	2108.8	5031.	15506.
24	826.	10014.	0.	0.	10014.	2104.7	4674.	14688.
25	874.	9534.	0.	0.	9534.	2100.8	4126.	13660.
26	1123.	9294.	0.	0.	9294.	2096.6	3877.	13171.
27	956.	9107.	0.	0.	9107.	2092.3	4044.	13151.
28	956.	7281.	0.	0.	7281.	2088.9	4115.	11396.
29	1057.	6985.	0.	0.	6985.	2085.8	4657.	11642.
30	1403.	6636.	0.	0.	6636.	2083.0	5383.	12019.
31	2641.	6304.	0.	0.	6304.	2081.0	7073.	13377.
32	6274.	6230.	0.	0.	6230.	2081.0	20726.	26956.
33	11618.	6541.	0.	0.	6541.	2083.7	43482.	50023.
34	15603.	6868.	0.	0.	6868.	2088.4	45726.	52594.
35	17916.	7211.	0.	0.	7211.	2094.1	52355.	59566.
36	21638.	7072.	0.	0.	7072.	2101.6	81819.	88891.
37	18090.	6862.	0.	0.	6862.	2106.6	85539.	92401.
38	23883.	6657.	0.	0.	6657.	2114.4	84374.	91031.
39	23173.	6408.	0.	0.	6408.	2121.9	102827.	109235.
40	16689.	6189.	0.	0.	6189.	2126.6	84797.	90986.
41	20637.	5954.	0.	0.	5954.	2133.2	82092.	88046.
42	20979.	5873.	0.	0.	5873.	2140.0	86021.	91894.
43	23533.	5838.	0.	0.	5838.	2148.0	114610.	120448.
44	20306.	6056.	0.	0.	6056.	2153.7	110694.	116750.
45	13970.	6341.	0.	0.	6341.	2156.6	90601.	96942.
46	12157.	6686.	0.	0.	6686.	2158.7	81772.	88458.
47	10610.	6981.	0.	0.	6981.	2160.1	70676.	77657.
48	11835.	6821.	0.	0.	6821.	2162.0	69022.	75843.
49	10670.	5334.	0.	0.	5334.	2164.0	72187.	77521.
50	13360.	5476.	0.	0.	5476.	2167.0	80783.	86259.
51	21010.	5617.	0.	0.	5617.	2172.8	153561.	159178.
52	11582.	5536.	0.	0.	5536.	2175.5	80168.	85704.

TABLE 7

WITH-PROJECT FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATIONS

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1983 1	7782.	5352.	0.	0.	5352.	2176.4	47175.	52527.
2	6119.	5351.	0.	0.	5351.	2176.7	30152.	35503.
3	4982.	5736.	0.	0.	5736.	2176.4	23847.	29583.
4	2921.	6111.	0.	0.	6111.	2175.2	19365.	25476.
5	2384.	6466.	0.	0.	6466.	2173.6	16473.	22939.
6	2252.	6873.	0.	0.	6873.	2171.9	14605.	21478.
7	2137.	9048.	0.	0.	9048.	2169.2	13006.	22054.
8	1997.	9537.	0.	0.	9537.	2166.4	11717.	21254.
9	1944.	10025.	0.	0.	10025.	2163.3	10342.	20367.
10	1850.	10657.	0.	0.	10657.	2160.0	9150.	19807.
11	1850.	10963.	0.	0.	10963.	2156.5	8093.	19056.
12	1850.	10587.	0.	0.	10587.	2153.2	7236.	17823.
13	1965.	9880.	0.	0.	9880.	2150.2	6949.	16829.
14	2201.	9522.	0.	0.	9522.	2146.9	7799.	17321.
15	1906.	9520.	0.	0.	9520.	2143.5	6580.	16100.
16	1690.	9506.	0.	0.	9506.	2140.0	6167.	15673.
17	1588.	9522.	0.	0.	9522.	2136.4	6212.	15734.
18	1553.	9508.	0.	0.	9508.	2132.8	6047.	15555.
19	1535.	9542.	0.	0.	9542.	2129.2	6151.	15693.
20	1650.	9542.	0.	0.	9542.	2125.7	6950.	16492.
21	1685.	9445.	0.	0.	9445.	2122.2	7544.	16989.
22	1583.	9307.	0.	0.	9307.	2118.7	6846.	16153.
23	1534.	8729.	0.	0.	8729.	2115.5	6066.	14795.
24	1437.	8345.	0.	0.	8345.	2112.4	5620.	13965.
25	1389.	7945.	0.	0.	7945.	2109.4	5382.	13327.
26	1280.	7745.	0.	0.	7745.	2106.5	5320.	13065.
27	1185.	7589.	0.	0.	7589.	2103.6	5358.	12947.
28	1208.	7281.	0.	0.	7281.	2100.9	5235.	12516.
29	1411.	6985.	0.	0.	6985.	2098.1	5475.	12460.
30	1907.	6636.	0.	0.	6636.	2095.6	7350.	13986.
31	3484.	6304.	0.	0.	6304.	2094.1	16302.	22606.
32	8419.	6230.	0.	0.	6230.	2095.3	46410.	52640.
33	14537.	6541.	0.	0.	6541.	2099.5	65749.	72290.
34	12909.	6868.	0.	0.	6868.	2102.3	55805.	62673.
35	18671.	7211.	0.	0.	7211.	2107.5	68615.	75826.
36	23758.	7072.	0.	0.	7072.	2115.0	84099.	91171.
37	17019.	6862.	0.	0.	6862.	2119.5	60124.	66986.
38	20754.	6657.	0.	0.	6657.	2125.9	85817.	92474.
39	20568.	7221.	0.	0.	7221.	2131.9	101575.	108796.
40	22463.	6875.	0.	0.	6875.	2138.9	95251.	102126.
41	19352.	6769.	0.	0.	6769.	2144.5	92362.	99131.
42	16152.	6684.	225.	0.	6909.	2148.7	83119.	90028.
43	17431.	6652.	93.	0.	6745.	2153.0	73183.	79928.
44	17935.	6868.	0.	0.	6868.	2157.2	77265.	84133.
45	22829.	6826.	0.	0.	6826.	2163.2	122314.	129140.
46	21149.	6890.	0.	0.	6890.	2168.7	92308.	99198.
47	18683.	6962.	0.	0.	6962.	2173.1	71131.	78093.
48	22728.	7143.	0.	0.	7143.	2179.0	62201.	69344.
49	15528.	7323.	0.	0.	7323.	2182.2	58101.	65424.
50	9607.	7478.	0.	0.	7478.	2183.0	40107.	47585.
51	8465.	7645.	0.	0.	7645.	2183.3	33706.	41351.
52	9728.	7766.	0.	0.	7766.	2184.1	31247.	39013.

**TABLE 8**

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1951 1	4521.	5352.	0.	0.	5352.	2157.9	736.	6088.
2	4029.	5351.	0.	0.	5351.	2157.4	657.	6008.
3	3518.	5736.	0.	0.	5736.	2156.6	573.	6309.
4	2007.	6111.	0.	0.	6111.	2155.0	327.	6438.
5	1248.	6466.	0.	0.	6466.	2153.0	223.	6689.
6	1176.	6873.	0.	0.	6873.	2150.9	210.	7083.
7	1103.	7238.	0.	0.	7238.	2148.3	197.	7435.
8	1042.	7630.	0.	0.	7630.	2145.3	187.	7817.
9	994.	8020.	0.	0.	8020.	2142.1	177.	8197.
10	903.	8526.	0.	0.	8526.	2138.7	197.	8723.
11	903.	8770.	0.	0.	8770.	2135.2	197.	8967.
12	903.	8470.	0.	0.	8470.	2131.8	197.	8667.
13	903.	7904.	0.	0.	7904.	2128.6	197.	8101.
14	828.	7618.	0.	0.	7618.	2125.6	152.	7770.
15	812.	7616.	0.	0.	7616.	2122.5	148.	7764.
16	812.	7605.	0.	0.	7605.	2119.5	148.	7753.
17	812.	7618.	0.	0.	7618.	2116.4	148.	7766.
18	757.	7606.	0.	0.	7606.	2113.3	143.	7749.
19	667.	7634.	0.	0.	7634.	2110.2	153.	7787.
20	667.	7634.	0.	0.	7634.	2107.0	153.	7787.
21	667.	7556.	0.	0.	7556.	2103.9	153.	7709.
22	641.	7446.	0.	0.	7446.	2100.9	145.	7591.
23	618.	6983.	0.	0.	6983.	2097.7	122.	7105.
24	618.	6676.	0.	0.	6676.	2094.4	122.	6798.
25	618.	6356.	0.	0.	6356.	2091.4	122.	6478.
26	618.	6196.	0.	0.	6196.	2088.4	122.	6318.
27	542.	6071.	0.	0.	6071.	2085.5	232.	6303.
28	700.	5825.	0.	0.	5825.	2082.7	297.	6122.
29	1071.	5588.	0.	0.	5588.	2080.3	458.	6046.
30	1861.	5309.	0.	0.	5309.	2078.5	796.	6105.
31	4923.	5043.	0.	0.	5043.	2078.4	1234.	6277.
32	14338.	4984.	0.	0.	4984.	2083.4	2991.	7975.
33	15945.	5233.	0.	0.	5233.	2089.1	3326.	8559.
34	7915.	5494.	0.	0.	5494.	2090.4	1652.	7146.
35	13828.	5769.	0.	0.	5769.	2094.7	2843.	8612.
36	26696.	6153.	0.	0.	6153.	2104.8	2847.	9000.
37	19247.	6947.	0.	0.	6947.	2110.3	2053.	9000.
38	12238.	7695.	0.	0.	7695.	2112.3	1305.	9000.
39	17232.	7161.	0.	0.	7161.	2116.9	1839.	9000.
40	18464.	6735.	0.	0.	6735.	2122.1	2265.	9000.
41	21682.	6339.	0.	0.	6339.	2129.0	2661.	9000.
42	20740.	6454.	0.	0.	6454.	2135.5	2546.	9000.
43	19074.	6660.	0.	0.	6660.	2141.0	2340.	9000.
44	17891.	5462.	0.	0.	5462.	2146.6	3538.	9000.
45	14413.	5799.	0.	0.	5799.	2150.4	3201.	9000.
46	15312.	5598.	0.	0.	5598.	2154.1	3402.	9000.
47	14985.	5671.	0.	0.	5671.	2157.7	3329.	9000.
48	21048.	5166.	0.	0.	5166.	2163.7	4552.	9718.
49	24531.	5334.	0.	0.	5334.	2171.0	5526.	10860.
50	15237.	5476.	0.	0.	5476.	2174.7	3434.	8910.
51	15738.	5617.	0.	0.	5617.	2178.5	3548.	9165.
52	13323.	5536.	0.	0.	5536.	2181.9	3002.	8538.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1952 1	7559.	5352.	0.	0.	5352.	2182.8	1670.	7022.
2	5055.	6689.	0.	0.	6689.	2182.1	1116.	7805.
3	3674.	7170.	0.	0.	7170.	2180.8	812.	7982.
4	2855.	7639.	0.	0.	7639.	2179.0	631.	8270.
5	2793.	8083.	0.	0.	8083.	2177.0	707.	8790.
6	2609.	8591.	0.	0.	8591.	2174.7	595.	9186.
7	1928.	9048.	0.	0.	9048.	2172.0	441.	9489.
8	1908.	9537.	0.	0.	9537.	2169.1	435.	9972.
9	1761.	10025.	0.	0.	10025.	2166.0	425.	10450.
10	1489.	10657.	0.	0.	10657.	2162.5	411.	11068.
11	1489.	10963.	0.	0.	10963.	2158.9	411.	11374.
12	1489.	10587.	0.	0.	10587.	2155.4	411.	10998.
13	1489.	9880.	0.	0.	9880.	2152.2	411.	10291.
14	1329.	9522.	0.	0.	9522.	2149.0	314.	9836.
15	1299.	9520.	0.	0.	9520.	2145.3	301.	9821.
16	1299.	9506.	0.	0.	9506.	2141.6	301.	9807.
17	1299.	9522.	0.	0.	9522.	2137.9	301.	9823.
18	1069.	9508.	0.	0.	9508.	2134.1	274.	9782.
19	819.	9542.	0.	0.	9542.	2130.2	181.	9723.
20	819.	9542.	0.	0.	9542.	2126.2	181.	9723.
21	819.	9445.	0.	0.	9445.	2122.4	181.	9626.
22	784.	9307.	0.	0.	9307.	2118.5	165.	9472.
23	730.	8729.	0.	0.	8729.	2114.9	150.	8879.
24	730.	8345.	0.	0.	8345.	2111.5	150.	8495.
25	730.	7945.	0.	0.	7945.	2108.3	150.	8095.
26	730.	7745.	0.	0.	7745.	2105.1	150.	7895.
27	796.	7589.	0.	0.	7589.	2102.0	124.	7713.
28	796.	7281.	0.	0.	7281.	2099.0	124.	7405.
29	796.	6985.	0.	0.	6985.	2095.7	124.	7109.
30	796.	6636.	0.	0.	6636.	2092.6	124.	6760.
31	909.	6304.	0.	0.	6304.	2089.7	282.	6586.
32	1132.	6230.	0.	0.	6230.	2087.0	382.	6612.
33	1549.	6541.	0.	0.	6541.	2084.3	522.	7063.
34	3357.	6868.	0.	0.	6868.	2082.5	1129.	7997.
35	16784.	7211.	0.	0.	7211.	2087.5	5145.	12356.
36	19892.	7072.	0.	0.	7072.	2094.4	4922.	11994.
37	28174.	6862.	0.	0.	6862.	2104.8	6969.	13831.
38	30555.	6657.	0.	0.	6657.	2115.6	7559.	14216.
39	27039.	6408.	0.	0.	6408.	2124.9	6690.	13098.
40	23527.	6061.	0.	0.	6061.	2132.7	4102.	10163.
41	16714.	6085.	0.	0.	6085.	2137.5	2915.	9000.
42	21361.	5873.	0.	0.	5873.	2144.5	3725.	9598.
43	23150.	5838.	0.	0.	5838.	2151.9	4036.	9874.
44	30727.	6056.	0.	0.	6056.	2161.3	6516.	12572.
45	19888.	7240.	0.	0.	7240.	2166.1	5183.	12423.
46	15618.	7361.	0.	0.	7361.	2169.2	4068.	11429.
47	11855.	7468.	0.	0.	7468.	2170.9	3088.	10556.
48	13935.	7750.	0.	0.	7750.	2173.2	3394.	11144.
49	15561.	6668.	0.	0.	6668.	2176.6	3325.	9993.
50	10522.	6845.	0.	0.	6845.	2178.0	2249.	9094.
51	9086.	7021.	0.	0.	7021.	2178.8	1943.	8964.
52	10876.	6920.	0.	0.	6920.	2180.5	2324.	9244.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1953 1	8559.	6690.	0.	0.	6690.	2181.2	2584.	9274.
2	7982.	6689.	0.	0.	6689.	2181.7	2408.	9097.
3	5556.	7170.	0.	0.	7170.	2181.1	1677.	8847.
4	4049.	7639.	0.	0.	7639.	2179.7	1222.	8861.
5	3948.	8083.	0.	0.	8083.	2178.2	1052.	9135.
6	3377.	8591.	0.	0.	8591.	2176.2	880.	9471.
7	2164.	9048.	0.	0.	9048.	2173.6	565.	9613.
8	2652.	9537.	0.	0.	9537.	2170.9	691.	10228.
9	1913.	10025.	0.	0.	10025.	2167.9	516.	10541.
10	1250.	10657.	0.	0.	10657.	2164.3	450.	11107.
11	1250.	10963.	0.	0.	10963.	2160.6	450.	11413.
12	1250.	10587.	0.	0.	10587.	2157.1	450.	11037.
13	1250.	9880.	0.	0.	9880.	2153.8	450.	10330.
14	880.	9522.	0.	0.	9522.	2150.5	306.	9828.
15	820.	9520.	0.	0.	9520.	2146.7	280.	9800.
16	820.	9506.	0.	0.	9506.	2142.8	280.	9786.
17	820.	9522.	0.	0.	9522.	2138.9	280.	9802.
18	722.	9508.	0.	0.	9508.	2134.9	258.	9766.
19	598.	9542.	0.	0.	9542.	2130.9	222.	9764.
20	598.	9542.	0.	0.	9542.	2126.9	222.	9764.
21	598.	9445.	0.	0.	9445.	2122.9	222.	9667.
22	606.	9307.	0.	0.	9307.	2119.0	214.	9521.
23	678.	8729.	0.	0.	8729.	2115.3	142.	8871.
24	678.	8345.	0.	0.	8345.	2111.9	142.	8487.
25	678.	7945.	0.	0.	7945.	2108.6	142.	8087.
26	678.	7745.	0.	0.	7745.	2105.4	142.	7887.
27	486.	7589.	0.	0.	7589.	2102.3	444.	8033.
28	486.	7281.	0.	0.	7281.	2099.1	444.	7725.
29	785.	6985.	0.	0.	6985.	2095.7	719.	7704.
30	1308.	6636.	0.	0.	6636.	2092.9	1192.	7828.
31	10007.	6304.	0.	0.	6304.	2094.9	4122.	10426.
32	13666.	6230.	0.	0.	6230.	2098.8	3148.	9378.
33	12435.	6541.	0.	0.	6541.	2101.7	2865.	9406.
34	21448.	6868.	0.	0.	6868.	2108.2	4938.	11806.
35	16652.	7211.	0.	0.	7211.	2112.5	4091.	11302.
36	27821.	8486.	0.	0.	8486.	2121.2	7293.	15779.
37	21482.	8234.	0.	0.	8234.	2127.1	5632.	13866.
38	17488.	7988.	0.	0.	7988.	2131.4	4583.	12571.
39	20466.	7690.	0.	0.	7690.	2137.1	5363.	13053.
40	17377.	7273.	0.	0.	7273.	2141.7	2852.	10125.
41	15695.	7145.	0.	0.	7145.	2145.5	2576.	9721.
42	17070.	7048.	0.	0.	7048.	2150.0	2801.	9849.
43	17745.	7006.	0.	0.	7006.	2154.1	2912.	9918.
44	20931.	7267.	0.	0.	7267.	2159.3	4712.	11979.
45	17859.	7240.	0.	0.	7240.	2163.3	3998.	11238.
46	14312.	7361.	0.	0.	7361.	2166.0	3202.	10563.
47	14731.	7468.	0.	0.	7468.	2168.7	3298.	10766.
48	17519.	6458.	0.	0.	6458.	2172.9	3981.	10439.
49	14058.	6668.	0.	0.	6668.	2175.8	4728.	11396.
50	12806.	6845.	0.	0.	6845.	2178.0	4308.	11153.
51	10679.	7021.	0.	0.	7021.	2179.4	3592.	10613.
52	8137.	6920.	0.	0.	6920.	2179.9	2736.	9656.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	EXCESS RELEASE (CFS)				
1954 1	6126.	6690.	0.	0.	6690.	2179.7	1993.	8683.
2	5080.	6689.	0.	0.	6689.	2179.1	1653.	8342.
3	3728.	7170.	0.	0.	7170.	2177.8	1212.	8382.
4	2971.	7639.	0.	0.	7639.	2176.0	966.	8605.
5	1821.	8083.	0.	0.	8083.	2173.6	580.	8663.
6	1738.	8591.	0.	0.	8591.	2171.0	533.	9124.
7	1608.	9048.	0.	0.	9048.	2168.2	492.	9540.
8	1497.	9537.	0.	0.	9537.	2165.2	460.	9997.
9	1361.	10025.	0.	0.	10025.	2161.9	425.	10450.
10	1174.	10657.	0.	0.	10657.	2158.3	326.	10983.
11	1174.	10963.	0.	0.	10963.	2154.6	326.	11289.
12	1174.	10587.	0.	0.	10587.	2151.0	326.	10913.
13	1174.	9880.	0.	0.	9880.	2147.2	326.	10206.
14	1120.	9522.	0.	0.	9522.	2143.5	209.	9731.
15	1099.	9520.	0.	0.	9520.	2139.7	201.	9721.
16	1099.	9506.	0.	0.	9506.	2135.9	201.	9707.
17	1099.	9522.	0.	0.	9522.	2132.1	201.	9723.
18	982.	9508.	0.	0.	9508.	2128.3	189.	9697.
19	794.	9542.	0.	0.	9542.	2124.3	206.	9748.
20	794.	9542.	0.	0.	9542.	2120.4	206.	9748.
21	794.	9445.	0.	0.	9445.	2116.5	206.	9651.
22	716.	9307.	0.	0.	9307.	2112.7	190.	9497.
23	630.	8729.	0.	0.	8729.	2109.0	150.	8879.
24	630.	8345.	0.	0.	8345.	2105.5	150.	8495.
25	630.	7945.	0.	0.	7945.	2102.2	150.	8095.
26	630.	7745.	0.	0.	7745.	2098.9	150.	7895.
27	506.	7589.	0.	0.	7589.	2095.1	364.	7953.
28	506.	7281.	0.	0.	7281.	2091.5	364.	7645.
29	870.	6985.	0.	0.	6985.	2088.2	626.	7611.
30	930.	6636.	0.	0.	6636.	2085.2	670.	7306.
31	4308.	6304.	0.	0.	6304.	2084.1	2435.	8739.
32	8521.	6230.	0.	0.	6230.	2085.4	3765.	9995.
33	13802.	6541.	0.	0.	6541.	2089.2	6098.	12639.
34	15823.	6868.	0.	0.	6868.	2094.0	6991.	13859.
35	14807.	7211.	0.	0.	7211.	2098.0	6764.	13975.
36	19799.	7072.	0.	0.	7072.	2104.1	5658.	12730.
37	19022.	6862.	0.	0.	6862.	2109.5	5435.	12297.
38	18245.	6657.	0.	0.	6657.	2114.7	5212.	11869.
39	22178.	6408.	0.	0.	6408.	2121.8	6336.	12744.
40	19307.	6061.	0.	0.	6061.	2127.8	5179.	11240.
41	15396.	5954.	0.	0.	5954.	2132.0	4133.	10087.
42	14981.	5873.	0.	0.	5873.	2136.1	4019.	9892.
43	14981.	5838.	0.	0.	5838.	2140.2	4019.	9857.
44	24614.	4845.	0.	0.	4845.	2149.1	6529.	11374.
45	20049.	5049.	0.	0.	5049.	2155.0	3951.	9000.
46	20049.	5049.	0.	0.	5049.	2160.7	3951.	9000.
47	20049.	5049.	0.	0.	5049.	2166.4	3951.	9000.
48	18930.	5166.	0.	0.	5166.	2171.6	4070.	9236.
49	11256.	5334.	0.	0.	5334.	2173.8	5030.	10364.
50	9676.	5476.	0.	0.	5476.	2175.4	4324.	9800.
51	9025.	5617.	0.	0.	5617.	2176.7	4032.	9649.
52	5793.	5536.	0.	0.	5536.	2176.8	2590.	8126.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1955 1	4746.	5352.	0.	0.	5352.	2176.6	1754.	7106.
2	4461.	5351.	0.	0.	5351.	2176.3	1648.	6999.
3	3359.	5736.	0.	0.	5736.	2175.4	1241.	6977.
4	3359.	6111.	0.	0.	6111.	2174.3	1241.	7352.
5	2716.	6466.	0.	0.	6466.	2172.9	970.	7436.
6	2156.	6873.	0.	0.	6873.	2171.1	844.	7717.
7	2032.	9048.	0.	0.	9048.	2168.4	797.	9845.
8	1796.	9537.	0.	0.	9537.	2165.5	704.	10241.
9	1756.	10025.	0.	0.	10025.	2162.4	658.	10683.
10	1657.	10657.	0.	0.	10657.	2158.9	543.	11200.
11	1624.	10963.	0.	0.	10963.	2155.4	533.	11496.
12	1431.	10587.	0.	0.	10587.	2151.9	469.	11056.
13	1431.	9880.	0.	0.	9880.	2148.5	469.	10349.
14	1546.	9522.	0.	0.	9522.	2144.9	440.	9962.
15	1561.	9520.	0.	0.	9520.	2141.3	439.	9959.
16	1338.	9506.	0.	0.	9506.	2137.6	376.	9882.
17	1249.	9522.	0.	0.	9522.	2133.9	351.	9873.
18	1179.	9508.	0.	0.	9508.	2130.2	335.	9843.
19	1052.	9542.	0.	0.	9542.	2126.4	348.	9890.
20	1052.	9542.	0.	0.	9542.	2122.5	348.	9890.
21	1052.	9445.	0.	0.	9445.	2118.8	348.	9793.
22	949.	9307.	0.	0.	9307.	2115.0	322.	9629.
23	879.	8729.	0.	0.	8729.	2111.5	221.	8950.
24	879.	8345.	0.	0.	8345.	2108.1	221.	8566.
25	879.	7945.	0.	0.	7945.	2104.9	221.	8166.
26	879.	7745.	0.	0.	7745.	2101.8	221.	7966.
27	828.	7589.	0.	0.	7589.	2098.6	372.	7961.
28	828.	7281.	0.	0.	7281.	2095.1	372.	7653.
29	828.	6985.	0.	0.	6985.	2091.9	372.	7357.
30	828.	6636.	0.	0.	6636.	2088.8	372.	7008.
31	2519.	6304.	0.	0.	6304.	2086.8	1038.	7342.
32	3321.	6230.	0.	0.	6230.	2085.2	1179.	7409.
33	3882.	6541.	0.	0.	6541.	2083.8	1375.	7916.
34	11626.	6868.	0.	0.	6868.	2086.3	4117.	10985.
35	12771.	7211.	0.	0.	7211.	2089.3	4658.	11869.
36	17007.	7072.	0.	0.	7072.	2094.6	3322.	10394.
37	27727.	6862.	0.	0.	6862.	2104.8	5416.	12278.
38	30081.	6657.	0.	0.	6657.	2115.3	5876.	12533.
39	28168.	6408.	0.	0.	6408.	2125.1	5503.	11911.
40	29660.	6061.	0.	0.	6061.	2135.7	4526.	10587.
41	24776.	5954.	0.	0.	5954.	2144.2	3781.	9735.
42	19124.	7048.	0.	0.	7048.	2149.6	2919.	9967.
43	22869.	7006.	0.	0.	7006.	2155.7	3488.	10494.
44	20805.	7267.	0.	0.	7267.	2160.9	1809.	9076.
45	19270.	7370.	0.	0.	7370.	2165.4	1630.	9000.
46	19771.	7361.	0.	0.	7361.	2170.1	1672.	9033.
47	24039.	7468.	0.	0.	7468.	2176.4	2032.	9500.
48	34146.	7918.	0.	3571.	11489.	2185.0	3097.	14586.
49	17921.	8126.	0.	9795.	17921.	2185.0	1750.	19671.
50	13691.	8303.	0.	5388.	13691.	2185.0	1338.	15029.
51	11128.	8484.	0.	2644.	11128.	2185.0	1086.	12214.
52	8763.	8618.	0.	145.	8763.	2185.0	856.	9619.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW CONE VALVE ENVIRON. RELEASE	EXCESS RELEASE	TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1956 1	6059.	8028.	0.	0.	8028.	2184.3	1177.	9205.
2	4461.	8027.	0.	0.	8027.	2182.9	866.	8893.
3	3633.	8604.	0.	0.	8604.	2181.0	706.	9310.
4	3129.	7639.	0.	0.	7639.	2179.3	608.	8247.
5	2062.	8083.	0.	0.	8083.	2177.0	424.	8507.
6	1721.	8591.	0.	0.	8591.	2174.4	379.	8970.
7	1581.	9048.	0.	0.	9048.	2171.6	348.	9396.
8	1393.	9537.	0.	0.	9537.	2168.5	307.	9844.
9	1306.	10025.	0.	0.	10025.	2165.2	280.	10305.
10	1027.	10657.	0.	0.	10657.	2161.5	273.	10930.
11	1027.	10963.	0.	0.	10963.	2157.7	273.	11236.
12	1027.	10587.	0.	0.	10587.	2154.1	273.	10860.
13	1027.	9880.	0.	0.	9880.	2150.7	273.	10153.
14	848.	9522.	0.	0.	9522.	2147.0	178.	9700.
15	810.	9520.	0.	0.	9520.	2143.0	170.	9690.
16	810.	9506.	0.	0.	9506.	2139.1	170.	9676.
17	810.	9522.	0.	0.	9522.	2135.2	170.	9692.
18	809.	9508.	0.	0.	9508.	2131.3	167.	9675.
19	750.	9542.	0.	0.	9542.	2127.4	220.	9762.
20	750.	9542.	0.	0.	9542.	2123.4	220.	9762.
21	750.	9445.	0.	0.	9445.	2119.5	220.	9665.
22	739.	9307.	0.	0.	9307.	2115.6	218.	9525.
23	689.	8729.	0.	0.	8729.	2112.0	251.	8980.
24	689.	8345.	0.	0.	8345.	2108.6	251.	8596.
25	689.	7945.	0.	0.	7945.	2105.3	251.	8196.
26	689.	7745.	0.	0.	7745.	2102.1	251.	7996.
27	641.	7589.	0.	0.	7589.	2098.8	309.	7898.
28	641.	7281.	0.	0.	7281.	2095.3	309.	7590.
29	641.	6985.	0.	0.	6985.	2091.9	309.	7294.
30	641.	6636.	0.	0.	6636.	2088.7	309.	6945.
31	1798.	6304.	0.	0.	6304.	2086.3	716.	7020.
32	8483.	6230.	0.	0.	6230.	2087.5	2917.	9147.
33	12106.	6541.	0.	0.	6541.	2090.5	4165.	10706.
34	24085.	6868.	0.	0.	6868.	2099.7	8286.	15154.
35	15966.	7211.	0.	0.	7211.	2103.6	5720.	12931.
36	27294.	7072.	0.	0.	7072.	2112.7	6163.	13235.
37	35522.	6862.	0.	0.	6862.	2125.6	8021.	14883.
38	26081.	7988.	0.	0.	7988.	2133.8	5890.	13878.
39	22994.	7690.	0.	0.	7690.	2140.7	5192.	12882.
40	24335.	7547.	0.	0.	7547.	2148.2	4722.	12269.
41	26536.	7433.	0.	0.	7433.	2155.7	5150.	12583.
42	26799.	7324.	0.	0.	7324.	2163.1	5201.	12525.
43	26153.	7263.	0.	0.	7263.	2170.3	5076.	12339.
44	24666.	7474.	0.	0.	7474.	2176.8	6763.	14237.
45	22447.	7425.	0.	0.	7425.	2182.5	6324.	13749.
46	20285.	7529.	0.	6301.	13830.	2185.0	5715.	19545.
47	16173.	7647.	0.	8526.	16173.	2185.0	4556.	20729.
48	13792.	7881.	0.	5911.	13792.	2185.0	3922.	17714.
49	11446.	8110.	0.	3336.	11446.	2185.0	4554.	16000.
50	16046.	8309.	0.	7737.	16046.	2185.0	6383.	22429.
51	15637.	8496.	0.	7141.	15637.	2185.0	6220.	21857.
52	10015.	8623.	0.	1392.	10015.	2185.0	3985.	14000.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1957 1	5279.	8028.	0.	0.	8028.	2184.0	1921.	9949.
2	5279.	8027.	0.	0.	8027.	2182.9	1921.	9948.
3	3583.	8604.	0.	0.	8604.	2181.0	1303.	9907.
4	3300.	7639.	0.	0.	7639.	2179.4	1200.	8839.
5	2789.	8083.	0.	0.	8083.	2177.3	968.	9051.
6	2342.	8591.	0.	0.	8591.	2175.0	858.	9449.
7	2247.	9048.	0.	0.	9048.	2172.4	824.	9872.
8	2123.	9537.	0.	0.	9537.	2169.6	777.	10314.
9	2035.	10025.	0.	0.	10025.	2166.5	722.	10747.
10	1908.	10657.	0.	0.	10657.	2163.2	492.	11149.
11	1852.	10963.	0.	0.	10963.	2159.8	477.	11440.
12	1509.	10587.	0.	0.	10587.	2156.3	391.	10978.
13	1509.	9880.	0.	0.	9880.	2153.1	391.	10271.
14	1399.	9522.	0.	0.	9522.	2150.0	330.	9852.
15	1378.	9520.	0.	0.	9520.	2146.4	322.	9842.
16	1378.	9506.	0.	0.	9506.	2142.7	322.	9828.
17	1378.	9522.	0.	0.	9522.	2139.1	322.	9844.
18	1310.	9508.	0.	0.	9508.	2135.4	304.	9812.
19	1193.	9542.	0.	0.	9542.	2131.6	307.	9849.
20	1193.	9542.	0.	0.	9542.	2127.9	307.	9849.
21	1193.	9445.	0.	0.	9445.	2124.2	307.	9752.
22	1079.	9307.	0.	0.	9307.	2120.5	292.	9599.
23	920.	8729.	0.	0.	8729.	2116.9	280.	9009.
24	920.	8345.	0.	0.	8345.	2113.6	280.	8625.
25	920.	7945.	0.	0.	7945.	2110.4	280.	8225.
26	920.	7745.	0.	0.	7745.	2107.4	280.	8025.
27	837.	7589.	0.	0.	7589.	2104.3	363.	7952.
28	837.	7281.	0.	0.	7281.	2101.4	363.	7644.
29	837.	6985.	0.	0.	6985.	2098.4	363.	7348.
30	837.	6636.	0.	0.	6636.	2095.3	363.	6999.
31	2452.	6304.	0.	0.	6304.	2093.3	962.	7266.
32	4269.	6230.	0.	0.	6230.	2092.2	1488.	7718.
33	6969.	6541.	0.	0.	6541.	2092.5	2431.	8972.
34	15611.	6868.	0.	0.	6868.	2097.1	5446.	12314.
35	23050.	7211.	0.	0.	7211.	2104.7	7864.	15075.
36	31747.	7072.	0.	0.	7072.	2115.8	5696.	12768.
37	28053.	6862.	0.	0.	6862.	2125.3	5033.	11895.
38	24892.	7988.	0.	0.	7988.	2132.9	4465.	12453.
39	17043.	7690.	0.	0.	7690.	2137.1	3057.	10747.
40	19864.	7273.	0.	0.	7273.	2142.8	3350.	10623.
41	18252.	7145.	0.	0.	7145.	2147.8	3077.	10222.
42	20463.	7048.	0.	0.	7048.	2153.2	3451.	10499.
43	22198.	7006.	0.	0.	7006.	2159.0	3745.	10751.
44	17659.	7267.	0.	0.	7267.	2163.0	3298.	10565.
45	17664.	7240.	0.	0.	7240.	2166.9	3279.	10519.
46	17568.	7361.	0.	0.	7361.	2170.8	3261.	10622.
47	16111.	7468.	0.	0.	7468.	2174.1	2989.	10457.
48	17804.	7750.	0.	0.	7750.	2177.9	3339.	11089.
49	14143.	8002.	0.	0.	8002.	2180.2	4771.	12773.
50	15435.	8214.	0.	0.	8214.	2183.0	5208.	13422.
51	15008.	8490.	0.	1173.	9664.	2185.0	5063.	14727.
52	14415.	8635.	0.	5780.	14415.	2185.0	4860.	19275.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
			ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1958 1	7628.	8028.	0.	0.	8028.	2184.8	2705.	10733.
2	6544.	8027.	0.	0.	8027.	2184.3	2320.	10347.
3	5337.	8604.	0.	0.	8604.	2183.0	1893.	10497.
4	5503.	9167.	0.	0.	9167.	2181.7	1951.	11118.
5	3997.	9700.	0.	0.	9700.	2179.5	1432.	11132.
6	3287.	10309.	0.	0.	10309.	2176.8	1234.	11543.
7	2815.	10858.	0.	0.	10858.	2173.8	1055.	11913.
8	2314.	11444.	0.	0.	11444.	2170.3	867.	12311.
9	2637.	12030.	0.	0.	12030.	2166.7	949.	12979.
10	2991.	12788.	0.	0.	12788.	2163.0	1323.	14111.
11	2551.	13156.	0.	0.	13156.	2159.0	1129.	14285.
12	1902.	12704.	0.	0.	12704.	2154.9	842.	13546.
13	1544.	11856.	0.	0.	11856.	2151.0	685.	12541.
14	1839.	11426.	0.	0.	11426.	2146.8	590.	12016.
15	1614.	11424.	0.	0.	11424.	2142.4	515.	11939.
16	1408.	11407.	0.	0.	11407.	2137.9	449.	11856.
17	1332.	11426.	0.	0.	11426.	2133.4	425.	11851.
18	1101.	11410.	0.	0.	11410.	2128.7	356.	11766.
19	1152.	11450.	0.	0.	11450.	2124.1	291.	11741.
20	1038.	11450.	0.	0.	11450.	2119.4	262.	11712.
21	959.	11334.	0.	0.	11334.	2114.8	241.	11575.
22	959.	11168.	0.	0.	11168.	2110.2	241.	11409.
23	1024.	10475.	0.	0.	10475.	2105.9	176.	10651.
24	1000.	8345.	0.	0.	8345.	2102.6	171.	8516.
25	939.	7945.	0.	0.	7945.	2099.4	161.	8106.
26	939.	7745.	0.	0.	7745.	2095.7	161.	7906.
27	950.	7589.	0.	0.	7589.	2092.2	250.	7839.
28	1063.	7281.	0.	0.	7281.	2088.9	280.	7561.
29	1153.	6985.	0.	0.	6985.	2085.8	304.	7289.
30	1398.	6636.	0.	0.	6636.	2083.0	368.	7004.
31	3001.	6304.	0.	0.	6304.	2081.2	989.	7293.
32	5917.	6230.	0.	0.	6230.	2081.1	1966.	8196.
33	8267.	6541.	0.	0.	6541.	2082.0	2747.	9288.
34	15742.	6868.	0.	0.	6868.	2086.7	5229.	12097.
35	16842.	7211.	0.	0.	7211.	2091.8	5215.	12426.
36	24642.	7072.	0.	0.	7072.	2101.0	3358.	10430.
37	24642.	6862.	0.	0.	6862.	2109.0	3358.	10220.
38	21247.	6657.	0.	0.	6657.	2115.6	2896.	9553.
39	19363.	6408.	0.	0.	6408.	2121.4	2637.	9045.
40	18442.	6061.	0.	0.	6061.	2127.0	3558.	9619.
41	18442.	5954.	0.	0.	5954.	2132.6	3558.	9512.
42	18442.	5873.	0.	0.	5873.	2138.2	3558.	9431.
43	18082.	5838.	0.	0.	5838.	2143.7	3489.	9327.
44	32829.	6056.	0.	0.	6056.	2154.9	5857.	11913.
45	23946.	6033.	0.	0.	6033.	2161.7	3583.	9616.
46	17783.	6340.	0.	0.	6340.	2166.0	2660.	9000.
47	14415.	6844.	0.	0.	6844.	2168.9	2156.	9000.
48	9969.	7412.	0.	0.	7412.	2169.9	1588.	9000.
49	6605.	6668.	0.	0.	6668.	2169.9	1895.	8563.
50	6605.	6845.	0.	0.	6845.	2169.8	1895.	8740.
51	5128.	7021.	0.	0.	7021.	2169.0	1472.	8493.
52	5129.	5536.	0.	0.	5536.	2168.9	1471.	7007.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1959 1	4604.	5352.	0.	0.	5352.	2168.6	1387.	6739.
2	4050.	5351.	0.	0.	5351.	2168.1	1221.	6572.
3	3875.	5736.	0.	0.	5736.	2167.4	1168.	6904.
4	2689.	6111.	0.	0.	6111.	2166.1	811.	6922.
5	2392.	6466.	0.	0.	6466.	2164.5	594.	7060.
6	2068.	6873.	0.	0.	6873.	2162.7	532.	7405.
7	1760.	7238.	0.	0.	7238.	2160.6	454.	7692.
8	1352.	7630.	0.	0.	7630.	2158.2	348.	7978.
9	1215.	8020.	0.	0.	8020.	2155.7	314.	8334.
10	797.	8526.	0.	0.	8526.	2152.7	303.	8829.
11	879.	8770.	0.	0.	8770.	2149.7	335.	9105.
12	1375.	8470.	0.	0.	8470.	2146.5	525.	8995.
13	1375.	7904.	0.	0.	7904.	2143.5	525.	8429.
14	1150.	7618.	0.	0.	7618.	2140.6	407.	8025.
15	1109.	7616.	0.	0.	7616.	2137.7	391.	8007.
16	1056.	7605.	0.	0.	7605.	2134.8	373.	7978.
17	1035.	7618.	0.	0.	7618.	2131.8	365.	7983.
18	1051.	7606.	0.	0.	7606.	2128.9	349.	7955.
19	1027.	9542.	0.	0.	9542.	2125.0	373.	9915.
20	984.	9542.	0.	0.	9542.	2121.2	359.	9901.
21	879.	9445.	0.	0.	9445.	2117.3	321.	9766.
22	797.	9307.	0.	0.	9307.	2113.5	309.	9616.
23	683.	8729.	0.	0.	8729.	2109.9	297.	9026.
24	683.	8345.	0.	0.	8345.	2106.4	297.	8642.
25	683.	7945.	0.	0.	7945.	2103.2	297.	8242.
26	683.	7745.	0.	0.	7745.	2100.0	297.	8042.
27	666.	7589.	0.	0.	7589.	2096.3	334.	7923.
28	666.	7281.	0.	0.	7281.	2092.8	334.	7615.
29	952.	6985.	0.	0.	6985.	2089.6	477.	7462.
30	999.	6636.	0.	0.	6636.	2086.6	501.	7137.
31	1801.	6304.	0.	0.	6304.	2084.2	1056.	7360.
32	2951.	6230.	0.	0.	6230.	2082.4	1592.	7822.
33	12604.	6541.	0.	0.	6541.	2085.7	6796.	13337.
34	17856.	6868.	0.	0.	6868.	2091.5	9630.	16498.
35	14298.	7211.	0.	0.	7211.	2095.3	8031.	15242.
36	20496.	7072.	0.	0.	7072.	2102.1	5533.	12605.
37	15311.	6862.	0.	0.	6862.	2105.9	4132.	10994.
38	18247.	6657.	0.	0.	6657.	2111.1	4924.	11581.
39	20418.	6408.	0.	0.	6408.	2117.4	5511.	11919.
40	21688.	6061.	0.	0.	6061.	2124.4	4712.	10773.
41	20819.	5954.	0.	0.	5954.	2131.1	4524.	10478.
42	22556.	5873.	0.	0.	5873.	2138.6	4901.	10774.
43	17816.	5838.	0.	0.	5838.	2144.0	3870.	9708.
44	18373.	6056.	0.	0.	6056.	2149.5	5513.	11569.
45	14392.	6033.	0.	0.	6033.	2152.8	4237.	10270.
46	18474.	6134.	0.	0.	6134.	2157.4	5440.	11574.
47	34121.	6223.	0.	0.	6223.	2168.0	10050.	16273.
48	33290.	6458.	0.	0.	6458.	2178.2	9881.	16339.
49	20953.	6668.	0.	0.	6668.	2183.7	7747.	14415.
50	10824.	7308.	0.	0.	7308.	2185.0	4005.	11313.
51	8131.	8425.	0.	0.	8425.	2184.9	3006.	11431.
52	7669.	8304.	0.	0.	8304.	2184.6	2837.	11141.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1960 1	8534.	8028.	0.	0.	8028.	2184.8	2180.	10208.
2	5896.	8027.	0.	0.	8027.	2184.0	1504.	9531.
3	3243.	8604.	0.	0.	8604.	2182.0	828.	9432.
4	4051.	7639.	0.	0.	7639.	2180.6	1035.	8674.
5	2692.	8083.	0.	0.	8083.	2178.5	794.	8877.
6	2292.	8591.	0.	0.	8591.	2176.2	708.	9299.
7	2194.	9048.	0.	0.	9048.	2173.6	677.	9725.
8	2064.	9537.	0.	0.	9537.	2170.7	636.	10173.
9	1962.	10025.	0.	0.	10025.	2167.6	595.	10620.
10	1656.	10657.	0.	0.	10657.	2164.2	544.	11201.
11	1656.	10963.	0.	0.	10963.	2160.7	544.	11507.
12	1656.	10587.	0.	0.	10587.	2157.3	544.	11131.
13	1656.	9880.	0.	0.	9880.	2154.2	544.	10424.
14	1541.	9522.	0.	0.	9522.	2151.1	488.	10010.
15	1523.	9520.	0.	0.	9520.	2147.8	477.	9997.
16	1360.	9506.	0.	0.	9506.	2144.1	426.	9932.
17	1295.	9522.	0.	0.	9522.	2140.4	405.	9927.
18	1227.	9508.	0.	0.	9508.	2136.7	387.	9895.
19	1175.	9542.	0.	0.	9542.	2132.9	325.	9867.
20	1152.	9542.	0.	0.	9542.	2129.1	319.	9861.
21	1097.	9445.	0.	0.	9445.	2125.4	303.	9748.
22	1062.	9307.	0.	0.	9307.	2121.7	295.	9602.
23	1041.	8729.	0.	0.	8729.	2118.2	259.	8988.
24	996.	8345.	0.	0.	8345.	2114.9	247.	8592.
25	882.	7945.	0.	0.	7945.	2111.7	218.	8163.
26	882.	7745.	0.	0.	7745.	2108.6	218.	7963.
27	694.	7589.	0.	0.	7589.	2105.5	406.	7995.
28	694.	7281.	0.	0.	7281.	2102.6	406.	7687.
29	910.	6985.	0.	0.	6985.	2099.8	533.	7518.
30	945.	6636.	0.	0.	6636.	2096.8	555.	7191.
31	4703.	6304.	0.	0.	6304.	2095.9	1154.	7458.
32	6668.	6230.	0.	0.	6230.	2096.2	932.	7162.
33	12886.	6541.	0.	0.	6541.	2099.6	1800.	8341.
34	20055.	6868.	0.	0.	6868.	2105.6	2802.	9670.
35	20716.	7211.	0.	0.	7211.	2111.6	3570.	10781.
36	11838.	8486.	0.	0.	8486.	2113.1	2519.	11005.
37	12275.	8234.	0.	0.	8234.	2115.0	2611.	10845.
38	12710.	6657.	0.	0.	6657.	2117.7	2704.	9361.
39	13971.	6408.	0.	0.	6408.	2121.1	2972.	9380.
40	19936.	6061.	0.	0.	6061.	2127.3	2993.	9054.
41	14780.	6780.	0.	0.	6780.	2130.9	2220.	9000.
42	17003.	6446.	0.	0.	6446.	2135.7	2554.	9000.
43	23312.	5838.	0.	0.	5838.	2143.5	3502.	9340.
44	26487.	6056.	0.	0.	6056.	2152.3	5556.	11612.
45	20467.	6033.	0.	0.	6033.	2157.8	4962.	10995.
46	18086.	6134.	0.	0.	6134.	2162.3	4385.	10519.
47	17477.	6223.	0.	0.	6223.	2166.6	4237.	10460.
48	16811.	6458.	0.	0.	6458.	2170.5	4046.	10504.
49	14281.	6668.	0.	0.	6668.	2173.4	4033.	10701.
50	22570.	6845.	0.	0.	6845.	2179.4	6373.	13218.
51	15996.	7021.	0.	0.	7021.	2182.8	4518.	11539.
52	11980.	6920.	0.	0.	6920.	2185.0	3382.	10302.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1961 1	9778.	9128.	0.	629.	9756.	2185.0	2751.	12507.
2	7102.	8027.	0.	0.	8027.	2184.6	1998.	10025.
3	5050.	8604.	0.	0.	8604.	2183.3	1421.	10025.
4	3678.	9167.	0.	0.	9167.	2181.2	1036.	10203.
5	2753.	8083.	0.	0.	8083.	2179.2	833.	8916.
6	2516.	8591.	0.	0.	8591.	2176.9	784.	9375.
7	2319.	9048.	0.	0.	9048.	2174.3	724.	9772.
8	2058.	9537.	0.	0.	9537.	2171.5	642.	10179.
9	2118.	10025.	0.	0.	10025.	2168.5	639.	10664.
10	2126.	12788.	0.	0.	12788.	2164.4	774.	13562.
11	2085.	13156.	0.	0.	13156.	2160.2	758.	13914.
12	1833.	12704.	0.	0.	12704.	2156.1	667.	13371.
13	1833.	11856.	0.	0.	11856.	2152.3	667.	12523.
14	1776.	11426.	0.	0.	11426.	2148.4	638.	12064.
15	1773.	11424.	0.	0.	11424.	2144.0	627.	12051.
16	1825.	11407.	0.	0.	11407.	2139.7	646.	12053.
17	1846.	11426.	0.	0.	11426.	2135.4	654.	12080.
18	1601.	11410.	0.	0.	11410.	2131.0	599.	12009.
19	1317.	11450.	0.	0.	11450.	2126.4	483.	11933.
20	1297.	11450.	0.	0.	11450.	2121.9	474.	11924.
21	1246.	11334.	0.	0.	11334.	2117.3	454.	11788.
22	1181.	11168.	0.	0.	11168.	2112.8	433.	11601.
23	1097.	10475.	0.	0.	10475.	2108.6	403.	10878.
24	1222.	10014.	0.	0.	10014.	2104.7	449.	10463.
25	1535.	9534.	0.	0.	9534.	2101.1	565.	10099.
26	1535.	9294.	0.	0.	9294.	2097.1	565.	9859.
27	1617.	9107.	0.	0.	9107.	2093.2	883.	9990.
28	1617.	8737.	0.	0.	8737.	2089.4	883.	9620.
29	1783.	8382.	0.	0.	8382.	2085.8	974.	9356.
30	1811.	7963.	0.	0.	7963.	2082.6	989.	8952.
31	5580.	7565.	0.	0.	7565.	2081.5	1649.	9214.
32	10306.	6230.	0.	0.	6230.	2083.7	2408.	8638.
33	17834.	6541.	0.	0.	6541.	2089.7	4166.	10707.
34	16989.	6868.	0.	0.	6868.	2095.1	3968.	10836.
35	15795.	7211.	0.	0.	7211.	2099.7	4019.	11230.
36	14578.	7072.	0.	0.	7072.	2103.1	4393.	11465.
37	23810.	6862.	0.	0.	6862.	2110.7	7176.	14038.
38	29749.	6657.	0.	0.	6657.	2121.1	8965.	15622.
39	24996.	6408.	0.	0.	6408.	2129.5	7533.	13941.
40	18341.	6061.	0.	0.	6061.	2135.0	4659.	10720.
41	19253.	5954.	0.	0.	5954.	2141.0	4890.	10844.
42	19937.	5873.	0.	0.	5873.	2147.3	5063.	10936.
43	20655.	5838.	0.	0.	5838.	2153.3	5245.	11083.
44	22581.	6056.	0.	0.	6056.	2159.6	3062.	9118.
45	23083.	6083.	0.	0.	6083.	2166.1	2917.	9000.
46	19710.	6510.	0.	0.	6510.	2171.1	2490.	9000.
47	18708.	6637.	0.	0.	6637.	2175.7	2363.	9000.
48	13842.	7185.	0.	0.	7185.	2178.2	1815.	9000.
49	9309.	6668.	0.	0.	6668.	2179.2	3120.	9788.
50	10560.	6845.	0.	0.	6845.	2180.6	3540.	10385.
51	10059.	7021.	0.	0.	7021.	2181.8	3370.	10391.
52	10131.	6920.	0.	0.	6920.	2183.2	3394.	10314.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1962 1	8304.	6690.	0.	0.	6690.	2183.8	2125.	8815.
2	3663.	6689.	0.	0.	6689.	2182.6	937.	7626.
3	3663.	7170.	0.	0.	7170.	2181.3	937.	8107.
4	3663.	7639.	0.	0.	7639.	2179.8	937.	8576.
5	2910.	8083.	0.	0.	8083.	2177.8	604.	8687.
6	2187.	8591.	0.	0.	8591.	2175.4	513.	9104.
7	2187.	9048.	0.	0.	9048.	2172.8	513.	9561.
8	2187.	9537.	0.	0.	9537.	2170.0	513.	10050.
9	2067.	10025.	0.	0.	10025.	2167.0	462.	10487.
10	1742.	10657.	0.	0.	10657.	2163.6	358.	11015.
11	1742.	10963.	0.	0.	10963.	2160.1	358.	11321.
12	1742.	10587.	0.	0.	10587.	2156.7	358.	10945.
13	1742.	9880.	0.	0.	9880.	2153.6	358.	10238.
14	1645.	9522.	0.	0.	9522.	2150.6	284.	9806.
15	1626.	9520.	0.	0.	9520.	2147.2	274.	9794.
16	1626.	9506.	0.	0.	9506.	2143.7	274.	9780.
17	1626.	9522.	0.	0.	9522.	2140.1	274.	9796.
18	1462.	9508.	0.	0.	9508.	2136.5	267.	9775.
19	1237.	9542.	0.	0.	9542.	2132.7	263.	9805.
20	1237.	9542.	0.	0.	9542.	2129.0	263.	9805.
21	1237.	9445.	0.	0.	9445.	2125.3	263.	9708.
22	1207.	9307.	0.	0.	9307.	2121.7	250.	9557.
23	1174.	8729.	0.	0.	8729.	2118.3	226.	8955.
24	1174.	8345.	0.	0.	8345.	2115.1	226.	8571.
25	1174.	7945.	0.	0.	7945.	2112.0	226.	8171.
26	1174.	7745.	0.	0.	7745.	2109.1	226.	7971.
27	1335.	7589.	0.	0.	7589.	2106.2	365.	7954.
28	1335.	7281.	0.	0.	7281.	2103.6	365.	7646.
29	1335.	6985.	0.	0.	6985.	2101.0	365.	7350.
30	1335.	6636.	0.	0.	6636.	2098.4	365.	7001.
31	3165.	6304.	0.	0.	6304.	2096.7	535.	6839.
32	3896.	6230.	0.	0.	6230.	2095.5	604.	6834.
33	10571.	6541.	0.	0.	6541.	2097.6	1643.	8184.
34	15580.	6868.	0.	0.	6868.	2101.9	2420.	9288.
35	25042.	7211.	0.	0.	7211.	2109.9	3429.	10640.
36	25502.	7072.	0.	0.	7072.	2118.2	4784.	11856.
37	49464.	8234.	0.	0.	8234.	2136.8	9279.	17513.
38	42296.	7996.	0.	0.	7996.	2151.8	7933.	15929.
39	29941.	7713.	0.	0.	7713.	2160.3	5616.	13329.
40	24659.	7355.	0.	0.	7355.	2166.9	2527.	9882.
41	24076.	7258.	0.	0.	7258.	2173.3	2467.	9725.
42	20979.	7169.	0.	0.	7169.	2178.5	2150.	9319.
43	24659.	7125.	0.	426.	7551.	2185.0	2527.	10078.
44	22051.	7403.	0.	14648.	22051.	2185.0	4006.	26057.
45	19487.	7407.	0.	12080.	19487.	2185.0	3513.	23000.
46	19487.	7531.	0.	11956.	19487.	2185.0	3513.	23000.
47	19487.	7655.	0.	11832.	19487.	2185.0	3513.	23000.
48	19844.	7896.	0.	11948.	19844.	2185.0	3585.	23429.
49	18961.	8129.	0.	10832.	18961.	2185.0	4610.	23571.
50	11972.	8299.	0.	3673.	11972.	2185.0	2914.	14886.
51	9699.	8480.	0.	1219.	9699.	2185.0	2358.	12057.
52	9763.	8622.	0.	1141.	9763.	2185.0	2374.	12137.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1963 1	7677.	8028.	0.	0.	8028.	2184.9	1473.	9501.
2	5846.	8027.	0.	0.	8027.	2184.0	1121.	9148.
3	5094.	8604.	0.	0.	8604.	2182.7	977.	9581.
4	4603.	9167.	0.	0.	9167.	2181.0	883.	10050.
5	3273.	8083.	0.	0.	8083.	2179.1	427.	8510.
6	2427.	8591.	0.	0.	8591.	2176.8	373.	8964.
7	2427.	9048.	0.	0.	9048.	2174.3	373.	9421.
8	2427.	9537.	0.	0.	9537.	2171.6	373.	9910.
9	2243.	10025.	0.	0.	10025.	2168.6	328.	10353.
10	1684.	12788.	0.	0.	12788.	2164.4	316.	13104.
11	1684.	13156.	0.	0.	13156.	2160.1	316.	13472.
12	1684.	12704.	0.	0.	12704.	2155.9	316.	13020.
13	1684.	11856.	0.	0.	11856.	2152.0	316.	12172.
14	1346.	11426.	0.	0.	11426.	2147.8	311.	11737.
15	1303.	11424.	0.	0.	11424.	2143.3	297.	11721.
16	1303.	11407.	0.	0.	11407.	2138.7	297.	11704.
17	1303.	11426.	0.	0.	11426.	2134.2	297.	11723.
18	1284.	11410.	0.	0.	11410.	2129.6	273.	11683.
19	1203.	11450.	0.	0.	11450.	2125.0	297.	11747.
20	1203.	11450.	0.	0.	11450.	2120.4	297.	11747.
21	1203.	11334.	0.	0.	11334.	2115.9	297.	11631.
22	1015.	11168.	0.	0.	11168.	2111.3	271.	11439.
23	870.	10475.	0.	0.	10475.	2107.0	130.	10605.
24	870.	10014.	0.	0.	10014.	2102.9	130.	10144.
25	870.	9534.	0.	0.	9534.	2098.8	130.	9664.
26	870.	7745.	0.	0.	7745.	2095.1	130.	7875.
27	680.	7589.	0.	0.	7589.	2091.4	150.	7739.
28	680.	7281.	0.	0.	7281.	2087.9	150.	7431.
29	680.	6985.	0.	0.	6985.	2084.6	150.	7135.
30	680.	6636.	0.	0.	6636.	2081.4	150.	6786.
31	2138.	6304.	0.	0.	6304.	2079.2	528.	6832.
32	2871.	6230.	0.	0.	6230.	2077.4	529.	6759.
33	16185.	6541.	0.	0.	6541.	2082.5	2986.	9527.
34	26173.	6868.	0.	0.	6868.	2092.8	4827.	11695.
35	29395.	7211.	0.	0.	7211.	2103.9	6291.	13502.
36	20039.	7072.	0.	0.	7072.	2109.7	5961.	13033.
37	20039.	6862.	0.	0.	6862.	2115.7	5961.	12823.
38	20039.	6657.	0.	0.	6657.	2121.7	5961.	12618.
39	20039.	6408.	0.	0.	6408.	2127.8	5961.	12369.
40	25591.	6061.	0.	0.	6061.	2136.6	5552.	11613.
41	33081.	7145.	0.	0.	7145.	2148.3	7176.	14321.
42	31343.	7048.	0.	0.	7048.	2157.8	6800.	13848.
43	26765.	7313.	0.	0.	7313.	2165.1	5806.	13119.
44	24772.	7524.	0.	0.	7524.	2171.7	3028.	10552.
45	22882.	7474.	0.	0.	7474.	2177.5	2261.	9735.
46	19853.	7548.	0.	0.	7548.	2182.2	1961.	9509.
47	20996.	7654.	0.	6028.	13682.	2185.0	2075.	15757.
48	17689.	7891.	0.	9798.	17689.	2185.0	1854.	19543.
49	13124.	8114.	0.	5010.	13124.	2185.0	2019.	15143.
50	11736.	8298.	0.	3438.	11736.	2185.0	1807.	13543.
51	9384.	8478.	0.	906.	9384.	2185.0	1445.	10829.
52	8325.	8618.	0.	0.	8618.	2184.9	1282.	9900.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1964 1	7204.	8028.	0.	0.	8028.	2184.6	1693.	9721.
2	6067.	8027.	0.	0.	8027.	2183.8	1424.	9451.
3	4963.	8604.	0.	0.	8604.	2182.4	1166.	9770.
4	3760.	9167.	0.	0.	9167.	2180.4	883.	10050.
5	2277.	8083.	0.	0.	8083.	2178.2	609.	8692.
6	2037.	8591.	0.	0.	8591.	2175.7	563.	9154.
7	1803.	9048.	0.	0.	9048.	2172.9	497.	9545.
8	1489.	9537.	0.	0.	9537.	2169.9	411.	9948.
9	1454.	10025.	0.	0.	10025.	2166.6	389.	10414.
10	1358.	10657.	0.	0.	10657.	2163.1	342.	10999.
11	1311.	10963.	0.	0.	10963.	2159.4	332.	11295.
12	1038.	10587.	0.	0.	10587.	2155.8	262.	10849.
13	1038.	9880.	0.	0.	9880.	2152.4	262.	10142.
14	913.	9522.	0.	0.	9522.	2149.0	216.	9738.
15	888.	9520.	0.	0.	9520.	2145.1	212.	9732.
16	830.	9506.	0.	0.	9506.	2141.2	199.	9705.
17	807.	9522.	0.	0.	9522.	2137.3	193.	9715.
18	816.	9508.	0.	0.	9508.	2133.4	184.	9692.
19	818.	9542.	0.	0.	9542.	2129.5	182.	9724.
20	802.	9542.	0.	0.	9542.	2125.5	178.	9720.
21	760.	9445.	0.	0.	9445.	2121.6	170.	9615.
22	696.	9307.	0.	0.	9307.	2117.8	165.	9472.
23	612.	8729.	0.	0.	8729.	2114.1	158.	8887.
24	588.	8345.	0.	0.	8345.	2110.6	151.	8496.
25	524.	7945.	0.	0.	7945.	2107.3	136.	8081.
26	524.	7745.	0.	0.	7745.	2104.0	136.	7881.
27	588.	7589.	0.	0.	7589.	2100.9	122.	7711.
28	588.	7281.	0.	0.	7281.	2097.5	122.	7403.
29	637.	6985.	0.	0.	6985.	2094.1	133.	7118.
30	646.	6636.	0.	0.	6636.	2090.9	134.	6770.
31	524.	6304.	0.	0.	6304.	2087.8	342.	6646.
32	521.	6230.	0.	0.	6230.	2084.8	522.	6752.
33	699.	6541.	0.	0.	6541.	2081.7	701.	7242.
34	1548.	6868.	0.	0.	6868.	2078.9	1551.	8419.
35	17791.	7211.	0.	0.	7211.	2084.5	11199.	18410.
36	66753.	7072.	0.	0.	7072.	2113.7	8276.	15348.
37	45845.	6862.	0.	0.	6862.	2131.3	5684.	12546.
38	38257.	7988.	0.	0.	7988.	2144.9	4743.	12731.
39	27669.	7785.	0.	0.	7785.	2153.2	3431.	11216.
40	22261.	7428.	0.	0.	7428.	2158.9	3110.	10538.
41	22938.	7336.	0.	0.	7336.	2164.8	3205.	10541.
42	21646.	7246.	0.	0.	7246.	2170.3	3025.	10271.
43	14854.	7216.	0.	0.	7216.	2173.2	2075.	9291.
44	16893.	7460.	0.	0.	7460.	2176.8	2864.	10324.
45	15985.	7438.	0.	0.	7438.	2180.0	2744.	10182.
46	12889.	7537.	0.	0.	7537.	2182.0	2211.	9748.
47	13741.	7641.	0.	0.	7641.	2184.3	2359.	10000.
48	11603.	7874.	0.	2013.	9887.	2185.0	1997.	11884.
49	8901.	8102.	0.	799.	8901.	2185.0	2453.	11354.
50	7255.	8289.	0.	0.	8289.	2184.6	1998.	10287.
51	7294.	8481.	0.	0.	8481.	2184.2	2010.	10491.
52	6247.	8633.	0.	0.	8633.	2183.1	1721.	10354.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1965 1	5814.	8028.	0.	0.	8028.	2182.3	1863.	9891.
2	6506.	6689.	0.	0.	6689.	2182.2	2085.	8774.
3	4258.	7170.	0.	0.	7170.	2181.1	1365.	8535.
4	3387.	7639.	0.	0.	7639.	2179.5	1086.	8725.
5	2593.	8083.	0.	0.	8083.	2177.4	487.	8570.
6	2408.	8591.	0.	0.	8591.	2175.1	428.	9019.
7	2383.	9048.	0.	0.	9048.	2172.5	424.	9472.
8	2656.	9537.	0.	0.	9537.	2169.9	473.	10010.
9	1708.	10025.	0.	0.	10025.	2166.7	325.	10350.
10	1175.	10657.	0.	0.	10657.	2163.1	195.	10852.
11	1047.	10963.	0.	0.	10963.	2159.4	174.	11137.
12	952.	10587.	0.	0.	10587.	2155.7	158.	10745.
13	952.	9880.	0.	0.	9880.	2152.3	158.	10038.
14	880.	9522.	0.	0.	9522.	2148.9	101.	9623.
15	866.	9520.	0.	0.	9520.	2145.0	94.	9614.
16	866.	9506.	0.	0.	9506.	2141.1	94.	9600.
17	866.	9522.	0.	0.	9522.	2137.2	94.	9616.
18	821.	9508.	0.	0.	9508.	2133.3	96.	9604.
19	764.	9542.	0.	0.	9542.	2129.3	96.	9638.
20	764.	9542.	0.	0.	9542.	2125.4	96.	9638.
21	764.	9445.	0.	0.	9445.	2121.5	96.	9541.
22	785.	9307.	0.	0.	9307.	2117.7	92.	9399.
23	809.	8729.	0.	0.	8729.	2114.1	91.	8820.
24	809.	8345.	0.	0.	8345.	2110.7	91.	8436.
25	809.	7945.	0.	0.	7945.	2107.5	91.	8036.
26	809.	7745.	0.	0.	7745.	2104.4	91.	7836.
27	1050.	7589.	0.	0.	7589.	2101.4	130.	7719.
28	1050.	7281.	0.	0.	7281.	2098.4	130.	7411.
29	1324.	6985.	0.	0.	6985.	2095.4	165.	7150.
30	1370.	6636.	0.	0.	6636.	2092.6	170.	6806.
31	1702.	6304.	0.	0.	6304.	2090.1	309.	6613.
32	4582.	6230.	0.	0.	6230.	2089.2	804.	7034.
33	7973.	6541.	0.	0.	6541.	2090.0	1398.	7939.
34	14365.	6868.	0.	0.	6868.	2094.0	2521.	9389.
35	28598.	7211.	0.	0.	7211.	2104.5	5045.	12256.
36	18020.	7072.	0.	0.	7072.	2109.5	3951.	11023.
37	19249.	6862.	0.	0.	6862.	2115.0	4222.	11084.
38	18396.	6657.	0.	0.	6657.	2120.3	4033.	10690.
39	27076.	6408.	0.	0.	6408.	2129.6	5938.	12346.
40	25264.	6061.	0.	0.	6061.	2138.3	5093.	11154.
41	25478.	7145.	0.	0.	7145.	2146.5	5136.	12281.
42	23730.	7048.	0.	0.	7048.	2153.4	4784.	11832.
43	20581.	7006.	0.	0.	7006.	2158.5	4148.	11154.
44	18313.	7267.	0.	0.	7267.	2162.7	3916.	11183.
45	16343.	7240.	0.	0.	7240.	2166.2	3328.	10568.
46	25247.	7361.	0.	0.	7361.	2173.0	5139.	12500.
47	16925.	7468.	0.	0.	7468.	2176.6	3446.	10914.
48	9394.	7750.	0.	0.	7750.	2177.2	1949.	9699.
49	14093.	8002.	0.	0.	8002.	2179.5	2756.	10758.
50	17314.	8214.	0.	0.	8214.	2183.0	3386.	11600.
51	15844.	8493.	0.	2013.	10506.	2185.0	3099.	13605.
52	18328.	8646.	0.	9682.	18328.	2185.0	3585.	21913.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1966 1	10948.	9132.	0.	1816.	10948.	2185.0	4138.	15086.
2	6087.	8027.	0.	0.	8027.	2184.3	2300.	10327.
3	2852.	8604.	0.	0.	8604.	2182.1	1077.	9681.
4	2359.	9167.	0.	0.	9167.	2179.5	891.	10058.
5	2043.	8083.	0.	0.	8083.	2177.2	721.	8804.
6	1676.	8591.	0.	0.	8591.	2174.6	588.	9179.
7	1481.	9048.	0.	0.	9048.	2171.7	519.	9567.
8	1412.	9537.	0.	0.	9537.	2168.6	495.	10032.
9	1361.	10025.	0.	0.	10025.	2165.3	468.	10493.
10	1265.	10657.	0.	0.	10657.	2161.8	449.	11106.
11	1223.	10963.	0.	0.	10963.	2158.1	434.	11397.
12	1174.	10587.	0.	0.	10587.	2154.5	416.	11003.
13	1129.	9880.	0.	0.	9880.	2151.2	401.	10281.
14	1075.	9522.	0.	0.	9522.	2147.6	344.	9866.
15	1062.	9520.	0.	0.	9520.	2143.8	338.	9858.
16	1062.	9506.	0.	0.	9506.	2140.0	338.	9844.
17	1062.	9522.	0.	0.	9522.	2136.2	338.	9860.
18	1025.	9508.	0.	0.	9508.	2132.3	332.	9840.
19	980.	9542.	0.	0.	9542.	2128.5	320.	9862.
20	980.	9542.	0.	0.	9542.	2124.6	320.	9862.
21	980.	9445.	0.	0.	9445.	2120.8	320.	9765.
22	983.	9307.	0.	0.	9307.	2117.1	317.	9624.
23	985.	8729.	0.	0.	8729.	2113.6	315.	9044.
24	985.	8345.	0.	0.	8345.	2110.3	315.	8660.
25	985.	7945.	0.	0.	7945.	2107.2	315.	8260.
26	985.	7745.	0.	0.	7745.	2104.1	315.	8060.
27	1091.	7589.	0.	0.	7589.	2101.2	409.	7998.
28	1091.	7281.	0.	0.	7281.	2098.1	409.	7690.
29	1432.	6985.	0.	0.	6985.	2095.2	539.	7524.
30	1490.	6636.	0.	0.	6636.	2092.4	560.	7196.
31	2210.	6304.	0.	0.	6304.	2090.3	804.	7108.
32	2873.	6230.	0.	0.	6230.	2088.5	1013.	7243.
33	5322.	6541.	0.	0.	6541.	2087.8	1878.	8419.
34	10202.	6868.	0.	0.	6868.	2089.6	3598.	10466.
35	16017.	7211.	0.	0.	7211.	2094.3	5640.	12851.
36	37660.	7072.	0.	0.	7072.	2108.9	10026.	17098.
37	26954.	6862.	0.	0.	6862.	2118.0	7175.	14037.
38	22768.	6657.	0.	0.	6657.	2125.2	6061.	12718.
39	19214.	6408.	0.	0.	6408.	2131.0	5115.	11523.
40	15178.	7273.	0.	0.	7273.	2134.5	3465.	10738.
41	14458.	7145.	0.	0.	7145.	2137.8	3299.	10444.
42	15132.	5873.	0.	0.	5873.	2142.0	3454.	9327.
43	17122.	5838.	0.	0.	5838.	2147.1	3907.	9745.
44	22511.	6056.	0.	0.	6056.	2153.8	5503.	11559.
45	18320.	6033.	0.	0.	6033.	2158.4	4594.	10627.
46	15064.	6134.	0.	0.	6134.	2161.8	3779.	9913.
47	18252.	6223.	0.	0.	6223.	2166.4	4577.	10800.
48	14606.	6458.	0.	0.	6458.	2169.5	3694.	10152.
49	10023.	6668.	0.	0.	6668.	2170.8	2863.	9531.
50	9733.	6845.	0.	0.	6845.	2171.9	2781.	9626.
51	9623.	7021.	0.	0.	7021.	2172.8	2748.	9769.
52	7019.	6920.	0.	0.	6920.	2172.9	2006.	8926.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
1967 1	5525.	6690.	0.	0.	6690.	2172.4	1465.	8155.
2	3705.	6689.	0.	0.	6689.	2171.3	982.	7671.
3	2802.	7170.	0.	0.	7170.	2169.7	742.	7912.
4	1896.	7639.	0.	0.	7639.	2167.5	504.	8143.
5	1290.	6466.	0.	0.	6466.	2165.5	439.	6905.
6	1192.	6873.	0.	0.	6873.	2163.3	408.	7281.
7	1192.	7238.	0.	0.	7238.	2161.0	408.	7646.
8	1192.	7630.	0.	0.	7630.	2158.6	408.	8038.
9	1173.	8020.	0.	0.	8020.	2156.0	398.	8418.
10	1119.	8526.	0.	0.	8526.	2153.2	381.	8907.
11	1119.	8770.	0.	0.	8770.	2150.3	381.	9151.
12	1119.	8470.	0.	0.	8470.	2147.0	381.	8851.
13	1119.	7904.	0.	0.	7904.	2144.0	381.	8285.
14	1105.	7618.	0.	0.	7618.	2141.0	395.	8013.
15	1106.	7616.	0.	0.	7616.	2138.1	394.	8010.
16	1106.	7605.	0.	0.	7605.	2135.2	394.	7999.
17	1106.	7618.	0.	0.	7618.	2132.3	394.	8012.
18	1077.	7606.	0.	0.	7606.	2129.3	380.	7986.
19	1037.	9542.	0.	0.	9542.	2125.5	363.	9905.
20	1037.	9542.	0.	0.	9542.	2121.7	363.	9905.
21	1037.	9445.	0.	0.	9445.	2117.9	363.	9808.
22	965.	9307.	0.	0.	9307.	2114.1	349.	9656.
23	882.	8729.	0.	0.	8729.	2110.6	318.	9047.
24	882.	8345.	0.	0.	8345.	2107.3	318.	8663.
25	882.	7945.	0.	0.	7945.	2104.1	318.	8263.
26	882.	7745.	0.	0.	7745.	2101.0	318.	8063.
27	771.	7589.	0.	0.	7589.	2097.6	329.	7918.
28	771.	7281.	0.	0.	7281.	2094.1	329.	7610.
29	790.	6985.	0.	0.	6985.	2090.8	339.	7324.
30	910.	6636.	0.	0.	6636.	2087.7	390.	7026.
31	1409.	6304.	0.	0.	6304.	2085.1	334.	6638.
32	4044.	6230.	0.	0.	6230.	2084.0	885.	7115.
33	14066.	6541.	0.	0.	6541.	2088.0	3077.	9618.
34	19680.	6868.	0.	0.	6868.	2094.8	4306.	11174.
35	23533.	7211.	0.	0.	7211.	2102.9	5296.	12507.
36	22187.	7072.	0.	0.	7072.	2109.7	4384.	11456.
37	29069.	6862.	0.	0.	6862.	2119.7	5745.	12607.
38	24227.	6657.	0.	0.	6657.	2127.6	4787.	11444.
39	23703.	7690.	0.	0.	7690.	2134.8	4683.	12373.
40	17634.	7273.	0.	0.	7273.	2139.5	3923.	11196.
41	17564.	7145.	0.	0.	7145.	2144.2	3907.	11052.
42	24423.	7048.	0.	0.	7048.	2151.7	5434.	12482.
43	28466.	7006.	0.	0.	7006.	2159.8	6334.	13340.
44	21665.	7267.	0.	0.	7267.	2165.3	5435.	12702.
45	20177.	7240.	0.	0.	7240.	2170.2	4866.	12106.
46	44209.	7361.	0.	0.	7361.	2184.2	10662.	18023.
47	24653.	7666.	0.	14933.	22599.	2185.0	5947.	28546.
48	16555.	7888.	0.	8667.	16555.	2185.0	4059.	20614.
49	23511.	8141.	0.	15370.	23511.	2185.0	5560.	29071.
50	13875.	8304.	0.	5571.	13875.	2185.0	3282.	17157.
51	10087.	8481.	0.	1606.	10087.	2185.0	2384.	12471.
52	7666.	8620.	0.	0.	8620.	2184.6	1811.	10431.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1968 1	5636.	8028.	0.	0.	8028.	2183.7	1215.	9243.
2	4692.	8027.	0.	0.	8027.	2182.4	1011.	9038.
3	3669.	7170.	0.	0.	7170.	2181.1	791.	7961.
4	2797.	7639.	0.	0.	7639.	2179.2	603.	8242.
5	2340.	8083.	0.	0.	8083.	2177.1	517.	8600.
6	1987.	8591.	0.	0.	8591.	2174.6	442.	9033.
7	1881.	9048.	0.	0.	9048.	2171.8	419.	9467.
8	1812.	9537.	0.	0.	9537.	2168.9	402.	9939.
9	1780.	10025.	0.	0.	10025.	2165.8	391.	10416.
10	1740.	10657.	0.	0.	10657.	2162.4	360.	11017.
11	1740.	10963.	0.	0.	10963.	2158.9	360.	11323.
12	1669.	10587.	0.	0.	10587.	2155.5	345.	10932.
13	1657.	9880.	0.	0.	9880.	2152.4	343.	10223.
14	1633.	9522.	0.	0.	9522.	2149.2	367.	9889.
15	1634.	9520.	0.	0.	9520.	2145.7	366.	9886.
16	1634.	9506.	0.	0.	9506.	2142.2	366.	9872.
17	1611.	9522.	0.	0.	9522.	2138.6	360.	9882.
18	1552.	9508.	0.	0.	9508.	2135.0	348.	9856.
19	1561.	9542.	0.	0.	9542.	2131.4	339.	9881.
20	1561.	9542.	0.	0.	9542.	2127.8	339.	9881.
21	1561.	9445.	0.	0.	9445.	2124.3	339.	9784.
22	1561.	9307.	0.	0.	9307.	2120.8	339.	9646.
23	1560.	8729.	0.	0.	8729.	2117.6	340.	9069.
24	1560.	8345.	0.	0.	8345.	2114.5	340.	8685.
25	1560.	7945.	0.	0.	7945.	2111.7	340.	8285.
26	1560.	7745.	0.	0.	7745.	2108.9	340.	8085.
27	1544.	7589.	0.	0.	7589.	2106.2	327.	7916.
28	1485.	7281.	0.	0.	7281.	2103.6	315.	7596.
29	1556.	6985.	0.	0.	6985.	2101.1	330.	7315.
30	1662.	6636.	0.	0.	6636.	2098.7	352.	6988.
31	1787.	6304.	0.	0.	6304.	2096.3	456.	6760.
32	2353.	6230.	0.	0.	6230.	2094.2	590.	6820.
33	10464.	6541.	0.	0.	6541.	2096.3	2622.	9163.
34	27061.	6868.	0.	0.	6868.	2106.0	6782.	13650.
35	21911.	7211.	0.	0.	7211.	2112.6	5632.	12843.
36	21507.	8486.	0.	0.	8486.	2118.4	4950.	13436.
37	29938.	8234.	0.	0.	8234.	2128.2	6891.	15125.
38	30356.	7988.	0.	0.	7988.	2138.2	6987.	14975.
39	22099.	7874.	0.	0.	7874.	2144.6	5087.	12961.
40	24724.	7505.	0.	0.	7505.	2152.0	4705.	12210.
41	22504.	7404.	0.	0.	7404.	2157.7	4282.	11686.
42	21723.	7314.	0.	0.	7314.	2163.2	4134.	11448.
43	20991.	7272.	0.	0.	7272.	2168.4	3995.	11267.
44	18324.	7504.	0.	0.	7504.	2172.5	3890.	11394.
45	16541.	7477.	0.	0.	7477.	2176.0	3602.	11079.
46	13759.	7575.	0.	0.	7575.	2178.3	2998.	10573.
47	12436.	7680.	0.	0.	7680.	2180.1	2707.	10387.
48	11024.	7906.	0.	0.	7906.	2181.3	2405.	10311.
49	9099.	8135.	0.	0.	8135.	2181.7	2172.	10307.
50	9115.	8320.	0.	0.	8320.	2182.0	2176.	10496.
51	5821.	8513.	0.	0.	8513.	2181.0	1389.	9902.
52	4456.	8304.	0.	0.	8304.	2179.3	1064.	9368.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1969 1	4162.	6690.	0.	0.	6690.	2178.3	899.	7589.
2	3593.	6689.	0.	0.	6689.	2177.2	777.	7466.
3	2768.	7170.	0.	0.	7170.	2175.5	598.	7768.
4	2457.	7639.	0.	0.	7639.	2173.5	530.	8169.
5	2109.	8083.	0.	0.	8083.	2171.3	434.	8517.
6	1631.	8591.	0.	0.	8591.	2168.6	340.	8931.
7	1241.	9048.	0.	0.	9048.	2165.6	259.	9307.
8	1087.	9537.	0.	0.	9537.	2162.4	227.	9764.
9	901.	10025.	0.	0.	10025.	2159.0	185.	10210.
10	809.	10657.	0.	0.	10657.	2155.2	141.	10798.
11	767.	10963.	0.	0.	10963.	2151.4	133.	11096.
12	724.	10587.	0.	0.	10587.	2147.2	126.	10713.
13	687.	7904.	0.	0.	7904.	2143.9	120.	8024.
14	658.	7618.	0.	0.	7618.	2140.8	113.	7731.
15	640.	7616.	0.	0.	7616.	2137.7	110.	7726.
16	598.	7605.	0.	0.	7605.	2134.5	102.	7707.
17	598.	7618.	0.	0.	7618.	2131.3	102.	7720.
18	598.	7606.	0.	0.	7606.	2128.2	102.	7708.
19	587.	7634.	0.	0.	7634.	2125.0	113.	7747.
20	599.	7634.	0.	0.	7634.	2121.9	115.	7749.
21	630.	7556.	0.	0.	7556.	2118.7	120.	7676.
22	630.	7446.	0.	0.	7446.	2115.7	120.	7566.
23	655.	6983.	0.	0.	6983.	2112.8	124.	7107.
24	673.	6676.	0.	0.	6676.	2110.1	127.	6803.
25	709.	6356.	0.	0.	6356.	2107.6	134.	6490.
26	732.	6196.	0.	0.	6196.	2105.1	139.	6335.
27	779.	6071.	0.	0.	6071.	2102.8	178.	6249.
28	919.	5825.	0.	0.	5825.	2100.6	210.	6035.
29	1196.	5588.	0.	0.	5588.	2098.3	275.	5863.
30	1696.	5309.	0.	0.	5309.	2096.4	390.	5699.
31	2867.	5043.	0.	0.	5043.	2095.2	533.	5576.
32	5116.	4984.	0.	0.	4984.	2095.3	897.	5881.
33	9727.	5233.	0.	0.	5233.	2097.7	1707.	6940.
34	17064.	5494.	0.	0.	5494.	2103.3	2993.	8487.
35	10209.	5769.	0.	0.	5769.	2105.3	1860.	7629.
36	11525.	6725.	0.	0.	6725.	2107.4	1275.	8000.
37	14689.	6375.	0.	0.	6375.	2111.2	1625.	8000.
38	16092.	6221.	0.	0.	6221.	2115.6	1779.	8000.
39	14614.	6385.	0.	0.	6385.	2119.3	1615.	8000.
40	13051.	7122.	0.	0.	7122.	2122.0	878.	8000.
41	16518.	6889.	0.	0.	6889.	2126.3	1111.	8000.
42	16974.	6860.	0.	0.	6860.	2130.8	1140.	8000.
43	14188.	7045.	0.	0.	7045.	2134.1	955.	8000.
44	11668.	6282.	0.	0.	6282.	2136.5	1718.	8000.
45	12201.	5915.	0.	0.	5915.	2139.3	2085.	8000.
46	6318.	6919.	0.	0.	6919.	2139.0	1081.	8000.
47	5126.	7125.	0.	0.	7125.	2138.1	875.	8000.
48	4792.	7199.	0.	0.	7199.	2137.1	801.	8000.
49	5256.	6953.	0.	0.	6953.	2136.3	1047.	8000.
50	4595.	6084.	0.	0.	6084.	2135.6	916.	7000.
51	3939.	5213.	0.	0.	5213.	2135.0	787.	6000.
52	3308.	5339.	0.	0.	5339.	2134.0	661.	6000.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1970 1	3018.	5078.	0.	0.	5078.	2133.1	922.	6000.
2	2841.	5132.	0.	0.	5132.	2132.0	868.	6000.
3	2489.	4517.	0.	0.	4517.	2131.1	760.	5277.
4	1680.	4813.	0.	0.	4813.	2129.7	513.	5326.
5	1432.	5092.	0.	0.	5092.	2128.1	282.	5374.
6	1202.	5412.	0.	0.	5412.	2126.2	227.	5639.
7	950.	5700.	0.	0.	5700.	2124.0	179.	5879.
8	842.	6008.	0.	0.	6008.	2121.7	158.	6166.
9	787.	6316.	0.	0.	6316.	2119.2	149.	6465.
10	735.	6714.	0.	0.	6714.	2116.5	165.	6879.
11	699.	6907.	0.	0.	6907.	2113.8	158.	7065.
12	694.	6670.	0.	0.	6670.	2111.1	156.	6826.
13	694.	6224.	0.	0.	6224.	2108.6	156.	6380.
14	656.	5999.	0.	0.	5999.	2106.2	194.	6193.
15	656.	5998.	0.	0.	5998.	2103.8	194.	6192.
16	628.	5989.	0.	0.	5989.	2101.4	186.	6175.
17	617.	5999.	0.	0.	5999.	2098.7	183.	6182.
18	618.	5990.	0.	0.	5990.	2095.9	182.	6172.
19	628.	6012.	0.	0.	6012.	2093.0	172.	6184.
20	589.	6012.	0.	0.	6012.	2090.1	161.	6173.
21	589.	5950.	0.	0.	5950.	2087.3	161.	6111.
22	589.	5863.	0.	0.	5863.	2084.5	161.	6024.
23	605.	5499.	0.	0.	5499.	2081.9	145.	5644.
24	616.	5257.	0.	0.	5257.	2079.4	148.	5405.
25	645.	5005.	0.	0.	5005.	2077.1	155.	5160.
26	645.	4879.	0.	0.	4879.	2074.8	155.	5034.
27	769.	4781.	0.	0.	4781.	2072.7	81.	4862.
28	846.	4587.	0.	0.	4587.	2070.7	90.	4677.
29	969.	4401.	0.	0.	4401.	2068.9	102.	4503.
30	1176.	4181.	0.	0.	4181.	2067.3	124.	4305.
31	1634.	3972.	0.	0.	3972.	2066.0	309.	4281.
32	3900.	3925.	0.	0.	3925.	2066.0	714.	4639.
33	13817.	4121.	0.	0.	4121.	2071.2	2526.	6647.
34	12474.	4327.	0.	0.	4327.	2075.5	2283.	6610.
35	15221.	4543.	0.	0.	4543.	2081.2	2908.	7451.
36	12989.	4455.	0.	0.	4455.	2085.7	3982.	8437.
37	12531.	4323.	0.	0.	4323.	2090.1	3840.	8163.
38	11864.	4364.	0.	0.	4364.	2094.1	3636.	8000.
39	19977.	4037.	0.	0.	4037.	2102.2	6123.	10160.
40	20089.	3818.	0.	0.	3818.	2109.5	4940.	8758.
41	16855.	3855.	0.	0.	3855.	2115.3	4145.	8000.
42	18059.	3700.	0.	0.	3700.	2121.8	4441.	8141.
43	17267.	3753.	0.	0.	3753.	2127.9	4247.	8000.
44	21606.	3815.	0.	0.	3815.	2135.9	4823.	8638.
45	18880.	4009.	0.	0.	4009.	2142.6	3991.	8000.
46	14586.	4915.	0.	0.	4915.	2146.9	3085.	8000.
47	16486.	4978.	0.	0.	4978.	2151.8	3485.	8463.
48	11350.	5564.	0.	0.	5564.	2154.0	2436.	8000.
49	9396.	5499.	0.	0.	5499.	2155.5	2501.	8000.
50	7477.	5476.	0.	0.	5476.	2156.2	1989.	7465.
51	7616.	5617.	0.	0.	5617.	2157.0	2027.	7644.
52	4244.	5536.	0.	0.	5536.	2156.4	1131.	6667.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1971 1	4991.	5352.	0.	0.	5352.	2156.3	2026.	7378.
2	4166.	5351.	0.	0.	5351.	2155.8	1691.	7042.
3	3393.	5736.	0.	0.	5736.	2154.9	1378.	7114.
4	2885.	6111.	0.	0.	6111.	2153.7	1172.	7283.
5	2923.	6466.	0.	0.	6466.	2152.4	1077.	7543.
6	2796.	6873.	0.	0.	6873.	2150.8	1004.	7877.
7	2543.	7238.	0.	0.	7238.	2148.9	914.	8152.
8	2249.	7630.	0.	0.	7630.	2146.4	808.	8438.
9	2013.	8020.	0.	0.	8020.	2143.7	730.	8750.
10	1886.	8526.	0.	0.	8526.	2140.7	685.	9211.
11	1761.	8770.	0.	0.	8770.	2137.6	639.	9409.
12	1614.	8470.	0.	0.	8470.	2134.5	586.	9056.
13	1446.	7904.	0.	0.	7904.	2131.6	525.	8429.
14	1328.	7618.	0.	0.	7618.	2128.8	415.	8033.
15	1188.	7616.	0.	0.	7616.	2125.9	369.	7985.
16	1080.	7605.	0.	0.	7605.	2122.9	334.	7939.
17	950.	7618.	0.	0.	7618.	2119.9	293.	7911.
18	880.	7606.	0.	0.	7606.	2116.9	277.	7883.
19	821.	7634.	0.	0.	7634.	2113.9	279.	7913.
20	746.	7634.	0.	0.	7634.	2110.8	254.	7888.
21	746.	7556.	0.	0.	7556.	2107.7	254.	7810.
22	730.	7446.	0.	0.	7446.	2104.7	249.	7695.
23	716.	6983.	0.	0.	6983.	2101.9	234.	7217.
24	716.	6676.	0.	0.	6676.	2099.0	234.	6910.
25	716.	6356.	0.	0.	6356.	2096.0	234.	6590.
26	716.	6196.	0.	0.	6196.	2093.1	234.	6430.
27	717.	6071.	0.	0.	6071.	2090.3	247.	6318.
28	744.	5825.	0.	0.	5825.	2087.6	256.	6081.
29	808.	5588.	0.	0.	5588.	2085.0	278.	5866.
30	904.	5309.	0.	0.	5309.	2082.7	310.	5619.
31	1098.	5043.	0.	0.	5043.	2080.6	359.	5402.
32	1415.	4984.	0.	0.	4984.	2078.7	485.	5469.
33	2087.	5287.	0.	0.	5287.	2077.0	713.	6000.
34	3683.	5494.	0.	0.	5494.	2076.0	1260.	6754.
35	6558.	5769.	0.	0.	5769.	2076.4	2156.	7925.
36	19251.	5658.	0.	0.	5658.	2083.6	3606.	9264.
37	39740.	5490.	0.	0.	5490.	2101.6	7446.	12936.
38	24136.	5326.	0.	0.	5326.	2110.1	4521.	9847.
39	33340.	5126.	0.	0.	5126.	2122.7	6246.	11372.
40	21395.	6061.	0.	0.	6061.	2129.6	3076.	9137.
41	21771.	5954.	0.	0.	5954.	2136.8	3129.	9083.
42	25092.	5873.	0.	0.	5873.	2145.4	3608.	9481.
43	16325.	6654.	0.	0.	6654.	2149.7	2346.	9000.
44	20943.	6056.	0.	0.	6056.	2155.4	3414.	9470.
45	38945.	6033.	0.	0.	6033.	2167.9	5798.	11831.
46	34819.	7361.	0.	0.	7361.	2178.4	5181.	12542.
47	21352.	7663.	0.	0.	7663.	2183.6	3177.	10840.
48	16880.	7886.	0.	5240.	13126.	2185.0	2591.	15717.
49	19170.	8130.	0.	11040.	19170.	2185.0	3687.	22857.
50	12233.	8299.	0.	3934.	12233.	2185.0	2353.	14586.
51	9251.	8478.	0.	773.	9251.	2185.0	1778.	11029.
52	8027.	8619.	0.	0.	8619.	2184.7	1545.	10164.

TABLE 8

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WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1972 1	6619.	8028.	0.	0.	8028.	2184.2	1125.	9153.
2	5931.	8027.	0.	0.	8027.	2183.4	1008.	9035.
3	4501.	8604.	0.	0.	8604.	2181.9	766.	9370.
4	3711.	7639.	0.	0.	7639.	2180.4	632.	8271.
5	3005.	8083.	0.	0.	8083.	2178.4	595.	8678.
6	2717.	8591.	0.	0.	8591.	2176.2	540.	9131.
7	2574.	9048.	0.	0.	9048.	2173.7	512.	9560.
8	2430.	9537.	0.	0.	9537.	2171.0	484.	10021.
9	2311.	10025.	0.	0.	10025.	2168.1	460.	10485.
10	2016.	12788.	0.	0.	12788.	2164.0	584.	13372.
11	2016.	13156.	0.	0.	13156.	2159.8	584.	13740.
12	1860.	12704.	0.	0.	12704.	2155.7	540.	13244.
13	1860.	11856.	0.	0.	11856.	2151.9	540.	12396.
14	1790.	11426.	0.	0.	11426.	2147.9	610.	12036.
15	1642.	11424.	0.	0.	11424.	2143.5	558.	11982.
16	1642.	11407.	0.	0.	11407.	2139.1	558.	11965.
17	1642.	11426.	0.	0.	11426.	2134.7	558.	11984.
18	1643.	11410.	0.	0.	11410.	2130.3	557.	11967.
19	1528.	11450.	0.	0.	11450.	2125.8	558.	12008.
20	1465.	11450.	0.	0.	11450.	2121.3	535.	11985.
21	1465.	11334.	0.	0.	11334.	2116.9	535.	11869.
22	1403.	11168.	0.	0.	11168.	2112.5	511.	11679.
23	1416.	10475.	0.	0.	10475.	2108.4	470.	10945.
24	1351.	10014.	0.	0.	10014.	2104.5	449.	10463.
25	1351.	9534.	0.	0.	9534.	2100.9	449.	9983.
26	1329.	9294.	0.	0.	9294.	2096.8	442.	9736.
27	1241.	9107.	0.	0.	9107.	2092.6	459.	9566.
28	1241.	8737.	0.	0.	8737.	2088.6	459.	9196.
29	1189.	6985.	0.	0.	6985.	2085.5	440.	7425.
30	1241.	6636.	0.	0.	6636.	2082.6	459.	7095.
31	2386.	6304.	0.	0.	6304.	2080.6	1000.	7304.
32	13753.	6230.	0.	0.	6230.	2084.6	5818.	12048.
33	13553.	6541.	0.	0.	6541.	2088.3	5733.	12274.
34	18894.	6868.	0.	0.	6868.	2094.7	7992.	14860.
35	31966.	7211.	0.	0.	7211.	2106.7	12277.	19488.
36	20142.	7072.	0.	0.	7072.	2112.5	4329.	11401.
37	35772.	6862.	0.	0.	6862.	2125.5	7685.	14547.
38	31327.	7988.	0.	0.	7988.	2136.0	6730.	14718.
39	21178.	7905.	0.	0.	7905.	2142.0	4551.	12456.
40	22096.	7536.	0.	0.	7536.	2148.5	3275.	10811.
41	22084.	7438.	0.	0.	7438.	2154.3	3273.	10711.
42	19683.	7350.	0.	0.	7350.	2159.0	2917.	10267.
43	16050.	7321.	0.	0.	7321.	2162.3	2379.	9700.
44	18343.	7563.	0.	0.	7563.	2166.4	1900.	9463.
45	19675.	7531.	0.	0.	7531.	2171.0	2054.	9585.
46	18045.	7615.	0.	0.	7615.	2175.0	1884.	9499.
47	18653.	7701.	0.	0.	7701.	2179.2	1947.	9648.
48	12473.	7913.	0.	0.	7913.	2180.9	1313.	9226.
49	11598.	8134.	0.	0.	8134.	2182.2	1588.	9722.
50	15857.	8302.	0.	230.	8532.	2185.0	2172.	10704.
51	11686.	8485.	0.	3201.	11686.	2185.0	1600.	13286.
52	5278.	8626.	0.	0.	8626.	2183.5	722.	9348.

TABLE 8

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WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1973 1	4296.	8028.	0.	0.	8028.	2182.1	490.	8518.
2	3976.	6689.	0.	0.	6689.	2181.1	453.	7142.
3	5515.	7170.	0.	0.	7170.	2180.5	628.	7798.
4	4090.	7639.	0.	0.	7639.	2179.1	467.	8106.
5	2727.	8083.	0.	0.	8083.	2177.1	387.	8470.
6	2210.	8591.	0.	0.	8591.	2174.7	333.	8924.
7	1887.	9048.	0.	0.	9048.	2171.9	284.	9332.
8	1738.	9537.	0.	0.	9537.	2169.0	262.	9799.
9	1519.	10025.	0.	0.	10025.	2165.7	224.	10249.
10	1356.	10657.	0.	0.	10657.	2162.2	244.	10901.
11	1210.	10963.	0.	0.	10963.	2158.5	219.	11182.
12	1186.	10587.	0.	0.	10587.	2154.9	214.	10801.
13	1186.	9880.	0.	0.	9880.	2151.6	214.	10094.
14	1051.	9522.	0.	0.	9522.	2148.1	178.	9700.
15	1026.	9520.	0.	0.	9520.	2144.3	174.	9694.
16	1026.	9506.	0.	0.	9506.	2140.5	174.	9680.
17	1026.	9522.	0.	0.	9522.	2136.7	174.	9696.
18	1035.	9508.	0.	0.	9508.	2132.9	165.	9673.
19	1008.	9542.	0.	0.	9542.	2129.0	192.	9734.
20	1008.	9542.	0.	0.	9542.	2125.2	192.	9734.
21	1008.	9445.	0.	0.	9445.	2121.4	192.	9637.
22	929.	9307.	0.	0.	9307.	2117.6	185.	9492.
23	868.	8729.	0.	0.	8729.	2114.1	132.	8861.
24	868.	8345.	0.	0.	8345.	2110.7	132.	8477.
25	868.	7945.	0.	0.	7945.	2107.5	132.	8077.
26	868.	7745.	0.	0.	7745.	2104.5	132.	7877.
27	879.	7589.	0.	0.	7589.	2101.4	121.	7710.
28	879.	7281.	0.	0.	7281.	2098.3	121.	7402.
29	879.	6985.	0.	0.	6985.	2095.0	121.	7106.
30	929.	6636.	0.	0.	6636.	2092.0	128.	6764.
31	1227.	6304.	0.	0.	6304.	2089.3	173.	6477.
32	2355.	6230.	0.	0.	6230.	2087.2	331.	6561.
33	8066.	6541.	0.	0.	6541.	2088.0	1134.	7675.
34	11109.	6868.	0.	0.	6868.	2090.3	1562.	8430.
35	13811.	7211.	0.	0.	7211.	2093.8	1903.	9114.
36	17385.	7072.	0.	0.	7072.	2099.3	2829.	9901.
37	28985.	6862.	0.	0.	6862.	2109.4	4715.	11577.
38	31344.	6657.	0.	0.	6657.	2120.5	5099.	11756.
39	20593.	6408.	0.	0.	6408.	2126.8	3350.	9758.
40	18980.	6923.	0.	0.	6923.	2132.3	2077.	9000.
41	18143.	7014.	0.	0.	7014.	2137.3	1986.	9000.
42	13728.	7499.	0.	0.	7499.	2140.1	1501.	9000.
43	14810.	7381.	0.	0.	7381.	2143.4	1619.	9000.
44	15752.	7095.	0.	0.	7095.	2147.3	1905.	9000.
45	18754.	6725.	0.	0.	6725.	2152.3	2275.	9000.
46	14942.	7185.	0.	0.	7185.	2155.2	1815.	9000.
47	19441.	6641.	0.	0.	6641.	2160.1	2359.	9000.
48	20593.	6422.	0.	0.	6422.	2165.5	2578.	9000.
49	11210.	6396.	0.	0.	6396.	2167.3	1604.	8000.
50	7823.	5881.	0.	0.	5881.	2168.1	1119.	7000.
51	6605.	5617.	0.	0.	5617.	2168.4	946.	6563.
52	5366.	5536.	0.	0.	5536.	2168.4	768.	6304.

TABLE 8

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FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1974 1	4607.	5352.	0.	0.	5352.	2168.1	1029.	6381.
2	3710.	5351.	0.	0.	5351.	2167.5	829.	6180.
3	2558.	5736.	0.	0.	5736.	2166.2	572.	6308.
4	1938.	6111.	0.	0.	6111.	2164.7	433.	6544.
5	1693.	6466.	0.	0.	6466.	2162.8	221.	6687.
6	1459.	6873.	0.	0.	6873.	2160.8	184.	7057.
7	1344.	7238.	0.	0.	7238.	2158.5	170.	7408.
8	1230.	7630.	0.	0.	7630.	2156.1	156.	7786.
9	1129.	8020.	0.	0.	8020.	2153.5	142.	8162.
10	1028.	8526.	0.	0.	8526.	2150.7	115.	8641.
11	926.	8770.	0.	0.	8770.	2147.2	103.	8873.
12	881.	8470.	0.	0.	8470.	2143.8	98.	8568.
13	854.	7904.	0.	0.	7904.	2140.7	96.	8000.
14	816.	7618.	0.	0.	7618.	2137.6	91.	7709.
15	811.	7616.	0.	0.	7616.	2134.5	89.	7705.
16	778.	7605.	0.	0.	7605.	2131.5	86.	7691.
17	765.	7618.	0.	0.	7618.	2128.4	85.	7703.
18	745.	7606.	0.	0.	7606.	2125.3	84.	7690.
19	707.	7634.	0.	0.	7634.	2122.2	93.	7727.
20	694.	7634.	0.	0.	7634.	2119.1	92.	7726.
21	662.	7556.	0.	0.	7556.	2116.0	88.	7644.
22	663.	7446.	0.	0.	7446.	2112.9	87.	7533.
23	648.	6983.	0.	0.	6983.	2110.1	102.	7085.
24	636.	6676.	0.	0.	6676.	2107.4	100.	6776.
25	605.	6356.	0.	0.	6356.	2104.8	95.	6451.
26	605.	6196.	0.	0.	6196.	2102.3	95.	6291.
27	594.	6071.	0.	0.	6071.	2099.7	106.	6177.
28	620.	5825.	0.	0.	5825.	2097.0	109.	5934.
29	747.	5588.	0.	0.	5588.	2094.4	132.	5720.
30	1189.	5309.	0.	0.	5309.	2092.2	211.	5520.
31	2059.	5043.	0.	0.	5043.	2090.6	512.	5555.
32	5341.	4984.	0.	0.	4984.	2090.8	1245.	6229.
33	9964.	5233.	0.	0.	5233.	2093.3	2322.	7555.
34	22246.	5494.	0.	0.	5494.	2101.9	5183.	10677.
35	25280.	5769.	0.	0.	5769.	2110.7	6077.	11846.
36	16013.	7072.	0.	0.	7072.	2114.7	3544.	10616.
37	13675.	6862.	0.	0.	6862.	2117.8	3025.	9887.
38	12785.	6657.	0.	0.	6657.	2120.5	2829.	9486.
39	13651.	6408.	0.	0.	6408.	2123.8	3020.	9428.
40	14383.	6440.	0.	0.	6440.	2127.3	2560.	9000.
41	17876.	5954.	0.	0.	5954.	2132.7	3181.	9135.
42	16396.	6082.	0.	0.	6082.	2137.3	2918.	9000.
43	15766.	6195.	0.	0.	6195.	2141.6	2805.	9000.
44	14730.	6056.	0.	0.	6056.	2145.5	2984.	9040.
45	15504.	5818.	0.	0.	5818.	2149.9	3182.	9000.
46	13265.	6279.	0.	0.	6279.	2152.6	2721.	9000.
47	10498.	6847.	0.	0.	6847.	2154.0	2153.	9000.
48	14244.	6114.	0.	0.	6114.	2157.0	2886.	9000.
49	13395.	5334.	0.	0.	5334.	2160.1	3219.	8553.
50	7511.	5476.	0.	0.	5476.	2160.9	1803.	7279.
51	7590.	5617.	0.	0.	5617.	2161.6	1823.	7440.
52	9984.	5536.	0.	0.	5536.	2163.6	2401.	7937.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1975 1	4537.	5352.	0.	0.	5352.	2163.3	966.	6318.
2	4509.	5351.	0.	0.	5351.	2162.9	960.	6311.
3	2402.	5736.	0.	0.	5736.	2161.7	512.	6248.
4	1602.	6111.	0.	0.	6111.	2160.0	341.	6452.
5	1468.	6466.	0.	0.	6466.	2158.1	232.	6698.
6	1478.	6873.	0.	0.	6873.	2156.0	222.	7095.
7	1478.	7238.	0.	0.	7238.	2153.8	222.	7460.
8	1478.	7630.	0.	0.	7630.	2151.5	222.	7852.
9	1461.	8020.	0.	0.	8020.	2148.8	225.	8245.
10	1264.	8526.	0.	0.	8526.	2145.5	336.	8862.
11	1264.	8770.	0.	0.	8770.	2142.2	336.	9106.
12	1264.	8470.	0.	0.	8470.	2138.9	336.	8806.
13	1264.	7904.	0.	0.	7904.	2135.9	336.	8240.
14	1270.	7618.	0.	0.	7618.	2133.1	316.	7934.
15	1203.	7616.	0.	0.	7616.	2130.2	297.	7913.
16	1203.	7605.	0.	0.	7605.	2127.3	297.	7902.
17	1203.	7618.	0.	0.	7618.	2124.4	297.	7915.
18	1200.	7606.	0.	0.	7606.	2121.6	300.	7906.
19	1123.	7634.	0.	0.	7634.	2118.6	377.	8011.
20	1123.	7634.	0.	0.	7634.	2115.7	377.	8011.
21	1081.	7556.	0.	0.	7556.	2112.8	362.	7918.
22	1051.	7446.	0.	0.	7446.	2109.9	349.	7795.
23	1040.	6983.	0.	0.	6983.	2107.2	360.	7343.
24	1040.	6676.	0.	0.	6676.	2104.7	360.	7036.
25	1040.	6356.	0.	0.	6356.	2102.3	360.	6716.
26	1040.	6196.	0.	0.	6196.	2100.0	360.	6556.
27	1036.	6071.	0.	0.	6071.	2097.3	364.	6435.
28	1047.	5825.	0.	0.	5825.	2094.8	367.	6192.
29	1142.	5588.	0.	0.	5588.	2092.4	401.	5989.
30	1354.	5309.	0.	0.	5309.	2090.3	475.	5784.
31	2133.	5043.	0.	0.	5043.	2088.7	710.	5753.
32	5138.	4984.	0.	0.	4984.	2088.8	1719.	6703.
33	11291.	5233.	0.	0.	5233.	2092.0	3780.	9013.
34	17252.	5494.	0.	0.	5494.	2098.3	5777.	11271.
35	23081.	5769.	0.	0.	5769.	2106.4	7419.	13188.
36	30459.	5658.	0.	0.	5658.	2117.5	5941.	11599.
37	22880.	6862.	0.	0.	6862.	2124.7	4463.	11325.
38	28749.	7988.	0.	0.	7988.	2134.1	5608.	13596.
39	25700.	7690.	0.	0.	7690.	2142.2	5014.	12704.
40	23413.	7531.	0.	0.	7531.	2149.3	4087.	11618.
41	25455.	7425.	0.	0.	7425.	2156.3	4445.	11870.
42	24131.	7324.	0.	0.	7324.	2162.6	4212.	11536.
43	22076.	7275.	0.	0.	7275.	2168.3	3853.	11128.
44	20265.	7502.	0.	0.	7502.	2173.1	3935.	11437.
45	16199.	7473.	0.	0.	7473.	2176.4	3287.	10760.
46	15474.	7567.	0.	0.	7567.	2179.4	3140.	10707.
47	13658.	7667.	0.	0.	7667.	2181.7	2771.	10438.
48	11762.	7889.	0.	0.	7889.	2183.2	2395.	10284.
49	9359.	8115.	0.	0.	8115.	2183.6	2384.	10499.
50	15849.	8307.	0.	3982.	12289.	2185.0	4037.	16326.
51	14847.	8494.	0.	6353.	14847.	2185.0	3782.	18629.
52	12513.	8630.	0.	3883.	12513.	2185.0	3187.	15700.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- GOLD CREEK	TOTAL FLOW GOLD CREEK
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
1976 1	7559.	8028.	0.	0.	8028.	2184.8	2727.	10755.
2	6664.	8027.	0.	0.	8027.	2184.3	2407.	10434.
3	6139.	8604.	0.	0.	8604.	2183.4	2218.	10822.
4	3621.	9167.	0.	0.	9167.	2181.3	1308.	10475.
5	2720.	8083.	0.	0.	8083.	2179.2	709.	8792.
6	1937.	8591.	0.	0.	8591.	2176.7	520.	9111.
7	1475.	9048.	0.	0.	9048.	2173.8	396.	9444.
8	1173.	9537.	0.	0.	9537.	2170.6	313.	9850.
9	1011.	10025.	0.	0.	10025.	2167.2	260.	10285.
10	925.	10657.	0.	0.	10657.	2163.5	218.	10875.
11	890.	10963.	0.	0.	10963.	2159.7	210.	11173.
12	855.	10587.	0.	0.	10587.	2156.0	202.	10789.
13	809.	9880.	0.	0.	9880.	2152.6	191.	10071.
14	778.	9522.	0.	0.	9522.	2149.1	222.	9744.
15	778.	9520.	0.	0.	9520.	2145.2	222.	9742.
16	750.	9506.	0.	0.	9506.	2141.2	214.	9720.
17	739.	9522.	0.	0.	9522.	2137.3	211.	9733.
18	741.	9508.	0.	0.	9508.	2133.3	209.	9717.
19	746.	9542.	0.	0.	9542.	2129.4	204.	9746.
20	746.	9542.	0.	0.	9542.	2125.4	204.	9746.
21	746.	9445.	0.	0.	9445.	2121.5	204.	9649.
22	726.	9307.	0.	0.	9307.	2117.6	203.	9510.
23	687.	8729.	0.	0.	8729.	2114.0	213.	8942.
24	687.	8345.	0.	0.	8345.	2110.6	213.	8558.
25	687.	7945.	0.	0.	7945.	2107.3	213.	8158.
26	687.	7745.	0.	0.	7745.	2104.1	213.	7958.
27	644.	7589.	0.	0.	7589.	2101.0	256.	7845.
28	675.	7281.	0.	0.	7281.	2097.7	268.	7549.
29	839.	6985.	0.	0.	6985.	2094.4	332.	7317.
30	1402.	6636.	0.	0.	6636.	2091.6	555.	7191.
31	3440.	6304.	0.	0.	6304.	2090.1	1517.	7821.
32	9778.	6230.	0.	0.	6230.	2092.0	4165.	10395.
33	9397.	6541.	0.	0.	6541.	2093.5	4003.	10544.
34	9828.	6868.	0.	0.	6868.	2095.1	4186.	11054.
35	11375.	7211.	0.	0.	7211.	2097.3	4754.	11965.
36	23100.	7072.	0.	0.	7072.	2104.9	4600.	11672.
37	24887.	6862.	0.	0.	6862.	2113.0	4956.	11818.
38	17525.	6657.	0.	0.	6657.	2117.9	3489.	10146.
39	16928.	6408.	0.	0.	6408.	2122.7	3372.	9780.
40	16991.	6662.	0.	0.	6662.	2127.3	2338.	9000.
41	16954.	6668.	0.	0.	6668.	2131.9	2332.	9000.
42	16164.	6778.	0.	0.	6778.	2136.2	2222.	9000.
43	16576.	6719.	0.	0.	6719.	2140.6	2281.	9000.
44	20226.	7512.	0.	0.	7512.	2146.3	1488.	9000.
45	26317.	7603.	0.	0.	7603.	2154.0	1397.	9000.
46	19534.	7785.	178.	0.	7963.	2158.4	1037.	9000.
47	15004.	7878.	326.	0.	8204.	2161.0	796.	9000.
48	10554.	8108.	263.	0.	8371.	2161.8	629.	9000.
49	6302.	6573.	0.	0.	6573.	2161.7	1427.	8000.
50	5160.	5830.	0.	0.	5830.	2161.4	1170.	7000.
51	5190.	5617.	0.	0.	5617.	2161.3	1177.	6794.
52	5530.	5536.	0.	0.	5536.	2161.3	1251.	6787.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1977 1	3729.	5352.	0.	0.	5352.	2160.7	1102.	6454.
2	3045.	5351.	0.	0.	5351.	2159.8	898.	6249.
3	2903.	5736.	0.	0.	5736.	2158.7	857.	6593.
4	2576.	6111.	0.	0.	6111.	2157.4	761.	6872.
5	2139.	6466.	0.	0.	6466.	2155.7	804.	7270.
6	1963.	6873.	0.	0.	6873.	2153.9	751.	7624.
7	1839.	7238.	0.	0.	7238.	2151.8	704.	7942.
8	1736.	7630.	0.	0.	7630.	2149.5	664.	8294.
9	2097.	8020.	0.	0.	8020.	2146.8	789.	8809.
10	1902.	8526.	0.	0.	8526.	2143.8	812.	9338.
11	1722.	8770.	0.	0.	8770.	2140.7	735.	9505.
12	1583.	8470.	0.	0.	8470.	2137.6	674.	9144.
13	1462.	7904.	0.	0.	7904.	2134.7	624.	8528.
14	1442.	7618.	0.	0.	7618.	2131.9	515.	8133.
15	1400.	7616.	0.	0.	7616.	2129.1	500.	8116.
16	1326.	7605.	0.	0.	7605.	2126.3	474.	8079.
17	1294.	7618.	0.	0.	7618.	2123.4	463.	8081.
18	1257.	7606.	0.	0.	7606.	2120.6	443.	8049.
19	1219.	7634.	0.	0.	7634.	2117.7	410.	8044.
20	1197.	7634.	0.	0.	7634.	2114.8	403.	8037.
21	1197.	7556.	0.	0.	7556.	2111.9	403.	7959.
22	1156.	7446.	0.	0.	7446.	2109.1	401.	7847.
23	1106.	6983.	0.	0.	6983.	2106.5	394.	7377.
24	1106.	6676.	0.	0.	6676.	2104.0	394.	7070.
25	1106.	6356.	0.	0.	6356.	2101.6	394.	6750.
26	1106.	6196.	0.	0.	6196.	2099.2	394.	6590.
27	1149.	6071.	0.	0.	6071.	2096.6	451.	6522.
28	1149.	5825.	0.	0.	5825.	2094.1	451.	6276.
29	1211.	5588.	0.	0.	5588.	2091.7	475.	6063.
30	1272.	5309.	0.	0.	5309.	2089.6	499.	5808.
31	1314.	5043.	0.	0.	5043.	2087.6	657.	5700.
32	2267.	4984.	0.	0.	4984.	2086.2	1190.	6174.
33	8205.	5233.	0.	0.	5233.	2087.7	4309.	9542.
34	12588.	5494.	0.	0.	5494.	2091.5	6612.	12106.
35	19531.	5769.	0.	0.	5769.	2098.9	9669.	15438.
36	29414.	5658.	0.	0.	5658.	2109.7	5543.	11201.
37	38957.	5490.	0.	0.	5490.	2124.8	7343.	12833.
38	31928.	6657.	0.	0.	6657.	2136.1	6015.	12672.
39	28489.	7690.	0.	0.	7690.	2145.5	5368.	13058.
40	18502.	7509.	0.	0.	7509.	2150.4	3212.	10721.
41	20572.	7424.	0.	0.	7424.	2155.4	3571.	10995.
42	21740.	7337.	0.	0.	7337.	2160.8	3774.	11111.
43	18089.	7300.	0.	0.	7300.	2164.9	3140.	10440.
44	19531.	7536.	0.	0.	7536.	2169.5	2755.	10291.
45	18939.	7503.	0.	0.	7503.	2173.8	2390.	9893.
46	17328.	7589.	0.	0.	7589.	2177.5	2186.	9775.
47	17519.	7678.	0.	0.	7678.	2181.3	2210.	9888.
48	11066.	7895.	0.	0.	7895.	2182.5	1448.	9343.
49	8643.	8124.	0.	0.	8124.	2182.7	1720.	9844.
50	12235.	8303.	0.	0.	8303.	2184.2	2436.	10739.
51	11736.	8483.	0.	1043.	9527.	2185.0	2335.	11862.
52	9877.	8623.	0.	1254.	9877.	2185.0	1965.	11842.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1978 1	6782.	8028.	0.	0.	8028.	2184.5	2047.	10075.
2	6882.	8027.	0.	0.	8027.	2184.1	2075.	10102.
3	6046.	8604.	0.	0.	8604.	2183.1	1825.	10429.
4	4510.	9167.	0.	0.	9167.	2181.4	1361.	10528.
5	3355.	9700.	0.	0.	9700.	2178.9	1131.	10831.
6	2862.	8591.	0.	0.	8591.	2176.8	967.	9558.
7	2578.	9048.	0.	0.	9048.	2174.3	872.	9920.
8	2392.	9537.	0.	0.	9537.	2171.6	808.	10345.
9	2223.	10025.	0.	0.	10025.	2168.6	741.	10766.
10	2108.	12788.	0.	0.	12788.	2164.6	649.	13437.
11	2015.	13156.	0.	0.	13156.	2160.3	621.	13777.
12	1955.	12704.	0.	0.	12704.	2156.3	602.	13306.
13	1808.	11856.	0.	0.	11856.	2152.4	556.	12412.
14	1741.	11426.	0.	0.	11426.	2148.5	495.	11921.
15	1641.	11424.	0.	0.	11424.	2144.1	466.	11890.
16	1557.	11407.	0.	0.	11407.	2139.7	443.	11850.
17	1496.	11426.	0.	0.	11426.	2135.2	425.	11851.
18	1403.	11410.	0.	0.	11410.	2130.7	404.	11814.
19	1285.	11450.	0.	0.	11450.	2126.2	415.	11865.
20	1247.	11450.	0.	0.	11450.	2121.6	403.	11853.
21	1247.	11334.	0.	0.	11334.	2117.0	403.	11737.
22	1212.	11168.	0.	0.	11168.	2112.6	388.	11556.
23	1258.	10475.	0.	0.	10475.	2108.4	342.	10817.
24	1258.	10014.	0.	0.	10014.	2104.5	342.	10356.
25	1258.	9534.	0.	0.	9534.	2100.8	342.	9876.
26	1275.	9294.	0.	0.	9294.	2096.6	346.	9640.
27	1251.	9107.	0.	0.	9107.	2092.4	399.	9506.
28	1251.	7281.	0.	0.	7281.	2089.2	399.	7680.
29	1251.	6985.	0.	0.	6985.	2086.2	399.	7384.
30	1322.	6636.	0.	0.	6636.	2083.3	421.	7057.
31	3355.	6304.	0.	0.	6304.	2081.8	288.	6592.
32	11862.	6230.	0.	0.	6230.	2084.8	695.	6925.
33	16195.	6541.	0.	0.	6541.	2089.9	948.	7489.
34	10959.	6868.	0.	0.	6868.	2092.1	641.	7509.
35	11660.	7211.	0.	0.	7211.	2094.5	711.	7922.
36	13979.	7072.	0.	0.	7072.	2098.1	1407.	8479.
37	19417.	6862.	0.	0.	6862.	2104.1	1954.	8816.
38	16614.	6657.	0.	0.	6657.	2108.6	1672.	8329.
39	20703.	6408.	0.	0.	6408.	2115.0	2083.	8491.
40	19608.	5294.	0.	0.	5294.	2121.4	2706.	8000.
41	18215.	5486.	0.	0.	5486.	2127.1	2514.	8000.
42	18416.	5459.	0.	0.	5459.	2133.0	2541.	8000.
43	18064.	5507.	0.	0.	5507.	2138.6	2493.	8000.
44	16600.	4845.	0.	0.	4845.	2143.9	3614.	8459.
45	15674.	4826.	0.	0.	4826.	2148.8	3440.	8266.
46	14572.	4907.	0.	0.	4907.	2152.6	3199.	8106.
47	12160.	5331.	0.	0.	5331.	2155.2	2669.	8000.
48	8756.	6070.	0.	0.	6070.	2156.3	1930.	8000.
49	9287.	6073.	0.	0.	6073.	2157.5	1927.	8000.
50	8372.	5476.	0.	0.	5476.	2158.6	1737.	7213.
51	6293.	5617.	0.	0.	5617.	2158.8	1306.	6923.
52	4696.	5536.	0.	0.	5536.	2158.5	975.	6511.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	OUTFLOW CONE VALVE		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
			ENVIRON. RELEASE  (CFS)	EXCESS RELEASE  (CFS)				
1979 1	4195.	5352.	0.	0.	5352.	2158.0	1221.	6573.
2	4701.	5351.	0.	0.	5351.	2157.8	1368.	6719.
3	3796.	5736.	0.	0.	5736.	2157.1	1105.	6841.
4	2849.	6111.	0.	0.	6111.	2155.8	830.	6941.
5	2736.	6466.	0.	0.	6466.	2154.4	841.	7307.
6	2368.	6873.	0.	0.	6873.	2152.7	758.	7631.
7	1774.	7238.	0.	0.	7238.	2150.6	569.	7807.
8	1558.	7630.	0.	0.	7630.	2148.0	499.	8129.
9	1502.	8020.	0.	0.	8020.	2145.1	469.	8489.
10	1483.	8526.	0.	0.	8526.	2141.9	417.	8943.
11	1349.	8770.	0.	0.	8770.	2138.6	380.	9150.
12	1214.	8470.	0.	0.	8470.	2135.3	343.	8813.
13	1170.	7904.	0.	0.	7904.	2132.3	330.	8234.
14	1185.	7618.	0.	0.	7618.	2129.4	272.	7890.
15	1138.	7616.	0.	0.	7616.	2126.5	262.	7878.
16	1138.	7605.	0.	0.	7605.	2123.5	262.	7867.
17	1138.	7618.	0.	0.	7618.	2120.6	262.	7880.
18	1059.	7606.	0.	0.	7606.	2117.7	241.	7847.
19	1067.	7634.	0.	0.	7634.	2114.7	233.	7867.
20	1067.	7634.	0.	0.	7634.	2111.8	233.	7867.
21	1067.	7556.	0.	0.	7556.	2108.9	233.	7789.
22	989.	7446.	0.	0.	7446.	2106.0	211.	7657.
23	1113.	6983.	0.	0.	6983.	2103.3	87.	7070.
24	1113.	6676.	0.	0.	6676.	2100.8	87.	6763.
25	1113.	6356.	0.	0.	6356.	2098.2	87.	6443.
26	1113.	6196.	0.	0.	6196.	2095.5	87.	6283.
27	1064.	6071.	0.	0.	6071.	2092.8	136.	6207.
28	1113.	5825.	0.	0.	5825.	2090.3	144.	5969.
29	1228.	5588.	0.	0.	5588.	2088.0	158.	5746.
30	1545.	5309.	0.	0.	5309.	2086.0	198.	5507.
31	2451.	5043.	0.	0.	5043.	2084.6	292.	5335.
32	4633.	4984.	0.	0.	4984.	2084.4	510.	5494.
33	10811.	5233.	0.	0.	5233.	2087.4	1189.	6422.
34	17246.	5494.	0.	0.	5494.	2093.6	1897.	7391.
35	28470.	5769.	0.	0.	5769.	2104.8	3201.	8970.
36	25470.	6984.	0.	0.	6984.	2113.1	2016.	9000.
37	21379.	7308.	0.	0.	7308.	2119.5	1692.	9000.
38	19302.	7473.	0.	0.	7473.	2124.8	1527.	9000.
39	23880.	7109.	0.	0.	7109.	2132.3	1891.	9000.
40	22832.	7273.	0.	0.	7273.	2139.3	3539.	10812.
41	22584.	7145.	0.	0.	7145.	2146.3	3502.	10647.
42	27495.	7048.	0.	0.	7048.	2154.6	4262.	11310.
43	28100.	7006.	0.	0.	7006.	2162.6	4357.	11363.
44	21732.	7554.	0.	0.	7554.	2168.0	4782.	12336.
45	20346.	7514.	0.	0.	7514.	2172.9	4454.	11968.
46	16431.	7600.	0.	0.	7600.	2176.2	3598.	11198.
47	13993.	7697.	0.	0.	7697.	2178.6	3064.	10761.
48	12415.	7919.	0.	0.	7919.	2180.3	2756.	10675.
49	7911.	8147.	0.	0.	8147.	2180.3	1536.	9683.
50	7704.	8338.	0.	0.	8338.	2180.0	1499.	9837.
51	11339.	8425.	0.	0.	8425.	2181.1	2204.	10629.
52	8978.	6920.	0.	0.	6920.	2182.0	1744.	8664.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1980 1	6672.	6690.	0.	0.	6690.	2182.0	1218.	7908.
2	8469.	6689.	0.	0.	6689.	2182.7	1545.	8234.
3	5948.	7170.	0.	0.	7170.	2182.2	1086.	8256.
4	4395.	7639.	0.	0.	7639.	2181.0	802.	8441.
5	4084.	8083.	0.	0.	8083.	2179.5	787.	8870.
6	3698.	8591.	0.	0.	8591.	2177.6	726.	9317.
7	4120.	9048.	0.	0.	9048.	2175.7	809.	9857.
8	2949.	11444.	0.	0.	11444.	2172.5	580.	12024.
9	2811.	12030.	0.	0.	12030.	2169.0	546.	12576.
10	2297.	12788.	0.	0.	12788.	2165.0	446.	13234.
11	2069.	13156.	0.	0.	13156.	2160.8	402.	13558.
12	1890.	12704.	0.	0.	12704.	2156.7	367.	13071.
13	1711.	11856.	0.	0.	11856.	2152.9	332.	12188.
14	1607.	11426.	0.	0.	11426.	2149.0	307.	11733.
15	1535.	11424.	0.	0.	11424.	2144.5	294.	11718.
16	1451.	11407.	0.	0.	11407.	2140.0	278.	11685.
17	1379.	11426.	0.	0.	11426.	2135.5	264.	11690.
18	1345.	11410.	0.	0.	11410.	2131.0	255.	11665.
19	1285.	11450.	0.	0.	11450.	2126.4	244.	11694.
20	1224.	11450.	0.	0.	11450.	2121.8	233.	11683.
21	1176.	11334.	0.	0.	11334.	2117.3	224.	11558.
22	1175.	11168.	0.	0.	11168.	2112.8	225.	11393.
23	1177.	10475.	0.	0.	10475.	2108.6	223.	10698.
24	1177.	10014.	0.	0.	10014.	2104.6	223.	10237.
25	1177.	9534.	0.	0.	9534.	2100.8	223.	9757.
26	1177.	9294.	0.	0.	9294.	2096.7	223.	9517.
27	1122.	9107.	0.	0.	9107.	2092.4	278.	9385.
28	1122.	7281.	0.	0.	7281.	2089.1	278.	7559.
29	1179.	6985.	0.	0.	6985.	2086.1	292.	7277.
30	1604.	6636.	0.	0.	6636.	2083.4	396.	7032.
31	3462.	6304.	0.	0.	6304.	2081.9	681.	6985.
32	8212.	6230.	0.	0.	6230.	2082.9	1502.	7732.
33	11764.	6541.	0.	0.	6541.	2085.7	2150.	8691.
34	10518.	6868.	0.	0.	6868.	2087.6	1925.	8793.
35	16714.	7211.	0.	0.	7211.	2092.7	3129.	10340.
36	25823.	7072.	0.	0.	7072.	2102.3	6320.	13392.
37	20349.	6862.	0.	0.	6862.	2108.3	4980.	11842.
38	26351.	6657.	0.	0.	6657.	2117.2	6449.	13106.
39	22988.	6408.	0.	0.	6408.	2124.6	5626.	12034.
40	26281.	6061.	0.	0.	6061.	2133.7	5062.	11123.
41	26663.	5954.	0.	0.	5954.	2143.1	5137.	11091.
42	28137.	7048.	0.	0.	7048.	2152.1	5420.	12468.
43	25275.	7006.	0.	0.	7006.	2159.1	4868.	11874.
44	28150.	7267.	0.	0.	7267.	2167.0	4864.	12131.
45	19051.	7526.	0.	0.	7526.	2171.4	4149.	11675.
46	18006.	7612.	0.	0.	7612.	2175.3	3923.	11535.
47	16331.	7702.	0.	0.	7702.	2178.6	3555.	11257.
48	11948.	7920.	0.	0.	7920.	2180.2	2509.	10429.
49	8723.	8148.	0.	0.	8148.	2180.4	1847.	9995.
50	9329.	8334.	0.	0.	8334.	2180.7	1975.	10309.
51	15679.	8506.	0.	0.	8506.	2183.5	3321.	11827.
52	10243.	8631.	0.	0.	8631.	2184.2	2170.	10801.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
			ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1981 1	8532.	8028.	0.	0.	8028.	2184.4	1317.	9345.
2	7605.	8027.	0.	0.	8027.	2184.2	1174.	9201.
3	6326.	8604.	0.	0.	8604.	2183.3	977.	9581.
4	5214.	9167.	0.	0.	9167.	2181.8	805.	9972.
5	3950.	9700.	0.	0.	9700.	2179.7	707.	10407.
6	3534.	10309.	0.	0.	10309.	2177.1	677.	10986.
7	2637.	10858.	0.	0.	10858.	2174.0	506.	11364.
8	2685.	11444.	0.	0.	11444.	2170.6	515.	11959.
9	2707.	12030.	0.	0.	12030.	2167.1	493.	12523.
10	2175.	12788.	0.	0.	12788.	2163.1	139.	12927.
11	1678.	13156.	0.	0.	13156.	2158.7	108.	13264.
12	1578.	12704.	0.	0.	12704.	2154.5	101.	12805.
13	1516.	11856.	0.	0.	11856.	2150.5	98.	11954.
14	1448.	11426.	0.	0.	11426.	2146.2	123.	11549.
15	1684.	11424.	0.	0.	11424.	2141.8	145.	11569.
16	1961.	11407.	0.	0.	11407.	2137.5	168.	11575.
17	2118.	11426.	0.	0.	11426.	2133.3	182.	11608.
18	2142.	11410.	0.	0.	11410.	2129.2	187.	11597.
19	1911.	11450.	0.	0.	11450.	2124.9	503.	11953.
20	1594.	11450.	0.	0.	11450.	2120.4	420.	11870.
21	1265.	11334.	0.	0.	11334.	2115.9	335.	11669.
22	1190.	11168.	0.	0.	11168.	2111.4	310.	11478.
23	1194.	10475.	0.	0.	10475.	2107.3	306.	10781.
24	1274.	10014.	0.	0.	10014.	2103.3	326.	10340.
25	1297.	9534.	0.	0.	9534.	2099.6	332.	9866.
26	1314.	9294.	0.	0.	9294.	2095.3	336.	9630.
27	1238.	7589.	0.	0.	7589.	2091.9	462.	8051.
28	1291.	7281.	0.	0.	7281.	2088.7	480.	7761.
29	1373.	6985.	0.	0.	6985.	2085.7	513.	7498.
30	1779.	6636.	0.	0.	6636.	2083.2	664.	7300.
31	4737.	6304.	0.	0.	6304.	2082.3	886.	7190.
32	17566.	6230.	0.	0.	6230.	2088.4	2834.	9064.
33	17640.	6541.	0.	0.	6541.	2094.3	2846.	9387.
34	11625.	6868.	0.	0.	6868.	2096.8	1875.	8743.
35	19077.	7211.	0.	0.	7211.	2102.6	2866.	10077.
36	16465.	7072.	0.	0.	7072.	2106.9	2164.	9236.
37	14949.	7035.	0.	0.	7035.	2110.4	1965.	9000.
38	16085.	6885.	0.	0.	6885.	2114.6	2115.	9000.
39	18788.	6531.	0.	0.	6531.	2120.1	2469.	9000.
40	14090.	6061.	0.	0.	6061.	2123.7	3739.	9800.
41	33261.	5954.	0.	0.	5954.	2136.0	8825.	14779.
42	32516.	5873.	0.	0.	5873.	2147.9	8627.	14500.
43	29007.	7006.	0.	0.	7006.	2156.6	7693.	14699.
44	31168.	7267.	0.	0.	7267.	2165.7	7432.	14699.
45	30077.	7240.	0.	0.	7240.	2174.4	6080.	13320.
46	38871.	7561.	0.	3341.	10902.	2185.0	7858.	18760.
47	30803.	7682.	0.	23121.	30803.	2185.0	6226.	37029.
48	20647.	7898.	0.	12749.	20647.	2185.0	4324.	24971.
49	15158.	8119.	0.	7039.	15158.	2185.0	2828.	17986.
50	12220.	8299.	0.	3921.	12220.	2185.0	2280.	14500.
51	10197.	8481.	0.	1716.	10197.	2185.0	1903.	12100.
52	8299.	8618.	0.	0.	8618.	2184.9	1550.	10168.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK  (CFS)	TOTAL FLOW GOLD CREEK  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1982 1	5901.	8028.	0.	0.	8028.	2184.1	1740.	9768.
2	5560.	8027.	0.	0.	8027.	2183.1	1640.	9667.
3	5713.	8604.	0.	0.	8604.	2182.0	1686.	10290.
4	6627.	9167.	0.	0.	9167.	2181.1	1954.	11121.
5	3364.	8083.	0.	0.	8083.	2179.3	1248.	9331.
6	2845.	8591.	0.	0.	8591.	2177.1	1098.	9689.
7	2782.	9048.	0.	0.	9048.	2174.7	1075.	10123.
8	2339.	9537.	0.	0.	9537.	2172.0	904.	10441.
9	2057.	12030.	0.	0.	12030.	2168.2	771.	12801.
10	1971.	12788.	0.	0.	12788.	2164.1	558.	13346.
11	1860.	13156.	0.	0.	13156.	2159.8	525.	13681.
12	1794.	12704.	0.	0.	12704.	2155.6	506.	13210.
13	1794.	11856.	0.	0.	11856.	2151.8	506.	12362.
14	1697.	11426.	0.	0.	11426.	2147.8	603.	12029.
15	1695.	11424.	0.	0.	11424.	2143.4	605.	12029.
16	1695.	11407.	0.	0.	11407.	2139.0	605.	12012.
17	1695.	11426.	0.	0.	11426.	2134.6	605.	12031.
18	1729.	11410.	0.	0.	11410.	2130.3	585.	11995.
19	1662.	11450.	0.	0.	11450.	2125.9	695.	12145.
20	1213.	11450.	0.	0.	11450.	2121.3	508.	11958.
21	881.	11334.	0.	0.	11334.	2116.6	369.	11703.
22	767.	11168.	0.	0.	11168.	2111.9	333.	11501.
23	826.	10475.	0.	0.	10475.	2107.6	274.	10749.
24	826.	10014.	0.	0.	10014.	2103.4	274.	10288.
25	874.	9534.	0.	0.	9534.	2099.5	290.	9824.
26	1123.	9294.	0.	0.	9294.	2095.1	374.	9668.
27	956.	7589.	0.	0.	7589.	2091.6	544.	8133.
28	956.	7281.	0.	0.	7281.	2088.2	544.	7825.
29	1057.	6985.	0.	0.	6985.	2085.0	600.	7585.
30	1403.	6636.	0.	0.	6636.	2082.3	797.	7433.
31	2641.	6304.	0.	0.	6304.	2080.3	745.	7049.
32	6274.	6230.	0.	0.	6230.	2080.3	1826.	8056.
33	11618.	6541.	0.	0.	6541.	2083.0	3382.	9923.
34	15603.	6868.	0.	0.	6868.	2087.7	4540.	11408.
35	17916.	7211.	0.	0.	7211.	2093.4	4798.	12009.
36	21638.	7072.	0.	0.	7072.	2101.0	4505.	11577.
37	18090.	6862.	0.	0.	6862.	2106.0	3767.	10629.
38	23883.	6657.	0.	0.	6657.	2113.8	4974.	11631.
39	23173.	6408.	0.	0.	6408.	2121.3	4827.	11235.
40	16689.	6189.	0.	0.	6189.	2126.0	2811.	9000.
41	20637.	5954.	0.	0.	5954.	2132.6	3477.	9431.
42	20979.	5873.	0.	0.	5873.	2139.4	3535.	9408.
43	23533.	5838.	0.	0.	5838.	2147.4	3967.	9805.
44	20306.	6056.	0.	0.	6056.	2153.2	3351.	9407.
45	13970.	6341.	0.	0.	6341.	2156.1	2659.	9000.
46	12157.	6686.	0.	0.	6686.	2158.2	2314.	9000.
47	10610.	6981.	0.	0.	6981.	2159.6	2019.	9000.
48	11835.	6821.	0.	0.	6821.	2161.5	2179.	9000.
49	10670.	5334.	0.	0.	5334.	2163.5	2816.	8150.
50	13360.	5476.	0.	0.	5476.	2166.5	3526.	9002.
51	21010.	5617.	0.	0.	5617.	2172.3	5547.	11164.
52	11582.	5536.	0.	0.	5536.	2175.0	3056.	8592.

TABLE 8

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- GOLD CREEK (CFS)	TOTAL FLOW GOLD CREEK (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1983 1	7782.	5352.	0.	0.	5352.	2175.9	2647.	7999.
2	6119.	5351.	0.	0.	5351.	2176.2	2082.	7433.
3	4982.	5736.	0.	0.	5736.	2175.9	1695.	7431.
4	2921.	6111.	0.	0.	6111.	2174.7	993.	7104.
5	2384.	6466.	0.	0.	6466.	2173.1	587.	7053.
6	2252.	6873.	0.	0.	6873.	2171.4	534.	7407.
7	2137.	9048.	0.	0.	9048.	2168.7	506.	9554.
8	1997.	9537.	0.	0.	9537.	2165.9	474.	10011.
9	1944.	10025.	0.	0.	10025.	2162.8	456.	10481.
10	1850.	10657.	0.	0.	10657.	2159.5	451.	11108.
11	1850.	10963.	0.	0.	10963.	2156.0	450.	11413.
12	1850.	10587.	0.	0.	10587.	2152.7	450.	11037.
13	1965.	9880.	0.	0.	9880.	2149.6	478.	10358.
14	2201.	9522.	0.	0.	9522.	2146.3	570.	10092.
15	1906.	9520.	0.	0.	9520.	2142.9	494.	10014.
16	1690.	9506.	0.	0.	9506.	2139.4	439.	9945.
17	1588.	9522.	0.	0.	9522.	2135.8	412.	9934.
18	1553.	9508.	0.	0.	9508.	2132.2	404.	9912.
19	1535.	9542.	0.	0.	9542.	2128.6	365.	9907.
20	1650.	9542.	0.	0.	9542.	2125.1	393.	9935.
21	1685.	9445.	0.	0.	9445.	2121.6	401.	9846.
22	1583.	9307.	0.	0.	9307.	2118.1	374.	9681.
23	1534.	8729.	0.	0.	8729.	2114.9	280.	9009.
24	1437.	8345.	0.	0.	8345.	2111.8	263.	8608.
25	1389.	7945.	0.	0.	7945.	2108.8	254.	8199.
26	1280.	7745.	0.	0.	7745.	2105.9	234.	7979.
27	1185.	7589.	0.	0.	7589.	2103.0	315.	7904.
28	1208.	7281.	0.	0.	7281.	2100.3	321.	7602.
29	1411.	6985.	0.	0.	6985.	2097.4	375.	7360.
30	1907.	6636.	0.	0.	6636.	2094.9	507.	7143.
31	3484.	6304.	0.	0.	6304.	2093.4	1102.	7406.
32	8419.	6230.	0.	0.	6230.	2094.5	2667.	8897.
33	14537.	6541.	0.	0.	6541.	2098.8	4606.	11147.
34	12909.	6868.	0.	0.	6868.	2101.7	4091.	10959.
35	18671.	7211.	0.	0.	7211.	2106.9	5472.	12683.
36	23758.	7072.	0.	0.	7072.	2114.4	3585.	10657.
37	17019.	6862.	0.	0.	6862.	2118.9	2567.	9429.
38	20754.	6657.	0.	0.	6657.	2125.3	3132.	9789.
39	20568.	6408.	0.	0.	6408.	2131.6	3103.	9511.
40	22463.	7273.	0.	0.	7273.	2138.5	2908.	10181.
41	19352.	7145.	0.	0.	7145.	2144.0	2505.	9650.
42	16152.	7048.	0.	0.	7048.	2148.1	2091.	9139.
43	17431.	7006.	0.	0.	7006.	2152.3	2255.	9261.
44	17935.	7267.	0.	0.	7267.	2156.4	3079.	10346.
45	22829.	7240.	0.	0.	7240.	2162.3	3757.	10997.
46	21149.	7361.	0.	0.	7361.	2167.5	3480.	10841.
47	18683.	7468.	0.	0.	7468.	2171.8	3074.	10542.
48	22728.	7750.	0.	0.	7750.	2177.5	3801.	11551.
49	15528.	8002.	0.	0.	8002.	2180.3	3429.	11431.
50	9607.	8214.	0.	0.	8214.	2180.9	2122.	10336.
51	8465.	8425.	0.	0.	8425.	2180.9	1869.	10294.
52	9728.	6920.	0.	0.	6920.	2182.1	2149.	9069.

**TABLE 9**

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1951 1	4521.	5352.	0.	0.	5352.	2157.9	12656.	18008.
2	4029.	5351.	0.	0.	5351.	2157.4	10130.	15481.
3	3518.	5736.	0.	0.	5736.	2156.6	7488.	13224.
4	2007.	6111.	0.	0.	6111.	2155.0	5072.	11183.
5	1248.	6466.	0.	0.	6466.	2153.0	3946.	10412.
6	1176.	6873.	0.	0.	6873.	2150.9	3056.	9929.
7	1103.	7238.	0.	0.	7238.	2148.3	2759.	9997.
8	1042.	7630.	0.	0.	7630.	2145.3	2784.	10414.
9	994.	8020.	0.	0.	8020.	2142.1	2811.	10831.
10	903.	8526.	0.	0.	8526.	2138.7	2701.	11227.
11	903.	8770.	0.	0.	8770.	2135.2	2487.	11257.
12	903.	8470.	0.	0.	8470.	2131.8	2210.	10680.
13	903.	7904.	0.	0.	7904.	2128.6	2151.	10055.
14	828.	7618.	0.	0.	7618.	2125.6	2357.	9975.
15	812.	7616.	0.	0.	7616.	2122.5	2241.	9857.
16	812.	7605.	0.	0.	7605.	2119.5	2477.	10082.
17	812.	7618.	0.	0.	7618.	2116.4	2541.	10159.
18	757.	7606.	0.	0.	7606.	2113.3	2327.	9933.
19	667.	7634.	0.	0.	7634.	2110.2	2288.	9922.
20	667.	7634.	0.	0.	7634.	2107.0	2088.	9722.
21	667.	7556.	0.	0.	7556.	2103.9	2039.	9595.
22	641.	7446.	0.	0.	7446.	2100.9	1663.	9109.
23	618.	6983.	0.	0.	6983.	2097.7	1449.	8432.
24	618.	6676.	0.	0.	6676.	2094.4	1419.	8095.
25	618.	6356.	0.	0.	6356.	2091.4	1429.	7785.
26	618.	6196.	0.	0.	6196.	2088.4	1425.	7621.
27	542.	6071.	0.	0.	6071.	2085.5	1477.	7548.
28	700.	5825.	0.	0.	5825.	2082.7	1756.	7581.
29	1071.	5588.	0.	0.	5588.	2080.3	2590.	8178.
30	1861.	5309.	0.	0.	5309.	2078.5	3946.	9255.
31	4923.	5043.	0.	0.	5043.	2078.4	6682.	11725.
32	14338.	4984.	0.	0.	4984.	2083.4	15115.	20099.
33	15945.	5233.	0.	0.	5233.	2089.1	15674.	20907.
34	7915.	5494.	0.	0.	5494.	2090.4	12755.	18249.
35	13828.	5769.	0.	0.	5769.	2094.7	19519.	25288.
36	26696.	6153.	0.	0.	6153.	2104.8	29862.	36015.
37	19247.	6947.	0.	0.	6947.	2110.3	38478.	45425.
38	12238.	7695.	0.	0.	7695.	2112.3	27138.	34833.
39	17232.	7161.	0.	0.	7161.	2116.9	32997.	40158.
40	18464.	6735.	0.	0.	6735.	2122.1	37788.	44523.
41	21682.	6339.	0.	0.	6339.	2129.0	45947.	52286.
42	20740.	6454.	0.	0.	6454.	2135.5	45179.	51633.
43	19074.	6660.	0.	0.	6660.	2141.0	38496.	45156.
44	17891.	5462.	0.	0.	5462.	2146.6	37873.	43335.
45	14413.	5799.	0.	0.	5799.	2150.4	37233.	43032.
46	15312.	5598.	0.	0.	5598.	2154.1	30524.	36122.
47	14985.	5671.	0.	0.	5671.	2157.7	25530.	31201.
48	21048.	5166.	0.	0.	5166.	2163.7	32644.	37810.
49	24531.	5334.	0.	0.	5334.	2171.0	34934.	40268.
50	15237.	5476.	0.	0.	5476.	2174.7	22590.	28066.
51	15738.	5617.	0.	0.	5617.	2178.5	19772.	25389.
52	13323.	5536.	0.	0.	5536.	2181.9	18898.	24434.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1952 1	7559.	5352.	0.	0.	5352.	2182.8	12746.	18098.
2	5055.	6689.	0.	0.	6689.	2182.1	9582.	16271.
3	3674.	7170.	0.	0.	7170.	2180.8	7263.	14433.
4	2855.	7639.	0.	0.	7639.	2179.0	6751.	14390.
5	2793.	8083.	0.	0.	8083.	2177.0	7056.	15139.
6	2609.	8591.	0.	0.	8591.	2174.7	5777.	14368.
7	1928.	9048.	0.	0.	9048.	2172.0	4641.	13689.
8	1908.	9537.	0.	0.	9537.	2169.1	4230.	13767.
9	1761.	10025.	0.	0.	10025.	2166.0	3827.	13852.
10	1489.	10657.	0.	0.	10657.	2162.5	3742.	14399.
11	1489.	10963.	0.	0.	10963.	2158.9	3927.	14890.
12	1489.	10587.	0.	0.	10587.	2155.4	3854.	14441.
13	1489.	9880.	0.	0.	9880.	2152.2	3607.	13487.
14	1329.	9522.	0.	0.	9522.	2149.0	3018.	12540.
15	1299.	9520.	0.	0.	9520.	2145.3	2723.	12243.
16	1299.	9506.	0.	0.	9506.	2141.6	2716.	12222.
17	1299.	9522.	0.	0.	9522.	2137.9	2613.	12135.
18	1069.	9508.	0.	0.	9508.	2134.1	2321.	11829.
19	819.	9542.	0.	0.	9542.	2130.2	1717.	11259.
20	819.	9542.	0.	0.	9542.	2126.2	1669.	11211.
21	819.	9445.	0.	0.	9445.	2122.4	1490.	10935.
22	784.	9307.	0.	0.	9307.	2118.5	1454.	10761.
23	730.	8729.	0.	0.	8729.	2114.9	1530.	10259.
24	730.	8345.	0.	0.	8345.	2111.5	1576.	9921.
25	730.	7945.	0.	0.	7945.	2108.3	1687.	9632.
26	730.	7745.	0.	0.	7745.	2105.1	1864.	9609.
27	796.	7589.	0.	0.	7589.	2102.0	1849.	9438.
28	796.	7281.	0.	0.	7281.	2099.0	1640.	8921.
29	796.	6985.	0.	0.	6985.	2095.7	1677.	8662.
30	796.	6636.	0.	0.	6636.	2092.6	2144.	8780.
31	909.	6304.	0.	0.	6304.	2089.7	2999.	9303.
32	1132.	6230.	0.	0.	6230.	2087.0	4169.	10399.
33	1549.	6541.	0.	0.	6541.	2084.3	6321.	12862.
34	3357.	6868.	0.	0.	6868.	2082.5	10091.	16959.
35	16784.	7211.	0.	0.	7211.	2087.5	37752.	44963.
36	19892.	7072.	0.	0.	7072.	2094.4	44630.	51702.
37	28174.	6862.	0.	0.	6862.	2104.8	61089.	67951.
38	30555.	6657.	0.	0.	6657.	2115.6	55185.	61842.
39	27039.	6408.	0.	0.	6408.	2124.9	56141.	62549.
40	23527.	6061.	0.	0.	6061.	2132.7	50310.	56371.
41	16714.	6085.	0.	0.	6085.	2137.5	43467.	49552.
42	21361.	5873.	0.	0.	5873.	2144.5	51305.	57178.
43	23150.	5838.	0.	0.	5838.	2151.9	48112.	53950.
44	30727.	6056.	0.	0.	6056.	2161.3	57999.	64055.
45	19888.	7240.	0.	0.	7240.	2166.1	47052.	54292.
46	15618.	7361.	0.	0.	7361.	2169.2	39015.	46376.
47	11855.	7468.	0.	0.	7468.	2170.9	30627.	38095.
48	13935.	7750.	0.	0.	7750.	2173.2	30577.	38327.
49	15561.	6668.	0.	0.	6668.	2176.6	30171.	36839.
50	10522.	6845.	0.	0.	6845.	2178.0	23809.	30654.
51	9086.	7021.	0.	0.	7021.	2178.8	18744.	25765.
52	10876.	6920.	0.	0.	6920.	2180.5	28800.	35720.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1953 1	8559.	6690.	0.	0.	6690.	2181.2	21410.	28100.
2	7982.	6689.	0.	0.	6689.	2181.7	19830.	26519.
3	5556.	7170.	0.	0.	7170.	2181.1	12823.	19993.
4	4049.	7639.	0.	0.	7639.	2179.7	7712.	15351.
5	3948.	8083.	0.	0.	8083.	2178.2	6215.	14298.
6	3377.	8591.	0.	0.	8591.	2176.2	5122.	13713.
7	2164.	9048.	0.	0.	9048.	2173.6	4258.	13306.
8	2652.	9537.	0.	0.	9537.	2170.9	4632.	14169.
9	1913.	10025.	0.	0.	10025.	2167.9	3781.	13806.
10	1250.	10657.	0.	0.	10657.	2164.3	2782.	13439.
11	1250.	10963.	0.	0.	10963.	2160.6	2789.	13752.
12	1250.	10587.	0.	0.	10587.	2157.1	2863.	13450.
13	1250.	9880.	0.	0.	9880.	2153.8	2815.	12695.
14	880.	9522.	0.	0.	9522.	2150.5	2461.	11983.
15	820.	9520.	0.	0.	9520.	2146.7	2270.	11790.
16	820.	9506.	0.	0.	9506.	2142.8	2192.	11698.
17	820.	9522.	0.	0.	9522.	2138.9	2047.	11569.
18	722.	9508.	0.	0.	9508.	2134.9	1891.	11399.
19	598.	9542.	0.	0.	9542.	2130.9	1710.	11252.
20	598.	9542.	0.	0.	9542.	2126.9	1708.	11250.
21	598.	9445.	0.	0.	9445.	2122.9	1646.	11091.
22	606.	9307.	0.	0.	9307.	2119.0	1581.	10888.
23	678.	8729.	0.	0.	8729.	2115.3	1545.	10274.
24	678.	8345.	0.	0.	8345.	2111.9	1484.	9829.
25	678.	7945.	0.	0.	7945.	2108.6	1510.	9455.
26	678.	7745.	0.	0.	7745.	2105.4	1518.	9263.
27	486.	7589.	0.	0.	7589.	2102.3	1840.	9429.
28	486.	7281.	0.	0.	7281.	2099.1	2086.	9367.
29	785.	6985.	0.	0.	6985.	2095.7	3109.	10094.
30	1308.	6636.	0.	0.	6636.	2092.9	4919.	11555.
31	10007.	6304.	0.	0.	6304.	2094.9	13812.	20116.
32	13666.	6230.	0.	0.	6230.	2098.8	21224.	27454.
33	12435.	6541.	0.	0.	6541.	2101.7	20794.	27335.
34	21448.	6868.	0.	0.	6868.	2108.2	39330.	46198.
35	16652.	7211.	0.	0.	7211.	2112.5	34118.	41329.
36	27821.	8486.	0.	0.	8486.	2121.2	45424.	53910.
37	21482.	8234.	0.	0.	8234.	2127.1	45394.	53628.
38	17488.	7988.	0.	0.	7988.	2131.4	38666.	46654.
39	20466.	7690.	0.	0.	7690.	2137.1	42109.	49799.
40	17377.	7273.	0.	0.	7273.	2141.7	34023.	41296.
41	15695.	7145.	0.	0.	7145.	2145.5	33110.	40255.
42	17070.	7048.	0.	0.	7048.	2150.0	33747.	40795.
43	17745.	7006.	0.	0.	7006.	2154.1	34442.	41448.
44	20931.	7267.	0.	0.	7267.	2159.3	39027.	46294.
45	17859.	7240.	0.	0.	7240.	2163.3	35296.	42536.
46	14312.	7361.	0.	0.	7361.	2166.0	28300.	35661.
47	14731.	7468.	0.	0.	7468.	2168.7	30882.	38350.
48	17519.	6458.	0.	0.	6458.	2172.9	31635.	38093.
49	14058.	6668.	0.	0.	6668.	2175.8	36934.	43602.
50	12806.	6845.	0.	0.	6845.	2178.0	33133.	39978.
51	10679.	7021.	0.	0.	7021.	2179.4	23572.	30593.
52	8137.	6920.	0.	0.	6920.	2179.9	16513.	23433.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1954 1	6126.	6690.	0.	0.	6690.	2179.7	11042.	17732.
2	5080.	6689.	0.	0.	6689.	2179.1	9501.	16190.
3	3728.	7170.	0.	0.	7170.	2177.8	7493.	14663.
4	2971.	7639.	0.	0.	7639.	2176.0	5504.	13143.
5	1821.	8083.	0.	0.	8083.	2173.6	3298.	11381.
6	1738.	8591.	0.	0.	8591.	2171.0	3274.	11865.
7	1608.	9048.	0.	0.	9048.	2168.2	3457.	12505.
8	1497.	9537.	0.	0.	9537.	2165.2	3300.	12837.
9	1361.	10025.	0.	0.	10025.	2161.9	2856.	12881.
10	1174.	10657.	0.	0.	10657.	2158.3	2629.	13286.
11	1174.	10963.	0.	0.	10963.	2154.6	2669.	13632.
12	1174.	10587.	0.	0.	10587.	2151.0	2690.	13277.
13	1174.	9880.	0.	0.	9880.	2147.2	2402.	12282.
14	1120.	9522.	0.	0.	9522.	2143.5	2156.	11678.
15	1099.	9520.	0.	0.	9520.	2139.7	2113.	11633.
16	1099.	9506.	0.	0.	9506.	2135.9	2142.	11648.
17	1099.	9522.	0.	0.	9522.	2132.1	2024.	11546.
18	982.	9508.	0.	0.	9508.	2128.3	1953.	11461.
19	794.	9542.	0.	0.	9542.	2124.3	1862.	11404.
20	794.	9542.	0.	0.	9542.	2120.4	1883.	11425.
21	794.	9445.	0.	0.	9445.	2116.5	1732.	11177.
22	716.	9307.	0.	0.	9307.	2112.7	1768.	11075.
23	630.	8729.	0.	0.	8729.	2109.0	1636.	10365.
24	630.	8345.	0.	0.	8345.	2105.5	1629.	9974.
25	630.	7945.	0.	0.	7945.	2102.2	1541.	9486.
26	630.	7745.	0.	0.	7745.	2098.9	1513.	9258.
27	506.	7589.	0.	0.	7589.	2095.1	1743.	9332.
28	506.	7281.	0.	0.	7281.	2091.5	1640.	8921.
29	870.	6985.	0.	0.	6985.	2088.2	2198.	9183.
30	930.	6636.	0.	0.	6636.	2085.2	2197.	8833.
31	4308.	6304.	0.	0.	6304.	2084.1	6881.	13185.
32	8521.	6230.	0.	0.	6230.	2085.4	9847.	16077.
33	13802.	6541.	0.	0.	6541.	2089.2	21086.	27627.
34	15823.	6868.	0.	0.	6868.	2094.0	21566.	28434.
35	14807.	7211.	0.	0.	7211.	2098.0	24696.	31907.
36	19799.	7072.	0.	0.	7072.	2104.1	29125.	36197.
37	19022.	6862.	0.	0.	6862.	2109.5	35877.	42739.
38	18245.	6657.	0.	0.	6657.	2114.7	39325.	45982.
39	22178.	6408.	0.	0.	6408.	2121.8	42251.	48659.
40	19307.	6061.	0.	0.	6061.	2127.8	38334.	44395.
41	15396.	5954.	0.	0.	5954.	2132.0	38145.	44099.
42	14981.	5873.	0.	0.	5873.	2136.1	35577.	41450.
43	14981.	5838.	0.	0.	5838.	2140.2	35741.	41579.
44	24614.	4845.	0.	0.	4845.	2149.1	52912.	57757.
45	20049.	5049.	0.	0.	5049.	2155.0	46355.	51404.
46	20049.	5049.	0.	0.	5049.	2160.7	47091.	52140.
47	20049.	5049.	0.	0.	5049.	2166.4	42165.	47214.
48	18930.	5166.	0.	0.	5166.	2171.6	35603.	40769.
49	11256.	5334.	0.	0.	5334.	2173.8	25207.	30541.
50	9676.	5476.	0.	0.	5476.	2175.4	24066.	29542.
51	9025.	5617.	0.	0.	5617.	2176.7	22865.	28482.
52	5793.	5536.	0.	0.	5536.	2176.8	17670.	23206.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONE ENVIRON. RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1955 1	4746.	5352.	0.	0.	5352.	2176.6	9669.	15021.
2	4461.	5351.	0.	0.	5351.	2176.3	8910.	14261.
3	3359.	5736.	0.	0.	5736.	2175.4	8141.	13877.
4	3359.	6111.	0.	0.	6111.	2174.3	7479.	13590.
5	2716.	6466.	0.	0.	6466.	2172.9	6745.	13211.
6	2156.	6873.	0.	0.	6873.	2171.1	5335.	12208.
7	2032.	9048.	0.	0.	9048.	2168.4	4478.	13526.
8	1796.	9537.	0.	0.	9537.	2165.5	4203.	13740.
9	1756.	10025.	0.	0.	10025.	2162.4	3762.	13787.
10	1657.	10657.	0.	0.	10657.	2158.9	3212.	13869.
11	1624.	10963.	0.	0.	10963.	2155.4	3210.	14173.
12	1431.	10587.	0.	0.	10587.	2151.9	3124.	13711.
13	1431.	9880.	0.	0.	9880.	2148.5	2994.	12874.
14	1546.	9522.	0.	0.	9522.	2144.9	3142.	12664.
15	1561.	9520.	0.	0.	9520.	2141.3	2932.	12452.
16	1338.	9506.	0.	0.	9506.	2137.6	2507.	12013.
17	1249.	9522.	0.	0.	9522.	2133.9	2439.	11961.
18	1179.	9508.	0.	0.	9508.	2130.2	2090.	11598.
19	1052.	9542.	0.	0.	9542.	2126.4	1909.	11451.
20	1052.	9542.	0.	0.	9542.	2122.5	1795.	11337.
21	1052.	9445.	0.	0.	9445.	2118.8	1758.	11203.
22	949.	9307.	0.	0.	9307.	2115.0	1651.	10958.
23	879.	8729.	0.	0.	8729.	2111.5	1506.	10235.
24	879.	8345.	0.	0.	8345.	2108.1	1636.	9981.
25	879.	7945.	0.	0.	7945.	2104.9	1618.	9563.
26	879.	7745.	0.	0.	7745.	2101.8	1824.	9569.
27	828.	7589.	0.	0.	7589.	2098.6	2192.	9781.
28	828.	7281.	0.	0.	7281.	2095.1	2128.	9409.
29	828.	6985.	0.	0.	6985.	2091.9	2160.	9145.
30	828.	6636.	0.	0.	6636.	2088.8	2233.	8869.
31	2519.	6304.	0.	0.	6304.	2086.8	4459.	10763.
32	3321.	6230.	0.	0.	6230.	2085.2	6812.	13042.
33	3882.	6541.	0.	0.	6541.	2083.8	7669.	14210.
34	11626.	6868.	0.	0.	6868.	2086.3	17176.	24044.
35	12771.	7211.	0.	0.	7211.	2089.3	18671.	25882.
36	17007.	7072.	0.	0.	7072.	2094.6	25685.	32757.
37	27727.	6862.	0.	0.	6862.	2104.8	40129.	46991.
38	30081.	6657.	0.	0.	6657.	2115.3	41900.	48557.
39	28168.	6408.	0.	0.	6408.	2125.1	46901.	53309.
40	29660.	6061.	0.	0.	6061.	2135.7	49548.	55609.
41	24776.	5954.	0.	0.	5954.	2144.2	54635.	60589.
42	19124.	7048.	0.	0.	7048.	2149.6	52013.	59061.
43	22869.	7006.	0.	0.	7006.	2155.7	45717.	52723.
44	20805.	7267.	0.	0.	7267.	2160.9	40249.	47516.
45	19270.	7370.	0.	0.	7370.	2165.4	38313.	45683.
46	19771.	7361.	0.	0.	7361.	2170.1	33848.	41209.
47	24039.	7468.	0.	0.	7468.	2176.4	28665.	36133.
48	34146.	7918.	0.	3571.	11489.	2185.0	30401.	41890.
49	17921.	8126.	0.	9795.	17921.	2185.0	27389.	45310.
50	13691.	8303.	0.	5388.	13691.	2185.0	30358.	44049.
51	11128.	8484.	0.	2644.	11128.	2185.0	23413.	34541.
52	8763.	8618.	0.	145.	8763.	2185.0	22338.	31101.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1956 1	6059.	8028.	0.	0.	8028.	2184.3	14609.	22637.
2	4461.	8027.	0.	0.	8027.	2182.9	11269.	19296.
3	3633.	8604.	0.	0.	8604.	2181.0	8195.	16799.
4	3129.	7639.	0.	0.	7639.	2179.3	6292.	13931.
5	2062.	8083.	0.	0.	8083.	2177.0	4125.	12208.
6	1721.	8591.	0.	0.	8591.	2174.4	3120.	11711.
7	1581.	9048.	0.	0.	9048.	2171.6	3355.	12403.
8	1393.	9537.	0.	0.	9537.	2168.5	3368.	12905.
9	1306.	10025.	0.	0.	10025.	2165.2	3180.	13205.
10	1027.	10657.	0.	0.	10657.	2161.5	2602.	13259.
11	1027.	10963.	0.	0.	10963.	2157.7	2621.	13584.
12	1027.	10587.	0.	0.	10587.	2154.1	2668.	13255.
13	1027.	9880.	0.	0.	9880.	2150.7	2880.	12760.
14	848.	9522.	0.	0.	9522.	2147.0	2446.	11968.
15	810.	9520.	0.	0.	9520.	2143.0	2227.	11747.
16	810.	9506.	0.	0.	9506.	2139.1	2034.	11540.
17	810.	9522.	0.	0.	9522.	2135.2	1973.	11495.
18	809.	9508.	0.	0.	9508.	2131.3	1896.	11404.
19	750.	9542.	0.	0.	9542.	2127.4	1822.	11364.
20	750.	9542.	0.	0.	9542.	2123.4	1986.	11528.
21	750.	9445.	0.	0.	9445.	2119.5	1800.	11245.
22	739.	9307.	0.	0.	9307.	2115.6	1866.	11173.
23	689.	8729.	0.	0.	8729.	2112.0	1880.	10609.
24	689.	8345.	0.	0.	8345.	2108.6	1898.	10243.
25	689.	7945.	0.	0.	7945.	2105.3	1851.	9796.
26	689.	7745.	0.	0.	7745.	2102.1	1841.	9586.
27	641.	7589.	0.	0.	7589.	2098.8	1808.	9397.
28	641.	7281.	0.	0.	7281.	2095.3	1764.	9045.
29	641.	6985.	0.	0.	6985.	2091.9	1869.	8854.
30	641.	6636.	0.	0.	6636.	2088.7	1695.	8331.
31	1798.	6304.	0.	0.	6304.	2086.3	3468.	9772.
32	8483.	6230.	0.	0.	6230.	2087.5	12624.	18854.
33	12106.	6541.	0.	0.	6541.	2090.5	16049.	22590.
34	24085.	6868.	0.	0.	6868.	2099.7	29217.	36085.
35	15966.	7211.	0.	0.	7211.	2103.6	30630.	37841.
36	27294.	7072.	0.	0.	7072.	2112.7	43052.	50124.
37	35522.	6862.	0.	0.	6862.	2125.6	57723.	64585.
38	26081.	7988.	0.	0.	7988.	2133.8	47694.	55682.
39	22994.	7690.	0.	0.	7690.	2140.7	45122.	52812.
40	24335.	7547.	0.	0.	7547.	2148.2	40103.	47650.
41	26536.	7433.	0.	0.	7433.	2155.7	45755.	53188.
42	26799.	7324.	0.	0.	7324.	2163.1	49326.	56650.
43	26153.	7263.	0.	0.	7263.	2170.3	48416.	55679.
44	24666.	7474.	0.	0.	7474.	2176.8	46047.	53521.
45	22447.	7425.	0.	0.	7425.	2182.5	39648.	47073.
46	20285.	7529.	0.	6301.	13830.	2185.0	33477.	47307.
47	16173.	7647.	0.	8526.	16173.	2185.0	28088.	44261.
48	13792.	7881.	0.	5911.	13792.	2185.0	23839.	37631.
49	11446.	8110.	0.	3336.	11446.	2185.0	26302.	37748.
50	16046.	8309.	0.	7737.	16046.	2185.0	31039.	47085.
51	15637.	8496.	0.	7141.	15637.	2185.0	36082.	51719.
52	10015.	8623.	0.	1392.	10015.	2185.0	24843.	34858.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONE ENVIRON. RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1957 1	5279.	8028.	0.	0.	8028.	2184.0	11983.	20011.
2	5279.	8027.	0.	0.	8027.	2182.9	10158.	18185.
3	3583.	8604.	0.	0.	8604.	2181.0	6794.	15398.
4	3300.	7639.	0.	0.	7639.	2179.4	6027.	13666.
5	2789.	8083.	0.	0.	8083.	2177.3	5693.	13776.
6	2342.	8591.	0.	0.	8591.	2175.0	4754.	13345.
7	2247.	9048.	0.	0.	9048.	2172.4	4196.	13244.
8	2123.	9537.	0.	0.	9537.	2169.6	3860.	13397.
9	2035.	10025.	0.	0.	10025.	2166.5	3651.	13676.
10	1908.	10657.	0.	0.	10657.	2163.2	2965.	13622.
11	1852.	10963.	0.	0.	10963.	2159.8	3113.	14076.
12	1509.	10587.	0.	0.	10587.	2156.3	3128.	13715.
13	1509.	9880.	0.	0.	9880.	2153.1	3230.	13110.
14	1399.	9522.	0.	0.	9522.	2150.0	2840.	12362.
15	1378.	9520.	0.	0.	9520.	2146.4	3000.	12520.
16	1378.	9506.	0.	0.	9506.	2142.7	2922.	12428.
17	1378.	9522.	0.	0.	9522.	2139.1	2916.	12438.
18	1310.	9508.	0.	0.	9508.	2135.4	2666.	12174.
19	1193.	9542.	0.	0.	9542.	2131.6	2385.	11927.
20	1193.	9542.	0.	0.	9542.	2127.9	2158.	11700.
21	1193.	9445.	0.	0.	9445.	2124.2	2160.	11605.
22	1079.	9307.	0.	0.	9307.	2120.5	2187.	11494.
23	920.	8729.	0.	0.	8729.	2116.9	2179.	10908.
24	920.	8345.	0.	0.	8345.	2113.6	2169.	10514.
25	920.	7945.	0.	0.	7945.	2110.4	2167.	10112.
26	920.	7745.	0.	0.	7745.	2107.4	2173.	9918.
27	837.	7589.	0.	0.	7589.	2104.3	2157.	9746.
28	837.	7281.	0.	0.	7281.	2101.4	2006.	9287.
29	837.	6985.	0.	0.	6985.	2098.4	2176.	9161.
30	837.	6636.	0.	0.	6636.	2095.3	2281.	8917.
31	2452.	6304.	0.	0.	6304.	2093.3	4833.	11137.
32	4269.	6230.	0.	0.	6230.	2092.2	8755.	14985.
33	6969.	6541.	0.	0.	6541.	2092.5	10940.	17481.
34	15611.	6868.	0.	0.	6868.	2097.1	21180.	28048.
35	23050.	7211.	0.	0.	7211.	2104.7	38054.	45265.
36	31747.	7072.	0.	0.	7072.	2115.8	41246.	48318.
37	28053.	6862.	0.	0.	6862.	2125.3	43172.	50034.
38	24892.	7988.	0.	0.	7988.	2132.9	45499.	53487.
39	17043.	7690.	0.	0.	7690.	2137.1	38014.	45704.
40	19864.	7273.	0.	0.	7273.	2142.8	40977.	48250.
41	18252.	7145.	0.	0.	7145.	2147.8	43099.	50244.
42	20463.	7048.	0.	0.	7048.	2153.2	44134.	51182.
43	22198.	7006.	0.	0.	7006.	2159.0	41802.	48808.
44	17659.	7267.	0.	0.	7267.	2163.0	38536.	45803.
45	17664.	7240.	0.	0.	7240.	2166.9	38024.	45264.
46	17568.	7361.	0.	0.	7361.	2170.8	44129.	51490.
47	16111.	7468.	0.	0.	7468.	2174.1	37294.	44762.
48	17804.	7750.	0.	0.	7750.	2177.9	27795.	35545.
49	14143.	8002.	0.	0.	8002.	2180.2	21196.	29198.
50	15435.	8214.	0.	0.	8214.	2183.0	21965.	30179.
51	15008.	8490.	0.	1173.	9664.	2185.0	19400.	29064.
52	14415.	8635.	0.	5780.	14415.	2185.0	20167.	34582.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1958 1	7628.	8028.	0.	0.	8028.	2184.8	13473.	21501.
2	6544.	8027.	0.	0.	8027.	2184.3	10508.	18535.
3	5337.	8604.	0.	0.	8604.	2183.0	8248.	16852.
4	5503.	9167.	0.	0.	9167.	2181.7	8373.	17540.
5	3997.	9700.	0.	0.	9700.	2179.5	6796.	16496.
6	3287.	10309.	0.	0.	10309.	2176.8	7048.	17357.
7	2815.	10858.	0.	0.	10858.	2173.8	5682.	16540.
8	2314.	11444.	0.	0.	11444.	2170.3	4818.	16262.
9	2637.	12030.	0.	0.	12030.	2166.7	5031.	17061.
10	2991.	12788.	0.	0.	12788.	2163.0	5156.	17944.
11	2551.	13156.	0.	0.	13156.	2159.0	4561.	17717.
12	1902.	12704.	0.	0.	12704.	2154.9	3920.	16624.
13	1544.	11856.	0.	0.	11856.	2151.0	3474.	15330.
14	1839.	11426.	0.	0.	11426.	2146.8	3091.	14517.
15	1614.	11424.	0.	0.	11424.	2142.4	2830.	14254.
16	1408.	11407.	0.	0.	11407.	2137.9	2453.	13860.
17	1332.	11426.	0.	0.	11426.	2133.4	2407.	13833.
18	1101.	11410.	0.	0.	11410.	2128.7	2262.	13672.
19	1152.	11450.	0.	0.	11450.	2124.1	2093.	13543.
20	1038.	11450.	0.	0.	11450.	2119.4	1994.	13444.
21	959.	11334.	0.	0.	11334.	2114.8	2111.	13445.
22	959.	11168.	0.	0.	11168.	2110.2	2283.	13451.
23	1024.	10475.	0.	0.	10475.	2105.9	2362.	12837.
24	1000.	8345.	0.	0.	8345.	2102.6	2470.	10815.
25	939.	7945.	0.	0.	7945.	2099.4	2302.	10247.
26	939.	7745.	0.	0.	7745.	2095.7	2147.	9892.
27	950.	7589.	0.	0.	7589.	2092.2	2385.	9974.
28	1063.	7281.	0.	0.	7281.	2088.9	2392.	9673.
29	1153.	6985.	0.	0.	6985.	2085.8	3195.	10180.
30	1398.	6636.	0.	0.	6636.	2083.0	4266.	10902.
31	3001.	6304.	0.	0.	6304.	2081.2	9051.	15355.
32	5917.	6230.	0.	0.	6230.	2081.1	25528.	31758.
33	8267.	6541.	0.	0.	6541.	2082.0	37177.	43718.
34	15742.	6868.	0.	0.	6868.	2086.7	47830.	54698.
35	16842.	7211.	0.	0.	7211.	2091.8	41810.	49021.
36	24642.	7072.	0.	0.	7072.	2101.0	38101.	45173.
37	24642.	6862.	0.	0.	6862.	2109.0	48101.	54963.
38	21247.	6657.	0.	0.	6657.	2115.6	38739.	45396.
39	19363.	6408.	0.	0.	6408.	2121.4	40701.	47109.
40	18442.	6061.	0.	0.	6061.	2127.0	38722.	44783.
41	18442.	5954.	0.	0.	5954.	2132.6	35652.	41606.
42	18442.	5873.	0.	0.	5873.	2138.2	38977.	44850.
43	18082.	5838.	0.	0.	5838.	2143.7	43654.	49492.
44	32829.	6056.	0.	0.	6056.	2154.9	61406.	67462.
45	23946.	6033.	0.	0.	6033.	2161.7	54567.	60600.
46	17783.	6340.	0.	0.	6340.	2166.0	56504.	62844.
47	14415.	6844.	0.	0.	6844.	2168.9	38591.	45435.
48	9969.	7412.	0.	0.	7412.	2169.9	29626.	37038.
49	6605.	6668.	0.	0.	6668.	2169.9	20862.	27530.
50	6605.	6845.	0.	0.	6845.	2169.8	25253.	32098.
51	5128.	7021.	0.	0.	7021.	2169.0	20369.	27390.
52	5129.	5536.	0.	0.	5536.	2168.9	20635.	26171.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONVEYER RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1959 1	4604.	5352.	0.	0.	5352.	2168.6	15467.	20819.
2	4050.	5351.	0.	0.	5351.	2168.1	12944.	18295.
3	3875.	5736.	0.	0.	5736.	2167.4	10375.	16111.
4	2689.	6111.	0.	0.	6111.	2166.1	7103.	13214.
5	2392.	6466.	0.	0.	6466.	2164.5	5318.	11784.
6	2068.	6873.	0.	0.	6873.	2162.7	4971.	11844.
7	1760.	7238.	0.	0.	7238.	2160.6	4247.	11485.
8	1352.	7630.	0.	0.	7630.	2158.2	3273.	10903.
9	1215.	8020.	0.	0.	8020.	2155.7	2971.	10991.
10	797.	8526.	0.	0.	8526.	2152.7	2362.	10888.
11	879.	8770.	0.	0.	8770.	2149.7	2194.	10964.
12	1375.	8470.	0.	0.	8470.	2146.5	2845.	11315.
13	1375.	7904.	0.	0.	7904.	2143.5	2768.	10672.
14	1150.	7618.	0.	0.	7618.	2140.6	2589.	10207.
15	1109.	7616.	0.	0.	7616.	2137.7	2586.	10202.
16	1056.	7605.	0.	0.	7605.	2134.8	2401.	10006.
17	1035.	7618.	0.	0.	7618.	2131.8	2449.	10067.
18	1051.	7606.	0.	0.	7606.	2128.9	2407.	10013.
19	1027.	9542.	0.	0.	9542.	2125.0	2328.	11870.
20	984.	9542.	0.	0.	9542.	2121.2	2010.	11552.
21	879.	9445.	0.	0.	9445.	2117.3	1955.	11400.
22	797.	9307.	0.	0.	9307.	2113.5	1896.	11203.
23	683.	8729.	0.	0.	8729.	2109.9	1793.	10522.
24	683.	8345.	0.	0.	8345.	2106.4	1862.	10207.
25	683.	7945.	0.	0.	7945.	2103.2	2009.	9954.
26	683.	7745.	0.	0.	7745.	2100.0	2059.	9804.
27	666.	7589.	0.	0.	7589.	2096.3	2132.	9721.
28	666.	7281.	0.	0.	7281.	2092.8	2242.	9523.
29	952.	6985.	0.	0.	6985.	2089.6	2937.	9922.
30	999.	6636.	0.	0.	6636.	2086.6	3893.	10529.
31	1801.	6304.	0.	0.	6304.	2084.2	5672.	11976.
32	2951.	6230.	0.	0.	6230.	2082.4	10317.	16547.
33	12604.	6541.	0.	0.	6541.	2085.7	30853.	37394.
34	17856.	6868.	0.	0.	6868.	2091.5	32035.	38903.
35	14298.	7211.	0.	0.	7211.	2095.3	30300.	37511.
36	20496.	7072.	0.	0.	7072.	2102.1	29799.	36871.
37	15311.	6862.	0.	0.	6862.	2105.9	24326.	31188.
38	18247.	6657.	0.	0.	6657.	2111.1	32913.	39570.
39	20418.	6408.	0.	0.	6408.	2117.4	43471.	49879.
40	21688.	6061.	0.	0.	6061.	2124.4	38936.	44997.
41	20819.	5954.	0.	0.	5954.	2131.1	39095.	45049.
42	22556.	5873.	0.	0.	5873.	2138.6	42930.	48803.
43	17816.	5838.	0.	0.	5838.	2144.0	38627.	44465.
44	18373.	6056.	0.	0.	6056.	2149.5	40675.	46731.
45	14392.	6033.	0.	0.	6033.	2152.8	36842.	42875.
46	18474.	6134.	0.	0.	6134.	2157.4	46339.	52473.
47	34121.	6223.	0.	0.	6223.	2168.0	76878.	83101.
48	33290.	6458.	0.	0.	6458.	2178.2	54346.	60804.
49	20953.	6668.	0.	0.	6668.	2183.7	36269.	42937.
50	10824.	7308.	0.	0.	7308.	2185.0	23636.	30944.
51	8131.	8425.	0.	0.	8425.	2184.9	15861.	24286.
52	7669.	8304.	0.	0.	8304.	2184.6	12478.	20782.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1960 1	8534.	8028.	0.	0.	8028.	2184.8	14697.	22725.
2	5896.	8027.	0.	0.	8027.	2184.0	10965.	18992.
3	3243.	8604.	0.	0.	8604.	2182.0	6715.	15319.
4	4051.	7639.	0.	0.	7639.	2180.6	7254.	14893.
5	2692.	8083.	0.	0.	8083.	2178.5	5910.	13993.
6	2292.	8591.	0.	0.	8591.	2176.2	4799.	13390.
7	2194.	9048.	0.	0.	9048.	2173.6	4430.	13478.
8	2064.	9537.	0.	0.	9537.	2170.7	4089.	13626.
9	1962.	10025.	0.	0.	10025.	2167.6	4031.	14056.
10	1656.	10657.	0.	0.	10657.	2164.2	3385.	14042.
11	1656.	10963.	0.	0.	10963.	2160.7	3382.	14345.
12	1656.	10587.	0.	0.	10587.	2157.3	3228.	13815.
13	1656.	9880.	0.	0.	9880.	2154.2	3191.	13071.
14	1541.	9522.	0.	0.	9522.	2151.1	2651.	12173.
15	1523.	9520.	0.	0.	9520.	2147.8	2885.	12405.
16	1360.	9506.	0.	0.	9506.	2144.1	2661.	12167.
17	1295.	9522.	0.	0.	9522.	2140.4	2524.	12046.
18	1227.	9508.	0.	0.	9508.	2136.7	2371.	11879.
19	1175.	9542.	0.	0.	9542.	2132.9	2208.	11750.
20	1152.	9542.	0.	0.	9542.	2129.1	2125.	11667.
21	1097.	9445.	0.	0.	9445.	2125.4	1922.	11367.
22	1062.	9307.	0.	0.	9307.	2121.7	1885.	11192.
23	1041.	8729.	0.	0.	8729.	2118.2	1885.	10614.
24	996.	8345.	0.	0.	8345.	2114.9	1775.	10120.
25	882.	7945.	0.	0.	7945.	2111.7	1665.	9610.
26	882.	7745.	0.	0.	7745.	2108.6	1668.	9413.
27	694.	7589.	0.	0.	7589.	2105.5	1799.	9388.
28	694.	7281.	0.	0.	7281.	2102.6	1796.	9077.
29	910.	6985.	0.	0.	6985.	2099.8	2123.	9108.
30	945.	6636.	0.	0.	6636.	2096.8	2220.	8856.
31	4703.	6304.	0.	0.	6304.	2095.9	5131.	11435.
32	6668.	6230.	0.	0.	6230.	2096.2	10188.	16418.
33	12886.	6541.	0.	0.	6541.	2099.6	17629.	24170.
34	20055.	6868.	0.	0.	6868.	2105.6	31931.	38799.
35	20716.	7211.	0.	0.	7211.	2111.6	37595.	44806.
36	11838.	8486.	0.	0.	8486.	2113.1	23261.	31747.
37	12275.	8234.	0.	0.	8234.	2115.0	25305.	33539.
38	12710.	6657.	0.	0.	6657.	2117.7	28993.	35650.
39	13971.	6408.	0.	0.	6408.	2121.1	32797.	39205.
40	19936.	6061.	0.	0.	6061.	2127.3	37223.	43284.
41	14780.	6780.	0.	0.	6780.	2130.9	31094.	37874.
42	17003.	6446.	0.	0.	6446.	2135.7	33162.	39608.
43	23312.	5838.	0.	0.	5838.	2143.5	43738.	49576.
44	26487.	6056.	0.	0.	6056.	2152.3	50989.	57045.
45	20467.	6033.	0.	0.	6033.	2157.8	48394.	54427.
46	18086.	6134.	0.	0.	6134.	2162.3	40566.	46700.
47	17477.	6223.	0.	0.	6223.	2166.6	33140.	39363.
48	16811.	6458.	0.	0.	6458.	2170.5	26696.	33154.
49	14281.	6668.	0.	0.	6668.	2173.4	18138.	24806.
50	22570.	6845.	0.	0.	6845.	2179.4	33966.	40811.
51	15996.	7021.	0.	0.	7021.	2182.8	26562.	33583.
52	11980.	6920.	0.	0.	6920.	2185.0	23213.	30133.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1961 1	9778.	9128.	0.	629.	9756.	2185.0	17499.	27255.
2	7102.	8027.	0.	0.	8027.	2184.6	12277.	20304.
3	5050.	8604.	0.	0.	8604.	2183.3	9302.	17906.
4	3678.	9167.	0.	0.	9167.	2181.2	6875.	16042.
5	2753.	8083.	0.	0.	8083.	2179.2	4970.	13053.
6	2516.	8591.	0.	0.	8591.	2176.9	4678.	13269.
7	2319.	9048.	0.	0.	9048.	2174.3	4406.	13454.
8	2058.	9537.	0.	0.	9537.	2171.5	3743.	13280.
9	2118.	10025.	0.	0.	10025.	2168.5	3749.	13774.
10	2126.	12788.	0.	0.	12788.	2164.4	4051.	16839.
11	2085.	13156.	0.	0.	13156.	2160.2	3932.	17088.
12	1833.	12704.	0.	0.	12704.	2156.1	3557.	16261.
13	1833.	11856.	0.	0.	11856.	2152.3	3650.	15506.
14	1776.	11426.	0.	0.	11426.	2148.4	3348.	14774.
15	1773.	11424.	0.	0.	11424.	2144.0	3113.	14537.
16	1825.	11407.	0.	0.	11407.	2139.7	3199.	14606.
17	1846.	11426.	0.	0.	11426.	2135.4	3226.	14652.
18	1601.	11410.	0.	0.	11410.	2131.0	2879.	14289.
19	1317.	11450.	0.	0.	11450.	2126.4	2408.	13858.
20	1297.	11450.	0.	0.	11450.	2121.9	2361.	13811.
21	1246.	11334.	0.	0.	11334.	2117.3	2346.	13680.
22	1181.	11168.	0.	0.	11168.	2112.8	2288.	13456.
23	1097.	10475.	0.	0.	10475.	2108.6	2080.	12555.
24	1222.	10014.	0.	0.	10014.	2104.7	2184.	12198.
25	1535.	9534.	0.	0.	9534.	2101.1	2466.	12000.
26	1535.	9294.	0.	0.	9294.	2097.1	2365.	11659.
27	1617.	9107.	0.	0.	9107.	2093.2	3106.	12213.
28	1617.	8737.	0.	0.	8737.	2089.4	3238.	11975.
29	1783.	8382.	0.	0.	8382.	2085.8	3468.	11850.
30	1811.	7963.	0.	0.	7963.	2082.6	3760.	11723.
31	5580.	7565.	0.	0.	7565.	2081.5	5944.	13509.
32	10306.	6230.	0.	0.	6230.	2083.7	13644.	19874.
33	17834.	6541.	0.	0.	6541.	2089.7	21876.	28417.
34	16989.	6868.	0.	0.	6868.	2095.1	21494.	28362.
35	15795.	7211.	0.	0.	7211.	2099.7	22992.	30203.
36	14578.	7072.	0.	0.	7072.	2103.1	23747.	30819.
37	23810.	6862.	0.	0.	6862.	2110.7	40107.	46969.
38	29749.	6657.	0.	0.	6657.	2121.1	46464.	53121.
39	24996.	6408.	0.	0.	6408.	2129.5	43500.	49908.
40	18341.	6061.	0.	0.	6061.	2135.0	39541.	45602.
41	19253.	5954.	0.	0.	5954.	2141.0	37442.	43396.
42	19937.	5873.	0.	0.	5873.	2147.3	41511.	47384.
43	20655.	5838.	0.	0.	5838.	2153.3	48928.	54766.
44	22581.	6056.	0.	0.	6056.	2159.6	44103.	50159.
45	23083.	6083.	0.	0.	6083.	2166.1	47541.	53624.
46	19710.	6510.	0.	0.	6510.	2171.1	33742.	40252.
47	18708.	6637.	0.	0.	6637.	2175.7	40425.	47062.
48	13842.	7185.	0.	0.	7185.	2178.2	26079.	33264.
49	9309.	6668.	0.	0.	6668.	2179.2	24183.	30851.
50	10560.	6845.	0.	0.	6845.	2180.6	31788.	38633.
51	10059.	7021.	0.	0.	7021.	2181.8	23046.	30067.
52	10131.	6920.	0.	0.	6920.	2183.2	21266.	28186.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1962 1	8304.	6690.	0.	0.	6690.	2183.8	17683.	24373.
2	3663.	6689.	0.	0.	6689.	2182.6	9417.	16106.
3	3663.	7170.	0.	0.	7170.	2181.3	8541.	15711.
4	3663.	7639.	0.	0.	7639.	2179.8	7709.	15348.
5	2910.	8083.	0.	0.	8083.	2177.8	6054.	14137.
6	2187.	8591.	0.	0.	8591.	2175.4	5165.	13756.
7	2187.	9048.	0.	0.	9048.	2172.8	4625.	13673.
8	2187.	9537.	0.	0.	9537.	2170.0	4124.	13661.
9	2067.	10025.	0.	0.	10025.	2167.0	3807.	13832.
10	1742.	10657.	0.	0.	10657.	2163.6	3127.	13784.
11	1742.	10963.	0.	0.	10963.	2160.1	3094.	14057.
12	1742.	10587.	0.	0.	10587.	2156.7	3075.	13662.
13	1742.	9880.	0.	0.	9880.	2153.6	3068.	12948.
14	1645.	9522.	0.	0.	9522.	2150.6	2648.	12170.
15	1626.	9520.	0.	0.	9520.	2147.2	2529.	12049.
16	1626.	9506.	0.	0.	9506.	2143.7	2533.	12039.
17	1626.	9522.	0.	0.	9522.	2140.1	2546.	12068.
18	1462.	9508.	0.	0.	9508.	2136.5	2296.	11804.
19	1237.	9542.	0.	0.	9542.	2132.7	2055.	11597.
20	1237.	9542.	0.	0.	9542.	2129.0	1986.	11528.
21	1237.	9445.	0.	0.	9445.	2125.3	1990.	11435.
22	1207.	9307.	0.	0.	9307.	2121.7	1877.	11184.
23	1174.	8729.	0.	0.	8729.	2118.3	1818.	10547.
24	1174.	8345.	0.	0.	8345.	2115.1	1765.	10110.
25	1174.	7945.	0.	0.	7945.	2112.0	1724.	9669.
26	1174.	7745.	0.	0.	7745.	2109.1	1744.	9489.
27	1335.	7589.	0.	0.	7589.	2106.2	1958.	9547.
28	1335.	7281.	0.	0.	7281.	2103.6	2015.	9296.
29	1335.	6985.	0.	0.	6985.	2101.0	2487.	9472.
30	1335.	6636.	0.	0.	6636.	2098.4	2613.	9249.
31	3165.	6304.	0.	0.	6304.	2096.7	4370.	10674.
32	3896.	6230.	0.	0.	6230.	2095.5	5332.	11562.
33	10571.	6541.	0.	0.	6541.	2097.6	11427.	17968.
34	15580.	6868.	0.	0.	6868.	2101.9	21233.	28101.
35	25042.	7211.	0.	0.	7211.	2109.9	32006.	39217.
36	25502.	7072.	0.	0.	7072.	2118.2	29096.	36168.
37	49464.	8234.	0.	0.	8234.	2136.8	51443.	59677.
38	42296.	7996.	0.	0.	7996.	2151.8	50603.	58599.
39	29941.	7713.	0.	0.	7713.	2160.3	45147.	52860.
40	24659.	7355.	0.	0.	7355.	2166.9	40140.	47495.
41	24076.	7258.	0.	0.	7258.	2173.3	40660.	47918.
42	20979.	7169.	0.	0.	7169.	2178.5	41706.	48875.
43	24659.	7125.	0.	426.	7551.	2185.0	48219.	55770.
44	22051.	7403.	0.	14648.	22051.	2185.0	50919.	72970.
45	19487.	7407.	0.	12080.	19487.	2185.0	36147.	55634.
46	19487.	7531.	0.	11956.	19487.	2185.0	31877.	51364.
47	19487.	7655.	0.	11832.	19487.	2185.0	29774.	49261.
48	19844.	7896.	0.	11948.	19844.	2185.0	36863.	56707.
49	18961.	8129.	0.	10832.	18961.	2185.0	34510.	53471.
50	11972.	8299.	0.	3673.	11972.	2185.0	18990.	30962.
51	9699.	8480.	0.	1219.	9699.	2185.0	14303.	24002.
52	9763.	8622.	0.	1141.	9763.	2185.0	15270.	25033.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONVEYER RELEASE	VALVE RELEASE				
1963 1	7677.	8028.	0.	0.	8028.	2184.9	10865.	18893.
2	5846.	8027.	0.	0.	8027.	2184.0	7778.	15805.
3	5094.	8604.	0.	0.	8604.	2182.7	6200.	14804.
4	4603.	9167.	0.	0.	9167.	2181.0	5160.	14327.
5	3273.	8083.	0.	0.	8083.	2179.1	3760.	11843.
6	2427.	8591.	0.	0.	8591.	2176.8	3373.	11964.
7	2427.	9048.	0.	0.	9048.	2174.3	3166.	12214.
8	2427.	9537.	0.	0.	9537.	2171.6	2950.	12487.
9	2243.	10025.	0.	0.	10025.	2168.6	3043.	13068.
10	1684.	12788.	0.	0.	12788.	2164.4	3051.	15839.
11	1684.	13156.	0.	0.	13156.	2160.1	2965.	16121.
12	1684.	12704.	0.	0.	12704.	2155.9	3137.	15841.
13	1684.	11856.	0.	0.	11856.	2152.0	2960.	14816.
14	1346.	11426.	0.	0.	11426.	2147.8	2835.	14261.
15	1303.	11424.	0.	0.	11424.	2143.3	2715.	14139.
16	1303.	11407.	0.	0.	11407.	2138.7	2667.	14074.
17	1303.	11426.	0.	0.	11426.	2134.2	2613.	14039.
18	1284.	11410.	0.	0.	11410.	2129.6	2343.	13753.
19	1203.	11450.	0.	0.	11450.	2125.0	2193.	13643.
20	1203.	11450.	0.	0.	11450.	2120.4	2180.	13630.
21	1203.	11334.	0.	0.	11334.	2115.9	2160.	13494.
22	1015.	11168.	0.	0.	11168.	2111.3	1940.	13108.
23	870.	10475.	0.	0.	10475.	2107.0	1488.	11963.
24	870.	10014.	0.	0.	10014.	2102.9	1449.	11463.
25	870.	9534.	0.	0.	9534.	2098.8	1302.	10836.
26	870.	7745.	0.	0.	7745.	2095.1	1366.	9111.
27	680.	7589.	0.	0.	7589.	2091.4	1322.	8911.
28	680.	7281.	0.	0.	7281.	2087.9	1326.	8607.
29	680.	6985.	0.	0.	6985.	2084.6	1376.	8361.
30	680.	6636.	0.	0.	6636.	2081.4	1350.	7986.
31	2138.	6304.	0.	0.	6304.	2079.2	3024.	9328.
32	2871.	6230.	0.	0.	6230.	2077.4	3777.	10007.
33	16185.	6541.	0.	0.	6541.	2082.5	18352.	24893.
34	26173.	6868.	0.	0.	6868.	2092.8	30410.	37278.
35	29395.	7211.	0.	0.	7211.	2103.9	44468.	51679.
36	20039.	7072.	0.	0.	7072.	2109.7	31682.	38754.
37	20039.	6862.	0.	0.	6862.	2115.7	30281.	37143.
38	20039.	6657.	0.	0.	6657.	2121.7	31670.	38327.
39	20039.	6408.	0.	0.	6408.	2127.8	38603.	45011.
40	25591.	6061.	0.	0.	6061.	2136.6	48371.	54432.
41	33081.	7145.	0.	0.	7145.	2148.3	61037.	68182.
42	31343.	7048.	0.	0.	7048.	2157.8	62213.	69261.
43	26765.	7313.	0.	0.	7313.	2165.1	44987.	52300.
44	24772.	7524.	0.	0.	7524.	2171.7	34649.	42173.
45	22882.	7474.	0.	0.	7474.	2177.5	28645.	36119.
46	19853.	7548.	0.	0.	7548.	2182.2	29573.	37121.
47	20996.	7654.	0.	6028.	13682.	2185.0	31152.	44834.
48	17689.	7891.	0.	9798.	17689.	2185.0	27270.	44959.
49	13124.	8114.	0.	5010.	13124.	2185.0	21058.	34182.
50	11736.	8298.	0.	3438.	11736.	2185.0	18146.	29882.
51	9384.	8478.	0.	906.	9384.	2185.0	14253.	23637.
52	8325.	8618.	0.	0.	8618.	2184.9	17403.	26021.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1964 1	7204.	8028.	0.	0.	8028.	2184.6	15419.	23447.
2	6067.	8027.	0.	0.	8027.	2183.8	13672.	21699.
3	4963.	8604.	0.	0.	8604.	2182.4	11147.	19751.
4	3760.	9167.	0.	0.	9167.	2180.4	7158.	16325.
5	2277.	8083.	0.	0.	8083.	2178.2	5678.	13761.
6	2037.	8591.	0.	0.	8591.	2175.7	4880.	13471.
7	1803.	9048.	0.	0.	9048.	2172.9	3950.	12998.
8	1489.	9537.	0.	0.	9537.	2169.9	2842.	12379.
9	1454.	10025.	0.	0.	10025.	2166.6	2703.	12728.
10	1358.	10657.	0.	0.	10657.	2163.1	2167.	12824.
11	1311.	10963.	0.	0.	10963.	2159.4	2138.	13101.
12	1038.	10587.	0.	0.	10587.	2155.8	1993.	12580.
13	1038.	9880.	0.	0.	9880.	2152.4	1993.	11873.
14	913.	9522.	0.	0.	9522.	2149.0	2023.	11545.
15	888.	9520.	0.	0.	9520.	2145.1	2037.	11557.
16	830.	9506.	0.	0.	9506.	2141.2	1864.	11370.
17	807.	9522.	0.	0.	9522.	2137.3	1773.	11295.
18	816.	9508.	0.	0.	9508.	2133.4	1680.	11188.
19	818.	9542.	0.	0.	9542.	2129.5	1601.	11143.
20	802.	9542.	0.	0.	9542.	2125.5	1585.	11127.
21	760.	9445.	0.	0.	9445.	2121.6	1551.	10996.
22	696.	9307.	0.	0.	9307.	2117.8	1483.	10790.
23	612.	8729.	0.	0.	8729.	2114.1	1396.	10125.
24	588.	8345.	0.	0.	8345.	2110.6	1402.	9747.
25	524.	7945.	0.	0.	7945.	2107.3	1375.	9320.
26	524.	7745.	0.	0.	7745.	2104.0	1379.	9124.
27	588.	7589.	0.	0.	7589.	2100.9	1533.	9122.
28	588.	7281.	0.	0.	7281.	2097.5	1786.	9067.
29	637.	6985.	0.	0.	6985.	2094.1	1930.	8915.
30	646.	6636.	0.	0.	6636.	2090.9	2094.	8730.
31	524.	6304.	0.	0.	6304.	2087.8	2611.	8915.
32	521.	6230.	0.	0.	6230.	2084.8	3417.	9647.
33	699.	6541.	0.	0.	6541.	2081.7	4566.	11107.
34	1548.	6868.	0.	0.	6868.	2078.9	9218.	16086.
35	17791.	7211.	0.	0.	7211.	2084.5	45163.	52374.
36	66753.	7072.	0.	0.	7072.	2113.7	92638.	99710.
37	45845.	6862.	0.	0.	6862.	2131.3	75475.	82337.
38	38257.	7988.	0.	0.	7988.	2144.9	70279.	78267.
39	27669.	7785.	0.	0.	7785.	2153.2	62891.	70676.
40	22261.	7428.	0.	0.	7428.	2158.9	41724.	49152.
41	22938.	7336.	0.	0.	7336.	2164.8	47070.	54406.
42	21646.	7246.	0.	0.	7246.	2170.3	46839.	54085.
43	14854.	7216.	0.	0.	7216.	2173.2	34954.	42170.
44	16893.	7460.	0.	0.	7460.	2176.8	40811.	48271.
45	15985.	7438.	0.	0.	7438.	2180.0	32215.	39653.
46	12889.	7537.	0.	0.	7537.	2182.0	31847.	39384.
47	13741.	7641.	0.	0.	7641.	2184.3	33235.	40876.
48	11603.	7874.	0.	2013.	9887.	2185.0	23837.	33724.
49	8901.	8102.	0.	799.	8901.	2185.0	19668.	28569.
50	7255.	8289.	0.	0.	8289.	2184.6	15007.	23296.
51	7294.	8481.	0.	0.	8481.	2184.2	14152.	22633.
52	6247.	8633.	0.	0.	8633.	2183.1	15921.	24554.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON- RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1965 1	5814.	8028.	0.	0.	8028.	2182.3	12096.	20124.
2	6506.	6689.	0.	0.	6689.	2182.2	16404.	23093.
3	4258.	7170.	0.	0.	7170.	2181.1	9031.	16201.
4	3387.	7639.	0.	0.	7639.	2179.5	7486.	15125.
5	2593.	8083.	0.	0.	8083.	2177.4	5746.	13829.
6	2408.	8591.	0.	0.	8591.	2175.1	5373.	13964.
7	2383.	9048.	0.	0.	9048.	2172.5	5227.	14275.
8	2656.	9537.	0.	0.	9537.	2169.9	5180.	14717.
9	1708.	10025.	0.	0.	10025.	2166.7	4625.	14650.
10	1175.	10657.	0.	0.	10657.	2163.1	3550.	14207.
11	1047.	10963.	0.	0.	10963.	2159.4	3524.	14487.
12	952.	10587.	0.	0.	10587.	2155.7	3504.	14091.
13	952.	9880.	0.	0.	9880.	2152.3	3504.	13384.
14	880.	9522.	0.	0.	9522.	2148.9	2662.	12184.
15	866.	9520.	0.	0.	9520.	2145.0	2525.	12045.
16	866.	9506.	0.	0.	9506.	2141.1	2525.	12031.
17	866.	9522.	0.	0.	9522.	2137.2	2525.	12047.
18	821.	9508.	0.	0.	9508.	2133.3	2392.	11900.
19	764.	9542.	0.	0.	9542.	2129.3	2214.	11756.
20	764.	9542.	0.	0.	9542.	2125.4	2214.	11756.
21	764.	9445.	0.	0.	9445.	2121.5	2214.	11659.
22	785.	9307.	0.	0.	9307.	2117.7	2131.	11438.
23	809.	8729.	0.	0.	8729.	2114.1	2024.	10753.
24	809.	8345.	0.	0.	8345.	2110.7	2024.	10369.
25	809.	7945.	0.	0.	7945.	2107.5	2024.	9969.
26	809.	7745.	0.	0.	7745.	2104.4	2024.	9769.
27	1050.	7589.	0.	0.	7589.	2101.4	2217.	9806.
28	1050.	7281.	0.	0.	7281.	2098.4	2217.	9498.
29	1324.	6985.	0.	0.	6985.	2095.4	2263.	9248.
30	1370.	6636.	0.	0.	6636.	2092.6	2269.	8905.
31	1702.	6304.	0.	0.	6304.	2090.1	3591.	9895.
32	4582.	6230.	0.	0.	6230.	2089.2	4753.	10983.
33	7973.	6541.	0.	0.	6541.	2090.0	12084.	18625.
34	14365.	6868.	0.	0.	6868.	2094.0	19852.	26720.
35	28598.	7211.	0.	0.	7211.	2104.5	33426.	40637.
36	18020.	7072.	0.	0.	7072.	2109.5	30825.	37897.
37	19249.	6862.	0.	0.	6862.	2115.0	34552.	41414.
38	18396.	6657.	0.	0.	6657.	2120.3	41270.	47927.
39	27076.	6408.	0.	0.	6408.	2129.6	42269.	48677.
40	25264.	6061.	0.	0.	6061.	2138.3	38593.	44654.
41	25478.	7145.	0.	0.	7145.	2146.5	47826.	54971.
42	23730.	7048.	0.	0.	7048.	2153.4	45289.	52337.
43	20581.	7006.	0.	0.	7006.	2158.5	38532.	45538.
44	18313.	7267.	0.	0.	7267.	2162.7	40508.	47775.
45	16343.	7240.	0.	0.	7240.	2166.2	38705.	45945.
46	25247.	7361.	0.	0.	7361.	2173.0	56432.	63793.
47	16925.	7468.	0.	0.	7468.	2176.6	36336.	43804.
48	9394.	7750.	0.	0.	7750.	2177.2	20928.	28678.
49	14093.	8002.	0.	0.	8002.	2179.5	33133.	41135.
50	17314.	8214.	0.	0.	8214.	2183.0	35587.	43801.
51	15844.	8493.	0.	2013.	10506.	2185.0	32546.	43052.
52	18328.	8646.	0.	9682.	18328.	2185.0	50841.	69169.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1966 1	10948.	9132.	0.	1816.	10948.	2185.0	22239.	33187.
2	6087.	8027.	0.	0.	8027.	2184.3	17307.	25334.
3	2852.	8604.	0.	0.	8604.	2182.1	8883.	17487.
4	2359.	9167.	0.	0.	9167.	2179.5	6843.	16010.
5	2043.	8083.	0.	0.	8083.	2177.2	5241.	13324.
6	1676.	8591.	0.	0.	8591.	2174.6	4115.	12706.
7	1481.	9048.	0.	0.	9048.	2171.7	3737.	12785.
8	1412.	9537.	0.	0.	9537.	2168.6	3474.	13011.
9	1361.	10025.	0.	0.	10025.	2165.3	3207.	13232.
10	1265.	10657.	0.	0.	10657.	2161.8	2885.	13542.
11	1223.	10963.	0.	0.	10963.	2158.1	2813.	13776.
12	1174.	10587.	0.	0.	10587.	2154.5	2738.	13325.
13	1129.	9880.	0.	0.	9880.	2151.2	2665.	12545.
14	1075.	9522.	0.	0.	9522.	2147.6	2444.	11966.
15	1062.	9520.	0.	0.	9520.	2143.8	2391.	11911.
16	1062.	9506.	0.	0.	9506.	2140.0	2359.	11865.
17	1062.	9522.	0.	0.	9522.	2136.2	2326.	11848.
18	1025.	9508.	0.	0.	9508.	2132.3	2233.	11741.
19	980.	9542.	0.	0.	9542.	2128.5	2102.	11644.
20	980.	9542.	0.	0.	9542.	2124.6	2046.	11588.
21	980.	9445.	0.	0.	9445.	2120.8	1995.	11440.
22	983.	9307.	0.	0.	9307.	2117.1	1943.	11250.
23	985.	8729.	0.	0.	8729.	2113.6	1909.	10638.
24	985.	8345.	0.	0.	8345.	2110.3	1900.	10245.
25	985.	7945.	0.	0.	7945.	2107.2	1900.	9845.
26	985.	7745.	0.	0.	7745.	2104.1	1903.	9648.
27	1091.	7589.	0.	0.	7589.	2101.2	2217.	9806.
28	1091.	7281.	0.	0.	7281.	2098.1	2217.	9498.
29	1432.	6985.	0.	0.	6985.	2095.2	2378.	9363.
30	1490.	6636.	0.	0.	6636.	2092.4	2439.	9075.
31	2210.	6304.	0.	0.	6304.	2090.3	3451.	9755.
32	2873.	6230.	0.	0.	6230.	2088.5	4491.	10721.
33	5322.	6541.	0.	0.	6541.	2087.8	8421.	14962.
34	10202.	6868.	0.	0.	6868.	2089.6	13093.	19961.
35	16017.	7211.	0.	0.	7211.	2094.3	19634.	26845.
36	37660.	7072.	0.	0.	7072.	2108.9	55170.	62242.
37	26954.	6862.	0.	0.	6862.	2118.0	46465.	53327.
38	22768.	6657.	0.	0.	6657.	2125.2	42088.	48745.
39	19214.	6408.	0.	0.	6408.	2131.0	37759.	44167.
40	15178.	7273.	0.	0.	7273.	2134.5	30682.	37955.
41	14458.	7145.	0.	0.	7145.	2137.8	36603.	43748.
42	15132.	5873.	0.	0.	5873.	2142.0	39860.	45733.
43	17122.	5838.	0.	0.	5838.	2147.1	45646.	51484.
44	22511.	6056.	0.	0.	6056.	2153.8	54042.	60098.
45	18320.	6033.	0.	0.	6033.	2158.4	44377.	50410.
46	15064.	6134.	0.	0.	6134.	2161.8	39072.	45206.
47	18252.	6223.	0.	0.	6223.	2166.4	51691.	57914.
48	14606.	6458.	0.	0.	6458.	2169.5	35324.	41782.
49	10023.	6668.	0.	0.	6668.	2170.8	23411.	30079.
50	9733.	6845.	0.	0.	6845.	2171.9	23073.	29918.
51	9623.	7021.	0.	0.	7021.	2172.8	21755.	28776.
52	7019.	6920.	0.	0.	6920.	2172.9	15952.	22872.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE (CFS)	TOTAL FLOW SUNSHINE (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1967 1	5525.	6690.	0.	0.	6690.	2172.4	13701.	20391.
2	3705.	6689.	0.	0.	6689.	2171.3	9741.	16430.
3	2802.	7170.	0.	0.	7170.	2169.7	7156.	14326.
4	1896.	7639.	0.	0.	7639.	2167.5	4662.	12301.
5	1290.	6466.	0.	0.	6466.	2165.5	3614.	10080.
6	1192.	6873.	0.	0.	6873.	2163.3	3232.	10105.
7	1192.	7238.	0.	0.	7238.	2161.0	3099.	10337.
8	1192.	7630.	0.	0.	7630.	2158.6	2995.	10625.
9	1173.	8020.	0.	0.	8020.	2156.0	2895.	10915.
10	1119.	8526.	0.	0.	8526.	2153.2	2810.	11336.
11	1119.	8770.	0.	0.	8770.	2150.3	2765.	11535.
12	1119.	8470.	0.	0.	8470.	2147.0	2744.	11214.
13	1119.	7904.	0.	0.	7904.	2144.0	2706.	10610.
14	1105.	7618.	0.	0.	7618.	2141.0	2713.	10331.
15	1106.	7616.	0.	0.	7616.	2138.1	2668.	10284.
16	1106.	7605.	0.	0.	7605.	2135.2	2623.	10228.
17	1106.	7618.	0.	0.	7618.	2132.3	2513.	10131.
18	1077.	7606.	0.	0.	7606.	2129.3	2467.	10073.
19	1037.	9542.	0.	0.	9542.	2125.5	2353.	11895.
20	1037.	9542.	0.	0.	9542.	2121.7	2293.	11835.
21	1037.	9445.	0.	0.	9445.	2117.9	2183.	11628.
22	965.	9307.	0.	0.	9307.	2114.1	2151.	11458.
23	882.	8729.	0.	0.	8729.	2110.6	2010.	10739.
24	882.	8345.	0.	0.	8345.	2107.3	1916.	10261.
25	882.	7945.	0.	0.	7945.	2104.1	1865.	9810.
26	882.	7745.	0.	0.	7745.	2101.0	1833.	9578.
27	771.	7589.	0.	0.	7589.	2097.6	1759.	9348.
28	771.	7281.	0.	0.	7281.	2094.1	1731.	9012.
29	790.	6985.	0.	0.	6985.	2090.8	1742.	8727.
30	910.	6636.	0.	0.	6636.	2087.7	1956.	8592.
31	1409.	6304.	0.	0.	6304.	2085.1	3191.	9495.
32	4044.	6230.	0.	0.	6230.	2084.0	9130.	15360.
33	14066.	6541.	0.	0.	6541.	2088.0	23576.	30117.
34	19680.	6868.	0.	0.	6868.	2094.8	29702.	36570.
35	23533.	7211.	0.	0.	7211.	2102.9	34529.	41740.
36	22187.	7072.	0.	0.	7072.	2109.7	31368.	38440.
37	29069.	6862.	0.	0.	6862.	2119.7	40720.	47582.
38	24227.	6657.	0.	0.	6657.	2127.6	45177.	51834.
39	23703.	7690.	0.	0.	7690.	2134.8	52983.	60673.
40	17634.	7273.	0.	0.	7273.	2139.5	47606.	54879.
41	17564.	7145.	0.	0.	7145.	2144.2	44440.	51585.
42	24423.	7048.	0.	0.	7048.	2151.7	71715.	78763.
43	28466.	7006.	0.	0.	7006.	2159.8	62015.	69021.
44	21665.	7267.	0.	0.	7267.	2165.3	49634.	56901.
45	20177.	7240.	0.	0.	7240.	2170.2	43414.	50654.
46	44209.	7361.	0.	0.	7361.	2184.2	89947.	97308.
47	24653.	7666.	0.	14933.	22599.	2185.0	58193.	80792.
48	16555.	7888.	0.	8667.	16555.	2185.0	36533.	53088.
49	23511.	8141.	0.	15370.	23511.	2185.0	36494.	60005.
50	13875.	8304.	0.	5571.	13875.	2185.0	38458.	52333.
51	10087.	8481.	0.	1606.	10087.	2185.0	19086.	29173.
52	7666.	8620.	0.	0.	8620.	2184.6	13639.	22259.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1968 1	5636.	8028.	0.	0.	8028.	2183.7	9550.	17578.
2	4692.	8027.	0.	0.	8027.	2182.4	7663.	15690.
3	3669.	7170.	0.	0.	7170.	2181.1	6094.	13264.
4	2797.	7639.	0.	0.	7639.	2179.2	4722.	12361.
5	2340.	8083.	0.	0.	8083.	2177.1	4047.	12130.
6	1987.	8591.	0.	0.	8591.	2174.6	3715.	12306.
7	1881.	9048.	0.	0.	9048.	2171.8	3524.	12572.
8	1812.	9537.	0.	0.	9537.	2168.9	3328.	12865.
9	1780.	10025.	0.	0.	10025.	2165.8	3146.	13171.
10	1740.	10657.	0.	0.	10657.	2162.4	3053.	13710.
11	1740.	10963.	0.	0.	10963.	2158.9	2913.	13876.
12	1669.	10587.	0.	0.	10587.	2155.5	2845.	13432.
13	1657.	9880.	0.	0.	9880.	2152.4	2712.	12592.
14	1633.	9522.	0.	0.	9522.	2149.2	2706.	12228.
15	1634.	9520.	0.	0.	9520.	2145.7	2648.	12168.
16	1634.	9506.	0.	0.	9506.	2142.2	2549.	12055.
17	1611.	9522.	0.	0.	9522.	2138.6	2518.	12040.
18	1552.	9508.	0.	0.	9508.	2135.0	2483.	11991.
19	1561.	9542.	0.	0.	9542.	2131.4	2462.	12004.
20	1561.	9542.	0.	0.	9542.	2127.8	2451.	11993.
21	1561.	9445.	0.	0.	9445.	2124.3	2430.	11875.
22	1561.	9307.	0.	0.	9307.	2120.8	2430.	11737.
23	1560.	8729.	0.	0.	8729.	2117.6	2416.	11145.
24	1560.	8345.	0.	0.	8345.	2114.5	2380.	10725.
25	1560.	7945.	0.	0.	7945.	2111.7	2307.	10252.
26	1560.	7745.	0.	0.	7745.	2108.9	2307.	10052.
27	1544.	7589.	0.	0.	7589.	2106.2	2378.	9967.
28	1485.	7281.	0.	0.	7281.	2103.6	2455.	9736.
29	1556.	6985.	0.	0.	6985.	2101.1	2756.	9741.
30	1662.	6636.	0.	0.	6636.	2098.7	3308.	9944.
31	1787.	6304.	0.	0.	6304.	2096.3	4616.	10920.
32	2353.	6230.	0.	0.	6230.	2094.2	7636.	13866.
33	10464.	6541.	0.	0.	6541.	2096.3	19473.	26014.
34	27061.	6868.	0.	0.	6868.	2106.0	44102.	50970.
35	21911.	7211.	0.	0.	7211.	2112.6	44496.	51707.
36	21507.	8486.	0.	0.	8486.	2118.4	43378.	51864.
37	29938.	8234.	0.	0.	8234.	2128.2	62434.	70668.
38	30356.	7988.	0.	0.	7988.	2138.2	58280.	66268.
39	22099.	7874.	0.	0.	7874.	2144.6	45224.	53098.
40	24724.	7505.	0.	0.	7505.	2152.0	51136.	58641.
41	22504.	7404.	0.	0.	7404.	2157.7	52395.	59799.
42	21723.	7314.	0.	0.	7314.	2163.2	42247.	49561.
43	20991.	7272.	0.	0.	7272.	2168.4	49120.	56392.
44	18324.	7504.	0.	0.	7504.	2172.5	38100.	45604.
45	16541.	7477.	0.	0.	7477.	2176.0	39665.	47142.
46	13759.	7575.	0.	0.	7575.	2178.3	33221.	40796.
47	12436.	7680.	0.	0.	7680.	2180.1	30836.	38516.
48	11024.	7906.	0.	0.	7906.	2181.3	23652.	31558.
49	9099.	8135.	0.	0.	8135.	2181.7	18232.	26367.
50	9115.	8320.	0.	0.	8320.	2182.0	16893.	25213.
51	5821.	8513.	0.	0.	8513.	2181.0	11603.	20116.
52	4456.	8304.	0.	0.	8304.	2179.3	8756.	17060.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1969 1	4162.	6690.	0.	0.	6690.	2178.3	7176.	13866.
2	3593.	6689.	0.	0.	6689.	2177.2	6177.	12866.
3	2768.	7170.	0.	0.	7170.	2175.5	4877.	12047.
4	2457.	7639.	0.	0.	7639.	2173.5	4457.	12096.
5	2109.	8083.	0.	0.	8083.	2171.3	3607.	11690.
6	1631.	8591.	0.	0.	8591.	2168.6	2992.	11583.
7	1241.	9048.	0.	0.	9048.	2165.6	2651.	11699.
8	1087.	9537.	0.	0.	9537.	2162.4	2450.	11987.
9	901.	10025.	0.	0.	10025.	2159.0	2231.	12256.
10	809.	10657.	0.	0.	10657.	2155.2	2034.	12691.
11	767.	10963.	0.	0.	10963.	2151.4	1950.	12913.
12	724.	10587.	0.	0.	10587.	2147.2	1861.	12448.
13	687.	7904.	0.	0.	7904.	2143.9	1786.	9690.
14	658.	7618.	0.	0.	7618.	2140.8	1687.	9305.
15	640.	7616.	0.	0.	7616.	2137.7	1656.	9272.
16	598.	7605.	0.	0.	7605.	2134.5	1584.	9189.
17	598.	7618.	0.	0.	7618.	2131.3	1563.	9181.
18	598.	7606.	0.	0.	7606.	2128.2	1532.	9138.
19	587.	7634.	0.	0.	7634.	2125.0	1501.	9135.
20	599.	7634.	0.	0.	7634.	2121.9	1483.	9117.
21	630.	7556.	0.	0.	7556.	2118.7	1478.	9034.
22	630.	7446.	0.	0.	7446.	2115.7	1447.	8893.
23	655.	6983.	0.	0.	6983.	2112.8	1422.	8405.
24	673.	6676.	0.	0.	6676.	2110.1	1411.	8087.
25	709.	6356.	0.	0.	6356.	2107.6	1383.	7739.
26	732.	6196.	0.	0.	6196.	2105.1	1389.	7585.
27	779.	6071.	0.	0.	6071.	2102.8	1497.	7568.
28	919.	5825.	0.	0.	5825.	2100.6	1649.	7474.
29	1196.	5588.	0.	0.	5588.	2098.3	2134.	7722.
30	1696.	5309.	0.	0.	5309.	2096.4	3173.	8482.
31	2867.	5043.	0.	0.	5043.	2095.2	4658.	9701.
32	5116.	4984.	0.	0.	4984.	2095.3	7347.	12331.
33	9727.	5233.	0.	0.	5233.	2097.7	10294.	15527.
34	17064.	5494.	0.	0.	5494.	2103.3	21273.	26767.
35	10209.	5769.	0.	0.	5769.	2105.3	16144.	21913.
36	11525.	6725.	0.	0.	6725.	2107.4	16775.	23500.
37	14689.	6375.	0.	0.	6375.	2111.2	26317.	32692.
38	16092.	6221.	0.	0.	6221.	2115.6	33337.	39558.
39	14614.	6385.	0.	0.	6385.	2119.3	33558.	39943.
40	13051.	7122.	0.	0.	7122.	2122.0	32375.	39497.
41	16518.	6889.	0.	0.	6889.	2126.3	34522.	41411.
42	16974.	6860.	0.	0.	6860.	2130.8	29470.	36330.
43	14188.	7045.	0.	0.	7045.	2134.1	26817.	33862.
44	11668.	6282.	0.	0.	6282.	2136.5	26531.	32813.
45	12201.	5915.	0.	0.	5915.	2139.3	26564.	32479.
46	6318.	6919.	0.	0.	6919.	2139.0	13850.	20769.
47	5126.	7125.	0.	0.	7125.	2138.1	11240.	18365.
48	4792.	7199.	0.	0.	7199.	2137.1	11536.	18735.
49	5256.	6953.	0.	0.	6953.	2136.3	12864.	19817.
50	4595.	6084.	0.	0.	6084.	2135.6	10864.	16948.
51	3939.	5213.	0.	0.	5213.	2135.0	9047.	14260.
52	3308.	5339.	0.	0.	5339.	2134.0	7608.	12947.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1970 1	3018.	5078.	0.	0.	5078.	2133.1	13800.	
2	2841.	5132.	0.	0.	5132.	2132.0	13639.	
3	2489.	4517.	0.	0.	4517.	2131.1	11502.	
4	1680.	4813.	0.	0.	4813.	2129.7	9891.	
5	1432.	5092.	0.	0.	5092.	2128.1	9450.	
6	1202.	5412.	0.	0.	5412.	2126.2	8805.	
7	950.	5700.	0.	0.	5700.	2124.0	8494.	
8	842.	6008.	0.	0.	6008.	2121.7	8541.	
9	787.	6316.	0.	0.	6316.	2119.2	8616.	
10	735.	6714.	0.	0.	6714.	2116.5	8918.	
11	699.	6907.	0.	0.	6907.	2113.8	9058.	
12	694.	6670.	0.	0.	6670.	2111.1	8805.	
13	694.	6224.	0.	0.	6224.	2108.6	8322.	
14	656.	5999.	0.	0.	5999.	2106.2	8038.	
15	656.	5998.	0.	0.	5998.	2103.8	7978.	
16	628.	5989.	0.	0.	5989.	2101.4	7960.	
17	617.	5999.	0.	0.	5999.	2098.7	7961.	
18	618.	5990.	0.	0.	5990.	2095.9	7936.	
19	628.	6012.	0.	0.	6012.	2093.0	7934.	
20	589.	6012.	0.	0.	6012.	2090.1	7885.	
21	589.	5950.	0.	0.	5950.	2087.3	7738.	
22	589.	5863.	0.	0.	5863.	2084.5	7642.	
23	605.	5499.	0.	0.	5499.	2081.9	7262.	
24	616.	5257.	0.	0.	5257.	2079.4	7023.	
25	645.	5005.	0.	0.	5005.	2077.1	6779.	
26	645.	4879.	0.	0.	4879.	2074.8	6653.	
27	769.	4781.	0.	0.	4781.	2072.7	6513.	
28	846.	4587.	0.	0.	4587.	2070.7	6460.	
29	969.	4401.	0.	0.	4401.	2068.9	6556.	
30	1176.	4181.	0.	0.	4181.	2067.3	6875.	
31	1634.	3972.	0.	0.	3972.	2066.0	7958.	
32	3900.	3925.	0.	0.	3925.	2066.0	12416.	
33	13817.	4121.	0.	0.	4121.	2071.2	22001.	
34	12474.	4327.	0.	0.	4327.	2075.5	26552.	
35	15221.	4543.	0.	0.	4543.	2081.2	32271.	
36	12989.	4455.	0.	0.	4455.	2085.7	30573.	
37	12531.	4323.	0.	0.	4323.	2090.1	43029.	
38	11864.	4364.	0.	0.	4364.	2094.1	35023.	
39	19977.	4037.	0.	0.	4037.	2102.2	44592.	
40	20089.	3818.	0.	0.	3818.	2109.5	44721.	
41	16855.	3855.	0.	0.	3855.	2115.3	43330.	
42	18059.	3700.	0.	0.	3700.	2121.8	48096.	
43	17267.	3753.	0.	0.	3753.	2127.9	47072.	
44	21606.	3815.	0.	0.	3815.	2135.9	54686.	
45	18880.	4009.	0.	0.	4009.	2142.6	48853.	
46	14586.	4915.	0.	0.	4915.	2146.9	38562.	
47	16486.	4978.	0.	0.	4978.	2151.8	44302.	
48	11350.	5564.	0.	0.	5564.	2154.0	34352.	
49	9396.	5499.	0.	0.	5499.	2155.5	32139.	
50	7477.	5476.	0.	0.	5476.	2156.2	29764.	
51	7616.	5617.	0.	0.	5617.	2157.0	24448.	
52	4244.	5536.	0.	0.	5536.	2156.4	16340.	

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONE VALVE ENVIRON. RELEASE	EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1971 1	4991.	5352.	0.	0.	5352.	2156.3	11199.	16551.
2	4166.	5351.	0.	0.	5351.	2155.8	9456.	14807.
3	3393.	5736.	0.	0.	5736.	2154.9	7891.	13627.
4	2885.	6111.	0.	0.	6111.	2153.7	6656.	12767.
5	2923.	6466.	0.	0.	6466.	2152.4	6352.	12818.
6	2796.	6873.	0.	0.	6873.	2150.8	5873.	12746.
7	2543.	7238.	0.	0.	7238.	2148.9	4842.	12080.
8	2249.	7630.	0.	0.	7630.	2146.4	4308.	11938.
9	2013.	8020.	0.	0.	8020.	2143.7	3881.	11901.
10	1886.	8526.	0.	0.	8526.	2140.7	3564.	12090.
11	1761.	8770.	0.	0.	8770.	2137.6	3350.	12120.
12	1614.	8470.	0.	0.	8470.	2134.5	3186.	11656.
13	1446.	7904.	0.	0.	7904.	2131.6	2955.	10859.
14	1328.	7618.	0.	0.	7618.	2128.8	2653.	10271.
15	1188.	7616.	0.	0.	7616.	2125.9	2438.	10054.
16	1080.	7605.	0.	0.	7605.	2122.9	2199.	9804.
17	950.	7618.	0.	0.	7618.	2119.9	1982.	9600.
18	880.	7606.	0.	0.	7606.	2116.9	1845.	9451.
19	821.	7634.	0.	0.	7634.	2113.9	1798.	9432.
20	746.	7634.	0.	0.	7634.	2110.8	1752.	9386.
21	746.	7556.	0.	0.	7556.	2107.7	1728.	9284.
22	730.	7446.	0.	0.	7446.	2104.7	1678.	9124.
23	716.	6983.	0.	0.	6983.	2101.9	1662.	8645.
24	716.	6676.	0.	0.	6676.	2099.0	1648.	8324.
25	716.	6356.	0.	0.	6356.	2096.0	1610.	7966.
26	716.	6196.	0.	0.	6196.	2093.1	1664.	7860.
27	717.	6071.	0.	0.	6071.	2090.3	1711.	7782.
28	744.	5825.	0.	0.	5825.	2087.6	1742.	7567.
29	808.	5588.	0.	0.	5588.	2085.0	1859.	7447.
30	904.	5309.	0.	0.	5309.	2082.7	1984.	7293.
31	1098.	5043.	0.	0.	5043.	2080.6	2483.	7526.
32	1415.	4984.	0.	0.	4984.	2078.7	4035.	9019.
33	2087.	5287.	0.	0.	5287.	2077.0	6412.	11699.
34	3683.	5494.	0.	0.	5494.	2076.0	10578.	16072.
35	6558.	5769.	0.	0.	5769.	2076.4	17322.	23091.
36	19251.	5658.	0.	0.	5658.	2083.6	32021.	37679.
37	39740.	5490.	0.	0.	5490.	2101.6	54375.	59865.
38	24136.	5326.	0.	0.	5326.	2110.1	45977.	51303.
39	33340.	5126.	0.	0.	5126.	2122.7	72384.	77510.
40	21395.	6061.	0.	0.	6061.	2129.6	46474.	52535.
41	21771.	5954.	0.	0.	5954.	2136.8	51799.	57753.
42	25092.	5873.	0.	0.	5873.	2145.4	50116.	55989.
43	16325.	6654.	0.	0.	6654.	2149.7	32608.	39262.
44	20943.	6056.	0.	0.	6056.	2155.4	37990.	44046.
45	38945.	6033.	0.	0.	6033.	2167.9	72348.	78381.
46	34819.	7361.	0.	0.	7361.	2178.4	53757.	61118.
47	21352.	7663.	0.	0.	7663.	2183.6	35543.	43206.
48	16880.	7886.	0.	5240.	13126.	2185.0	28109.	41235.
49	19170.	8130.	0.	11040.	19170.	2185.0	30901.	50071.
50	12233.	8299.	0.	3934.	12233.	2185.0	22417.	34650.
51	9251.	8478.	0.	773.	9251.	2185.0	16013.	25264.
52	8027.	8619.	0.	0.	8619.	2184.7	12946.	21565.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1972 1	6619.	8028.	0.	0.	8028.	2184.2	10367.	18395.
2	5931.	8027.	0.	0.	8027.	2183.4	13369.	21396.
3	4501.	8604.	0.	0.	8604.	2181.9	8876.	17480.
4	3711.	7639.	0.	0.	7639.	2180.4	6554.	14193.
5	3005.	8083.	0.	0.	8083.	2178.4	5473.	13556.
6	2717.	8591.	0.	0.	8591.	2176.2	4697.	13288.
7	2574.	9048.	0.	0.	9048.	2173.7	4162.	13210.
8	2430.	9537.	0.	0.	9537.	2171.0	3714.	13251.
9	2311.	10025.	0.	0.	10025.	2168.1	3353.	13378.
10	2016.	12788.	0.	0.	12788.	2164.0	3242.	16030.
11	2016.	13156.	0.	0.	13156.	2159.8	3057.	16213.
12	1860.	12704.	0.	0.	12704.	2155.7	2881.	15585.
13	1860.	11856.	0.	0.	11856.	2151.9	2755.	14611.
14	1790.	11426.	0.	0.	11426.	2147.9	2766.	14192.
15	1642.	11424.	0.	0.	11424.	2143.5	2649.	14073.
16	1642.	11407.	0.	0.	11407.	2139.1	2627.	14034.
17	1642.	11426.	0.	0.	11426.	2134.7	2494.	13920.
18	1643.	11410.	0.	0.	11410.	2130.3	2493.	13903.
19	1528.	11450.	0.	0.	11450.	2125.8	2453.	13903.
20	1465.	11450.	0.	0.	11450.	2121.3	2324.	13774.
21	1465.	11334.	0.	0.	11334.	2116.9	2257.	13591.
22	1403.	11168.	0.	0.	11168.	2112.5	2186.	13354.
23	1416.	10475.	0.	0.	10475.	2108.4	2078.	12553.
24	1351.	10014.	0.	0.	10014.	2104.5	1998.	12012.
25	1351.	9534.	0.	0.	9534.	2100.9	1916.	11450.
26	1329.	9294.	0.	0.	9294.	2096.8	1878.	11172.
27	1241.	9107.	0.	0.	9107.	2092.6	1853.	10960.
28	1241.	8737.	0.	0.	8737.	2088.6	1844.	10581.
29	1189.	6985.	0.	0.	6985.	2085.5	1894.	8879.
30	1241.	6636.	0.	0.	6636.	2082.6	2126.	8762.
31	2386.	6304.	0.	0.	6304.	2080.6	4504.	10808.
32	13753.	6230.	0.	0.	6230.	2084.6	17455.	23685.
33	13553.	6541.	0.	0.	6541.	2088.3	17051.	23592.
34	18894.	6868.	0.	0.	6868.	2094.7	24670.	31538.
35	31966.	7211.	0.	0.	7211.	2106.7	45750.	52961.
36	20142.	7072.	0.	0.	7072.	2112.5	29107.	36179.
37	35772.	6862.	0.	0.	6862.	2125.5	41369.	48231.
38	31327.	7988.	0.	0.	7988.	2136.0	44931.	52919.
39	21178.	7905.	0.	0.	7905.	2142.0	36574.	44479.
40	22096.	7536.	0.	0.	7536.	2148.5	42272.	49808.
41	22084.	7438.	0.	0.	7438.	2154.3	51441.	58879.
42	19683.	7350.	0.	0.	7350.	2159.0	39211.	46561.
43	16050.	7321.	0.	0.	7321.	2162.3	39693.	47014.
44	18343.	7563.	0.	0.	7563.	2166.4	40250.	47813.
45	19675.	7531.	0.	0.	7531.	2171.0	36458.	43989.
46	18045.	7615.	0.	0.	7615.	2175.0	34372.	41987.
47	18653.	7701.	0.	0.	7701.	2179.2	36224.	43925.
48	12473.	7913.	0.	0.	7913.	2180.9	23182.	31095.
49	11598.	8134.	0.	0.	8134.	2182.2	26523.	34657.
50	15857.	8302.	0.	230.	8532.	2185.0	35380.	43912.
51	11686.	8485.	0.	3201.	11686.	2185.0	20434.	32120.
52	5278.	8626.	0.	0.	8626.	2183.5	12863.	21489.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW				TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONVE ENVIRON. RELEASE	VALVE EXCESS RELEASE	(CFS)				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1973 1	4296.	8028.	0.	0.	8028.	2182.1	10816.	18844.	
2	3976.	6689.	0.	0.	6689.	2181.1	8067.	14756.	
3	5515.	7170.	0.	0.	7170.	2180.5	10984.	18154.	
4	4090.	7639.	0.	0.	7639.	2179.1	7975.	15614.	
5	2727.	8083.	0.	0.	8083.	2177.1	5595.	13678.	
6	2210.	8591.	0.	0.	8591.	2174.7	4581.	13172.	
7	1887.	9048.	0.	0.	9048.	2171.9	4095.	13143.	
8	1738.	9537.	0.	0.	9537.	2169.0	3517.	13054.	
9	1519.	10025.	0.	0.	10025.	2165.7	3377.	13402.	
10	1356.	10657.	0.	0.	10657.	2162.2	3427.	14084.	
11	1210.	10963.	0.	0.	10963.	2158.5	3139.	14102.	
12	1186.	10587.	0.	0.	10587.	2154.9	3215.	13802.	
13	1186.	9880.	0.	0.	9880.	2151.6	2879.	12759.	
14	1051.	9522.	0.	0.	9522.	2148.1	2492.	12014.	
15	1026.	9520.	0.	0.	9520.	2144.3	2335.	11855.	
16	1026.	9506.	0.	0.	9506.	2140.5	2280.	11786.	
17	1026.	9522.	0.	0.	9522.	2136.7	2183.	11705.	
18	1035.	9508.	0.	0.	9508.	2132.9	2217.	11725.	
19	1008.	9542.	0.	0.	9542.	2129.0	2153.	11695.	
20	1008.	9542.	0.	0.	9542.	2125.2	2082.	11624.	
21	1008.	9445.	0.	0.	9445.	2121.4	2049.	11494.	
22	929.	9307.	0.	0.	9307.	2117.6	1926.	11233.	
23	868.	8729.	0.	0.	8729.	2114.1	1733.	10462.	
24	868.	8345.	0.	0.	8345.	2110.7	1748.	10093.	
25	868.	7945.	0.	0.	7945.	2107.5	1620.	9565.	
26	868.	7745.	0.	0.	7745.	2104.5	1559.	9304.	
27	879.	7589.	0.	0.	7589.	2101.4	1422.	9011.	
28	879.	7281.	0.	0.	7281.	2098.3	1597.	8878.	
29	879.	6985.	0.	0.	6985.	2095.0	1645.	8630.	
30	929.	6636.	0.	0.	6636.	2092.0	2066.	8702.	
31	1227.	6304.	0.	0.	6304.	2089.3	2974.	9278.	
32	2355.	6230.	0.	0.	6230.	2087.2	6272.	12502.	
33	8066.	6541.	0.	0.	6541.	2088.0	20237.	26778.	
34	11109.	6868.	0.	0.	6868.	2090.3	21534.	28402.	
35	13811.	7211.	0.	0.	7211.	2093.8	22105.	29316.	
36	17385.	7072.	0.	0.	7072.	2099.3	28218.	35290.	
37	28985.	6862.	0.	0.	6862.	2109.4	45728.	52590.	
38	31344.	6657.	0.	0.	6657.	2120.5	50806.	57463.	
39	20593.	6408.	0.	0.	6408.	2126.8	40551.	46959.	
40	18980.	6923.	0.	0.	6923.	2132.3	35111.	42034.	
41	18143.	7014.	0.	0.	7014.	2137.3	36870.	43884.	
42	13728.	7499.	0.	0.	7499.	2140.1	28348.	35847.	
43	14810.	7381.	0.	0.	7381.	2143.4	30014.	37395.	
44	15752.	7095.	0.	0.	7095.	2147.3	29242.	36337.	
45	18754.	6725.	0.	0.	6725.	2152.3	32837.	39562.	
46	14942.	7185.	0.	0.	7185.	2155.2	22883.	30068.	
47	19441.	6641.	0.	0.	6641.	2160.1	40301.	46942.	
48	20593.	6422.	0.	0.	6422.	2165.5	33464.	39886.	
49	11210.	6396.	0.	0.	6396.	2167.3	22940.	29336.	
50	7823.	5881.	0.	0.	5881.	2168.1	16483.	22364.	
51	6605.	5617.	0.	0.	5617.	2168.4	10941.	16558.	
52	5366.	5536.	0.	0.	5536.	2168.4	6541.	12077.	

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1974 1	4607.	5352.	0.	0.	5352.	2168.1	7898.	13250.
2	3710.	5351.	0.	0.	5351.	2167.5	5392.	10743.
3	2558.	5736.	0.	0.	5736.	2166.2	4142.	9878.
4	1938.	6111.	0.	0.	6111.	2164.7	3876.	9987.
5	1693.	6466.	0.	0.	6466.	2162.8	3178.	9644.
6	1459.	6873.	0.	0.	6873.	2160.8	2849.	9722.
7	1344.	7238.	0.	0.	7238.	2158.5	2809.	10047.
8	1230.	7630.	0.	0.	7630.	2156.1	2638.	10268.
9	1129.	8020.	0.	0.	8020.	2153.5	2676.	10696.
10	1028.	8526.	0.	0.	8526.	2150.7	2424.	10950.
11	926.	8770.	0.	0.	8770.	2147.2	2256.	11026.
12	881.	8470.	0.	0.	8470.	2143.8	2014.	10484.
13	854.	7904.	0.	0.	7904.	2140.7	2042.	9946.
14	816.	7618.	0.	0.	7618.	2137.6	1907.	9525.
15	811.	7616.	0.	0.	7616.	2134.5	1861.	9477.
16	778.	7605.	0.	0.	7605.	2131.5	1821.	9426.
17	765.	7618.	0.	0.	7618.	2128.4	1776.	9394.
18	745.	7606.	0.	0.	7606.	2125.3	1774.	9380.
19	707.	7634.	0.	0.	7634.	2122.2	1835.	9469.
20	694.	7634.	0.	0.	7634.	2119.1	1808.	9442.
21	662.	7556.	0.	0.	7556.	2116.0	1801.	9357.
22	663.	7446.	0.	0.	7446.	2112.9	1742.	9188.
23	648.	6983.	0.	0.	6983.	2110.1	1741.	8724.
24	636.	6676.	0.	0.	6676.	2107.4	1654.	8330.
25	605.	6356.	0.	0.	6356.	2104.8	1579.	7935.
26	605.	6196.	0.	0.	6196.	2102.3	1557.	7753.
27	594.	6071.	0.	0.	6071.	2099.7	1538.	7609.
28	620.	5825.	0.	0.	5825.	2097.0	1550.	7375.
29	747.	5588.	0.	0.	5588.	2094.4	1652.	7240.
30	1189.	5309.	0.	0.	5309.	2092.2	2183.	7492.
31	2059.	5043.	0.	0.	5043.	2090.6	3786.	8829.
32	5341.	4984.	0.	0.	4984.	2090.8	7932.	12916.
33	9964.	5233.	0.	0.	5233.	2093.3	11552.	16785.
34	22246.	5494.	0.	0.	5494.	2101.9	22257.	27751.
35	25280.	5769.	0.	0.	5769.	2110.7	32080.	37849.
36	16013.	7072.	0.	0.	7072.	2114.7	23143.	30215.
37	13675.	6862.	0.	0.	6862.	2117.8	25661.	32523.
38	12785.	6657.	0.	0.	6657.	2120.5	27973.	34630.
39	13651.	6408.	0.	0.	6408.	2123.8	34730.	41138.
40	14383.	6440.	0.	0.	6440.	2127.3	34556.	40996.
41	17876.	5954.	0.	0.	5954.	2132.7	37136.	43090.
42	16396.	6082.	0.	0.	6082.	2137.3	37582.	43664.
43	15766.	6195.	0.	0.	6195.	2141.6	35415.	41610.
44	14730.	6056.	0.	0.	6056.	2145.5	32889.	38945.
45	15504.	5818.	0.	0.	5818.	2149.9	35025.	40843.
46	13265.	6279.	0.	0.	6279.	2152.6	31368.	37647.
47	10498.	6847.	0.	0.	6847.	2154.0	22767.	29614.
48	14244.	6114.	0.	0.	6114.	2157.0	34805.	40919.
49	13395.	5334.	0.	0.	5334.	2160.1	28621.	33955.
50	7511.	5476.	0.	0.	5476.	2160.9	16851.	22327.
51	7590.	5617.	0.	0.	5617.	2161.6	14334.	19951.
52	9984.	5536.	0.	0.	5536.	2163.6	16747.	22283.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1975 1	4537.	5352.	0.	0.	5352.	2163.3	9607.	14959.
2	4509.	5351.	0.	0.	5351.	2162.9	8377.	13728.
3	2402.	5736.	0.	0.	5736.	2161.7	5187.	10923.
4	1602.	6111.	0.	0.	6111.	2160.0	4688.	10799.
5	1468.	6466.	0.	0.	6466.	2158.1	3977.	10443.
6	1478.	6873.	0.	0.	6873.	2156.0	3213.	10086.
7	1478.	7238.	0.	0.	7238.	2153.8	2895.	10133.
8	1478.	7630.	0.	0.	7630.	2151.5	2667.	10297.
9	1461.	8020.	0.	0.	8020.	2148.8	2799.	10819.
10	1264.	8526.	0.	0.	8526.	2145.5	2732.	11258.
11	1264.	8770.	0.	0.	8770.	2142.2	2670.	11440.
12	1264.	8470.	0.	0.	8470.	2138.9	2730.	11200.
13	1264.	7904.	0.	0.	7904.	2135.9	2715.	10619.
14	1270.	7618.	0.	0.	7618.	2133.1	2586.	10204.
15	1203.	7616.	0.	0.	7616.	2130.2	2438.	10054.
16	1203.	7605.	0.	0.	7605.	2127.3	2238.	9843.
17	1203.	7618.	0.	0.	7618.	2124.4	2144.	9762.
18	1200.	7606.	0.	0.	7606.	2121.6	2243.	9849.
19	1123.	7634.	0.	0.	7634.	2118.6	2171.	9805.
20	1123.	7634.	0.	0.	7634.	2115.7	1958.	9592.
21	1081.	7556.	0.	0.	7556.	2112.8	1931.	9487.
22	1051.	7446.	0.	0.	7446.	2109.9	1947.	9393.
23	1040.	6983.	0.	0.	6983.	2107.2	1816.	8799.
24	1040.	6676.	0.	0.	6676.	2104.7	1862.	8538.
25	1040.	6356.	0.	0.	6356.	2102.3	1888.	8244.
26	1040.	6196.	0.	0.	6196.	2100.0	1805.	8001.
27	1036.	6071.	0.	0.	6071.	2097.3	1880.	7951.
28	1047.	5825.	0.	0.	5825.	2094.8	1880.	7705.
29	1142.	5588.	0.	0.	5588.	2092.4	1896.	7484.
30	1354.	5309.	0.	0.	5309.	2090.3	2247.	7556.
31	2133.	5043.	0.	0.	5043.	2088.7	3183.	8226.
32	5138.	4984.	0.	0.	4984.	2088.8	5011.	9995.
33	11291.	5233.	0.	0.	5233.	2092.0	16293.	21526.
34	17252.	5494.	0.	0.	5494.	2098.3	25582.	31076.
35	23081.	5769.	0.	0.	5769.	2106.4	40766.	46535.
36	30459.	5658.	0.	0.	5658.	2117.5	41360.	47018.
37	22880.	6862.	0.	0.	6862.	2124.7	37868.	44730.
38	28749.	7988.	0.	0.	7988.	2134.1	45486.	53474.
39	25700.	7690.	0.	0.	7690.	2142.2	46696.	54386.
40	23413.	7531.	0.	0.	7531.	2149.3	45659.	53190.
41	25455.	7425.	0.	0.	7425.	2156.3	55392.	62817.
42	24131.	7324.	0.	0.	7324.	2162.6	50126.	57450.
43	22076.	7275.	0.	0.	7275.	2168.3	37889.	45164.
44	20265.	7502.	0.	0.	7502.	2173.1	37804.	45306.
45	16199.	7473.	0.	0.	7473.	2176.4	54790.	62263.
46	15474.	7567.	0.	0.	7567.	2179.4	36452.	44019.
47	13658.	7667.	0.	0.	7667.	2181.7	26422.	34089.
48	11762.	7889.	0.	0.	7889.	2183.2	23357.	31246.
49	9359.	8115.	0.	0.	8115.	2183.6	22501.	30616.
50	15849.	8307.	0.	3982.	12289.	2185.0	28651.	40940.
51	14847.	8494.	0.	6353.	14847.	2185.0	26785.	41632.
52	12513.	8630.	0.	3883.	12513.	2185.0	19292.	31805.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1976 1	7559.	8028.	0.	0.	8028.	2184.8	13771.	21799.
2	6664.	8027.	0.	0.	8027.	2184.3	12410.	20437.
3	6139.	8604.	0.	0.	8604.	2183.4	9346.	17950.
4	3621.	9167.	0.	0.	9167.	2181.3	5813.	14980.
5	2720.	8083.	0.	0.	8083.	2179.2	4262.	12345.
6	1937.	8591.	0.	0.	8591.	2176.7	3246.	11837.
7	1475.	9048.	0.	0.	9048.	2173.8	2930.	11978.
8	1173.	9537.	0.	0.	9537.	2170.6	2536.	12073.
9	1011.	10025.	0.	0.	10025.	2167.2	2485.	12510.
10	925.	10657.	0.	0.	10657.	2163.5	2271.	12928.
11	890.	10963.	0.	0.	10963.	2159.7	2206.	13169.
12	855.	10587.	0.	0.	10587.	2156.0	2091.	12678.
13	809.	9880.	0.	0.	9880.	2152.6	2084.	11964.
14	778.	9522.	0.	0.	9522.	2149.1	2070.	11592.
15	778.	9520.	0.	0.	9520.	2145.2	2028.	11548.
16	750.	9506.	0.	0.	9506.	2141.2	1927.	11433.
17	739.	9522.	0.	0.	9522.	2137.3	1949.	11471.
18	741.	9508.	0.	0.	9508.	2133.3	1926.	11434.
19	746.	9542.	0.	0.	9542.	2129.4	1936.	11478.
20	746.	9542.	0.	0.	9542.	2125.4	2221.	11763.
21	746.	9445.	0.	0.	9445.	2121.5	2099.	11544.
22	726.	9307.	0.	0.	9307.	2117.6	2102.	11409.
23	687.	8729.	0.	0.	8729.	2114.0	2086.	10815.
24	687.	8345.	0.	0.	8345.	2110.6	1866.	10211.
25	687.	7945.	0.	0.	7945.	2107.3	1857.	9802.
26	687.	7745.	0.	0.	7745.	2104.1	1874.	9619.
27	644.	7589.	0.	0.	7589.	2101.0	1887.	9476.
28	675.	7281.	0.	0.	7281.	2097.7	2055.	9336.
29	839.	6985.	0.	0.	6985.	2094.4	2702.	9687.
30	1402.	6636.	0.	0.	6636.	2091.6	3608.	10244.
31	3440.	6304.	0.	0.	6304.	2090.1	8823.	15127.
32	9778.	6230.	0.	0.	6230.	2092.0	24617.	30847.
33	9397.	6541.	0.	0.	6541.	2093.5	19660.	26201.
34	9828.	6868.	0.	0.	6868.	2095.1	21288.	28156.
35	11375.	7211.	0.	0.	7211.	2097.3	27185.	34396.
36	23100.	7072.	0.	0.	7072.	2104.9	42594.	49666.
37	24887.	6862.	0.	0.	6862.	2113.0	53847.	60709.
38	17525.	6657.	0.	0.	6657.	2117.9	38012.	44669.
39	16928.	6408.	0.	0.	6408.	2122.7	43696.	50104.
40	16991.	6662.	0.	0.	6662.	2127.3	39034.	45696.
41	16954.	6668.	0.	0.	6668.	2131.9	43512.	50180.
42	16164.	6778.	0.	0.	6778.	2136.2	46646.	53424.
43	16576.	6719.	0.	0.	6719.	2140.6	42245.	48964.
44	20226.	7512.	0.	0.	7512.	2146.3	39152.	46664.
45	26317.	7603.	0.	0.	7603.	2154.0	36900.	44503.
46	19534.	7785.	178.	0.	7963.	2158.4	37247.	45210.
47	15004.	7878.	326.	0.	8204.	2161.0	47124.	55328.
48	10554.	8108.	263.	0.	8371.	2161.8	24126.	32497.
49	6302.	6573.	0.	0.	6573.	2161.7	17448.	24021.
50	5160.	5830.	0.	0.	5830.	2161.4	15076.	20906.
51	5190.	5617.	0.	0.	5617.	2161.3	15865.	21482.
52	5530.	5536.	0.	0.	5536.	2161.3	15413.	20949.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1977 1	3729.	5352.	0.	0.	5352.	2160.7	11484.	16836.
2	3045.	5351.	0.	0.	5351.	2159.8	9623.	14974.
3	2903.	5736.	0.	0.	5736.	2158.7	7534.	13270.
4	2576.	6111.	0.	0.	6111.	2157.4	7396.	13507.
5	2139.	6466.	0.	0.	6466.	2155.7	5983.	12449.
6	1963.	6873.	0.	0.	6873.	2153.9	5124.	11997.
7	1839.	7238.	0.	0.	7238.	2151.8	4494.	11732.
8	1736.	7630.	0.	0.	7630.	2149.5	4087.	11717.
9	2097.	8020.	0.	0.	8020.	2146.8	4818.	12838.
10	1902.	8526.	0.	0.	8526.	2143.8	4344.	12870.
11	1722.	8770.	0.	0.	8770.	2140.7	3627.	12397.
12	1583.	8470.	0.	0.	8470.	2137.6	3548.	12018.
13	1462.	7904.	0.	0.	7904.	2134.7	3458.	11362.
14	1442.	7618.	0.	0.	7618.	2131.9	3254.	10872.
15	1400.	7616.	0.	0.	7616.	2129.1	2989.	10605.
16	1326.	7605.	0.	0.	7605.	2126.3	2741.	10346.
17	1294.	7618.	0.	0.	7618.	2123.4	2665.	10283.
18	1257.	7606.	0.	0.	7606.	2120.6	2389.	9995.
19	1219.	7634.	0.	0.	7634.	2117.7	2299.	9933.
20	1197.	7634.	0.	0.	7634.	2114.8	2164.	9798.
21	1197.	7556.	0.	0.	7556.	2111.9	2278.	9834.
22	1156.	7446.	0.	0.	7446.	2109.1	2202.	9648.
23	1106.	6983.	0.	0.	6983.	2106.5	2170.	9153.
24	1106.	6676.	0.	0.	6676.	2104.0	2113.	8789.
25	1106.	6356.	0.	0.	6356.	2101.6	2066.	8422.
26	1106.	6196.	0.	0.	6196.	2099.2	2064.	8260.
27	1149.	6071.	0.	0.	6071.	2096.6	2277.	8348.
28	1149.	5825.	0.	0.	5825.	2094.1	2146.	7971.
29	1211.	5588.	0.	0.	5588.	2091.7	2165.	7753.
30	1272.	5309.	0.	0.	5309.	2089.6	2217.	7526.
31	1314.	5043.	0.	0.	5043.	2087.6	3006.	8049.
32	2267.	4984.	0.	0.	4984.	2086.2	5270.	10254.
33	8205.	5233.	0.	0.	5233.	2087.7	13367.	18600.
34	12588.	5494.	0.	0.	5494.	2091.5	22277.	27771.
35	19531.	5769.	0.	0.	5769.	2098.9	41816.	47585.
36	29414.	5658.	0.	0.	5658.	2109.7	57693.	63351.
37	38957.	5490.	0.	0.	5490.	2124.8	72883.	78373.
38	31928.	6657.	0.	0.	6657.	2136.1	60471.	67128.
39	28489.	7690.	0.	0.	7690.	2145.5	60832.	68522.
40	18502.	7509.	0.	0.	7509.	2150.4	43168.	50677.
41	20572.	7424.	0.	0.	7424.	2155.4	46721.	54145.
42	21740.	7337.	0.	0.	7337.	2160.8	54579.	61916.
43	18089.	7300.	0.	0.	7300.	2164.9	45889.	53189.
44	19531.	7536.	0.	0.	7536.	2169.5	42818.	50354.
45	18939.	7503.	0.	0.	7503.	2173.8	43045.	50548.
46	17328.	7589.	0.	0.	7589.	2177.5	44644.	52233.
47	17519.	7678.	0.	0.	7678.	2181.3	49949.	57627.
48	11066.	7895.	0.	0.	7895.	2182.5	27357.	35252.
49	8643.	8124.	0.	0.	8124.	2182.7	23596.	31720.
50	12235.	8303.	0.	0.	8303.	2184.2	25375.	33678.
51	11736.	8483.	0.	1043.	9527.	2185.0	25004.	34531.
52	9877.	8623.	0.	1254.	9877.	2185.0	21284.	31161.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1978 1	6782.	8028.	0.	0.	8028.	2184.5	14654.	22682.
2	6882.	8027.	0.	0.	8027.	2184.1	13484.	21511.
3	6046.	8604.	0.	0.	8604.	2183.1	10913.	19517.
4	4510.	9167.	0.	0.	9167.	2181.4	8369.	17536.
5	3355.	9700.	0.	0.	9700.	2178.9	7241.	16941.
6	2862.	8591.	0.	0.	8591.	2176.8	5514.	14105.
7	2578.	9048.	0.	0.	9048.	2174.3	4601.	13649.
8	2392.	9537.	0.	0.	9537.	2171.6	4139.	13676.
9	2223.	10025.	0.	0.	10025.	2168.6	3975.	14000.
10	2108.	12788.	0.	0.	12788.	2164.6	3683.	16471.
11	2015.	13156.	0.	0.	13156.	2160.3	3564.	16720.
12	1955.	12704.	0.	0.	12704.	2156.3	3421.	16125.
13	1808.	11856.	0.	0.	11856.	2152.4	3462.	15318.
14	1741.	11426.	0.	0.	11426.	2148.5	3460.	14886.
15	1641.	11424.	0.	0.	11424.	2144.1	3098.	14522.
16	1557.	11407.	0.	0.	11407.	2139.7	3028.	14435.
17	1496.	11426.	0.	0.	11426.	2135.2	2800.	14226.
18	1403.	11410.	0.	0.	11410.	2130.7	2636.	14046.
19	1285.	11450.	0.	0.	11450.	2126.2	2434.	13884.
20	1247.	11450.	0.	0.	11450.	2121.6	2285.	13735.
21	1247.	11334.	0.	0.	11334.	2117.0	2148.	13482.
22	1212.	11168.	0.	0.	11168.	2112.6	2009.	13177.
23	1258.	10475.	0.	0.	10475.	2108.4	1958.	12433.
24	1258.	10014.	0.	0.	10014.	2104.5	1917.	11931.
25	1258.	9534.	0.	0.	9534.	2100.8	1805.	11339.
26	1275.	9294.	0.	0.	9294.	2096.6	1925.	11219.
27	1251.	9107.	0.	0.	9107.	2092.4	2201.	11308.
28	1251.	7281.	0.	0.	7281.	2089.2	2126.	9407.
29	1251.	6985.	0.	0.	6985.	2086.2	2252.	9237.
30	1322.	6636.	0.	0.	6636.	2083.3	2667.	9303.
31	3355.	6304.	0.	0.	6304.	2081.8	3414.	9718.
32	11862.	6230.	0.	0.	6230.	2084.8	8877.	15107.
33	16195.	6541.	0.	0.	6541.	2089.9	12493.	19034.
34	10959.	6868.	0.	0.	6868.	2092.1	11593.	18461.
35	11660.	7211.	0.	0.	7211.	2094.5	13538.	20749.
36	13979.	7072.	0.	0.	7072.	2098.1	22658.	29730.
37	19417.	6862.	0.	0.	6862.	2104.1	33158.	40020.
38	16614.	6657.	0.	0.	6657.	2108.6	28603.	35260.
39	20703.	6408.	0.	0.	6408.	2115.0	33607.	40015.
40	19608.	5294.	0.	0.	5294.	2121.4	40752.	46046.
41	18215.	5486.	0.	0.	5486.	2127.1	39779.	45265.
42	18416.	5459.	0.	0.	5459.	2133.0	44265.	49724.
43	18064.	5507.	0.	0.	5507.	2138.6	45105.	50612.
44	16600.	4845.	0.	0.	4845.	2143.9	46171.	51016.
45	15674.	4826.	0.	0.	4826.	2148.8	43066.	47892.
46	14572.	4907.	0.	0.	4907.	2152.6	39252.	44159.
47	12160.	5331.	0.	0.	5331.	2155.2	29600.	34931.
48	8756.	6070.	0.	0.	6070.	2156.3	22382.	28452.
49	9287.	6073.	0.	0.	6073.	2157.5	25721.	31794.
50	8372.	5476.	0.	0.	5476.	2158.6	20595.	26071.
51	6293.	5617.	0.	0.	5617.	2158.8	15643.	21260.
52	4696.	5536.	0.	0.	5536.	2158.5	10946.	16482.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	CONVEYOR ENVIRON. RELEASE	VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1979 1	4195.	5352.	0.	0.	5352.	2158.0	9103.	14455.
2	4701.	5351.	0.	0.	5351.	2157.8	7886.	13237.
3	3796.	5736.	0.	0.	5736.	2157.1	6873.	12609.
4	2849.	6111.	0.	0.	6111.	2155.8	5346.	11457.
5	2736.	6466.	0.	0.	6466.	2154.4	5220.	11686.
6	2368.	6873.	0.	0.	6873.	2152.7	4987.	11860.
7	1774.	7238.	0.	0.	7238.	2150.6	4137.	11375.
8	1558.	7630.	0.	0.	7630.	2148.0	3816.	11446.
9	1502.	8020.	0.	0.	8020.	2145.1	3720.	11740.
10	1483.	8526.	0.	0.	8526.	2141.9	3571.	12097.
11	1349.	8770.	0.	0.	8770.	2138.6	3461.	12231.
12	1214.	8470.	0.	0.	8470.	2135.3	3181.	11651.
13	1170.	7904.	0.	0.	7904.	2132.3	3092.	10996.
14	1185.	7618.	0.	0.	7618.	2129.4	2726.	10344.
15	1138.	7616.	0.	0.	7616.	2126.5	2862.	10478.
16	1138.	7605.	0.	0.	7605.	2123.5	2644.	10249.
17	1138.	7618.	0.	0.	7618.	2120.6	2572.	10190.
18	1059.	7606.	0.	0.	7606.	2117.7	2346.	9952.
19	1067.	7634.	0.	0.	7634.	2114.7	2258.	9892.
20	1067.	7634.	0.	0.	7634.	2111.8	2091.	9725.
21	1067.	7556.	0.	0.	7556.	2108.9	2125.	9681.
22	989.	7446.	0.	0.	7446.	2106.0	2083.	9529.
23	1113.	6983.	0.	0.	6983.	2103.3	1786.	8769.
24	1113.	6676.	0.	0.	6676.	2100.8	1851.	8527.
25	1113.	6356.	0.	0.	6356.	2098.2	1772.	8128.
26	1113.	6196.	0.	0.	6196.	2095.5	1838.	8034.
27	1064.	6071.	0.	0.	6071.	2092.8	1919.	7990.
28	1113.	5825.	0.	0.	5825.	2090.3	2006.	7831.
29	1228.	5588.	0.	0.	5588.	2088.0	2123.	7711.
30	1545.	5309.	0.	0.	5309.	2086.0	3403.	8712.
31	2451.	5043.	0.	0.	5043.	2084.6	6342.	11385.
32	4633.	4984.	0.	0.	4984.	2084.4	13816.	18800.
33	10811.	5233.	0.	0.	5233.	2087.4	20694.	25927.
34	17246.	5494.	0.	0.	5494.	2093.6	25018.	30512.
35	28470.	5769.	0.	0.	5769.	2104.8	41252.	47021.
36	25470.	6984.	0.	0.	6984.	2113.1	33630.	40614.
37	21379.	7308.	0.	0.	7308.	2119.5	32106.	39414.
38	19302.	7473.	0.	0.	7473.	2124.8	31386.	38859.
39	23880.	7109.	0.	0.	7109.	2132.3	41013.	48122.
40	22832.	7273.	0.	0.	7273.	2139.3	45441.	52714.
41	22584.	7145.	0.	0.	7145.	2146.3	48664.	55809.
42	27495.	7048.	0.	0.	7048.	2154.6	65760.	72808.
43	28100.	7006.	0.	0.	7006.	2162.6	55539.	62545.
44	21732.	7554.	0.	0.	7554.	2168.0	53499.	61053.
45	20346.	7514.	0.	0.	7514.	2172.9	46996.	54510.
46	16431.	7600.	0.	0.	7600.	2176.2	45357.	52957.
47	13993.	7697.	0.	0.	7697.	2178.6	36663.	44360.
48	12415.	7919.	0.	0.	7919.	2180.3	25603.	33522.
49	7911.	8147.	0.	0.	8147.	2180.3	14375.	22522.
50	7704.	8338.	0.	0.	8338.	2180.0	14820.	23158.
51	11339.	8425.	0.	0.	8425.	2181.1	15866.	24291.
52	8978.	6920.	0.	0.	6920.	2182.0	13798.	20718.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1980 1	6672.	6690.	0.	0.	6690.	2182.0	12101.	18791.
2	8469.	6689.	0.	0.	6689.	2182.7	14306.	20995.
3	5948.	7170.	0.	0.	7170.	2182.2	8657.	15827.
4	4395.	7639.	0.	0.	7639.	2181.0	6957.	14596.
5	4084.	8083.	0.	0.	8083.	2179.5	6222.	14305.
6	3698.	8591.	0.	0.	8591.	2177.6	5933.	14524.
7	4120.	9048.	0.	0.	9048.	2175.7	6070.	15118.
8	2949.	11444.	0.	0.	11444.	2172.5	3864.	15308.
9	2811.	12030.	0.	0.	12030.	2169.0	4079.	16109.
10	2297.	12788.	0.	0.	12788.	2165.0	3174.	15962.
11	2069.	13156.	0.	0.	13156.	2160.8	2862.	16018.
12	1890.	12704.	0.	0.	12704.	2156.7	2894.	15598.
13	1711.	11856.	0.	0.	11856.	2152.9	2724.	14580.
14	1607.	11426.	0.	0.	11426.	2149.0	2561.	13987.
15	1535.	11424.	0.	0.	11424.	2144.5	2560.	13984.
16	1451.	11407.	0.	0.	11407.	2140.0	2464.	13871.
17	1379.	11426.	0.	0.	11426.	2135.5	2417.	13843.
18	1345.	11410.	0.	0.	11410.	2131.0	2315.	13725.
19	1285.	11450.	0.	0.	11450.	2126.4	2312.	13762.
20	1224.	11450.	0.	0.	11450.	2121.8	2197.	13647.
21	1176.	11334.	0.	0.	11334.	2117.3	2168.	13502.
22	1175.	11168.	0.	0.	11168.	2112.8	2226.	13394.
23	1177.	10475.	0.	0.	10475.	2108.6	2092.	12567.
24	1177.	10014.	0.	0.	10014.	2104.6	2053.	12067.
25	1177.	9534.	0.	0.	9534.	2100.8	1920.	11454.
26	1177.	9294.	0.	0.	9294.	2096.7	2016.	11310.
27	1122.	9107.	0.	0.	9107.	2092.4	2085.	11192.
28	1122.	7281.	0.	0.	7281.	2089.1	2240.	9521.
29	1179.	6985.	0.	0.	6985.	2086.1	2390.	9375.
30	1604.	6636.	0.	0.	6636.	2083.4	3458.	10094.
31	3462.	6304.	0.	0.	6304.	2081.9	5523.	11827.
32	8212.	6230.	0.	0.	6230.	2082.9	7298.	13528.
33	11764.	6541.	0.	0.	6541.	2085.7	9555.	16096.
34	10518.	6868.	0.	0.	6868.	2087.6	11918.	18786.
35	16714.	7211.	0.	0.	7211.	2092.7	20843.	28054.
36	25823.	7072.	0.	0.	7072.	2102.3	31875.	38947.
37	20349.	6862.	0.	0.	6862.	2108.3	32015.	38877.
38	26351.	6657.	0.	0.	6657.	2117.2	38488.	45145.
39	22988.	6408.	0.	0.	6408.	2124.6	45585.	51993.
40	26281.	6061.	0.	0.	6061.	2133.7	42871.	48932.
41	26663.	5954.	0.	0.	5954.	2143.1	50214.	56168.
42	28137.	7048.	0.	0.	7048.	2152.1	48793.	55841.
43	25275.	7006.	0.	0.	7006.	2159.1	49631.	56637.
44	28150.	7267.	0.	0.	7267.	2167.0	43028.	50295.
45	19051.	7526.	0.	0.	7526.	2171.4	31865.	39391.
46	18006.	7612.	0.	0.	7612.	2175.3	26325.	33937.
47	16331.	7702.	0.	0.	7702.	2178.6	25178.	32880.
48	11948.	7920.	0.	0.	7920.	2180.2	19444.	27364.
49	8723.	8148.	0.	0.	8148.	2180.4	16254.	24402.
50	9329.	8334.	0.	0.	8334.	2180.7	17123.	25457.
51	15679.	8506.	0.	0.	8506.	2183.5	25652.	34158.
52	10243.	8631.	0.	0.	8631.	2184.2	16282.	24913.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1981 1	8532.	8028.	0.	0.	8028.	2184.4	12715.	20743.
2	7605.	8027.	0.	0.	8027.	2184.2	11098.	19125.
3	6326.	8604.	0.	0.	8604.	2183.3	9288.	17892.
4	5214.	9167.	0.	0.	9167.	2181.8	7722.	16889.
5	3950.	9700.	0.	0.	9700.	2179.7	6465.	16165.
6	3534.	10309.	0.	0.	10309.	2177.1	5930.	16239.
7	2637.	10858.	0.	0.	10858.	2174.0	4925.	15783.
8	2685.	11444.	0.	0.	11444.	2170.6	4720.	16164.
9	2707.	12030.	0.	0.	12030.	2167.1	4406.	16436.
10	2175.	12788.	0.	0.	12788.	2163.1	3565.	16353.
11	1678.	13156.	0.	0.	13156.	2158.7	2984.	16140.
12	1578.	12704.	0.	0.	12704.	2154.5	2722.	15426.
13	1516.	11856.	0.	0.	11856.	2150.5	2569.	14425.
14	1448.	11426.	0.	0.	11426.	2146.2	2685.	14111.
15	1684.	11424.	0.	0.	11424.	2141.8	2588.	14012.
16	1961.	11407.	0.	0.	11407.	2137.5	2577.	13984.
17	2118.	11426.	0.	0.	11426.	2133.3	2589.	14015.
18	2142.	11410.	0.	0.	11410.	2129.2	2479.	13889.
19	1911.	11450.	0.	0.	11450.	2124.9	2688.	14138.
20	1594.	11450.	0.	0.	11450.	2120.4	2484.	13934.
21	1265.	11334.	0.	0.	11334.	2115.9	2355.	13689.
22	1190.	11168.	0.	0.	11168.	2111.4	2253.	13421.
23	1194.	10475.	0.	0.	10475.	2107.3	2175.	12650.
24	1274.	10014.	0.	0.	10014.	2103.3	2173.	12187.
25	1297.	9534.	0.	0.	9534.	2099.6	2104.	11638.
26	1314.	9294.	0.	0.	9294.	2095.3	2108.	11402.
27	1238.	7589.	0.	0.	7589.	2091.9	2133.	9722.
28	1291.	7281.	0.	0.	7281.	2088.7	2159.	9440.
29	1373.	6985.	0.	0.	6985.	2085.7	2369.	9354.
30	1779.	6636.	0.	0.	6636.	2083.2	3676.	10312.
31	4737.	6304.	0.	0.	6304.	2082.3	9863.	16167.
32	17566.	6230.	0.	0.	6230.	2088.4	23148.	29378.
33	17640.	6541.	0.	0.	6541.	2094.3	25217.	31758.
34	11625.	6868.	0.	0.	6868.	2096.8	22489.	29357.
35	19077.	7211.	0.	0.	7211.	2102.6	30037.	37248.
36	16465.	7072.	0.	0.	7072.	2106.9	28792.	35864.
37	14949.	7035.	0.	0.	7035.	2110.4	28280.	35315.
38	16085.	6885.	0.	0.	6885.	2114.6	36215.	43100.
39	18788.	6531.	0.	0.	6531.	2120.1	41426.	47957.
40	14090.	6061.	0.	0.	6061.	2123.7	40053.	46114.
41	33261.	5954.	0.	0.	5954.	2136.0	82439.	88393.
42	32516.	5873.	0.	0.	5873.	2147.9	64655.	70528.
43	29007.	7006.	0.	0.	7006.	2156.6	58036.	65042.
44	31168.	7267.	0.	0.	7267.	2165.7	60861.	68128.
45	30077.	7240.	0.	0.	7240.	2174.4	52837.	60077.
46	38871.	7561.	0.	3341.	10902.	2185.0	64786.	75688.
47	30803.	7682.	0.	23121.	30803.	2185.0	46197.	77000.
48	20647.	7898.	0.	12749.	20647.	2185.0	40324.	60971.
49	15158.	8119.	0.	7039.	15158.	2185.0	29085.	44243.
50	12220.	8299.	0.	3921.	12220.	2185.0	21537.	33757.
51	10197.	8481.	0.	1716.	10197.	2185.0	17660.	27857.
52	8299.	8618.	0.	0.	8618.	2184.9	13451.	22069.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUNSHINE  (CFS)	TOTAL FLOW SUNSHINE  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1982 1	5901.	8028.	0.	0.	8028.	2184.1	11313.	19341.
2	5560.	8027.	0.	0.	8027.	2183.1	10440.	18467.
3	5713.	8604.	0.	0.	8604.	2182.0	10501.	19105.
4	6627.	9167.	0.	0.	9167.	2181.1	11944.	21111.
5	3364.	8083.	0.	0.	8083.	2179.3	6565.	14648.
6	2845.	8591.	0.	0.	8591.	2177.1	5569.	14160.
7	2782.	9048.	0.	0.	9048.	2174.7	4489.	13537.
8	2339.	9537.	0.	0.	9537.	2172.0	3432.	12969.
9	2057.	12030.	0.	0.	12030.	2168.2	2857.	14887.
10	1971.	12788.	0.	0.	12788.	2164.1	2458.	15246.
11	1860.	13156.	0.	0.	13156.	2159.8	2183.	15339.
12	1794.	12704.	0.	0.	12704.	2155.6	2120.	14824.
13	1794.	11856.	0.	0.	11856.	2151.8	1863.	13719.
14	1697.	11426.	0.	0.	11426.	2147.8	1303.	12729.
15	1695.	11424.	0.	0.	11424.	2143.4	1805.	13229.
16	1695.	11407.	0.	0.	11407.	2139.0	1805.	13212.
17	1695.	11426.	0.	0.	11426.	2134.6	1805.	13231.
18	1729.	11410.	0.	0.	11410.	2130.3	1785.	13195.
19	1662.	11450.	0.	0.	11450.	2125.9	2167.	13617.
20	1213.	11450.	0.	0.	11450.	2121.3	2001.	13451.
21	881.	11334.	0.	0.	11334.	2116.6	1933.	13267.
22	767.	11168.	0.	0.	11168.	2111.9	1933.	13101.
23	826.	10475.	0.	0.	10475.	2107.6	1874.	12349.
24	826.	10014.	0.	0.	10014.	2103.4	1874.	11888.
25	874.	9534.	0.	0.	9534.	2099.5	1926.	11460.
26	1123.	9294.	0.	0.	9294.	2095.1	2263.	11557.
27	956.	7589.	0.	0.	7589.	2091.6	2401.	9990.
28	956.	7281.	0.	0.	7281.	2088.2	2344.	9625.
29	1057.	6985.	0.	0.	6985.	2085.0	2457.	9442.
30	1403.	6636.	0.	0.	6636.	2082.3	3126.	9762.
31	2641.	6304.	0.	0.	6304.	2080.3	3916.	10220.
32	6274.	6230.	0.	0.	6230.	2080.3	9640.	15870.
33	11618.	6541.	0.	0.	6541.	2083.0	19382.	25923.
34	15603.	6868.	0.	0.	6868.	2087.7	19397.	26265.
35	17916.	7211.	0.	0.	7211.	2093.4	28484.	35695.
36	21638.	7072.	0.	0.	7072.	2101.0	43748.	50820.
37	18090.	6862.	0.	0.	6862.	2106.0	37767.	44629.
38	23883.	6657.	0.	0.	6657.	2113.8	39217.	45874.
39	23173.	6408.	0.	0.	6408.	2121.3	46084.	52492.
40	16689.	6189.	0.	0.	6189.	2126.0	34811.	41000.
41	20637.	5954.	0.	0.	5954.	2132.6	37249.	43203.
42	20979.	5873.	0.	0.	5873.	2139.4	38407.	44280.
43	23533.	5838.	0.	0.	5838.	2147.4	54724.	60562.
44	20306.	6056.	0.	0.	6056.	2153.2	46908.	52964.
45	13970.	6341.	0.	0.	6341.	2156.1	35830.	42171.
46	12157.	6686.	0.	0.	6686.	2158.2	32886.	39572.
47	10610.	6981.	0.	0.	6981.	2159.6	27890.	34871.
48	11835.	6821.	0.	0.	6821.	2161.5	28336.	35157.
49	10670.	5334.	0.	0.	5334.	2163.5	27159.	32493.
50	13360.	5476.	0.	0.	5476.	2166.5	28611.	34087.
51	21010.	5617.	0.	0.	5617.	2172.3	55147.	60764.
52	11582.	5536.	0.	0.	5536.	2175.0	29168.	34704.

TABLE 9

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUNSHINE	TOTAL FLOW SUNSHINE
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1983 1	7782.	5352.	0.	0.	5352.	2175.9	18318.	23670.
2	6119.	5351.	0.	0.	5351.	2176.2	13281.	18632.
3	4982.	5736.	0.	0.	5736.	2175.9	9832.	15568.
4	2921.	6111.	0.	0.	6111.	2174.7	9379.	15490.
5	2384.	6466.	0.	0.	6466.	2173.1	8059.	14525.
6	2252.	6873.	0.	0.	6873.	2171.4	6891.	13764.
7	2137.	9048.	0.	0.	9048.	2168.7	6077.	15125.
8	1997.	9537.	0.	0.	9537.	2165.9	5289.	14826.
9	1944.	10025.	0.	0.	10025.	2162.8	4842.	14867.
10	1850.	10657.	0.	0.	10657.	2159.5	4364.	15021.
11	1850.	10963.	0.	0.	10963.	2156.0	4079.	15042.
12	1850.	10587.	0.	0.	10587.	2152.7	3650.	14237.
13	1965.	9880.	0.	0.	9880.	2149.6	3764.	13644.
14	2201.	9522.	0.	0.	9522.	2146.3	4313.	13835.
15	1906.	9520.	0.	0.	9520.	2142.9	3537.	13057.
16	1690.	9506.	0.	0.	9506.	2139.4	3153.	12659.
17	1588.	9522.	0.	0.	9522.	2135.8	3083.	12605.
18	1553.	9508.	0.	0.	9508.	2132.2	3047.	12555.
19	1535.	9542.	0.	0.	9542.	2128.6	2979.	12521.
20	1650.	9542.	0.	0.	9542.	2125.1	3293.	12835.
21	1685.	9445.	0.	0.	9445.	2121.6	3101.	12546.
22	1583.	9307.	0.	0.	9307.	2118.1	2603.	11910.
23	1534.	8729.	0.	0.	8729.	2114.9	2295.	11024.
24	1437.	8345.	0.	0.	8345.	2111.8	2049.	10394.
25	1389.	7945.	0.	0.	7945.	2108.8	1854.	9799.
26	1280.	7745.	0.	0.	7745.	2105.9	1834.	9579.
27	1185.	7589.	0.	0.	7589.	2103.0	1972.	9561.
28	1208.	7281.	0.	0.	7281.	2100.3	2078.	9359.
29	1411.	6985.	0.	0.	6985.	2097.4	2489.	9474.
30	1907.	6636.	0.	0.	6636.	2094.9	3607.	10243.
31	3484.	6304.	0.	0.	6304.	2093.4	6345.	12649.
32	8419.	6230.	0.	0.	6230.	2094.5	14795.	21025.
33	14537.	6541.	0.	0.	6541.	2098.8	25663.	32204.
34	12909.	6868.	0.	0.	6868.	2101.7	24091.	30959.
35	18671.	7211.	0.	0.	7211.	2106.9	31029.	38240.
36	23758.	7072.	0.	0.	7072.	2114.4	32628.	39700.
37	17019.	6862.	0.	0.	6862.	2118.9	28252.	35114.
38	20754.	6657.	0.	0.	6657.	2125.3	36046.	42703.
39	20568.	6408.	0.	0.	6408.	2131.6	42732.	49140.
40	22463.	7273.	0.	0.	7273.	2138.5	40980.	48253.
41	19352.	7145.	0.	0.	7145.	2144.0	39591.	46736.
42	16152.	7048.	0.	0.	7048.	2148.1	31719.	38767.
43	17431.	7006.	0.	0.	7006.	2152.3	30640.	37646.
44	17935.	7267.	0.	0.	7267.	2156.4	34136.	41403.
45	22829.	7240.	0.	0.	7240.	2162.3	52371.	59611.
46	21149.	7361.	0.	0.	7361.	2167.5	43237.	50598.
47	18683.	7468.	0.	0.	7468.	2171.8	30517.	37985.
48	22728.	7750.	0.	0.	7750.	2177.5	30786.	38536.
49	15528.	8002.	0.	0.	8002.	2180.3	29672.	37674.
50	9607.	8214.	0.	0.	8214.	2180.9	17393.	25607.
51	8465.	8425.	0.	0.	8425.	2180.9	13106.	21531.
52	9728.	6920.	0.	0.	6920.	2182.1	12197.	19117.

**TABLE 10**

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1951 1	4521.	5352.	0.	0.	5352.	2157.9	62998.	68350.
2	4029.	5351.	0.	0.	5351.	2157.4	62585.	67936.
3	3518.	5736.	0.	0.	5736.	2156.6	48402.	54138.
4	2007.	6111.	0.	0.	6111.	2155.0	33225.	39336.
5	1248.	6466.	0.	0.	6466.	2153.0	20455.	26921.
6	1176.	6873.	0.	0.	6873.	2150.9	14967.	21840.
7	1103.	7238.	0.	0.	7238.	2148.3	16309.	23547.
8	1042.	7630.	0.	0.	7630.	2145.3	10985.	18615.
9	994.	8020.	0.	0.	8020.	2142.1	9906.	17926.
10	903.	8526.	0.	0.	8526.	2138.7	10221.	18747.
11	903.	8770.	0.	0.	8770.	2135.2	9981.	18751.
12	903.	8470.	0.	0.	8470.	2131.8	7657.	16127.
13	903.	7904.	0.	0.	7904.	2128.6	7123.	15027.
14	828.	7618.	0.	0.	7618.	2125.6	6414.	14032.
15	812.	7616.	0.	0.	7616.	2122.5	6230.	13846.
16	812.	7605.	0.	0.	7605.	2119.5	7205.	14810.
17	812.	7618.	0.	0.	7618.	2116.4	7413.	15031.
18	757.	7606.	0.	0.	7606.	2113.3	8334.	15940.
19	667.	7634.	0.	0.	7634.	2110.2	8461.	16095.
20	667.	7634.	0.	0.	7634.	2107.0	7614.	15248.
21	667.	7556.	0.	0.	7556.	2103.9	7740.	15296.
22	641.	7446.	0.	0.	7446.	2100.9	6477.	13923.
23	618.	6983.	0.	0.	6983.	2097.7	6308.	13291.
24	618.	6676.	0.	0.	6676.	2094.4	5821.	12497.
25	618.	6356.	0.	0.	6356.	2091.4	5500.	11856.
26	618.	6196.	0.	0.	6196.	2088.4	6089.	12285.
27	542.	6071.	0.	0.	6071.	2085.5	5401.	11472.
28	700.	5825.	0.	0.	5825.	2082.7	6713.	12538.
29	1071.	5588.	0.	0.	5588.	2080.3	7221.	12809.
30	1861.	5309.	0.	0.	5309.	2078.5	10373.	15682.
31	4923.	5043.	0.	0.	5043.	2078.4	21948.	26991.
32	14338.	4984.	0.	0.	4984.	2083.4	52702.	57686.
33	15945.	5233.	0.	0.	5233.	2089.1	51865.	57098.
34	7915.	5494.	0.	0.	5494.	2090.4	59134.	64628.
35	13828.	5769.	0.	0.	5769.	2094.7	54386.	60155.
36	26696.	6153.	0.	0.	6153.	2104.8	75720.	81873.
37	19247.	6947.	0.	0.	6947.	2110.3	95159.	102106.
38	12238.	7695.	0.	0.	7695.	2112.3	82477.	90172.
39	17232.	7161.	0.	0.	7161.	2116.9	104624.	111785.
40	18464.	6735.	0.	0.	6735.	2122.1	104693.	111428.
41	21682.	6339.	0.	0.	6339.	2129.0	125688.	132027.
42	20740.	6454.	0.	0.	6454.	2135.5	107963.	114417.
43	19074.	6660.	0.	0.	6660.	2141.0	87266.	93926.
44	17891.	5462.	0.	0.	5462.	2146.6	95290.	100752.
45	14413.	5799.	0.	0.	5799.	2150.4	104434.	110233.
46	15312.	5598.	0.	0.	5598.	2154.1	85469.	91067.
47	14985.	5671.	0.	0.	5671.	2157.7	86192.	91863.
48	21048.	5166.	0.	0.	5166.	2163.7	69142.	74308.
49	24531.	5334.	0.	0.	5334.	2171.0	76023.	81357.
50	15237.	5476.	0.	0.	5476.	2174.7	61836.	67312.
51	15738.	5617.	0.	0.	5617.	2178.5	80725.	86342.
52	13323.	5536.	0.	0.	5536.	2181.9	49337.	54873.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1952 1	7559.	5352.	0.	0.	5352.	2182.8	32972.	38324.
2	5055.	6689.	0.	0.	6689.	2182.1	31592.	38281.
3	3674.	7170.	0.	0.	7170.	2180.8	26521.	33691.
4	2855.	7639.	0.	0.	7639.	2179.0	18908.	26547.
5	2793.	8083.	0.	0.	8083.	2177.0	15206.	23289.
6	2609.	8591.	0.	0.	8591.	2174.7	12556.	21147.
7	1928.	9048.	0.	0.	9048.	2172.0	10870.	19918.
8	1908.	9537.	0.	0.	9537.	2169.1	12546.	22083.
9	1761.	10025.	0.	0.	10025.	2166.0	12836.	22861.
10	1489.	10657.	0.	0.	10657.	2162.5	9215.	19872.
11	1489.	10963.	0.	0.	10963.	2158.9	9780.	20743.
12	1489.	10587.	0.	0.	10587.	2155.4	9470.	20057.
13	1489.	9880.	0.	0.	9880.	2152.2	8498.	18378.
14	1329.	9522.	0.	0.	9522.	2149.0	6601.	16123.
15	1299.	9520.	0.	0.	9520.	2145.3	6611.	16131.
16	1299.	9506.	0.	0.	9506.	2141.6	6746.	16252.
17	1299.	9522.	0.	0.	9522.	2137.9	6422.	15944.
18	1069.	9508.	0.	0.	9508.	2134.1	5687.	15195.
19	819.	9542.	0.	0.	9542.	2130.2	5181.	14723.
20	819.	9542.	0.	0.	9542.	2126.2	5104.	14646.
21	819.	9445.	0.	0.	9445.	2122.4	5295.	14740.
22	784.	9307.	0.	0.	9307.	2118.5	5216.	14523.
23	730.	8729.	0.	0.	8729.	2114.9	5329.	14058.
24	730.	8345.	0.	0.	8345.	2111.5	5291.	13636.
25	730.	7945.	0.	0.	7945.	2108.3	4953.	12898.
26	730.	7745.	0.	0.	7745.	2105.1	4360.	12105.
27	796.	7589.	0.	0.	7589.	2102.0	3946.	11535.
28	796.	7281.	0.	0.	7281.	2099.0	3424.	10705.
29	796.	6985.	0.	0.	6985.	2095.7	3211.	10196.
30	796.	6636.	0.	0.	6636.	2092.6	4321.	10957.
31	909.	6304.	0.	0.	6304.	2089.7	4987.	11291.
32	1132.	6230.	0.	0.	6230.	2087.0	12791.	19021.
33	1549.	6541.	0.	0.	6541.	2084.3	31229.	37770.
34	3357.	6868.	0.	0.	6868.	2082.5	44816.	51684.
35	16784.	7211.	0.	0.	7211.	2087.5	55628.	62839.
36	19892.	7072.	0.	0.	7072.	2094.4	72468.	79540.
37	28174.	6862.	0.	0.	6862.	2104.8	66684.	73546.
38	30555.	6657.	0.	0.	6657.	2115.6	72379.	79036.
39	27039.	6408.	0.	0.	6408.	2124.9	89611.	96019.
40	23527.	6061.	0.	0.	6061.	2132.7	89721.	95782.
41	16714.	6085.	0.	0.	6085.	2137.5	91943.	98028.
42	21361.	5873.	0.	0.	5873.	2144.5	96095.	101968.
43	23150.	5838.	0.	0.	5838.	2151.9	94565.	100403.
44	30727.	6056.	0.	0.	6056.	2161.3	92124.	98180.
45	19888.	7240.	0.	0.	7240.	2166.1	98124.	105364.
46	15618.	7361.	0.	0.	7361.	2169.2	93618.	100979.
47	11855.	7468.	0.	0.	7468.	2170.9	71260.	78728.
48	13935.	7750.	0.	0.	7750.	2173.2	54233.	61983.
49	15561.	6668.	0.	0.	6668.	2176.6	49224.	55892.
50	10522.	6845.	0.	0.	6845.	2178.0	46513.	53358.
51	9086.	7021.	0.	0.	7021.	2178.8	48852.	55873.
52	10876.	6920.	0.	0.	6920.	2180.5	64780.	71700.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1953 1	8559.	6690.	0.	0.	6690.	2181.2	40769.	47459.
2	7982.	6689.	0.	0.	6689.	2181.7	41172.	47861.
3	5556.	7170.	0.	0.	7170.	2181.1	28524.	35694.
4	4049.	7639.	0.	0.	7639.	2179.7	20851.	28490.
5	3948.	8083.	0.	0.	8083.	2178.2	19393.	27476.
6	3377.	8591.	0.	0.	8591.	2176.2	20544.	29135.
7	2164.	9048.	0.	0.	9048.	2173.6	15934.	24982.
8	2652.	9537.	0.	0.	9537.	2170.9	13515.	23052.
9	1913.	10025.	0.	0.	10025.	2167.9	13847.	23872.
10	1250.	10657.	0.	0.	10657.	2164.3	10431.	21088.
11	1250.	10963.	0.	0.	10963.	2160.6	8319.	19282.
12	1250.	10587.	0.	0.	10587.	2157.1	10184.	20771.
13	1250.	9880.	0.	0.	9880.	2153.8	8467.	18347.
14	880.	9522.	0.	0.	9522.	2150.5	8684.	18206.
15	820.	9520.	0.	0.	9520.	2146.7	7429.	16949.
16	820.	9506.	0.	0.	9506.	2142.8	7738.	17244.
17	820.	9522.	0.	0.	9522.	2138.9	7741.	17263.
18	722.	9508.	0.	0.	9508.	2134.9	6835.	16343.
19	598.	9542.	0.	0.	9542.	2130.9	6892.	16434.
20	598.	9542.	0.	0.	9542.	2126.9	6773.	16315.
21	598.	9445.	0.	0.	9445.	2122.9	5769.	15214.
22	606.	9307.	0.	0.	9307.	2119.0	5427.	14734.
23	678.	8729.	0.	0.	8729.	2115.3	5421.	14150.
24	678.	8345.	0.	0.	8345.	2111.9	4606.	12951.
25	678.	7945.	0.	0.	7945.	2108.6	4374.	12319.
26	678.	7745.	0.	0.	7745.	2105.4	4662.	12407.
27	486.	7589.	0.	0.	7589.	2102.3	4655.	12244.
28	486.	7281.	0.	0.	7281.	2099.1	4886.	12167.
29	785.	6985.	0.	0.	6985.	2095.7	5262.	12247.
30	1308.	6636.	0.	0.	6636.	2092.9	7007.	13643.
31	10007.	6304.	0.	0.	6304.	2094.9	16001.	22305.
32	13666.	6230.	0.	0.	6230.	2098.8	24909.	31139.
33	12435.	6541.	0.	0.	6541.	2101.7	38898.	45439.
34	21448.	6868.	0.	0.	6868.	2108.2	54197.	61065.
35	16652.	7211.	0.	0.	7211.	2112.5	59454.	66665.
36	27821.	8486.	0.	0.	8486.	2121.2	56281.	64767.
37	21482.	8234.	0.	0.	8234.	2127.1	69935.	78169.
38	17488.	7988.	0.	0.	7988.	2131.4	76463.	84451.
39	20466.	7690.	0.	0.	7690.	2137.1	100572.	108262.
40	17377.	7273.	0.	0.	7273.	2141.7	96408.	103681.
41	15695.	7145.	0.	0.	7145.	2145.5	105411.	112556.
42	17070.	7048.	0.	0.	7048.	2150.0	106151.	113199.
43	17745.	7006.	0.	0.	7006.	2154.1	94176.	101182.
44	20931.	7267.	0.	0.	7267.	2159.3	115882.	123149.
45	17859.	7240.	0.	0.	7240.	2163.3	119173.	126413.
46	14312.	7361.	0.	0.	7361.	2166.0	108785.	116146.
47	14731.	7468.	0.	0.	7468.	2168.7	89215.	96683.
48	17519.	6458.	0.	0.	6458.	2172.9	77389.	83847.
49	14058.	6668.	0.	0.	6668.	2175.8	71699.	78367.
50	12806.	6845.	0.	0.	6845.	2178.0	89036.	95881.
51	10679.	7021.	0.	0.	7021.	2179.4	128151.	135172.
52	8137.	6920.	0.	0.	6920.	2179.9	80179.	87099.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	WATANA OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1954 1	6126.	6690.	0.	0.	6690.	2179.7	38642.	45332.
2	5080.	6689.	0.	0.	6689.	2179.1	43955.	50644.
3	3728.	7170.	0.	0.	7170.	2177.8	50431.	57601.
4	2971.	7639.	0.	0.	7639.	2176.0	35437.	43076.
5	1821.	8083.	0.	0.	8083.	2173.6	20541.	28624.
6	1738.	8591.	0.	0.	8591.	2171.0	20762.	29353.
7	1608.	9048.	0.	0.	9048.	2168.2	18067.	27115.
8	1497.	9537.	0.	0.	9537.	2165.2	14874.	24411.
9	1361.	10025.	0.	0.	10025.	2161.9	11131.	21156.
10	1174.	10657.	0.	0.	10657.	2158.3	9920.	20577.
11	1174.	10963.	0.	0.	10963.	2154.6	10934.	21897.
12	1174.	10587.	0.	0.	10587.	2151.0	9413.	20000.
13	1174.	9880.	0.	0.	9880.	2147.2	7726.	17606.
14	1120.	9522.	0.	0.	9522.	2143.5	8303.	17825.
15	1099.	9520.	0.	0.	9520.	2139.7	7980.	17500.
16	1099.	9506.	0.	0.	9506.	2135.9	7191.	16697.
17	1099.	9522.	0.	0.	9522.	2132.1	6242.	15764.
18	982.	9508.	0.	0.	9508.	2128.3	5730.	15238.
19	794.	9542.	0.	0.	9542.	2124.3	5797.	15339.
20	794.	9542.	0.	0.	9542.	2120.4	6214.	15756.
21	794.	9445.	0.	0.	9445.	2116.5	5815.	15260.
22	716.	9307.	0.	0.	9307.	2112.7	5911.	15218.
23	630.	8729.	0.	0.	8729.	2109.0	6352.	15081.
24	630.	8345.	0.	0.	8345.	2105.5	6027.	14372.
25	630.	7945.	0.	0.	7945.	2102.2	5352.	13297.
26	630.	7745.	0.	0.	7745.	2098.9	5428.	13173.
27	506.	7589.	0.	0.	7589.	2095.1	5337.	12926.
28	506.	7281.	0.	0.	7281.	2091.5	5083.	12364.
29	870.	6985.	0.	0.	6985.	2088.2	6103.	13088.
30	930.	6636.	0.	0.	6636.	2085.2	6578.	13214.
31	4308.	6304.	0.	0.	6304.	2084.1	29018.	35322.
32	8521.	6230.	0.	0.	6230.	2085.4	35898.	42128.
33	13802.	6541.	0.	0.	6541.	2089.2	46049.	52590.
34	15823.	6868.	0.	0.	6868.	2094.0	48972.	55840.
35	14807.	7211.	0.	0.	7211.	2098.0	47109.	54320.
36	19799.	7072.	0.	0.	7072.	2104.1	56842.	63914.
37	19022.	6862.	0.	0.	6862.	2109.5	57662.	64524.
38	18245.	6657.	0.	0.	6657.	2114.7	65034.	71691.
39	22178.	6408.	0.	0.	6408.	2121.8	88608.	95016.
40	19307.	6061.	0.	0.	6061.	2127.8	84650.	90711.
41	15396.	5954.	0.	0.	5954.	2132.0	85667.	91621.
42	14981.	5873.	0.	0.	5873.	2136.1	76759.	82632.
43	14981.	5838.	0.	0.	5838.	2140.2	69852.	75690.
44	24614.	4845.	0.	0.	4845.	2149.1	78052.	82897.
45	20049.	5049.	0.	0.	5049.	2155.0	87173.	92222.
46	20049.	5049.	0.	0.	5049.	2160.7	83027.	88076.
47	20049.	5049.	0.	0.	5049.	2166.4	78889.	83938.
48	18930.	5166.	0.	0.	5166.	2171.6	60156.	65322.
49	11256.	5334.	0.	0.	5334.	2173.8	42819.	48153.
50	9676.	5476.	0.	0.	5476.	2175.4	44660.	50136.
51	9025.	5617.	0.	0.	5617.	2176.7	63105.	68722.
52	5793.	5536.	0.	0.	5536.	2176.8	37695.	43231.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1955 1	4746.	5352.	0.	0.	5352.	2176.6	25730.	31082.
2	4461.	5351.	0.	0.	5351.	2176.3	31381.	36732.
3	3359.	5736.	0.	0.	5736.	2175.4	24990.	30726.
4	3359.	6111.	0.	0.	6111.	2174.3	23718.	29829.
5	2716.	6466.	0.	0.	6466.	2172.9	19929.	26395.
6	2156.	6873.	0.	0.	6873.	2171.1	16424.	23297.
7	2032.	9048.	0.	0.	9048.	2168.4	11131.	20179.
8	1796.	9537.	0.	0.	9537.	2165.5	9389.	18926.
9	1756.	10025.	0.	0.	10025.	2162.4	10817.	20842.
10	1657.	10657.	0.	0.	10657.	2158.9	7478.	18135.
11	1624.	10963.	0.	0.	10963.	2155.4	7388.	18351.
12	1431.	10587.	0.	0.	10587.	2151.9	8516.	19103.
13	1431.	9880.	0.	0.	9880.	2148.5	7288.	17168.
14	1546.	9522.	0.	0.	9522.	2144.9	7773.	17295.
15	1561.	9520.	0.	0.	9520.	2141.3	6813.	16333.
16	1338.	9506.	0.	0.	9506.	2137.6	6346.	15852.
17	1249.	9522.	0.	0.	9522.	2133.9	6372.	15894.
18	1179.	9508.	0.	0.	9508.	2130.2	6476.	15984.
19	1052.	9542.	0.	0.	9542.	2126.4	6549.	16091.
20	1052.	9542.	0.	0.	9542.	2122.5	6002.	15544.
21	1052.	9445.	0.	0.	9445.	2118.8	5824.	15269.
22	949.	9307.	0.	0.	9307.	2115.0	5800.	15107.
23	879.	8729.	0.	0.	8729.	2111.5	5861.	14590.
24	879.	8345.	0.	0.	8345.	2108.1	5394.	13739.
25	879.	7945.	0.	0.	7945.	2104.9	4588.	12533.
26	879.	7745.	0.	0.	7745.	2101.8	5193.	12938.
27	828.	7589.	0.	0.	7589.	2098.6	5527.	13116.
28	828.	7281.	0.	0.	7281.	2095.1	5335.	12616.
29	828.	6985.	0.	0.	6985.	2091.9	5246.	12231.
30	828.	6636.	0.	0.	6636.	2088.8	6695.	13331.
31	2519.	6304.	0.	0.	6304.	2086.8	12808.	19112.
32	3321.	6230.	0.	0.	6230.	2085.2	23698.	29928.
33	3882.	6541.	0.	0.	6541.	2083.8	51326.	57867.
34	11626.	6868.	0.	0.	6868.	2086.3	63750.	70618.
35	12771.	7211.	0.	0.	7211.	2089.3	72399.	79610.
36	17007.	7072.	0.	0.	7072.	2094.6	90576.	97648.
37	27727.	6862.	0.	0.	6862.	2104.8	78706.	85568.
38	30081.	6657.	0.	0.	6657.	2115.3	87409.	94066.
39	28168.	6408.	0.	0.	6408.	2125.1	102259.	108667.
40	29660.	6061.	0.	0.	6061.	2135.7	119830.	125891.
41	24776.	5954.	0.	0.	5954.	2144.2	138576.	144530.
42	19124.	7048.	0.	0.	7048.	2149.6	139197.	146245.
43	22869.	7006.	0.	0.	7006.	2155.7	131412.	138418.
44	20805.	7267.	0.	0.	7267.	2160.9	104591.	111858.
45	19270.	7370.	0.	0.	7370.	2165.4	111266.	118636.
46	19771.	7361.	0.	0.	7361.	2170.1	114333.	121694.
47	24039.	7468.	0.	0.	7468.	2176.4	83681.	91149.
48	34146.	7918.	0.	3571.	11489.	2185.0	49905.	61394.
49	17921.	8126.	0.	9795.	17921.	2185.0	57703.	75624.
50	13691.	8303.	0.	5388.	13691.	2185.0	69551.	83242.
51	11128.	8484.	0.	2644.	11128.	2185.0	69744.	80872.
52	8763.	8618.	0.	145.	8763.	2185.0	70761.	79524.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	VALVE EXCESS RELEASE (CFS)				
1956 1	6059.	8028.	0.	0.	8028.	2184.3	42012.	50040.
2	4461.	8027.	0.	0.	8027.	2182.9	48839.	56866.
3	3633.	8604.	0.	0.	8604.	2181.0	49324.	57928.
4	3129.	7639.	0.	0.	7639.	2179.3	37967.	45606.
5	2062.	8083.	0.	0.	8083.	2177.0	22374.	30457.
6	1721.	8591.	0.	0.	8591.	2174.4	16661.	25252.
7	1581.	9048.	0.	0.	9048.	2171.6	13735.	22783.
8	1393.	9537.	0.	0.	9537.	2168.5	12676.	22213.
9	1306.	10025.	0.	0.	10025.	2165.2	11104.	21129.
10	1027.	10657.	0.	0.	10657.	2161.5	8775.	19432.
11	1027.	10963.	0.	0.	10963.	2157.7	9791.	20754.
12	1027.	10587.	0.	0.	10587.	2154.1	8590.	19177.
13	1027.	9880.	0.	0.	9880.	2150.7	9527.	19407.
14	848.	9522.	0.	0.	9522.	2147.0	8590.	18112.
15	810.	9520.	0.	0.	9520.	2143.0	8268.	17788.
16	810.	9506.	0.	0.	9506.	2139.1	7201.	16707.
17	810.	9522.	0.	0.	9522.	2135.2	7301.	16823.
18	809.	9508.	0.	0.	9508.	2131.3	7527.	17035.
19	750.	9542.	0.	0.	9542.	2127.4	7199.	16741.
20	750.	9542.	0.	0.	9542.	2123.4	6902.	16444.
21	750.	9445.	0.	0.	9445.	2119.5	6551.	15996.
22	739.	9307.	0.	0.	9307.	2115.6	6417.	15724.
23	689.	8729.	0.	0.	8729.	2112.0	5547.	14276.
24	689.	8345.	0.	0.	8345.	2108.6	5497.	13842.
25	689.	7945.	0.	0.	7945.	2105.3	4624.	12569.
26	689.	7745.	0.	0.	7745.	2102.1	4758.	12503.
27	641.	7589.	0.	0.	7589.	2098.8	5292.	12881.
28	641.	7281.	0.	0.	7281.	2095.3	4621.	11902.
29	641.	6985.	0.	0.	6985.	2091.9	4841.	11826.
30	641.	6636.	0.	0.	6636.	2088.7	5996.	12632.
31	1798.	6304.	0.	0.	6304.	2086.3	10629.	16933.
32	8483.	6230.	0.	0.	6230.	2087.5	38346.	44576.
33	12106.	6541.	0.	0.	6541.	2090.5	42552.	49093.
34	24085.	6868.	0.	0.	6868.	2099.7	47915.	54783.
35	15966.	7211.	0.	0.	7211.	2103.6	77770.	84981.
36	27294.	7072.	0.	0.	7072.	2112.7	123303.	130375.
37	35522.	6862.	0.	0.	6862.	2125.6	130388.	137250.
38	26081.	7988.	0.	0.	7988.	2133.8	119171.	127159.
39	22994.	7690.	0.	0.	7690.	2140.7	115123.	122813.
40	24335.	7547.	0.	0.	7547.	2148.2	105033.	112580.
41	26536.	7433.	0.	0.	7433.	2155.7	114814.	122247.
42	26799.	7324.	0.	0.	7324.	2163.1	112565.	119889.
43	26153.	7263.	0.	0.	7263.	2170.3	96755.	104018.
44	24666.	7474.	0.	0.	7474.	2176.8	101742.	109216.
45	22447.	7425.	0.	0.	7425.	2182.5	101307.	108732.
46	20285.	7529.	0.	6301.	13830.	2185.0	93643.	107473.
47	16173.	7647.	0.	8526.	16173.	2185.0	62713.	78886.
48	13792.	7881.	0.	5911.	13792.	2185.0	48239.	62031.
49	11446.	8110.	0.	3336.	11446.	2185.0	35869.	47315.
50	16046.	8309.	0.	7737.	16046.	2185.0	41173.	57219.
51	15637.	8496.	0.	7141.	15637.	2185.0	62950.	78587.
52	10015.	8623.	0.	1392.	10015.	2185.0	40526.	50541.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1957 1	5279.	8028.	0.	0.	8028.	2184.0	26568.	34596.
2	5279.	8027.	0.	0.	8027.	2182.9	21365.	29392.
3	3583.	8604.	0.	0.	8604.	2181.0	17937.	26541.
4	3300.	7639.	0.	0.	7639.	2179.4	18379.	26018.
5	2789.	8083.	0.	0.	8083.	2177.3	16999.	25082.
6	2342.	8591.	0.	0.	8591.	2175.0	18784.	27375.
7	2247.	9048.	0.	0.	9048.	2172.4	16489.	25537.
8	2123.	9537.	0.	0.	9537.	2169.6	10974.	20511.
9	2035.	10025.	0.	0.	10025.	2166.5	9569.	19594.
10	1908.	10657.	0.	0.	10657.	2163.2	6173.	16830.
11	1852.	10963.	0.	0.	10963.	2159.8	5452.	16415.
12	1509.	10587.	0.	0.	10587.	2156.3	5233.	15820.
13	1509.	9880.	0.	0.	9880.	2153.1	5493.	15373.
14	1399.	9522.	0.	0.	9522.	2150.0	5661.	15183.
15	1378.	9520.	0.	0.	9520.	2146.4	5884.	15404.
16	1378.	9506.	0.	0.	9506.	2142.7	5966.	15472.
17	1378.	9522.	0.	0.	9522.	2139.1	5903.	15425.
18	1310.	9508.	0.	0.	9508.	2135.4	5912.	15420.
19	1193.	9542.	0.	0.	9542.	2131.6	6356.	15898.
20	1193.	9542.	0.	0.	9542.	2127.9	5590.	15132.
21	1193.	9445.	0.	0.	9445.	2124.2	6326.	15771.
22	1079.	9307.	0.	0.	9307.	2120.5	5207.	14514.
23	920.	8729.	0.	0.	8729.	2116.9	4959.	13688.
24	920.	8345.	0.	0.	8345.	2113.6	4938.	13283.
25	920.	7945.	0.	0.	7945.	2110.4	4710.	12655.
26	920.	7745.	0.	0.	7745.	2107.4	4783.	12528.
27	837.	7589.	0.	0.	7589.	2104.3	4368.	11957.
28	837.	7281.	0.	0.	7281.	2101.4	3987.	11268.
29	837.	6985.	0.	0.	6985.	2098.4	4758.	11743.
30	837.	6636.	0.	0.	6636.	2095.3	6742.	13378.
31	2452.	6304.	0.	0.	6304.	2093.3	11641.	17945.
32	4269.	6230.	0.	0.	6230.	2092.2	26103.	32333.
33	6969.	6541.	0.	0.	6541.	2092.5	49311.	55852.
34	15611.	6868.	0.	0.	6868.	2097.1	56594.	63462.
35	23050.	7211.	0.	0.	7211.	2104.7	86250.	93461.
36	31747.	7072.	0.	0.	7072.	2115.8	110532.	117604.
37	28053.	6862.	0.	0.	6862.	2125.3	100856.	107718.
38	24892.	7988.	0.	0.	7988.	2132.9	110871.	118859.
39	17043.	7690.	0.	0.	7690.	2137.1	95287.	102977.
40	19864.	7273.	0.	0.	7273.	2142.8	83530.	90803.
41	18252.	7145.	0.	0.	7145.	2147.8	90244.	97389.
42	20463.	7048.	0.	0.	7048.	2153.2	88448.	95496.
43	22198.	7006.	0.	0.	7006.	2159.0	78699.	85705.
44	17659.	7267.	0.	0.	7267.	2163.0	89561.	96828.
45	17664.	7240.	0.	0.	7240.	2166.9	97370.	104610.
46	17568.	7361.	0.	0.	7361.	2170.8	107987.	115348.
47	16111.	7468.	0.	0.	7468.	2174.1	82830.	90298.
48	17804.	7750.	0.	0.	7750.	2177.9	64796.	72546.
49	14143.	8002.	0.	0.	8002.	2180.2	51926.	59928.
50	15435.	8214.	0.	0.	8214.	2183.0	57155.	65369.
51	15008.	8490.	0.	1173.	9664.	2185.0	50480.	60444.
52	14415.	8635.	0.	5780.	14415.	2185.0	44076.	58491.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
			ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1958 1	7628.	8028.	0.	0.	8028.	2184.8	26826.	34854.
2	6544.	8027.	0.	0.	8027.	2184.3	28031.	36058.
3	5337.	8604.	0.	0.	8604.	2183.0	18887.	27491.
4	5503.	9167.	0.	0.	9167.	2181.7	19942.	29109.
5	3997.	9700.	0.	0.	9700.	2179.5	25120.	34820.
6	3287.	10309.	0.	0.	10309.	2176.8	26049.	36358.
7	2815.	10858.	0.	0.	10858.	2173.8	19867.	30725.
8	2314.	11444.	0.	0.	11444.	2170.3	12671.	24115.
9	2637.	12030.	0.	0.	12030.	2166.7	15120.	27150.
10	2991.	12788.	0.	0.	12788.	2163.0	11462.	24250.
11	2551.	13156.	0.	0.	13156.	2159.0	7855.	21011.
12	1902.	12704.	0.	0.	12704.	2154.9	6460.	19164.
13	1544.	11856.	0.	0.	11856.	2151.0	7092.	18948.
14	1839.	11426.	0.	0.	11426.	2146.8	7639.	19065.
15	1614.	11424.	0.	0.	11424.	2142.4	7488.	18912.
16	1408.	11407.	0.	0.	11407.	2137.9	6890.	18297.
17	1332.	11426.	0.	0.	11426.	2133.4	6647.	18073.
18	1101.	11410.	0.	0.	11410.	2128.7	6411.	17821.
19	1152.	11450.	0.	0.	11450.	2124.1	5865.	17315.
20	1038.	11450.	0.	0.	11450.	2119.4	5411.	16861.
21	959.	11334.	0.	0.	11334.	2114.8	5747.	17081.
22	959.	11168.	0.	0.	11168.	2110.2	5810.	16978.
23	1024.	10475.	0.	0.	10475.	2105.9	5553.	16028.
24	1000.	8345.	0.	0.	8345.	2102.6	6133.	14478.
25	939.	7945.	0.	0.	7945.	2099.4	4716.	12661.
26	939.	7745.	0.	0.	7745.	2095.7	4143.	11888.
27	950.	7589.	0.	0.	7589.	2092.2	4710.	12299.
28	1063.	7281.	0.	0.	7281.	2088.9	4771.	12052.
29	1153.	6985.	0.	0.	6985.	2085.8	5288.	12273.
30	1398.	6636.	0.	0.	6636.	2083.0	5508.	12144.
31	3001.	6304.	0.	0.	6304.	2081.2	7661.	13965.
32	5917.	6230.	0.	0.	6230.	2081.1	12719.	18949.
33	8267.	6541.	0.	0.	6541.	2082.0	33522.	40063.
34	15742.	6868.	0.	0.	6868.	2086.7	48067.	54935.
35	16842.	7211.	0.	0.	7211.	2091.8	46812.	54023.
36	24642.	7072.	0.	0.	7072.	2101.0	50757.	57829.
37	24642.	6862.	0.	0.	6862.	2109.0	53666.	60528.
38	21247.	6657.	0.	0.	6657.	2115.6	62825.	69482.
39	19363.	6408.	0.	0.	6408.	2121.4	79695.	86103.
40	18442.	6061.	0.	0.	6061.	2127.0	84343.	90404.
41	18442.	5954.	0.	0.	5954.	2132.6	85209.	91163.
42	18442.	5873.	0.	0.	5873.	2138.2	76431.	82304.
43	18082.	5838.	0.	0.	5838.	2143.7	72069.	77907.
44	32829.	6056.	0.	0.	6056.	2154.9	87734.	93790.
45	23946.	6033.	0.	0.	6033.	2161.7	87627.	93660.
46	17783.	6340.	0.	0.	6340.	2166.0	87636.	93976.
47	14415.	6844.	0.	0.	6844.	2168.9	68187.	75031.
48	9969.	7412.	0.	0.	7412.	2169.9	55031.	62443.
49	6605.	6668.	0.	0.	6668.	2169.9	38229.	44897.
50	6605.	6845.	0.	0.	6845.	2169.8	38634.	45479.
51	5128.	7021.	0.	0.	7021.	2169.0	38378.	45399.
52	5129.	5536.	0.	0.	5536.	2168.9	33686.	39222.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1959 1	4604.	5352.	0.	0.	5352.	2168.6	25720.	31072.
2	4050.	5351.	0.	0.	5351.	2168.1	24418.	29769.
3	3875.	5736.	0.	0.	5736.	2167.4	24791.	30527.
4	2689.	6111.	0.	0.	6111.	2166.1	24527.	30638.
5	2392.	6466.	0.	0.	6466.	2164.5	17867.	24333.
6	2068.	6873.	0.	0.	6873.	2162.7	16377.	23250.
7	1760.	7238.	0.	0.	7238.	2160.6	11595.	18833.
8	1352.	7630.	0.	0.	7630.	2158.2	8161.	15791.
9	1215.	8020.	0.	0.	8020.	2155.7	8786.	16806.
10	797.	8526.	0.	0.	8526.	2152.7	6526.	15052.
11	879.	8770.	0.	0.	8770.	2149.7	6413.	15183.
12	1375.	8470.	0.	0.	8470.	2146.5	6587.	15057.
13	1375.	7904.	0.	0.	7904.	2143.5	7238.	15142.
14	1150.	7618.	0.	0.	7618.	2140.6	6089.	13707.
15	1109.	7616.	0.	0.	7616.	2137.7	6303.	13919.
16	1056.	7605.	0.	0.	7605.	2134.8	6314.	13919.
17	1035.	7618.	0.	0.	7618.	2131.8	6520.	14138.
18	1051.	7606.	0.	0.	7606.	2128.9	6344.	13950.
19	1027.	9542.	0.	0.	9542.	2125.0	6116.	15658.
20	984.	9542.	0.	0.	9542.	2121.2	5545.	15087.
21	879.	9445.	0.	0.	9445.	2117.3	5090.	14535.
22	797.	9307.	0.	0.	9307.	2113.5	4379.	13686.
23	683.	8729.	0.	0.	8729.	2109.9	4411.	13140.
24	683.	8345.	0.	0.	8345.	2106.4	4476.	12821.
25	683.	7945.	0.	0.	7945.	2103.2	4765.	12710.
26	683.	7745.	0.	0.	7745.	2100.0	4740.	12485.
27	666.	7589.	0.	0.	7589.	2096.3	4974.	12563.
28	666.	7281.	0.	0.	7281.	2092.8	4770.	12051.
29	952.	6985.	0.	0.	6985.	2089.6	5275.	12260.
30	999.	6636.	0.	0.	6636.	2086.6	6618.	13254.
31	1801.	6304.	0.	0.	6304.	2084.2	9038.	15342.
32	2951.	6230.	0.	0.	6230.	2082.4	20792.	27022.
33	12604.	6541.	0.	0.	6541.	2085.7	50003.	56544.
34	17856.	6868.	0.	0.	6868.	2091.5	62616.	69484.
35	14298.	7211.	0.	0.	7211.	2095.3	62969.	70180.
36	20496.	7072.	0.	0.	7072.	2102.1	81653.	88725.
37	15311.	6862.	0.	0.	6862.	2105.9	66332.	73194.
38	18247.	6657.	0.	0.	6657.	2111.1	82448.	89105.
39	20418.	6408.	0.	0.	6408.	2117.4	105194.	111602.
40	21688.	6061.	0.	0.	6061.	2124.4	98023.	104084.
41	20819.	5954.	0.	0.	5954.	2131.1	103053.	109007.
42	22556.	5873.	0.	0.	5873.	2138.6	106777.	112650.
43	17816.	5838.	0.	0.	5838.	2144.0	86443.	92281.
44	18373.	6056.	0.	0.	6056.	2149.5	82706.	88762.
45	14392.	6033.	0.	0.	6033.	2152.8	85955.	91988.
46	18474.	6134.	0.	0.	6134.	2157.4	59365.	65499.
47	34121.	6223.	0.	0.	6223.	2168.0	63931.	70154.
48	33290.	6458.	0.	0.	6458.	2178.2	52860.	59318.
49	20953.	6668.	0.	0.	6668.	2183.7	37769.	44437.
50	10824.	7308.	0.	0.	7308.	2185.0	27514.	34822.
51	8131.	8425.	0.	0.	8425.	2184.9	27508.	35933.
52	7669.	8304.	0.	0.	8304.	2184.6	17214.	25518.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	EXCESS RELEASE (CFS)				
1960 1	8534.	8028.	0.	0.	8028.	2184.8	20496.	28524.
2	5896.	8027.	0.	0.	8027.	2184.0	24096.	32123.
3	3243.	8604.	0.	0.	8604.	2182.0	19583.	28187.
4	4051.	7639.	0.	0.	7639.	2180.6	16374.	24013.
5	2692.	8083.	0.	0.	8083.	2178.5	15313.	23396.
6	2292.	8591.	0.	0.	8591.	2176.2	17542.	26133.
7	2194.	9048.	0.	0.	9048.	2173.6	11609.	20657.
8	2064.	9537.	0.	0.	9537.	2170.7	9594.	19131.
9	1962.	10025.	0.	0.	10025.	2167.6	10540.	20565.
10	1656.	10657.	0.	0.	10657.	2164.2	6899.	17556.
11	1656.	10963.	0.	0.	10963.	2160.7	8234.	19197.
12	1656.	10587.	0.	0.	10587.	2157.3	7473.	18060.
13	1656.	9880.	0.	0.	9880.	2154.2	7329.	17209.
14	1541.	9522.	0.	0.	9522.	2151.1	7825.	17347.
15	1523.	9520.	0.	0.	9520.	2147.8	7183.	16703.
16	1360.	9506.	0.	0.	9506.	2144.1	6758.	16264.
17	1295.	9522.	0.	0.	9522.	2140.4	6703.	16225.
18	1227.	9508.	0.	0.	9508.	2136.7	6814.	16322.
19	1175.	9542.	0.	0.	9542.	2132.9	6742.	16284.
20	1152.	9542.	0.	0.	9542.	2129.1	6951.	16493.
21	1097.	9445.	0.	0.	9445.	2125.4	7526.	16971.
22	1062.	9307.	0.	0.	9307.	2121.7	7956.	17263.
23	1041.	8729.	0.	0.	8729.	2118.2	7953.	16682.
24	996.	8345.	0.	0.	8345.	2114.9	6969.	15314.
25	882.	7945.	0.	0.	7945.	2111.7	6752.	14697.
26	882.	7745.	0.	0.	7745.	2108.6	7012.	14757.
27	694.	7589.	0.	0.	7589.	2105.5	6579.	14168.
28	694.	7281.	0.	0.	7281.	2102.6	6045.	13326.
29	910.	6985.	0.	0.	6985.	2099.8	7116.	14101.
30	945.	6636.	0.	0.	6636.	2096.8	8973.	15609.
31	4703.	6304.	0.	0.	6304.	2095.9	28561.	34865.
32	6668.	6230.	0.	0.	6230.	2096.2	61378.	67608.
33	12886.	6541.	0.	0.	6541.	2099.6	69234.	75775.
34	20055.	6868.	0.	0.	6868.	2105.6	63589.	70457.
35	20716.	7211.	0.	0.	7211.	2111.6	73860.	81071.
36	11838.	8486.	0.	0.	8486.	2113.1	84803.	93289.
37	12275.	8234.	0.	0.	8234.	2115.0	74466.	82700.
38	12710.	6657.	0.	0.	6657.	2117.7	88206.	94863.
39	13971.	6408.	0.	0.	6408.	2121.1	101671.	108079.
40	19936.	6061.	0.	0.	6061.	2127.3	107167.	113228.
41	14780.	6780.	0.	0.	6780.	2130.9	104402.	111182.
42	17003.	6446.	0.	0.	6446.	2135.7	106928.	113374.
43	23312.	5838.	0.	0.	5838.	2143.5	147488.	153326.
44	26487.	6056.	0.	0.	6056.	2152.3	172513.	178569.
45	20467.	6033.	0.	0.	6033.	2157.8	156252.	162285.
46	18086.	6134.	0.	0.	6134.	2162.3	170929.	177063.
47	17477.	6223.	0.	0.	6223.	2166.6	117117.	123340.
48	16811.	6458.	0.	0.	6458.	2170.5	85692.	92150.
49	14281.	6668.	0.	0.	6668.	2173.4	58145.	64813.
50	22570.	6845.	0.	0.	6845.	2179.4	75405.	82250.
51	15996.	7021.	0.	0.	7021.	2182.8	73396.	80417.
52	11980.	6920.	0.	0.	6920.	2185.0	94921.	101841.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	CONVE ENVIRON. RELEASE	VALVE EXCESS RELEASE				
1961 1	9778.	9128.	0.	629.	9756.	2185.0	41927.	51683.
2	7102.	8027.	0.	0.	8027.	2184.6	30623.	38650.
3	5050.	8604.	0.	0.	8604.	2183.3	25710.	34314.
4	3678.	9167.	0.	0.	9167.	2181.2	18847.	28014.
5	2753.	8083.	0.	0.	8083.	2179.2	9921.	18004.
6	2516.	8591.	0.	0.	8591.	2176.9	13021.	21612.
7	2319.	9048.	0.	0.	9048.	2174.3	11129.	20177.
8	2058.	9537.	0.	0.	9537.	2171.5	10755.	20292.
9	2118.	10025.	0.	0.	10025.	2168.5	11388.	21413.
10	2126.	12788.	0.	0.	12788.	2164.4	9586.	22374.
11	2085.	13156.	0.	0.	13156.	2160.2	9064.	22220.
12	1833.	12704.	0.	0.	12704.	2156.1	7648.	20352.
13	1833.	11856.	0.	0.	11856.	2152.3	7447.	19303.
14	1776.	11426.	0.	0.	11426.	2148.4	8081.	19507.
15	1773.	11424.	0.	0.	11424.	2144.0	6640.	18064.
16	1825.	11407.	0.	0.	11407.	2139.7	6902.	18309.
17	1846.	11426.	0.	0.	11426.	2135.4	6970.	18396.
18	1601.	11410.	0.	0.	11410.	2131.0	7275.	18685.
19	1317.	11450.	0.	0.	11450.	2126.4	7765.	19215.
20	1297.	11450.	0.	0.	11450.	2121.9	8294.	19744.
21	1246.	11334.	0.	0.	11334.	2117.3	8654.	19988.
22	1181.	11168.	0.	0.	11168.	2112.8	8048.	19216.
23	1097.	10475.	0.	0.	10475.	2108.6	7158.	17633.
24	1222.	10014.	0.	0.	10014.	2104.7	6545.	16559.
25	1535.	9534.	0.	0.	9534.	2101.1	6650.	16184.
26	1535.	9294.	0.	0.	9294.	2097.1	6303.	15597.
27	1617.	9107.	0.	0.	9107.	2093.2	7289.	16396.
28	1617.	8737.	0.	0.	8737.	2089.4	6529.	15266.
29	1783.	8382.	0.	0.	8382.	2085.8	6884.	15266.
30	1811.	7963.	0.	0.	7963.	2082.6	8417.	16380.
31	5580.	7565.	0.	0.	7565.	2081.5	22594.	30159.
32	10306.	6230.	0.	0.	6230.	2083.7	54511.	60741.
33	17834.	6541.	0.	0.	6541.	2089.7	66241.	72782.
34	16989.	6868.	0.	0.	6868.	2095.1	63665.	70533.
35	15795.	7211.	0.	0.	7211.	2099.7	66330.	73541.
36	14578.	7072.	0.	0.	7072.	2103.1	82687.	89759.
37	23810.	6862.	0.	0.	6862.	2110.7	91920.	98782.
38	29749.	6657.	0.	0.	6657.	2121.1	92374.	99031.
39	24996.	6408.	0.	0.	6408.	2129.5	103582.	109990.
40	18341.	6061.	0.	0.	6061.	2135.0	94666.	100727.
41	19253.	5954.	0.	0.	5954.	2141.0	103516.	109470.
42	19937.	5873.	0.	0.	5873.	2147.3	110456.	116329.
43	20655.	5838.	0.	0.	5838.	2153.3	107824.	113662.
44	22581.	6056.	0.	0.	6056.	2159.6	100060.	106116.
45	23083.	6083.	0.	0.	6083.	2166.1	114086.	120169.
46	19710.	6510.	0.	0.	6510.	2171.1	98850.	105360.
47	18708.	6637.	0.	0.	6637.	2175.7	92891.	99528.
48	13842.	7185.	0.	0.	7185.	2178.2	68281.	75466.
49	9309.	6668.	0.	0.	6668.	2179.2	55513.	62181.
50	10560.	6845.	0.	0.	6845.	2180.6	79903.	86748.
51	10059.	7021.	0.	0.	7021.	2181.8	67704.	74725.
52	10131.	6920.	0.	0.	6920.	2183.2	69217.	76137.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1962 1	8304.	6690.	0.	0.	6690.	2183.8	56414.	63104.
2	3663.	6689.	0.	0.	6689.	2182.6	37213.	43902.
3	3663.	7170.	0.	0.	7170.	2181.3	28196.	35366.
4	3663.	7639.	0.	0.	7639.	2179.8	30154.	37793.
5	2910.	8083.	0.	0.	8083.	2177.8	21866.	29949.
6	2187.	8591.	0.	0.	8591.	2175.4	19798.	28389.
7	2187.	9048.	0.	0.	9048.	2172.8	16453.	25501.
8	2187.	9537.	0.	0.	9537.	2170.0	14095.	23632.
9	2067.	10025.	0.	0.	10025.	2167.0	14561.	24586.
10	1742.	10657.	0.	0.	10657.	2163.6	10474.	21131.
11	1742.	10963.	0.	0.	10963.	2160.1	8792.	19755.
12	1742.	10587.	0.	0.	10587.	2156.7	7315.	17902.
13	1742.	9880.	0.	0.	9880.	2153.6	7595.	17475.
14	1645.	9522.	0.	0.	9522.	2150.6	7566.	17088.
15	1626.	9520.	0.	0.	9520.	2147.2	6779.	16299.
16	1626.	9506.	0.	0.	9506.	2143.7	6961.	16467.
17	1626.	9522.	0.	0.	9522.	2140.1	6858.	16380.
18	1462.	9508.	0.	0.	9508.	2136.5	6831.	16339.
19	1237.	9542.	0.	0.	9542.	2132.7	7200.	16742.
20	1237.	9542.	0.	0.	9542.	2129.0	7131.	16673.
21	1237.	9445.	0.	0.	9445.	2125.3	6502.	15947.
22	1207.	9307.	0.	0.	9307.	2121.7	6204.	15511.
23	1174.	8729.	0.	0.	8729.	2118.3	5835.	14564.
24	1174.	8345.	0.	0.	8345.	2115.1	5698.	14043.
25	1174.	7945.	0.	0.	7945.	2112.0	5545.	13490.
26	1174.	7745.	0.	0.	7745.	2109.1	6342.	14087.
27	1335.	7589.	0.	0.	7589.	2106.2	6133.	13722.
28	1335.	7281.	0.	0.	7281.	2103.6	6532.	13813.
29	1335.	6985.	0.	0.	6985.	2101.0	7988.	14973.
30	1335.	6636.	0.	0.	6636.	2098.4	8634.	15270.
31	3165.	6304.	0.	0.	6304.	2096.7	17375.	23679.
32	3896.	6230.	0.	0.	6230.	2095.5	17047.	23277.
33	10571.	6541.	0.	0.	6541.	2097.6	42317.	48858.
34	15580.	6868.	0.	0.	6868.	2101.9	53929.	60797.
35	25042.	7211.	0.	0.	7211.	2109.9	60021.	67232.
36	25502.	7072.	0.	0.	7072.	2118.2	70294.	77366.
37	49464.	8234.	0.	0.	8234.	2136.8	78111.	86345.
38	42296.	7996.	0.	0.	7996.	2151.8	83551.	91547.
39	29941.	7713.	0.	0.	7713.	2160.3	101478.	109191.
40	24659.	7355.	0.	0.	7355.	2166.9	112931.	120286.
41	24076.	7258.	0.	0.	7258.	2173.3	128211.	135469.
42	20979.	7169.	0.	0.	7169.	2178.5	140984.	148153.
43	24659.	7125.	0.	426.	7551.	2185.0	156019.	163570.
44	22051.	7403.	0.	14648.	22051.	2185.0	134363.	156414.
45	19487.	7407.	0.	12080.	19487.	2185.0	98623.	118110.
46	19487.	7531.	0.	11956.	19487.	2185.0	97274.	116761.
47	19487.	7655.	0.	11832.	19487.	2185.0	88115.	107602.
48	19844.	7896.	0.	11948.	19844.	2185.0	87181.	107025.
49	18961.	8129.	0.	10832.	18961.	2185.0	62664.	81625.
50	11972.	8299.	0.	3673.	11972.	2185.0	54051.	66023.
51	9699.	8480.	0.	1219.	9699.	2185.0	49389.	59088.
52	9763.	8622.	0.	1141.	9763.	2185.0	41111.	50874.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1963 1	7677.	8028.	0.	0.	8028.	2184.9	23501.	31529.
2	5846.	8027.	0.	0.	8027.	2184.0	18502.	26529.
3	5094.	8604.	0.	0.	8604.	2182.7	17423.	26027.
4	4603.	9167.	0.	0.	9167.	2181.0	18619.	27786.
5	3273.	8083.	0.	0.	8083.	2179.1	11246.	19329.
6	2427.	8591.	0.	0.	8591.	2176.8	12423.	21014.
7	2427.	9048.	0.	0.	9048.	2174.3	7725.	16773.
8	2427.	9537.	0.	0.	9537.	2171.6	6428.	15965.
9	2243.	10025.	0.	0.	10025.	2168.6	6532.	16557.
10	1684.	12788.	0.	0.	12788.	2164.4	7039.	19827.
11	1684.	13156.	0.	0.	13156.	2160.1	7794.	20950.
12	1684.	12704.	0.	0.	12704.	2155.9	8224.	20928.
13	1684.	11856.	0.	0.	11856.	2152.0	8177.	20033.
14	1346.	11426.	0.	0.	11426.	2147.8	7819.	19245.
15	1303.	11424.	0.	0.	11424.	2143.3	7122.	18546.
16	1303.	11407.	0.	0.	11407.	2138.7	6959.	18366.
17	1303.	11426.	0.	0.	11426.	2134.2	6693.	18119.
18	1284.	11410.	0.	0.	11410.	2129.6	6067.	17477.
19	1203.	11450.	0.	0.	11450.	2125.0	6053.	17503.
20	1203.	11450.	0.	0.	11450.	2120.4	5973.	17423.
21	1203.	11334.	0.	0.	11334.	2115.9	5536.	16870.
22	1015.	11168.	0.	0.	11168.	2111.3	5861.	17029.
23	870.	10475.	0.	0.	10475.	2107.0	5532.	16007.
24	870.	10014.	0.	0.	10014.	2102.9	5531.	15545.
25	870.	9534.	0.	0.	9534.	2098.8	5283.	14817.
26	870.	7745.	0.	0.	7745.	2095.1	5085.	12830.
27	680.	7589.	0.	0.	7589.	2091.4	5119.	12708.
28	680.	7281.	0.	0.	7281.	2087.9	4480.	11761.
29	680.	6985.	0.	0.	6985.	2084.6	4336.	11321.
30	680.	6636.	0.	0.	6636.	2081.4	4959.	11595.
31	2138.	6304.	0.	0.	6304.	2079.2	5976.	12280.
32	2871.	6230.	0.	0.	6230.	2077.4	17712.	23942.
33	16185.	6541.	0.	0.	6541.	2082.5	52142.	58683.
34	26173.	6868.	0.	0.	6868.	2092.8	53841.	60709.
35	29395.	7211.	0.	0.	7211.	2103.9	74869.	82080.
36	20039.	7072.	0.	0.	7072.	2109.7	89052.	96124.
37	20039.	6862.	0.	0.	6862.	2115.7	65943.	72805.
38	20039.	6657.	0.	0.	6657.	2121.7	86173.	92830.
39	20039.	6408.	0.	0.	6408.	2127.8	96064.	102472.
40	25591.	6061.	0.	0.	6061.	2136.6	103531.	109592.
41	33081.	7145.	0.	0.	7145.	2148.3	126219.	133364.
42	31343.	7048.	0.	0.	7048.	2157.8	150626.	157674.
43	26765.	7313.	0.	0.	7313.	2165.1	102428.	109741.
44	24772.	7524.	0.	0.	7524.	2171.7	90645.	98169.
45	22882.	7474.	0.	0.	7474.	2177.5	81989.	89463.
46	19853.	7548.	0.	0.	7548.	2182.2	84265.	91813.
47	20996.	7654.	0.	6028.	13682.	2185.0	85677.	99359.
48	17689.	7891.	0.	9798.	17689.	2185.0	66782.	84471.
49	13124.	8114.	0.	5010.	13124.	2185.0	61161.	74285.
50	11736.	8298.	0.	3438.	11736.	2185.0	59293.	71029.
51	9384.	8478.	0.	906.	9384.	2185.0	55707.	65091.
52	8325.	8618.	0.	0.	8618.	2184.9	46671.	55289.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1964 1	7204.	8028.	0.	0.	8028.	2184.6	38258.	46286.
2	6067.	8027.	0.	0.	8027.	2183.8	29438.	37465.
3	4963.	8604.	0.	0.	8604.	2182.4	24980.	33584.
4	3760.	9167.	0.	0.	9167.	2180.4	16824.	25991.
5	2277.	8083.	0.	0.	8083.	2178.2	13807.	21890.
6	2037.	8591.	0.	0.	8591.	2175.7	11937.	20528.
7	1803.	9048.	0.	0.	9048.	2172.9	10058.	19106.
8	1489.	9537.	0.	0.	9537.	2169.9	6308.	15845.
9	1454.	10025.	0.	0.	10025.	2166.6	6005.	16030.
10	1358.	10657.	0.	0.	10657.	2163.1	5168.	15825.
11	1311.	10963.	0.	0.	10963.	2159.4	5171.	16134.
12	1038.	10587.	0.	0.	10587.	2155.8	5260.	15847.
13	1038.	9880.	0.	0.	9880.	2152.4	6118.	15998.
14	913.	9522.	0.	0.	9522.	2149.0	6866.	16388.
15	888.	9520.	0.	0.	9520.	2145.1	7296.	16816.
16	830.	9506.	0.	0.	9506.	2141.2	7351.	16857.
17	807.	9522.	0.	0.	9522.	2137.3	7502.	17024.
18	816.	9508.	0.	0.	9508.	2133.4	6575.	16083.
19	818.	9542.	0.	0.	9542.	2129.5	6197.	15739.
20	802.	9542.	0.	0.	9542.	2125.5	6242.	15784.
21	760.	9445.	0.	0.	9445.	2121.6	5911.	15356.
22	696.	9307.	0.	0.	9307.	2117.8	5655.	14962.
23	612.	8729.	0.	0.	8729.	2114.1	5098.	13827.
24	588.	8345.	0.	0.	8345.	2110.6	4579.	12924.
25	524.	7945.	0.	0.	7945.	2107.3	4670.	12615.
26	524.	7745.	0.	0.	7745.	2104.0	4400.	12145.
27	588.	7589.	0.	0.	7589.	2100.9	4524.	12113.
28	588.	7281.	0.	0.	7281.	2097.5	4492.	11773.
29	637.	6985.	0.	0.	6985.	2094.1	4490.	11475.
30	646.	6636.	0.	0.	6636.	2090.9	5453.	12089.
31	524.	6304.	0.	0.	6304.	2087.8	5710.	12014.
32	521.	6230.	0.	0.	6230.	2084.8	14213.	20443.
33	699.	6541.	0.	0.	6541.	2081.7	29431.	35972.
34	1548.	6868.	0.	0.	6868.	2078.9	43003.	49871.
35	17791.	7211.	0.	0.	7211.	2084.5	50587.	57798.
36	66753.	7072.	0.	0.	7072.	2113.7	71184.	78256.
37	45845.	6862.	0.	0.	6862.	2131.3	67309.	74171.
38	38257.	7988.	0.	0.	7988.	2144.9	92187.	100175.
39	27669.	7785.	0.	0.	7785.	2153.2	109191.	116976.
40	22261.	7428.	0.	0.	7428.	2158.9	86164.	93592.
41	22938.	7336.	0.	0.	7336.	2164.8	105844.	113180.
42	21646.	7246.	0.	0.	7246.	2170.3	105540.	112786.
43	14854.	7216.	0.	0.	7216.	2173.2	93574.	100790.
44	16893.	7460.	0.	0.	7460.	2176.8	95747.	103207.
45	15985.	7438.	0.	0.	7438.	2180.0	91899.	99337.
46	12889.	7537.	0.	0.	7537.	2182.0	86729.	94266.
47	13741.	7641.	0.	0.	7641.	2184.3	88899.	96540.
48	11603.	7874.	0.	2013.	9887.	2185.0	60039.	69926.
49	8901.	8102.	0.	799.	8901.	2185.0	39135.	48036.
50	7255.	8289.	0.	0.	8289.	2184.6	32445.	40734.
51	7294.	8481.	0.	0.	8481.	2184.2	30931.	39412.
52	6247.	8633.	0.	0.	8633.	2183.1	29821.	38454.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	CONVEYER RELEASE	EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1965 1	5814.	8028.	0.	0.	8028.	2182.3	22124.	30152.
2	6506.	6689.	0.	0.	6689.	2182.2	32707.	39396.
3	4258.	7170.	0.	0.	7170.	2181.1	24297.	31467.
4	3387.	7639.	0.	0.	7639.	2179.5	21981.	29620.
5	2593.	8083.	0.	0.	8083.	2177.4	14123.	22206.
6	2408.	8591.	0.	0.	8591.	2175.1	13047.	21638.
7	2383.	9048.	0.	0.	9048.	2172.5	9713.	18761.
8	2656.	9537.	0.	0.	9537.	2169.9	9213.	18750.
9	1708.	10025.	0.	0.	10025.	2166.7	10562.	20587.
10	1175.	10657.	0.	0.	10657.	2163.1	8356.	19013.
11	1047.	10963.	0.	0.	10963.	2159.4	8311.	19274.
12	952.	10587.	0.	0.	10587.	2155.7	7912.	18499.
13	952.	9880.	0.	0.	9880.	2152.3	7672.	17552.
14	880.	9522.	0.	0.	9522.	2148.9	7089.	16611.
15	866.	9520.	0.	0.	9520.	2145.0	6843.	16363.
16	866.	9506.	0.	0.	9506.	2141.1	6763.	16269.
17	866.	9522.	0.	0.	9522.	2137.2	6106.	15628.
18	821.	9508.	0.	0.	9508.	2133.3	5527.	15035.
19	764.	9542.	0.	0.	9542.	2129.3	5943.	15485.
20	764.	9542.	0.	0.	9542.	2125.4	5940.	15482.
21	764.	9445.	0.	0.	9445.	2121.5	5704.	15149.
22	785.	9307.	0.	0.	9307.	2117.7	5287.	14594.
23	809.	8729.	0.	0.	8729.	2114.1	5208.	13937.
24	809.	8345.	0.	0.	8345.	2110.7	5152.	13497.
25	809.	7945.	0.	0.	7945.	2107.5	5331.	13276.
26	809.	7745.	0.	0.	7745.	2104.4	5373.	13118.
27	1050.	7589.	0.	0.	7589.	2101.4	5442.	13031.
28	1050.	7281.	0.	0.	7281.	2098.4	5368.	12649.
29	1324.	6985.	0.	0.	6985.	2095.4	6384.	13369.
30	1370.	6636.	0.	0.	6636.	2092.6	7362.	13998.
31	1702.	6304.	0.	0.	6304.	2090.1	19787.	26091.
32	4582.	6230.	0.	0.	6230.	2089.2	24134.	30364.
33	7973.	6541.	0.	0.	6541.	2090.0	56162.	62703.
34	14365.	6868.	0.	0.	6868.	2094.0	62922.	69790.
35	28598.	7211.	0.	0.	7211.	2104.5	77990.	85201.
36	18020.	7072.	0.	0.	7072.	2109.5	99363.	106435.
37	19249.	6862.	0.	0.	6862.	2115.0	76418.	83280.
38	18396.	6657.	0.	0.	6657.	2120.3	93352.	100009.
39	27076.	6408.	0.	0.	6408.	2129.6	117698.	124106.
40	25264.	6061.	0.	0.	6061.	2138.3	116567.	122628.
41	25478.	7145.	0.	0.	7145.	2146.5	135492.	142637.
42	23730.	7048.	0.	0.	7048.	2153.4	132559.	139607.
43	20581.	7006.	0.	0.	7006.	2158.5	94751.	101757.
44	18313.	7267.	0.	0.	7267.	2162.7	112635.	119902.
45	16343.	7240.	0.	0.	7240.	2166.2	95596.	102836.
46	25247.	7361.	0.	0.	7361.	2173.0	87671.	95032.
47	16925.	7468.	0.	0.	7468.	2176.6	71289.	78757.
48	9394.	7750.	0.	0.	7750.	2177.2	57943.	65693.
49	14093.	8002.	0.	0.	8002.	2179.5	54758.	62760.
50	17314.	8214.	0.	0.	8214.	2183.0	53924.	62138.
51	15844.	8493.	0.	2013.	10506.	2185.0	71224.	81730.
52	18328.	8646.	0.	9682.	18328.	2185.0	83228.	101556.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1966 1	10948.	9132.	0.	1816.	10948.	2185.0	47022.	57970.
2	6087.	8027.	0.	0.	8027.	2184.3	34794.	42821.
3	2852.	8604.	0.	0.	8604.	2182.1	37090.	45694.
4	2359.	9167.	0.	0.	9167.	2179.5	38936.	48103.
5	2043.	8083.	0.	0.	8083.	2177.2	29760.	37843.
6	1676.	8591.	0.	0.	8591.	2174.6	21291.	29882.
7	1481.	9048.	0.	0.	9048.	2171.7	17778.	26826.
8	1412.	9537.	0.	0.	9537.	2168.6	15819.	25356.
9	1361.	10025.	0.	0.	10025.	2165.3	12601.	22626.
10	1265.	10657.	0.	0.	10657.	2161.8	9387.	20044.
11	1223.	10963.	0.	0.	10963.	2158.1	6967.	17930.
12	1174.	10587.	0.	0.	10587.	2154.5	7806.	18393.
13	1129.	9880.	0.	0.	9880.	2151.2	7046.	16926.
14	1075.	9522.	0.	0.	9522.	2147.6	6725.	16247.
15	1062.	9520.	0.	0.	9520.	2143.8	6988.	16508.
16	1062.	9506.	0.	0.	9506.	2140.0	6909.	16415.
17	1062.	9522.	0.	0.	9522.	2136.2	7151.	16673.
18	1025.	9508.	0.	0.	9508.	2132.3	6973.	16481.
19	980.	9542.	0.	0.	9542.	2128.5	7149.	16691.
20	980.	9542.	0.	0.	9542.	2124.6	6673.	16215.
21	980.	9445.	0.	0.	9445.	2120.8	6975.	16420.
22	983.	9307.	0.	0.	9307.	2117.1	5673.	14980.
23	985.	8729.	0.	0.	8729.	2113.6	5591.	14320.
24	985.	8345.	0.	0.	8345.	2110.3	5283.	13628.
25	985.	7945.	0.	0.	7945.	2107.2	5509.	13454.
26	985.	7745.	0.	0.	7745.	2104.1	5702.	13447.
27	1091.	7589.	0.	0.	7589.	2101.2	4970.	12559.
28	1091.	7281.	0.	0.	7281.	2098.1	5404.	12685.
29	1432.	6985.	0.	0.	6985.	2095.2	5288.	12273.
30	1490.	6636.	0.	0.	6636.	2092.4	4878.	11514.
31	2210.	6304.	0.	0.	6304.	2090.3	3476.	9780.
32	2873.	6230.	0.	0.	6230.	2088.5	8305.	14535.
33	5322.	6541.	0.	0.	6541.	2087.8	32910.	39451.
34	10202.	6868.	0.	0.	6868.	2089.6	48783.	55651.
35	16017.	7211.	0.	0.	7211.	2094.3	39930.	47141.
36	37660.	7072.	0.	0.	7072.	2108.9	72231.	79303.
37	26954.	6862.	0.	0.	6862.	2118.0	83861.	90723.
38	22768.	6657.	0.	0.	6657.	2125.2	78304.	84961.
39	19214.	6408.	0.	0.	6408.	2131.0	94038.	100446.
40	15178.	7273.	0.	0.	7273.	2134.5	81359.	88632.
41	14458.	7145.	0.	0.	7145.	2137.8	97988.	105133.
42	15132.	5873.	0.	0.	5873.	2142.0	100287.	106160.
43	17122.	5838.	0.	0.	5838.	2147.1	122140.	127978.
44	22511.	6056.	0.	0.	6056.	2153.8	110050.	116106.
45	18320.	6033.	0.	0.	6033.	2158.4	132651.	138684.
46	15064.	6134.	0.	0.	6134.	2161.8	120400.	126534.
47	18252.	6223.	0.	0.	6223.	2166.4	116223.	122446.
48	14606.	6458.	0.	0.	6458.	2169.5	94421.	100879.
49	10023.	6668.	0.	0.	6668.	2170.8	76421.	83089.
50	9733.	6845.	0.	0.	6845.	2171.9	85999.	92844.
51	9623.	7021.	0.	0.	7021.	2172.8	130411.	137432.
52	7019.	6920.	0.	0.	6920.	2172.9	81528.	88448.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
			ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1967 1	5525.	6690.	0.	0.	6690.	2172.4	61884.	68574.
2	3705.	6689.	0.	0.	6689.	2171.3	45763.	52452.
3	2802.	7170.	0.	0.	7170.	2169.7	28972.	36142.
4	1896.	7639.	0.	0.	7639.	2167.5	20742.	28381.
5	1290.	6466.	0.	0.	6466.	2165.5	12724.	19190.
6	1192.	6873.	0.	0.	6873.	2163.3	7963.	14836.
7	1192.	7238.	0.	0.	7238.	2161.0	8024.	15262.
8	1192.	7630.	0.	0.	7630.	2158.6	9264.	16894.
9	1173.	8020.	0.	0.	8020.	2156.0	7097.	15117.
10	1119.	8526.	0.	0.	8526.	2153.2	5458.	13984.
11	1119.	8770.	0.	0.	8770.	2150.3	5822.	14592.
12	1119.	8470.	0.	0.	8470.	2147.0	4808.	13278.
13	1119.	7904.	0.	0.	7904.	2144.0	4836.	12740.
14	1105.	7618.	0.	0.	7618.	2141.0	4381.	11999.
15	1106.	7616.	0.	0.	7616.	2138.1	4964.	12580.
16	1106.	7605.	0.	0.	7605.	2135.2	5533.	13138.
17	1106.	7618.	0.	0.	7618.	2132.3	5692.	13310.
18	1077.	7606.	0.	0.	7606.	2129.3	5885.	13491.
19	1037.	9542.	0.	0.	9542.	2125.5	6009.	15551.
20	1037.	9542.	0.	0.	9542.	2121.7	5766.	15308.
21	1037.	9445.	0.	0.	9445.	2117.9	5451.	14896.
22	965.	9307.	0.	0.	9307.	2114.1	5025.	14332.
23	882.	8729.	0.	0.	8729.	2110.6	4901.	13630.
24	882.	8345.	0.	0.	8345.	2107.3	5260.	13605.
25	882.	7945.	0.	0.	7945.	2104.1	4824.	12769.
26	882.	7745.	0.	0.	7745.	2101.0	4868.	12613.
27	771.	7589.	0.	0.	7589.	2097.6	5092.	12681.
28	771.	7281.	0.	0.	7281.	2094.1	4696.	11977.
29	790.	6985.	0.	0.	6985.	2090.8	3999.	10984.
30	910.	6636.	0.	0.	6636.	2087.7	4089.	10725.
31	1409.	6304.	0.	0.	6304.	2085.1	2431.	8735.
32	4044.	6230.	0.	0.	6230.	2084.0	6132.	12362.
33	14066.	6541.	0.	0.	6541.	2088.0	19451.	25992.
34	19680.	6868.	0.	0.	6868.	2094.8	28169.	35037.
35	23533.	7211.	0.	0.	7211.	2102.9	22486.	29697.
36	22187.	7072.	0.	0.	7072.	2109.7	41762.	48834.
37	29069.	6862.	0.	0.	6862.	2119.7	35354.	42216.
38	24227.	6657.	0.	0.	6657.	2127.6	54344.	61001.
39	23703.	7690.	0.	0.	7690.	2134.8	72652.	80342.
40	17634.	7273.	0.	0.	7273.	2139.5	75703.	82976.
41	17564.	7145.	0.	0.	7145.	2144.2	88806.	95951.
42	24423.	7048.	0.	0.	7048.	2151.7	95320.	102368.
43	28466.	7006.	0.	0.	7006.	2159.8	89930.	96936.
44	21665.	7267.	0.	0.	7267.	2165.3	93918.	101185.
45	20177.	7240.	0.	0.	7240.	2170.2	103540.	110780.
46	44209.	7361.	0.	0.	7361.	2184.2	112118.	119479.
47	24653.	7666.	0.	14933.	22599.	2185.0	85400.	107999.
48	16555.	7888.	0.	8667.	16555.	2185.0	74432.	90987.
49	23511.	8141.	0.	15370.	23511.	2185.0	67495.	91006.
50	13875.	8304.	0.	5571.	13875.	2185.0	67957.	81832.
51	10087.	8481.	0.	1606.	10087.	2185.0	51249.	61336.
52	7666.	8620.	0.	0.	8620.	2184.6	48434.	57054.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1968 1	5636.	8028.	0.	0.	8028.	2183.7	46251.	
2	4692.	8027.	0.	0.	8027.	2182.4	49525.	
3	3669.	7170.	0.	0.	7170.	2181.1	35071.	
4	2797.	7639.	0.	0.	7639.	2179.2	28350.	
5	2340.	8083.	0.	0.	8083.	2177.1	24756.	
6	1987.	8591.	0.	0.	8591.	2174.6	22611.	
7	1881.	9048.	0.	0.	9048.	2171.8	17990.	
8	1812.	9537.	0.	0.	9537.	2168.9	21043.	
9	1780.	10025.	0.	0.	10025.	2165.8	21061.	
10	1740.	10657.	0.	0.	10657.	2162.4	19766.	
11	1740.	10963.	0.	0.	10963.	2158.9	18446.	
12	1669.	10587.	0.	0.	10587.	2155.5	17470.	
13	1657.	9880.	0.	0.	9880.	2152.4	16220.	
14	1633.	9522.	0.	0.	9522.	2149.2	16561.	
15	1634.	9520.	0.	0.	9520.	2145.7	16536.	
16	1634.	9506.	0.	0.	9506.	2142.2	16572.	
17	1611.	9522.	0.	0.	9522.	2138.6	16775.	
18	1552.	9508.	0.	0.	9508.	2135.0	16537.	
19	1561.	9542.	0.	0.	9542.	2131.4	17089.	
20	1561.	9542.	0.	0.	9542.	2127.8	16966.	
21	1561.	9445.	0.	0.	9445.	2124.3	16171.	
22	1561.	9307.	0.	0.	9307.	2120.8	15862.	
23	1560.	8729.	0.	0.	8729.	2117.6	14831.	
24	1560.	8345.	0.	0.	8345.	2114.5	13935.	
25	1560.	7945.	0.	0.	7945.	2111.7	13981.	
26	1560.	7745.	0.	0.	7745.	2108.9	14131.	
27	1544.	7589.	0.	0.	7589.	2106.2	13264.	
28	1485.	7281.	0.	0.	7281.	2103.6	13764.	
29	1556.	6985.	0.	0.	6985.	2101.1	15785.	
30	1662.	6636.	0.	0.	6636.	2098.7	22823.	
31	1787.	6304.	0.	0.	6304.	2096.3	48075.	
32	2353.	6230.	0.	0.	6230.	2094.2	89469.	
33	10464.	6541.	0.	0.	6541.	2096.3	80900.	
34	27061.	6868.	0.	0.	6868.	2106.0	78280.	
35	21911.	7211.	0.	0.	7211.	2112.6	113813.	
36	21507.	8486.	0.	0.	8486.	2118.4	124588.	
37	29938.	8234.	0.	0.	8234.	2128.2	150007.	
38	30356.	7988.	0.	0.	7988.	2138.2	122375.	
39	22099.	7874.	0.	0.	7874.	2144.6	109467.	
40	24724.	7505.	0.	0.	7505.	2152.0	121327.	
41	22504.	7404.	0.	0.	7404.	2157.7	132256.	
42	21723.	7314.	0.	0.	7314.	2163.2	107136.	
43	20991.	7272.	0.	0.	7272.	2168.4	117248.	
44	18324.	7504.	0.	0.	7504.	2172.5	100285.	
45	16541.	7477.	0.	0.	7477.	2176.0	99970.	
46	13759.	7575.	0.	0.	7575.	2178.3	83332.	
47	12436.	7680.	0.	0.	7680.	2180.1	88487.	
48	11024.	7906.	0.	0.	7906.	2181.3	67527.	
49	9099.	8135.	0.	0.	8135.	2181.7	50681.	
50	9115.	8320.	0.	0.	8320.	2182.0	43269.	
51	5821.	8513.	0.	0.	8513.	2181.0	37455.	
52	4456.	8304.	0.	0.	8304.	2179.3	29948.	

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1969 1	4162.	6690.	0.	0.	6690.	2178.3	14384.	21074.
2	3593.	6689.	0.	0.	6689.	2177.2	10340.	17029.
3	2768.	7170.	0.	0.	7170.	2175.5	10431.	17601.
4	2457.	7639.	0.	0.	7639.	2173.5	7799.	15438.
5	2109.	8083.	0.	0.	8083.	2171.3	6630.	14713.
6	1631.	8591.	0.	0.	8591.	2168.6	6214.	14805.
7	1241.	9048.	0.	0.	9048.	2165.6	6886.	15934.
8	1087.	9537.	0.	0.	9537.	2162.4	7623.	17160.
9	901.	10025.	0.	0.	10025.	2159.0	7056.	17081.
10	809.	10657.	0.	0.	10657.	2155.2	5914.	16571.
11	767.	10963.	0.	0.	10963.	2151.4	5020.	15983.
12	724.	10587.	0.	0.	10587.	2147.2	4803.	15390.
13	687.	7904.	0.	0.	7904.	2143.9	5753.	13657.
14	658.	7618.	0.	0.	7618.	2140.8	7011.	14629.
15	640.	7616.	0.	0.	7616.	2137.7	6953.	14569.
16	598.	7605.	0.	0.	7605.	2134.5	6794.	14399.
17	598.	7618.	0.	0.	7618.	2131.3	6667.	14285.
18	598.	7606.	0.	0.	7606.	2128.2	6594.	14200.
19	587.	7634.	0.	0.	7634.	2125.0	6153.	13787.
20	599.	7634.	0.	0.	7634.	2121.9	5764.	13398.
21	630.	7556.	0.	0.	7556.	2118.7	5871.	13427.
22	630.	7446.	0.	0.	7446.	2115.7	5737.	13183.
23	655.	6983.	0.	0.	6983.	2112.8	5508.	12491.
24	673.	6676.	0.	0.	6676.	2110.1	5183.	11859.
25	709.	6356.	0.	0.	6356.	2107.6	5356.	11712.
26	732.	6196.	0.	0.	6196.	2105.1	5006.	11202.
27	779.	6071.	0.	0.	6071.	2102.8	4822.	10893.
28	919.	5825.	0.	0.	5825.	2100.6	4639.	10464.
29	1196.	5588.	0.	0.	5588.	2098.3	6702.	12290.
30	1696.	5309.	0.	0.	5309.	2096.4	10666.	15975.
31	2867.	5043.	0.	0.	5043.	2095.2	25762.	30805.
32	5116.	4984.	0.	0.	4984.	2095.3	75113.	80097.
33	9727.	5233.	0.	0.	5233.	2097.7	80283.	85516.
34	17064.	5494.	0.	0.	5494.	2103.3	79540.	85034.
35	10209.	5769.	0.	0.	5769.	2105.3	108256.	114025.
36	11525.	6725.	0.	0.	6725.	2107.4	99684.	106409.
37	14689.	6375.	0.	0.	6375.	2111.2	100421.	106796.
38	16092.	6221.	0.	0.	6221.	2115.6	113215.	119436.
39	14614.	6385.	0.	0.	6385.	2119.3	110687.	117072.
40	13051.	7122.	0.	0.	7122.	2122.0	105299.	112421.
41	16518.	6889.	0.	0.	6889.	2126.3	109217.	116106.
42	16974.	6860.	0.	0.	6860.	2130.8	102553.	109413.
43	14188.	7045.	0.	0.	7045.	2134.1	84496.	91541.
44	11668.	6282.	0.	0.	6282.	2136.5	96503.	102785.
45	12201.	5915.	0.	0.	5915.	2139.3	107622.	113537.
46	6318.	6919.	0.	0.	6919.	2139.0	69011.	75930.
47	5126.	7125.	0.	0.	7125.	2138.1	50185.	57310.
48	4792.	7199.	0.	0.	7199.	2137.1	48824.	56023.
49	5256.	6953.	0.	0.	6953.	2136.3	37446.	44399.
50	4595.	6084.	0.	0.	6084.	2135.6	35105.	41189.
51	3939.	5213.	0.	0.	5213.	2135.0	32501.	37714.
52	3308.	5339.	0.	0.	5339.	2134.0	26975.	32314.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1970 1	3018.	5078.	0.	0.	5078.	2133.1	24584.	29662.
2	2841.	5132.	0.	0.	5132.	2132.0	36402.	41534.
3	2489.	4517.	0.	0.	4517.	2131.1	30211.	34728.
4	1680.	4813.	0.	0.	4813.	2129.7	14322.	19135.
5	1432.	5092.	0.	0.	5092.	2128.1	13634.	18726.
6	1202.	5412.	0.	0.	5412.	2126.2	8939.	14351.
7	950.	5700.	0.	0.	5700.	2124.0	8157.	13857.
8	842.	6008.	0.	0.	6008.	2121.7	6795.	12803.
9	787.	6316.	0.	0.	6316.	2119.2	7032.	13348.
10	735.	6714.	0.	0.	6714.	2116.5	4999.	11713.
11	699.	6907.	0.	0.	6907.	2113.8	5031.	11938.
12	694.	6670.	0.	0.	6670.	2111.1	4766.	11436.
13	694.	6224.	0.	0.	6224.	2108.6	4728.	10952.
14	656.	5999.	0.	0.	5999.	2106.2	5632.	11631.
15	656.	5998.	0.	0.	5998.	2103.8	6060.	12058.
16	628.	5989.	0.	0.	5989.	2101.4	6339.	12328.
17	617.	5999.	0.	0.	5999.	2098.7	6062.	12061.
18	618.	5990.	0.	0.	5990.	2095.9	6262.	12252.
19	628.	6012.	0.	0.	6012.	2093.0	6406.	12418.
20	589.	6012.	0.	0.	6012.	2090.1	5990.	12002.
21	589.	5950.	0.	0.	5950.	2087.3	5902.	11852.
22	589.	5863.	0.	0.	5863.	2084.5	5893.	11756.
23	605.	5499.	0.	0.	5499.	2081.9	5723.	11222.
24	616.	5257.	0.	0.	5257.	2079.4	5447.	10704.
25	645.	5005.	0.	0.	5005.	2077.1	5364.	10369.
26	645.	4879.	0.	0.	4879.	2074.8	5227.	10106.
27	769.	4781.	0.	0.	4781.	2072.7	5352.	10133.
28	846.	4587.	0.	0.	4587.	2070.7	5402.	9989.
29	969.	4401.	0.	0.	4401.	2068.9	6076.	10477.
30	1176.	4181.	0.	0.	4181.	2067.3	7995.	12176.
31	1634.	3972.	0.	0.	3972.	2066.0	21963.	25935.
32	3900.	3925.	0.	0.	3925.	2066.0	38722.	42647.
33	13817.	4121.	0.	0.	4121.	2071.2	65200.	69321.
34	12474.	4327.	0.	0.	4327.	2075.5	78102.	82429.
35	15221.	4543.	0.	0.	4543.	2081.2	95531.	100074.
36	12989.	4455.	0.	0.	4455.	2085.7	101655.	106110.
37	12531.	4323.	0.	0.	4323.	2090.1	95515.	99838.
38	11864.	4364.	0.	0.	4364.	2094.1	103603.	107967.
39	19977.	4037.	0.	0.	4037.	2102.2	117316.	121353.
40	20089.	3818.	0.	0.	3818.	2109.5	129034.	132852.
41	16855.	3855.	0.	0.	3855.	2115.3	116723.	120578.
42	18059.	3700.	0.	0.	3700.	2121.8	120733.	124433.
43	17267.	3753.	0.	0.	3753.	2127.9	131016.	134769.
44	21606.	3815.	0.	0.	3815.	2135.9	126155.	129970.
45	18880.	4009.	0.	0.	4009.	2142.6	105853.	109862.
46	14586.	4915.	0.	0.	4915.	2146.9	104286.	109201.
47	16486.	4978.	0.	0.	4978.	2151.8	93197.	98175.
48	11350.	5564.	0.	0.	5564.	2154.0	74414.	79978.
49	9396.	5499.	0.	0.	5499.	2155.5	64561.	70060.
50	7477.	5476.	0.	0.	5476.	2156.2	53749.	59225.
51	7616.	5617.	0.	0.	5617.	2157.0	46761.	52378.
52	4244.	5536.	0.	0.	5536.	2156.4	29918.	35454.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1971 1	4991.	5352.	0.	0.	5352.	2156.3	19967.	25319.
2	4166.	5351.	0.	0.	5351.	2155.8	16956.	22307.
3	3393.	5736.	0.	0.	5736.	2154.9	15889.	21625.
4	2885.	6111.	0.	0.	6111.	2153.7	14172.	20283.
5	2923.	6466.	0.	0.	6466.	2152.4	12803.	19269.
6	2796.	6873.	0.	0.	6873.	2150.8	10892.	17765.
7	2543.	7238.	0.	0.	7238.	2148.9	10840.	18078.
8	2249.	7630.	0.	0.	7630.	2146.4	8798.	16428.
9	2013.	8020.	0.	0.	8020.	2143.7	8592.	16612.
10	1886.	8526.	0.	0.	8526.	2140.7	7234.	15760.
11	1761.	8770.	0.	0.	8770.	2137.6	6917.	15687.
12	1614.	8470.	0.	0.	8470.	2134.5	7071.	15541.
13	1446.	7904.	0.	0.	7904.	2131.6	6569.	14473.
14	1328.	7618.	0.	0.	7618.	2128.8	6725.	14343.
15	1188.	7616.	0.	0.	7616.	2125.9	7055.	14671.
16	1080.	7605.	0.	0.	7605.	2122.9	7286.	14891.
17	950.	7618.	0.	0.	7618.	2119.9	6958.	14576.
18	880.	7606.	0.	0.	7606.	2116.9	6431.	14037.
19	821.	7634.	0.	0.	7634.	2113.9	6036.	13670.
20	746.	7634.	0.	0.	7634.	2110.8	5316.	12950.
21	746.	7556.	0.	0.	7556.	2107.7	5087.	12643.
22	730.	7446.	0.	0.	7446.	2104.7	5299.	12745.
23	716.	6983.	0.	0.	6983.	2101.9	4853.	11836.
24	716.	6676.	0.	0.	6676.	2099.0	4524.	11200.
25	716.	6356.	0.	0.	6356.	2096.0	4422.	10778.
26	716.	6196.	0.	0.	6196.	2093.1	4149.	10345.
27	717.	6071.	0.	0.	6071.	2090.3	4483.	10554.
28	744.	5825.	0.	0.	5825.	2087.6	4780.	10605.
29	808.	5588.	0.	0.	5588.	2085.0	4536.	10124.
30	904.	5309.	0.	0.	5309.	2082.7	5326.	10635.
31	1098.	5043.	0.	0.	5043.	2080.6	5843.	10886.
32	1415.	4984.	0.	0.	4984.	2078.7	14669.	19653.
33	2087.	5287.	0.	0.	5287.	2077.0	36359.	41646.
34	3683.	5494.	0.	0.	5494.	2076.0	60055.	65549.
35	6558.	5769.	0.	0.	5769.	2076.4	66719.	72488.
36	19251.	5658.	0.	0.	5658.	2083.6	86567.	92225.
37	39740.	5490.	0.	0.	5490.	2101.6	77567.	83057.
38	24136.	5326.	0.	0.	5326.	2110.1	94920.	100246.
39	33340.	5126.	0.	0.	5126.	2122.7	148794.	153920.
40	21395.	6061.	0.	0.	6061.	2129.6	140003.	146064.
41	21771.	5954.	0.	0.	5954.	2136.8	139692.	145646.
42	25092.	5873.	0.	0.	5873.	2145.4	123879.	129752.
43	16325.	6654.	0.	0.	6654.	2149.7	86570.	93224.
44	20943.	6056.	0.	0.	6056.	2155.4	84281.	90337.
45	38945.	6033.	0.	0.	6033.	2167.9	108345.	114378.
46	34819.	7361.	0.	0.	7361.	2178.4	96855.	104216.
47	21352.	7663.	0.	0.	7663.	2183.6	75643.	83306.
48	16880.	7886.	0.	5240.	13126.	2185.0	70467.	83593.
49	19170.	8130.	0.	11040.	19170.	2185.0	73114.	92284.
50	12233.	8299.	0.	3934.	12233.	2185.0	52509.	64742.
51	9251.	8478.	0.	773.	9251.	2185.0	49721.	58972.
52	8027.	8619.	0.	0.	8619.	2184.7	39094.	47713.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE  (CFS)	OUTFLOW		TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA-- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
			ENVIRON. RELEASE  (CFS)	VALVE EXCESS RELEASE  (CFS)				
1972 1	6619.	8028.	0.	0.	8028.	2184.2	23091.	31119.
2	5931.	8027.	0.	0.	8027.	2183.4	28065.	36092.
3	4501.	8604.	0.	0.	8604.	2181.9	17651.	26255.
4	3711.	7639.	0.	0.	7639.	2180.4	14118.	21757.
5	3005.	8083.	0.	0.	8083.	2178.4	9578.	17661.
6	2717.	8591.	0.	0.	8591.	2176.2	9589.	18180.
7	2574.	9048.	0.	0.	9048.	2173.7	7924.	16972.
8	2430.	9537.	0.	0.	9537.	2171.0	6236.	15773.
9	2311.	10025.	0.	0.	10025.	2168.1	6307.	16332.
10	2016.	12788.	0.	0.	12788.	2164.0	5579.	18367.
11	2016.	13156.	0.	0.	13156.	2159.8	5063.	18219.
12	1860.	12704.	0.	0.	12704.	2155.7	6502.	19206.
13	1860.	11856.	0.	0.	11856.	2151.9	6405.	18261.
14	1790.	11426.	0.	0.	11426.	2147.9	6634.	18060.
15	1642.	11424.	0.	0.	11424.	2143.5	7824.	19248.
16	1642.	11407.	0.	0.	11407.	2139.1	6737.	18144.
17	1642.	11426.	0.	0.	11426.	2134.7	6804.	18230.
18	1643.	11410.	0.	0.	11410.	2130.3	6328.	17738.
19	1528.	11450.	0.	0.	11450.	2125.8	7043.	18493.
20	1465.	11450.	0.	0.	11450.	2121.3	6129.	17579.
21	1465.	11334.	0.	0.	11334.	2116.9	5822.	17156.
22	1403.	11168.	0.	0.	11168.	2112.5	4996.	16164.
23	1416.	10475.	0.	0.	10475.	2108.4	4962.	15437.
24	1351.	10014.	0.	0.	10014.	2104.5	4394.	14408.
25	1351.	9534.	0.	0.	9534.	2100.9	4678.	14212.
26	1329.	9294.	0.	0.	9294.	2096.8	5191.	14485.
27	1241.	9107.	0.	0.	9107.	2092.6	5534.	14641.
28	1241.	8737.	0.	0.	8737.	2088.6	5457.	14194.
29	1189.	6985.	0.	0.	6985.	2085.5	5647.	12632.
30	1241.	6636.	0.	0.	6636.	2082.6	5311.	11947.
31	2386.	6304.	0.	0.	6304.	2080.6	12097.	18401.
32	13753.	6230.	0.	0.	6230.	2084.6	33831.	40061.
33	13553.	6541.	0.	0.	6541.	2088.3	39649.	46190.
34	18894.	6868.	0.	0.	6868.	2094.7	49699.	56567.
35	31966.	7211.	0.	0.	7211.	2106.7	79829.	87040.
36	20142.	7072.	0.	0.	7072.	2112.5	93006.	100078.
37	35772.	6862.	0.	0.	6862.	2125.5	81172.	88034.
38	31327.	7988.	0.	0.	7988.	2136.0	87508.	95496.
39	21178.	7905.	0.	0.	7905.	2142.0	100486.	108391.
40	22096.	7536.	0.	0.	7536.	2148.5	102809.	110345.
41	22084.	7438.	0.	0.	7438.	2154.3	125378.	132816.
42	19683.	7350.	0.	0.	7350.	2159.0	98956.	106306.
43	16050.	7321.	0.	0.	7321.	2162.3	99685.	107006.
44	18343.	7563.	0.	0.	7563.	2166.4	104834.	112397.
45	19675.	7531.	0.	0.	7531.	2171.0	96246.	103777.
46	18045.	7615.	0.	0.	7615.	2175.0	84582.	92197.
47	18653.	7701.	0.	0.	7701.	2179.2	80898.	88599.
48	12473.	7913.	0.	0.	7913.	2180.9	62867.	70780.
49	11598.	8134.	0.	0.	8134.	2182.2	56740.	64874.
50	15857.	8302.	0.	230.	8532.	2185.0	55985.	64517.
51	11686.	8485.	0.	3201.	11686.	2185.0	53083.	64769.
52	5278.	8626.	0.	0.	8626.	2183.5	31019.	39645.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1973 1	4296.	8028.	0.	0.	8028.	2182.1	17210.	25238.
2	3976.	6689.	0.	0.	6689.	2181.1	10696.	17385.
3	5515.	7170.	0.	0.	7170.	2180.5	30443.	37613.
4	4090.	7639.	0.	0.	7639.	2179.1	24841.	32480.
5	2727.	8083.	0.	0.	8083.	2177.1	22715.	30798.
6	2210.	8591.	0.	0.	8591.	2174.7	17013.	25604.
7	1887.	9048.	0.	0.	9048.	2171.9	12505.	21553.
8	1738.	9537.	0.	0.	9537.	2169.0	9139.	18676.
9	1519.	10025.	0.	0.	10025.	2165.7	9131.	19156.
10	1356.	10657.	0.	0.	10657.	2162.2	9078.	19735.
11	1210.	10963.	0.	0.	10963.	2158.5	8324.	19287.
12	1186.	10587.	0.	0.	10587.	2154.9	7490.	18077.
13	1186.	9880.	0.	0.	9880.	2151.6	6708.	16588.
14	1051.	9522.	0.	0.	9522.	2148.1	6916.	16438.
15	1026.	9520.	0.	0.	9520.	2144.3	6517.	16037.
16	1026.	9506.	0.	0.	9506.	2140.5	5974.	15480.
17	1026.	9522.	0.	0.	9522.	2136.7	5710.	15232.
18	1035.	9508.	0.	0.	9508.	2132.9	5526.	15034.
19	1008.	9542.	0.	0.	9542.	2129.0	5582.	15124.
20	1008.	9542.	0.	0.	9542.	2125.2	5384.	14926.
21	1008.	9445.	0.	0.	9445.	2121.4	5097.	14542.
22	929.	9307.	0.	0.	9307.	2117.6	5084.	14391.
23	868.	8729.	0.	0.	8729.	2114.1	4326.	13055.
24	868.	8345.	0.	0.	8345.	2110.7	4452.	12797.
25	868.	7945.	0.	0.	7945.	2107.5	4274.	12219.
26	868.	7745.	0.	0.	7745.	2104.5	4379.	12124.
27	879.	7589.	0.	0.	7589.	2101.4	4656.	12245.
28	879.	7281.	0.	0.	7281.	2098.3	3922.	11203.
29	879.	6985.	0.	0.	6985.	2095.0	3707.	10692.
30	929.	6636.	0.	0.	6636.	2092.0	5003.	11639.
31	1227.	6304.	0.	0.	6304.	2089.3	4306.	10610.
32	2355.	6230.	0.	0.	6230.	2087.2	15335.	21565.
33	8066.	6541.	0.	0.	6541.	2088.0	50764.	57305.
34	11109.	6868.	0.	0.	6868.	2090.3	51995.	58863.
35	13811.	7211.	0.	0.	7211.	2093.8	47398.	54609.
36	17385.	7072.	0.	0.	7072.	2099.3	61607.	68679.
37	28985.	6862.	0.	0.	6862.	2109.4	58834.	65696.
38	31344.	6657.	0.	0.	6657.	2120.5	103977.	110634.
39	20593.	6408.	0.	0.	6408.	2126.8	108850.	115258.
40	18980.	6923.	0.	0.	6923.	2132.3	96839.	103762.
41	18143.	7014.	0.	0.	7014.	2137.3	84582.	91596.
42	13728.	7499.	0.	0.	7499.	2140.1	73290.	80789.
43	14810.	7381.	0.	0.	7381.	2143.4	79977.	87358.
44	15752.	7095.	0.	0.	7095.	2147.3	76471.	83566.
45	18754.	6725.	0.	0.	6725.	2152.3	80847.	87572.
46	14942.	7185.	0.	0.	7185.	2155.2	62794.	69979.
47	19441.	6641.	0.	0.	6641.	2160.1	79084.	85725.
48	20593.	6422.	0.	0.	6422.	2165.5	65434.	71856.
49	11210.	6396.	0.	0.	6396.	2167.3	51477.	57873.
50	7823.	5881.	0.	0.	5881.	2168.1	56152.	62033.
51	6605.	5617.	0.	0.	5617.	2168.4	54404.	60021.
52	5366.	5536.	0.	0.	5536.	2168.4	43688.	49224.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1974 1	4607.	5352.	0.	0.	5352.	2168.1	34482.	39834.
2	3710.	5351.	0.	0.	5351.	2167.5	28098.	33449.
3	2558.	5736.	0.	0.	5736.	2166.2	20927.	26663.
4	1938.	6111.	0.	0.	6111.	2164.7	16047.	22158.
5	1693.	6466.	0.	0.	6466.	2162.8	15118.	21584.
6	1459.	6873.	0.	0.	6873.	2160.8	12243.	19116.
7	1344.	7238.	0.	0.	7238.	2158.5	8947.	16185.
8	1230.	7630.	0.	0.	7630.	2156.1	9072.	16702.
9	1129.	8020.	0.	0.	8020.	2153.5	9391.	17411.
10	1028.	8526.	0.	0.	8526.	2150.7	7554.	16080.
11	926.	8770.	0.	0.	8770.	2147.2	6685.	15455.
12	881.	8470.	0.	0.	8470.	2143.8	6988.	15458.
13	854.	7904.	0.	0.	7904.	2140.7	7659.	15563.
14	816.	7618.	0.	0.	7618.	2137.6	8065.	15683.
15	811.	7616.	0.	0.	7616.	2134.5	7489.	15105.
16	778.	7605.	0.	0.	7605.	2131.5	7410.	15015.
17	765.	7618.	0.	0.	7618.	2128.4	7322.	14940.
18	745.	7606.	0.	0.	7606.	2125.3	7260.	14866.
19	707.	7634.	0.	0.	7634.	2122.2	6947.	14581.
20	694.	7634.	0.	0.	7634.	2119.1	7482.	15116.
21	662.	7556.	0.	0.	7556.	2116.0	7524.	15080.
22	663.	7446.	0.	0.	7446.	2112.9	7275.	14721.
23	648.	6983.	0.	0.	6983.	2110.1	7571.	14554.
24	636.	6676.	0.	0.	6676.	2107.4	6678.	13354.
25	605.	6356.	0.	0.	6356.	2104.8	6387.	12743.
26	605.	6196.	0.	0.	6196.	2102.3	6392.	12588.
27	594.	6071.	0.	0.	6071.	2099.7	6187.	12258.
28	620.	5825.	0.	0.	5825.	2097.0	6150.	11975.
29	747.	5588.	0.	0.	5588.	2094.4	6623.	12211.
30	1189.	5309.	0.	0.	5309.	2092.2	10121.	15430.
31	2059.	5043.	0.	0.	5043.	2090.6	33047.	38090.
32	5341.	4984.	0.	0.	4984.	2090.8	68849.	73833.
33	9964.	5233.	0.	0.	5233.	2093.3	47639.	52872.
34	22246.	5494.	0.	0.	5494.	2101.9	56039.	61533.
35	25280.	5769.	0.	0.	5769.	2110.7	68500.	74269.
36	16013.	7072.	0.	0.	7072.	2114.7	66805.	73877.
37	13675.	6862.	0.	0.	6862.	2117.8	49782.	56644.
38	12785.	6657.	0.	0.	6657.	2120.5	63215.	69872.
39	13651.	6408.	0.	0.	6408.	2123.8	88341.	94749.
40	14383.	6440.	0.	0.	6440.	2127.3	78276.	84716.
41	17876.	5954.	0.	0.	5954.	2132.7	73313.	79267.
42	16396.	6082.	0.	0.	6082.	2137.3	73454.	79536.
43	15766.	6195.	0.	0.	6195.	2141.6	81190.	87385.
44	14730.	6056.	0.	0.	6056.	2145.5	76360.	82416.
45	15504.	5818.	0.	0.	5818.	2149.9	81405.	87223.
46	13265.	6279.	0.	0.	6279.	2152.6	76453.	82732.
47	10498.	6847.	0.	0.	6847.	2154.0	65855.	72702.
48	14244.	6114.	0.	0.	6114.	2157.0	72517.	78631.
49	13395.	5334.	0.	0.	5334.	2160.1	61820.	67154.
50	7511.	5476.	0.	0.	5476.	2160.9	48090.	53566.
51	7590.	5617.	0.	0.	5617.	2161.6	36670.	42287.
52	9984.	5536.	0.	0.	5536.	2163.6	32874.	38410.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA OUTFLOW			TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
		TURBINE DISCHARGE	ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)	
1975 1	4537.	5352.	0.	0.	5352.	2163.3	21034.	26386.
2	4509.	5351.	0.	0.	5351.	2162.9	21062.	26413.
3	2402.	5736.	0.	0.	5736.	2161.7	14741.	20477.
4	1602.	6111.	0.	0.	6111.	2160.0	11684.	17795.
5	1468.	6466.	0.	0.	6466.	2158.1	9675.	16141.
6	1478.	6873.	0.	0.	6873.	2156.0	9522.	16395.
7	1478.	7238.	0.	0.	7238.	2153.8	8665.	15903.
8	1478.	7630.	0.	0.	7630.	2151.5	8522.	16152.
9	1461.	8020.	0.	0.	8020.	2148.8	8539.	16559.
10	1264.	8526.	0.	0.	8526.	2145.5	8522.	17048.
11	1264.	8770.	0.	0.	8770.	2142.2	8236.	17006.
12	1264.	8470.	0.	0.	8470.	2138.9	8022.	16492.
13	1264.	7904.	0.	0.	7904.	2135.9	7736.	15640.
14	1270.	7618.	0.	0.	7618.	2133.1	7730.	15348.
15	1203.	7616.	0.	0.	7616.	2130.2	7583.	15199.
16	1203.	7605.	0.	0.	7605.	2127.3	7297.	14902.
17	1203.	7618.	0.	0.	7618.	2124.4	7297.	14915.
18	1200.	7606.	0.	0.	7606.	2121.6	6800.	14406.
19	1123.	7634.	0.	0.	7634.	2118.6	6877.	14511.
20	1123.	7634.	0.	0.	7634.	2115.7	6877.	14511.
21	1081.	7556.	0.	0.	7556.	2112.8	6419.	13975.
22	1051.	7446.	0.	0.	7446.	2109.9	6449.	13895.
23	1040.	6983.	0.	0.	6983.	2107.2	5960.	12943.
24	1040.	6676.	0.	0.	6676.	2104.7	5960.	12636.
25	1040.	6356.	0.	0.	6356.	2102.3	5960.	12316.
26	1040.	6196.	0.	0.	6196.	2100.0	5960.	12156.
27	1036.	6071.	0.	0.	6071.	2097.3	5750.	11821.
28	1047.	5825.	0.	0.	5825.	2094.8	5453.	11278.
29	1142.	5588.	0.	0.	5588.	2092.4	5358.	10946.
30	1354.	5309.	0.	0.	5309.	2090.3	5932.	11241.
31	2133.	5043.	0.	0.	5043.	2088.7	7081.	12124.
32	5138.	4984.	0.	0.	4984.	2088.8	9433.	14417.
33	11291.	5233.	0.	0.	5233.	2092.0	23138.	28371.
34	17252.	5494.	0.	0.	5494.	2098.3	60777.	66271.
35	23081.	5769.	0.	0.	5769.	2106.4	89419.	95188.
36	30459.	5658.	0.	0.	5658.	2117.5	98970.	104628.
37	22880.	6862.	0.	0.	6862.	2124.7	87406.	94268.
38	28749.	7988.	0.	0.	7988.	2134.1	106680.	114668.
39	25700.	7690.	0.	0.	7690.	2142.2	115157.	122847.
40	23413.	7531.	0.	0.	7531.	2149.3	119444.	126975.
41	25455.	7425.	0.	0.	7425.	2156.3	127974.	135399.
42	24131.	7324.	0.	0.	7324.	2162.6	113726.	121050.
43	22076.	7275.	0.	0.	7275.	2168.3	96353.	103628.
44	20265.	7502.	0.	0.	7502.	2173.1	89878.	97380.
45	16199.	7473.	0.	0.	7473.	2176.4	83372.	90845.
46	15474.	7567.	0.	0.	7567.	2179.4	82826.	90393.
47	13658.	7667.	0.	0.	7667.	2181.7	70956.	78623.
48	11762.	7889.	0.	0.	7889.	2183.2	56224.	64113.
49	9359.	8115.	0.	0.	8115.	2183.6	52341.	60456.
50	15849.	8307.	0.	3982.	12289.	2185.0	73308.	85597.
51	14847.	8494.	0.	6353.	14847.	2185.0	79424.	94271.
52	12513.	8630.	0.	3883.	12513.	2185.0	57887.	70400.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1976 1	7559.	8028.	0.	0.	8028.	2184.8	37884.	45912.
2	6664.	8027.	0.	0.	8027.	2184.3	27136.	35163.
3	6139.	8604.	0.	0.	8604.	2183.4	25475.	34079.
4	3621.	9167.	0.	0.	9167.	2181.3	17808.	26975.
5	2720.	8083.	0.	0.	8083.	2179.2	13280.	21363.
6	1937.	8591.	0.	0.	8591.	2176.7	10349.	18940.
7	1475.	9048.	0.	0.	9048.	2173.8	7882.	16930.
8	1173.	9537.	0.	0.	9537.	2170.6	6470.	16007.
9	1011.	10025.	0.	0.	10025.	2167.2	5418.	15443.
10	925.	10657.	0.	0.	10657.	2163.5	5075.	15732.
11	890.	10963.	0.	0.	10963.	2159.7	5110.	16073.
12	855.	10587.	0.	0.	10587.	2156.0	5145.	15732.
13	809.	9880.	0.	0.	9880.	2152.6	5191.	15071.
14	778.	9522.	0.	0.	9522.	2149.1	5565.	15087.
15	778.	9520.	0.	0.	9520.	2145.2	5793.	15313.
16	750.	9506.	0.	0.	9506.	2141.2	6050.	15556.
17	739.	9522.	0.	0.	9522.	2137.3	5661.	15183.
18	741.	9508.	0.	0.	9508.	2133.3	5488.	14996.
19	746.	9542.	0.	0.	9542.	2129.4	5254.	14796.
20	746.	9542.	0.	0.	9542.	2125.4	4854.	14396.
21	746.	9445.	0.	0.	9445.	2121.5	4625.	14070.
22	726.	9307.	0.	0.	9307.	2117.6	4474.	13781.
23	687.	8729.	0.	0.	8729.	2114.0	4656.	13385.
24	687.	8345.	0.	0.	8345.	2110.6	4713.	13058.
25	687.	7945.	0.	0.	7945.	2107.3	4713.	12658.
26	687.	7745.	0.	0.	7745.	2104.1	4713.	12458.
27	644.	7589.	0.	0.	7589.	2101.0	4756.	12345.
28	675.	7281.	0.	0.	7281.	2097.7	4725.	12006.
29	839.	6985.	0.	0.	6985.	2094.4	4875.	11860.
30	1402.	6636.	0.	0.	6636.	2091.6	7598.	14234.
31	3440.	6304.	0.	0.	6304.	2090.1	42703.	49007.
32	9778.	6230.	0.	0.	6230.	2092.0	88308.	94538.
33	9397.	6541.	0.	0.	6541.	2093.5	57117.	63658.
34	9828.	6868.	0.	0.	6868.	2095.1	52886.	59754.
35	11375.	7211.	0.	0.	7211.	2097.3	51354.	58565.
36	23100.	7072.	0.	0.	7072.	2104.9	69729.	76801.
37	24887.	6862.	0.	0.	6862.	2113.0	96642.	103504.
38	17525.	6657.	0.	0.	6657.	2117.9	94046.	100703.
39	16928.	6408.	0.	0.	6408.	2122.7	97129.	103537.
40	16991.	6662.	0.	0.	6662.	2127.3	108866.	115528.
41	16954.	6668.	0.	0.	6668.	2131.9	103475.	110143.
42	16164.	6778.	0.	0.	6778.	2136.2	100407.	107185.
43	16576.	6719.	0.	0.	6719.	2140.6	90095.	96814.
44	20226.	7512.	0.	0.	7512.	2146.3	91117.	98629.
45	26317.	7603.	0.	0.	7603.	2154.0	92254.	99857.
46	19534.	7785.	178.	0.	7963.	2158.4	83123.	91086.
47	15004.	7878.	326.	0.	8204.	2161.0	75239.	83443.
48	10554.	8108.	263.	0.	8371.	2161.8	57146.	65517.
49	6302.	6573.	0.	0.	6573.	2161.7	36069.	42642.
50	5160.	5830.	0.	0.	5830.	2161.4	33554.	39384.
51	5190.	5617.	0.	0.	5617.	2161.3	47667.	53284.
52	5530.	5536.	0.	0.	5536.	2161.3	53920.	59456.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1977 1	3729.	5352.	0.	0.	5352.	2160.7	29171.	34523.
2	3045.	5351.	0.	0.	5351.	2159.8	26812.	32163.
3	2903.	5736.	0.	0.	5736.	2158.7	27097.	32833.
4	2576.	6111.	0.	0.	6111.	2157.4	27853.	33964.
5	2139.	6466.	0.	0.	6466.	2155.7	19861.	26327.
6	1963.	6873.	0.	0.	6873.	2153.9	16894.	23767.
7	1839.	7238.	0.	0.	7238.	2151.8	17447.	24685.
8	1736.	7630.	0.	0.	7630.	2149.5	15407.	23037.
9	2097.	8020.	0.	0.	8020.	2146.8	13474.	21494.
10	1902.	8526.	0.	0.	8526.	2143.8	12669.	21195.
11	1722.	8770.	0.	0.	8770.	2140.7	11707.	20477.
12	1583.	8470.	0.	0.	8470.	2137.6	10703.	19173.
13	1462.	7904.	0.	0.	7904.	2134.7	10252.	18156.
14	1442.	7618.	0.	0.	7618.	2131.9	10129.	17747.
15	1400.	7616.	0.	0.	7616.	2129.1	8743.	16359.
16	1326.	7605.	0.	0.	7605.	2126.3	8245.	15850.
17	1294.	7618.	0.	0.	7618.	2123.4	8206.	15824.
18	1257.	7606.	0.	0.	7606.	2120.6	8672.	16278.
19	1219.	7634.	0.	0.	7634.	2117.7	8138.	15772.
20	1197.	7634.	0.	0.	7634.	2114.8	7446.	15080.
21	1197.	7556.	0.	0.	7556.	2111.9	7589.	15145.
22	1156.	7446.	0.	0.	7446.	2109.1	6630.	14076.
23	1106.	6983.	0.	0.	6983.	2106.5	6037.	13020.
24	1106.	6676.	0.	0.	6676.	2104.0	5537.	12213.
25	1106.	6356.	0.	0.	6356.	2101.6	5394.	11750.
26	1106.	6196.	0.	0.	6196.	2099.2	5394.	11590.
27	1149.	6071.	0.	0.	6071.	2096.6	4994.	11065.
28	1149.	5825.	0.	0.	5825.	2094.1	4851.	10676.
29	1211.	5588.	0.	0.	5588.	2091.7	4789.	10377.
30	1272.	5309.	0.	0.	5309.	2089.6	5299.	10608.
31	1314.	5043.	0.	0.	5043.	2087.6	6900.	11943.
32	2267.	4984.	0.	0.	4984.	2086.2	15876.	20860.
33	8205.	5233.	0.	0.	5233.	2087.7	47952.	53185.
34	12588.	5494.	0.	0.	5494.	2091.5	75869.	81363.
35	19531.	5769.	0.	0.	5769.	2098.9	99298.	105067.
36	29414.	5658.	0.	0.	5658.	2109.7	128729.	134387.
37	38957.	5490.	0.	0.	5490.	2124.8	134043.	139533.
38	31928.	6657.	0.	0.	6657.	2136.1	140358.	147015.
39	28489.	7690.	0.	0.	7690.	2145.5	140082.	147772.
40	18502.	7509.	0.	0.	7509.	2150.4	130641.	138150.
41	20572.	7424.	0.	0.	7424.	2155.4	121714.	129138.
42	21740.	7337.	0.	0.	7337.	2160.8	128403.	135740.
43	18089.	7300.	0.	0.	7300.	2164.9	116768.	124068.
44	19531.	7536.	0.	0.	7536.	2169.5	116612.	124148.
45	18939.	7503.	0.	0.	7503.	2173.8	114490.	121993.
46	17328.	7589.	0.	0.	7589.	2177.5	116672.	124261.
47	17519.	7678.	0.	0.	7678.	2181.3	116910.	124588.
48	11066.	7895.	0.	0.	7895.	2182.5	78034.	85929.
49	8643.	8124.	0.	0.	8124.	2182.7	65014.	73138.
50	12235.	8303.	0.	0.	8303.	2184.2	85394.	93697.
51	11736.	8483.	0.	1043.	9527.	2185.0	73035.	82562.
52	9877.	8623.	0.	1254.	9877.	2185.0	71186.	81063.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
		TURBINE DISCHARGE (CFS)	CONE VALVE ENVIRON. RELEASE (CFS)				
1978 1	6782.	8028.	0.	8028.	2184.5	49947.	57975.
2	6882.	8027.	0.	8027.	2184.1	39832.	47859.
3	6046.	8604.	0.	8604.	2183.1	27383.	35987.
4	4510.	9167.	0.	9167.	2181.4	19490.	28657.
5	3355.	9700.	0.	9700.	2178.9	15074.	24774.
6	2862.	8591.	0.	8591.	2176.8	12424.	21015.
7	2578.	9048.	0.	9048.	2174.3	9993.	19041.
8	2392.	9537.	0.	9537.	2171.6	7665.	17202.
9	2223.	10025.	0.	10025.	2168.6	17948.	27973.
10	2108.	12788.	0.	12788.	2164.6	5806.	18594.
11	2015.	13156.	0.	13156.	2160.3	5471.	18627.
12	1955.	12704.	0.	12704.	2156.3	5388.	18092.
13	1808.	11856.	0.	11856.	2152.4	5392.	17248.
14	1741.	11426.	0.	11426.	2148.5	5288.	16714.
15	1641.	11424.	0.	11424.	2144.1	5359.	16783.
16	1557.	11407.	0.	11407.	2139.7	5443.	16850.
17	1496.	11426.	0.	11426.	2135.2	5504.	16930.
18	1403.	11410.	0.	11410.	2130.7	5397.	16807.
19	1285.	11450.	0.	11450.	2126.2	5515.	16965.
20	1247.	11450.	0.	11450.	2121.6	5553.	17003.
21	1247.	11334.	0.	11334.	2117.0	5553.	16887.
22	1212.	11168.	0.	11168.	2112.6	5388.	16556.
23	1258.	10475.	0.	10475.	2108.4	5342.	15817.
24	1258.	10014.	0.	10014.	2104.5	5342.	15356.
25	1258.	9534.	0.	9534.	2100.8	5342.	14876.
26	1275.	9294.	0.	9294.	2096.6	5282.	14576.
27	1251.	9107.	0.	9107.	2092.4	5178.	14285.
28	1251.	7281.	0.	7281.	2089.2	5206.	12487.
29	1251.	6985.	0.	6985.	2086.2	5549.	12534.
30	1322.	6636.	0.	6636.	2083.3	6392.	13028.
31	3355.	6304.	0.	6304.	2081.8	9674.	15978.
32	11862.	6230.	0.	6230.	2084.8	32424.	38654.
33	16195.	6541.	0.	6541.	2089.9	43519.	50060.
34	10959.	6868.	0.	6868.	2092.1	45912.	52780.
35	11660.	7211.	0.	7211.	2094.5	51369.	58580.
36	13979.	7072.	0.	7072.	2098.1	55735.	62807.
37	19417.	6862.	0.	6862.	2104.1	75854.	82716.
38	16614.	6657.	0.	6657.	2108.6	76915.	83572.
39	20703.	6408.	0.	6408.	2115.0	91868.	98276.
40	19608.	5294.	0.	5294.	2121.4	95535.	100829.
41	18215.	5486.	0.	5486.	2127.1	100642.	106128.
42	18416.	5459.	0.	5459.	2133.0	99441.	104900.
43	18064.	5507.	0.	5507.	2138.6	99222.	104729.
44	16600.	4845.	0.	4845.	2143.9	107400.	112245.
45	15674.	4826.	0.	4826.	2148.8	104469.	109295.
46	14572.	4907.	0.	4907.	2152.6	90442.	95349.
47	12160.	5331.	0.	5331.	2155.2	81211.	86542.
48	8756.	6070.	0.	6070.	2156.3	61887.	67957.
49	9287.	6073.	0.	6073.	2157.5	62842.	68915.
50	8372.	5476.	0.	5476.	2158.6	58328.	62804.
51	6293.	5617.	0.	5617.	2158.8	45521.	51138.
52	4696.	5536.	0.	5536.	2158.5	28292.	33828.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1979 1	4195.	5352.	0.	0.	5352.	2158.0	26805.	32157.
2	4701.	5351.	0.	0.	5351.	2157.8	40442.	45793.
3	3796.	5736.	0.	0.	5736.	2157.1	38204.	43940.
4	2849.	6111.	0.	0.	6111.	2155.8	29151.	35262.
5	2736.	6466.	0.	0.	6466.	2154.4	23835.	30301.
6	2368.	6873.	0.	0.	6873.	2152.7	17346.	24219.
7	1774.	7238.	0.	0.	7238.	2150.6	11655.	18893.
8	1558.	7630.	0.	0.	7630.	2148.0	8728.	16358.
9	1502.	8020.	0.	0.	8020.	2145.1	8355.	16375.
10	1483.	8526.	0.	0.	8526.	2141.9	8017.	16543.
11	1349.	8770.	0.	0.	8770.	2138.6	8151.	16921.
12	1214.	8470.	0.	0.	8470.	2135.3	8000.	16470.
13	1170.	7904.	0.	0.	7904.	2132.3	7830.	15734.
14	1185.	7618.	0.	0.	7618.	2129.4	7815.	15433.
15	1138.	7616.	0.	0.	7616.	2126.5	7862.	15478.
16	1138.	7605.	0.	0.	7605.	2123.5	7862.	15467.
17	1138.	7618.	0.	0.	7618.	2120.6	7362.	14980.
18	1059.	7606.	0.	0.	7606.	2117.7	7441.	15047.
19	1067.	7634.	0.	0.	7634.	2114.7	7076.	14710.
20	1067.	7634.	0.	0.	7634.	2111.8	6933.	14567.
21	1067.	7556.	0.	0.	7556.	2108.9	6647.	14203.
22	989.	7446.	0.	0.	7446.	2106.0	6440.	13886.
23	1113.	6983.	0.	0.	6983.	2103.3	5887.	12870.
24	1113.	6676.	0.	0.	6676.	2100.8	5887.	12563.
25	1113.	6356.	0.	0.	6356.	2098.2	5887.	12243.
26	1113.	6196.	0.	0.	6196.	2095.5	5887.	12083.
27	1064.	6071.	0.	0.	6071.	2092.8	5436.	11507.
28	1113.	5825.	0.	0.	5825.	2090.3	5673.	11498.
29	1228.	5588.	0.	0.	5588.	2088.0	6915.	12503.
30	1545.	5309.	0.	0.	5309.	2086.0	9812.	15121.
31	2451.	5043.	0.	0.	5043.	2084.6	20263.	25306.
32	4633.	4984.	0.	0.	4984.	2084.4	62510.	67494.
33	10811.	5233.	0.	0.	5233.	2087.4	77403.	82636.
34	17246.	5494.	0.	0.	5494.	2093.6	77125.	82619.
35	28470.	5769.	0.	0.	5769.	2104.8	98101.	103870.
36	25470.	6984.	0.	0.	6984.	2113.1	99530.	106514.
37	21379.	7308.	0.	0.	7308.	2119.5	94907.	102215.
38	19302.	7473.	0.	0.	7473.	2124.8	85555.	93028.
39	23880.	7109.	0.	0.	7109.	2132.3	109120.	116229.
40	22832.	7273.	0.	0.	7273.	2139.3	106311.	113584.
41	22584.	7145.	0.	0.	7145.	2146.3	113559.	120704.
42	27495.	7048.	0.	0.	7048.	2154.6	123791.	130839.
43	28100.	7006.	0.	0.	7006.	2162.6	127329.	134335.
44	21732.	7554.	0.	0.	7554.	2168.0	115839.	123393.
45	20346.	7514.	0.	0.	7514.	2172.9	117940.	125454.
46	16431.	7600.	0.	0.	7600.	2176.2	127283.	134883.
47	13993.	7697.	0.	0.	7697.	2178.6	110150.	117847.
48	12415.	7919.	0.	0.	7919.	2180.3	82042.	89961.
49	7911.	8147.	0.	0.	8147.	2180.3	50418.	58565.
50	7704.	8338.	0.	0.	8338.	2180.0	47696.	56034.
51	11339.	8425.	0.	0.	8425.	2181.1	80775.	89200.
52	8978.	6920.	0.	0.	6920.	2182.0	90972.	97892.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1980 1	6672.	6690.	0.	0.	6690.	2182.0	59271.	65961.
2	8469.	6689.	0.	0.	6689.	2182.7	75431.	82120.
3	5948.	7170.	0.	0.	7170.	2182.2	49966.	57136.
4	4395.	7639.	0.	0.	7639.	2181.0	33834.	41473.
5	4084.	8083.	0.	0.	8083.	2179.5	35130.	43213.
6	3698.	8591.	0.	0.	8591.	2177.6	35131.	43722.
7	4120.	9048.	0.	0.	9048.	2175.7	32809.	41857.
8	2949.	11444.	0.	0.	11444.	2172.5	19337.	30781.
9	2811.	12030.	0.	0.	12030.	2169.0	16475.	28505.
10	2297.	12788.	0.	0.	12788.	2165.0	15060.	27848.
11	2069.	13156.	0.	0.	13156.	2160.8	13217.	26373.
12	1890.	12704.	0.	0.	12704.	2156.7	11296.	24000.
13	1711.	11856.	0.	0.	11856.	2152.9	10360.	22216.
14	1607.	11426.	0.	0.	11426.	2149.0	9679.	21105.
15	1535.	11424.	0.	0.	11424.	2144.5	8894.	20318.
16	1451.	11407.	0.	0.	11407.	2140.0	8478.	19885.
17	1379.	11426.	0.	0.	11426.	2135.5	8121.	19547.
18	1345.	11410.	0.	0.	11410.	2131.0	8012.	19422.
19	1285.	11450.	0.	0.	11450.	2126.4	7901.	19351.
20	1224.	11450.	0.	0.	11450.	2121.8	7819.	19269.
21	1176.	11334.	0.	0.	11334.	2117.3	7695.	19029.
22	1175.	11168.	0.	0.	11168.	2112.8	7625.	18793.
23	1177.	10475.	0.	0.	10475.	2108.6	7680.	18155.
24	1177.	10014.	0.	0.	10014.	2104.6	7952.	17966.
25	1177.	9534.	0.	0.	9534.	2100.8	7523.	17057.
26	1177.	9294.	0.	0.	9294.	2096.7	7809.	17103.
27	1122.	9107.	0.	0.	9107.	2092.4	8507.	17614.
28	1122.	7281.	0.	0.	7281.	2089.1	9235.	16516.
29	1179.	6985.	0.	0.	6985.	2086.1	10821.	17806.
30	1604.	6636.	0.	0.	6636.	2083.4	12967.	19603.
31	3462.	6304.	0.	0.	6304.	2081.9	20252.	26556.
32	8212.	6230.	0.	0.	6230.	2082.9	47417.	53647.
33	11764.	6541.	0.	0.	6541.	2085.7	56165.	62706.
34	10518.	6868.	0.	0.	6868.	2087.6	66496.	73364.
35	16714.	7211.	0.	0.	7211.	2092.7	92872.	100083.
36	25823.	7072.	0.	0.	7072.	2102.3	112320.	119392.
37	20349.	6862.	0.	0.	6862.	2108.3	121222.	128084.
38	26351.	6657.	0.	0.	6657.	2117.2	124935.	131592.
39	22988.	6408.	0.	0.	6408.	2124.6	124441.	130849.
40	26281.	6061.	0.	0.	6061.	2133.7	134862.	140923.
41	26663.	5954.	0.	0.	5954.	2143.1	163194.	169148.
42	28137.	7048.	0.	0.	7048.	2152.1	162434.	169482.
43	25275.	7006.	0.	0.	7006.	2159.1	149582.	156588.
44	28150.	7267.	0.	0.	7267.	2167.0	143993.	151260.
45	19051.	7526.	0.	0.	7526.	2171.4	118663.	126189.
46	18006.	7612.	0.	0.	7612.	2175.3	113565.	121177.
47	16331.	7702.	0.	0.	7702.	2178.6	102383.	110085.
48	11948.	7920.	0.	0.	7920.	2180.2	87338.	95258.
49	8723.	8148.	0.	0.	8148.	2180.4	75706.	83854.
50	9329.	8334.	0.	0.	8334.	2180.7	74242.	82576.
51	15679.	8506.	0.	0.	8506.	2183.5	92035.	100541.
52	10243.	8631.	0.	0.	8631.	2184.2	79132.	87763.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW	WATANA TURBINE DISCHARGE	OUTFLOW		TOTAL OUTFLOW	END OF WEEK RESERVOIR ELEVATION	INTERVEN- ING FLOW WATANA- SUSITNA STA	TOTAL FLOW SUSITNA STA
			ENVIRON. RELEASE	CONE VALVE EXCESS RELEASE				
	(CFS)	(CFS)	(CFS)	(CFS)	(CFS)	(FT)	(CFS)	(CFS)
1981 1	8532.	8028.	0.	0.	8028.	2184.4	34039.	42067.
2	7605.	8027.	0.	0.	8027.	2184.2	32538.	40565.
3	6326.	8604.	0.	0.	8604.	2183.3	27217.	35821.
4	5214.	9167.	0.	0.	9167.	2181.8	22272.	31439.
5	3950.	9700.	0.	0.	9700.	2179.7	18607.	28307.
6	3534.	10309.	0.	0.	10309.	2177.1	16180.	26489.
7	2637.	10858.	0.	0.	10858.	2174.0	11506.	22364.
8	2685.	11444.	0.	0.	11444.	2170.6	11458.	22902.
9	2707.	12030.	0.	0.	12030.	2167.1	11007.	23037.
10	2175.	12788.	0.	0.	12788.	2163.1	8254.	21042.
11	1678.	13156.	0.	0.	13156.	2158.7	6751.	19907.
12	1578.	12704.	0.	0.	12704.	2154.5	5708.	18412.
13	1516.	11856.	0.	0.	11856.	2150.5	5413.	17269.
14	1448.	11426.	0.	0.	11426.	2146.2	5409.	16835.
15	1684.	11424.	0.	0.	11424.	2141.8	5745.	17169.
16	1961.	11407.	0.	0.	11407.	2137.5	6110.	17517.
17	2118.	11426.	0.	0.	11426.	2133.3	6025.	17451.
18	2142.	11410.	0.	0.	11410.	2129.2	6429.	17839.
19	1911.	11450.	0.	0.	11450.	2124.9	6946.	18396.
20	1594.	11450.	0.	0.	11450.	2120.4	5977.	17427.
21	1265.	11334.	0.	0.	11334.	2115.9	5449.	16783.
22	1190.	11168.	0.	0.	11168.	2111.4	4881.	16049.
23	1194.	10475.	0.	0.	10475.	2107.3	4806.	15281.
24	1274.	10014.	0.	0.	10014.	2103.3	4726.	14740.
25	1297.	9534.	0.	0.	9534.	2099.6	4917.	14451.
26	1314.	9294.	0.	0.	9294.	2095.3	5257.	14551.
27	1238.	7589.	0.	0.	7589.	2091.9	5976.	13565.
28	1291.	7281.	0.	0.	7281.	2088.7	6709.	13990.
29	1373.	6985.	0.	0.	6985.	2085.7	7770.	14755.
30	1779.	6636.	0.	0.	6636.	2083.2	11650.	18286.
31	4737.	6304.	0.	0.	6304.	2082.3	35120.	41424.
32	17566.	6230.	0.	0.	6230.	2088.4	68148.	74378.
33	17640.	6541.	0.	0.	6541.	2094.3	75217.	81758.
34	11625.	6868.	0.	0.	6868.	2096.8	74546.	81414.
35	19077.	7211.	0.	0.	7211.	2102.6	86894.	94105.
36	16465.	7072.	0.	0.	7072.	2106.9	82935.	90007.
37	14949.	7035.	0.	0.	7035.	2110.4	79180.	86215.
38	16085.	6885.	0.	0.	6885.	2114.6	100629.	107514.
39	18788.	6531.	0.	0.	6531.	2120.1	102069.	108600.
40	14090.	6061.	0.	0.	6061.	2123.7	88510.	94571.
41	33261.	5954.	0.	0.	5954.	2136.0	119639.	125593.
42	32516.	5873.	0.	0.	5873.	2147.9	156341.	162214.
43	29007.	7006.	0.	0.	7006.	2156.6	142279.	149285.
44	31168.	7267.	0.	0.	7267.	2165.7	134546.	141813.
45	30077.	7240.	0.	0.	7240.	2174.4	132637.	139877.
46	38871.	7561.	0.	3341.	10902.	2185.0	167843.	178745.
47	30803.	7682.	0.	23121.	30803.	2185.0	103054.	133857.
48	20647.	7898.	0.	12749.	20647.	2185.0	94924.	115571.
49	15158.	8119.	0.	7039.	15158.	2185.0	82299.	97457.
50	12220.	8299.	0.	3921.	12220.	2185.0	57194.	69414.
51	10197.	8481.	0.	1716.	10197.	2185.0	45903.	56100.
52	8299.	8618.	0.	0.	8618.	2184.9	33864.	42482.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW (CFS)	WATANA TURBINE DISCHARGE (CFS)	WATANA OUTFLOW		TOTAL OUTFLOW (CFS)	END OF WEEK RESERVOIR ELEVATION (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA (CFS)	TOTAL FLOW SUSITNA STA (CFS)
			ENVIRON. RELEASE (CFS)	CONE VALVE EXCESS RELEASE (CFS)				
1982 1	5901.	8028.	0.	0.	8028.	2184.1	24556.	32584.
2	5560.	8027.	0.	0.	8027.	2183.1	22026.	30053.
3	5713.	8604.	0.	0.	8604.	2182.0	25401.	34005.
4	6627.	9167.	0.	0.	9167.	2181.1	41630.	50797.
5	3364.	8083.	0.	0.	8083.	2179.3	22293.	30376.
6	2845.	8591.	0.	0.	8591.	2177.1	18441.	27032.
7	2782.	9048.	0.	0.	9048.	2174.7	14789.	23837.
8	2339.	9537.	0.	0.	9537.	2172.0	11804.	21341.
9	2057.	12030.	0.	0.	12030.	2168.2	10943.	22973.
10	1971.	12788.	0.	0.	12788.	2164.1	10315.	23103.
11	1860.	13156.	0.	0.	13156.	2159.8	10140.	23296.
12	1794.	12704.	0.	0.	12704.	2155.6	9635.	22339.
13	1794.	11856.	0.	0.	11856.	2151.8	9206.	21062.
14	1697.	11426.	0.	0.	11426.	2147.8	8589.	20015.
15	1695.	11424.	0.	0.	11424.	2143.4	7591.	19015.
16	1695.	11407.	0.	0.	11407.	2139.0	7162.	18569.
17	1695.	11426.	0.	0.	11426.	2134.6	6805.	18231.
18	1729.	11410.	0.	0.	11410.	2130.3	6342.	17752.
19	1662.	11450.	0.	0.	11450.	2125.9	5909.	17359.
20	1213.	11450.	0.	0.	11450.	2121.3	5858.	17308.
21	881.	11334.	0.	0.	11334.	2116.6	6119.	17453.
22	767.	11168.	0.	0.	11168.	2111.9	5733.	16901.
23	826.	10475.	0.	0.	10475.	2107.6	5031.	15506.
24	826.	10014.	0.	0.	10014.	2103.4	4674.	14688.
25	874.	9534.	0.	0.	9534.	2099.5	4126.	13660.
26	1123.	9294.	0.	0.	9294.	2095.1	3877.	13171.
27	956.	7589.	0.	0.	7589.	2091.6	4044.	11633.
28	956.	7281.	0.	0.	7281.	2088.2	4115.	11396.
29	1057.	6985.	0.	0.	6985.	2085.0	4657.	11642.
30	1403.	6636.	0.	0.	6636.	2082.3	5383.	12019.
31	2641.	6304.	0.	0.	6304.	2080.3	7073.	13377.
32	6274.	6230.	0.	0.	6230.	2080.3	20726.	26956.
33	11618.	6541.	0.	0.	6541.	2083.0	43482.	50023.
34	15603.	6868.	0.	0.	6868.	2087.7	45726.	52594.
35	17916.	7211.	0.	0.	7211.	2093.4	52355.	59566.
36	21638.	7072.	0.	0.	7072.	2101.0	81819.	88891.
37	18090.	6862.	0.	0.	6862.	2106.0	85539.	92401.
38	23883.	6657.	0.	0.	6657.	2113.8	84374.	91031.
39	23173.	6408.	0.	0.	6408.	2121.3	102827.	109235.
40	16689.	6189.	0.	0.	6189.	2126.0	84797.	90986.
41	20637.	5954.	0.	0.	5954.	2132.6	82092.	88046.
42	20979.	5873.	0.	0.	5873.	2139.4	86021.	91894.
43	23533.	5838.	0.	0.	5838.	2147.4	114610.	120448.
44	20306.	6056.	0.	0.	6056.	2153.2	110694.	116750.
45	13970.	6341.	0.	0.	6341.	2156.1	90601.	96942.
46	12157.	6686.	0.	0.	6686.	2158.2	81772.	88458.
47	10610.	6981.	0.	0.	6981.	2159.6	70676.	77657.
48	11835.	6821.	0.	0.	6821.	2161.5	69022.	75843.
49	10670.	5334.	0.	0.	5334.	2163.5	72187.	77521.
50	13360.	5476.	0.	0.	5476.	2166.5	80783.	86259.
51	21010.	5617.	0.	0.	5617.	2172.3	153561.	159178.
52	11582.	5536.	0.	0.	5536.	2175.0	80168.	85704.

TABLE 10

WITH-PROJECT WEEKLY FLOWS FOR SUSITNA RIVER AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WATER YEAR/ WEEK	WATANA INFLOW  (CFS)	WATANA OUTFLOW			TOTAL OUTFLOW  (CFS)	END OF WEEK RESERVOIR ELEVATION  (FT)	INTERVEN- ING FLOW WATANA- SUSITNA STA  (CFS)	TOTAL FLOW SUSITNA STA  (CFS)
		TURBINE DISCHARGE  (CFS)	ENVIRON. RELEASE  (CFS)	CONE VALVE EXCESS RELEASE  (CFS)				
1983 1	7782.	5352.	0.	0.	5352.	2175.9	47175.	52527.
2	6119.	5351.	0.	0.	5351.	2176.2	30152.	35503.
3	4982.	5736.	0.	0.	5736.	2175.9	23847.	29583.
4	2921.	6111.	0.	0.	6111.	2174.7	19365.	25476.
5	2384.	6466.	0.	0.	6466.	2173.1	16473.	22939.
6	2252.	6873.	0.	0.	6873.	2171.4	14605.	21478.
7	2137.	9048.	0.	0.	9048.	2168.7	13006.	22054.
8	1997.	9537.	0.	0.	9537.	2165.9	11717.	21254.
9	1944.	10025.	0.	0.	10025.	2162.8	10342.	20367.
10	1850.	10657.	0.	0.	10657.	2159.5	9150.	19807.
11	1850.	10963.	0.	0.	10963.	2156.0	8093.	19056.
12	1850.	10587.	0.	0.	10587.	2152.7	7236.	17823.
13	1965.	9880.	0.	0.	9880.	2149.6	6949.	16829.
14	2201.	9522.	0.	0.	9522.	2146.3	7799.	17321.
15	1906.	9520.	0.	0.	9520.	2142.9	6580.	16100.
16	1690.	9506.	0.	0.	9506.	2139.4	6167.	15673.
17	1588.	9522.	0.	0.	9522.	2135.8	6212.	15734.
18	1553.	9508.	0.	0.	9508.	2132.2	6047.	15555.
19	1535.	9542.	0.	0.	9542.	2128.6	6151.	15693.
20	1650.	9542.	0.	0.	9542.	2125.1	6950.	16492.
21	1685.	9445.	0.	0.	9445.	2121.6	7544.	16989.
22	1583.	9307.	0.	0.	9307.	2118.1	6846.	16153.
23	1534.	8729.	0.	0.	8729.	2114.9	6066.	14795.
24	1437.	8345.	0.	0.	8345.	2111.8	5620.	13965.
25	1389.	7945.	0.	0.	7945.	2108.8	5382.	13327.
26	1280.	7745.	0.	0.	7745.	2105.9	5320.	13065.
27	1185.	7589.	0.	0.	7589.	2103.0	5358.	12947.
28	1208.	7281.	0.	0.	7281.	2100.3	5235.	12516.
29	1411.	6985.	0.	0.	6985.	2097.4	5475.	12460.
30	1907.	6636.	0.	0.	6636.	2094.9	7350.	13986.
31	3484.	6304.	0.	0.	6304.	2093.4	16302.	22606.
32	8419.	6230.	0.	0.	6230.	2094.5	46410.	52640.
33	14537.	6541.	0.	0.	6541.	2098.8	65749.	72290.
34	12909.	6868.	0.	0.	6868.	2101.7	55805.	62673.
35	18671.	7211.	0.	0.	7211.	2106.9	68615.	75826.
36	23758.	7072.	0.	0.	7072.	2114.4	84099.	91171.
37	17019.	6862.	0.	0.	6862.	2118.9	60124.	66986.
38	20754.	6657.	0.	0.	6657.	2125.3	85817.	92474.
39	20568.	6408.	0.	0.	6408.	2131.6	101575.	107983.
40	22463.	7273.	0.	0.	7273.	2138.5	95251.	102524.
41	19352.	7145.	0.	0.	7145.	2144.0	92362.	99507.
42	16152.	7048.	0.	0.	7048.	2148.1	83119.	90167.
43	17431.	7006.	0.	0.	7006.	2152.3	73183.	80189.
44	17935.	7267.	0.	0.	7267.	2156.4	77265.	84532.
45	22829.	7240.	0.	0.	7240.	2162.3	122314.	129554.
46	21149.	7361.	0.	0.	7361.	2167.5	92308.	99669.
47	18683.	7468.	0.	0.	7468.	2171.8	71131.	78599.
48	22728.	7750.	0.	0.	7750.	2177.5	62201.	69951.
49	15528.	8002.	0.	0.	8002.	2180.3	58101.	66103.
50	9607.	8214.	0.	0.	8214.	2180.9	40107.	48321.
51	8465.	8425.	0.	0.	8425.	2180.9	33706.	42131.
52	9728.	6920.	0.	0.	6920.	2182.1	31247.	38167.

**TABLE 11**

TABLE 11

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10959	0.0	8477	0.0	6332
3.0	10239	3.0	8003	9.1	6017
6.1	8939	9.1	7132	12.1	5717
15.2	8352	15.2	6733	21.2	5433
18.2	7803	24.2	6356	24.2	5162
33.3	7291	33.3	6001	36.4	4661
36.4	6812	42.4	5665	39.4	4429
45.5	6365	45.5	5348	42.4	3999
51.5	5947	54.5	4766	45.5	3800
60.6	5556	63.6	4499	63.6	3611
66.7	5191	69.7	4247	69.7	3431
69.7	4850	78.8	4010	75.8	3260
81.8	4532	81.8	3785	78.8	2943
87.9	4234	93.9	3185	87.9	2797
93.9	3956	97.0	3006	90.9	2658
97.0	3227	100.0	2838	93.9	2525
100.0	3015			100.0	2400
WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	6634	0.0	4088	0.0	3702
3.0	5711	12.1	3389	6.1	3485
6.1	5300	21.2	3184	12.1	2907
9.1	4918	24.2	2991	21.2	2737
12.1	4563	30.3	2810	27.3	2576
18.2	4234	54.5	2639	33.3	2425
27.3	3929	57.6	2480	45.5	2283
39.4	3645	66.7	2329	57.6	2149
45.5	3383	69.7	2188	63.6	2023
51.5	3139	78.8	2056	72.7	1793
60.6	2912	81.8	1931	78.8	1688
72.7	2702	84.8	1704	84.8	1496
78.8	2507	87.9	1504	90.9	1248
84.8	2159	93.9	1327	100.0	1175
87.9	2003	100.0	1247		
93.9	1725				
100.0	1600				

TABLE 11 (Continued)

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	4124	0.0	2952	0.0	2814
3.0	3027	3.0	2763	9.1	2460
6.1	2802	12.1	2587	12.1	2301
12.1	2593	18.2	2421	18.2	2151
24.2	2400	27.3	2266	36.4	2012
33.3	2222	36.4	2121	45.5	1881
45.5	2056	45.5	1986	51.5	1759
51.5	1903	48.5	1859	57.6	1538
66.7	1762	54.5	1740	69.7	1438
69.7	1631	60.6	1629	75.8	1345
75.8	1509	63.6	1525	78.8	1258
84.8	1397	72.7	1427	81.8	1176
87.9	1293	81.8	1250	87.9	1028
90.9	1197	90.9	1096	93.9	962
93.9	1108	97.0	899	97.0	841
97.0	1025	100.0	841	100.0	786
100.0	949				
WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	2994	0.0	2554	0.0	1957
3.0	2398	3.0	2228	12.1	1853
6.1	2227	6.1	2081	21.2	1754
15.2	2068	15.2	1944	30.3	1661
21.2	1921	24.2	1815	42.4	1573
33.3	1784	36.4	1696	45.5	1489
45.5	1657	48.5	1584	51.5	1410
48.5	1539	51.5	1382	54.5	1264
54.5	1429	57.6	1291	63.6	1197
60.6	1327	69.7	1205	72.7	1133
69.7	1232	72.7	1126	75.8	1073
75.8	1144	75.8	1052	81.8	962
78.8	1063	81.8	982	84.8	911
84.8	987	84.8	917	90.9	863
87.9	917	93.9	800	93.9	732
90.9	851	97.0	748	100.0	693
97.0	791	100.0	698		
100.0	734				

TABLE 11 (Continued)

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	1967	0.0	2203	0.0	1908
3.0	1861	3.0	1939	3.0	1801
15.2	1761	6.1	1819	6.1	1701
24.2	1666	15.2	1707	27.3	1605
30.3	1576	27.3	1601	36.4	1431
39.4	1491	33.3	1502	42.4	1351
51.5	1411	39.4	1409	48.5	1204
54.5	1335	51.5	1322	57.6	1137
57.6	1263	54.5	1241	66.7	1073
60.6	1195	57.6	1164	72.7	903
69.7	1130	66.7	1092	78.8	853
75.8	1069	72.7	961	90.9	805
81.8	957	75.8	902	93.9	677
84.8	905	84.8	846	100.0	639
87.9	857	90.9	794		
90.9	810	93.9	699		
93.9	725	100.0	655		
100.0	686				
WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	1963	0.0	2120	0.0	2144
3.0	1844	3.0	1855	3.0	1752
6.1	1732	6.1	1736	9.1	1638
18.2	1627	15.2	1624	18.2	1532
24.2	1528	21.2	1519	21.2	1432
27.3	1435	24.2	1421	27.3	1339
36.4	1348	33.3	1330	36.4	1252
48.5	1266	48.5	1244	45.5	1170
51.5	1190	51.5	1164	48.5	1094
54.5	1117	60.6	1089	66.7	1023
69.7	1050	69.7	953	69.7	894
72.7	870	72.7	891	72.7	836
81.8	817	75.8	834	81.8	782
90.9	767	87.9	780	90.9	731
93.9	636	93.9	639	93.9	639
100.0	597	100.0	597	100.0	597

TABLE 11 (Continued)

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	1913	0.0	1652	0.0	1687
3.0	1689	6.1	1564	3.0	1596
6.1	1587	9.1	1482	6.1	1510
15.2	1401	12.1	1329	9.1	1278
18.2	1317	15.2	1259	21.2	1210
24.2	1237	36.4	1192	33.3	1144
39.4	1163	39.4	1129	36.4	1083
45.5	1093	42.4	1070	48.5	1024
57.6	1027	54.5	1013	54.5	969
63.6	852	63.6	861	57.6	917
72.7	800	66.7	815	63.6	821
78.8	752	72.7	772	69.7	776
87.9	707	84.8	731	84.8	695
90.9	664	87.9	693	90.9	657
93.9	624	90.9	621	93.9	622
100.0	586	100.0	588	100.0	588
WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	1585	0.0	1562	0.0	1562
6.1	1428	6.1	1485	3.0	1483
9.1	1221	9.1	1279	6.1	1409
24.2	1159	12.1	1216	9.1	1338
27.3	1100	21.2	1157	12.1	1271
36.4	1044	27.3	1101	18.2	1207
39.4	991	30.3	1047	24.2	1147
54.5	941	39.4	996	30.3	1089
57.6	805	42.4	948	33.3	1035
69.7	764	45.5	901	42.4	933
78.8	725	57.6	857	45.5	887
84.8	688	60.6	816	57.6	842
87.9	653	63.6	738	63.6	760
93.9	620	69.7	702	66.7	722
100.0	588	81.8	668	75.8	685
		87.9	635	84.8	651
		100.0	604	90.9	618
				100.0	587

TABLE 11 (Continued)

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	1562	0.0	1562	0.0	1619
6.1	1392	6.1	1392	6.1	1338
12.1	1314	9.1	1314	9.1	1256
18.2	1241	18.2	1241	21.2	1179
24.2	1171	24.2	1171	27.3	1107
30.3	1044	33.3	1044	36.4	1039
33.3	986	36.4	986	39.4	975
39.4	931	42.4	931	45.5	915
51.5	878	54.5	878	48.5	859
60.6	829	60.6	829	54.5	806
63.6	739	63.6	739	66.7	757
72.7	698	72.7	698	69.7	710
84.8	659	84.8	659	75.8	667
90.9	622	90.9	622	84.8	626
97.0	554	97.0	554	90.9	551
100.0	523	100.0	523	93.9	517
				100.0	486
WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	1619	0.0	1785	0.0	1909
3.0	1519	3.0	1601	9.1	1802
6.1	1338	6.1	1436	12.1	1702
12.1	1256	15.2	1361	18.2	1607
21.2	1179	21.2	1289	24.2	1517
30.3	1107	27.3	1221	27.3	1432
42.4	975	39.4	1156	42.4	1352
48.5	915	45.5	1095	51.5	1277
51.5	859	51.5	982	57.6	1205
60.6	806	57.6	930	63.6	1014
66.7	757	60.6	881	66.7	958
69.7	710	72.7	835	78.8	904
81.8	667	81.8	791	81.8	854
87.9	626	87.9	749	87.9	806
93.9	517	90.9	709	90.9	718
100.0	486	93.9	672	93.9	678
		100.0	636	100.0	640

TABLE 11 (Continued)

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10017	0.0	17584	0.0	17852
3.0	6286	3.0	14610	15.2	15052
6.1	5381	12.1	12139	33.3	12691
15.2	4607	18.2	10086	54.5	10701
18.2	3944	30.3	8381	69.7	9023
27.3	3377	33.3	6963	81.8	7608
36.4	2891	42.4	5786	84.8	5409
45.5	2475	51.5	4807	87.9	4560
63.6	2119	63.6	3994	90.9	2305
66.7	1814	72.7	3319	93.9	1639
81.8	1553	81.8	2758	97.0	828
84.8	1330	87.9	2291	100.0	698
90.9	1138	90.9	1582		
93.9	974	93.9	1314		
97.0	611	97.0	626		
100.0	523	100.0	520		
WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	27088	0.0	31998	0.0	66820
9.1	23299	3.0	29435	3.0	38348
18.2	20040	12.1	27078	6.1	31868
33.3	17236	18.2	24910	15.2	29050
54.5	14825	27.3	22915	24.2	26482
60.6	12751	30.3	21080	36.4	24141
75.8	10968	36.4	19392	45.5	22007
87.9	8114	45.5	17839	57.6	20062
90.9	3819	60.6	16410	69.7	18289
97.0	1798	72.7	15096	78.8	16672
100.0	1546	78.8	13887	84.8	15198
		84.8	12775	90.9	13855
		87.9	11752	93.9	12630
		93.9	10811	100.0	11513
		97.0	7122		
		100.0	6551		

TABLE 11 (Continued)

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	49514	0.0	42338	0.0	33373
3.0	46007	3.0	39594	3.0	30373
6.1	42748	6.1	32384	6.1	28976
9.1	39721	21.2	30285	15.2	27642
12.1	36908	30.3	26486	21.2	26371
18.2	31865	39.4	24770	24.2	25157
21.2	29608	48.5	23164	27.3	24000
36.4	27511	51.5	21663	42.4	22895
39.4	25563	57.6	20259	48.5	21842
48.5	23752	63.6	18946	51.5	20837
51.5	22070	72.7	17718	72.7	19878
57.6	20507	81.8	16569	78.8	18964
72.7	19055	87.9	13552	81.8	17259
81.8	16451	93.9	12674	90.9	14985
84.8	15286	100.0	11852	93.9	14295
93.9	13197			100.0	13637
100.0	12263				
WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	29690	0.0	33294	0.0	32549
3.0	27226	6.1	26725	6.1	28397
6.1	26072	12.1	25576	12.1	27134
12.1	24967	21.2	24476	15.2	25927
21.2	23909	24.2	23424	18.2	24774
27.3	22895	33.3	22416	27.3	22620
39.4	21925	42.4	21452	39.4	21614
45.5	20105	51.5	19647	51.5	20653
60.6	19253	57.6	18802	57.6	19734
72.7	18437	69.7	17994	63.6	18857
75.8	17656	75.8	17220	72.7	17217
84.8	16907	87.9	15771	81.8	16451
87.9	15504	93.9	15093	90.9	15720
90.9	14847	100.0	14444	93.9	15021
93.9	14218			97.0	14353
97.0	13615			100.0	13714
100.0	13038				

TABLE 11 (Continued)

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	29036	0.0	32862	0.0	38984
9.1	26925	6.1	31117	3.0	30520
15.2	25928	9.1	29465	6.1	27005
18.2	24967	12.1	27901	9.1	25402
21.2	24042	15.2	25017	12.1	23894
27.3	23152	24.2	23689	21.2	22476
33.3	22294	30.3	22431	24.2	21142
39.4	21468	42.4	21240	39.4	19887
42.4	20673	60.6	20113	60.6	18706
48.5	19170	63.6	19045	69.7	16551
51.5	18460	75.8	18034	84.8	15569
63.6	17776	84.8	17077	87.9	14645
75.8	17118	90.9	16170	97.0	12958
78.8	16484	93.9	15311	100.0	12189
84.8	15873	97.0	12310		
87.9	15285	100.0	11656		
97.0	14719				
100.0	14174				
WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	44253	0.0	34155	0.0	34180
3.0	39942	3.0	30909	6.1	25060
6.1	36051	6.1	25312	9.1	22597
9.1	26507	12.1	22907	18.2	20376
12.1	21594	18.2	20729	24.2	18373
33.3	19490	27.3	18759	39.4	16567
51.5	17592	45.5	16976	42.4	14939
60.6	15878	60.6	15362	57.6	13471
81.8	14331	75.8	13902	63.6	12147
90.9	12935	81.8	12581	84.8	10953
97.0	6993	90.9	11385	90.9	9876
100.0	6312	97.0	5659	93.9	8906
		100.0	5121	97.0	5309
				100.0	4787

TABLE 11 (Continued)

FLOW DURATION DATA AT WATANA DAMSITE  
FOR NATURAL CONDITIONS

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	24556	0.0	22593
6.1	22641	3.0	17566
9.1	19247	6.1	16153
18.2	16363	21.2	14854
27.3	15087	27.3	13659
39.4	13910	33.3	12560
45.5	11825	48.5	11549
57.6	10903	51.5	10620
60.6	10053	57.6	9766
75.8	9269	72.7	8980
87.9	8546	75.8	8257
90.9	6699	81.8	7593
97.0	5695	90.9	6982
100.0	5251	93.9	5429
		97.0	4992
		100.0	4590

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	21031	0.0	20967	18346
3.0	16141	3.0	17506	15318
24.2	12388	6.1	15995	13996
30.3	11342	9.1	14616	12789
39.4	10384	15.2	13355	11686
54.5	9507	21.2	12203	10678
66.7	8705	39.4	11150	9756
72.7	7970	45.5	10189	8915
78.8	7297	54.5	9310	8146
81.8	6681	66.7	8506	7443
87.9	6117	69.7	7773	6801
90.9	5600	72.7	7102	6214
97.0	4298	75.8	6489	5678
100.0	3935	84.8	5929	5188
		87.9	5418	4741
		93.9	4951	4332
		97.0	4134	3617
		100.0	3777	3305

1/ The values in this column represent the total flow between Sep. 23 and 30, divided by 7.

2/ The flows in this column represent the mean flow for the 8-day period, Sep. 23 to 30.

**TABLE 12**

TABLE 12

## FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	15101.	0.0	10400.	0.0	8365.
2.9	13108.	5.9	9330.	2.9	7913.
8.8	11378.	17.6	8836.	5.9	7486.
14.7	10601.	26.5	8369.	17.6	7081.
26.5	9877.	29.4	7508.	20.6	6698.
32.3	9202.	41.2	7111.	26.5	6336.
41.2	8573.	47.1	6735.	35.3	5670.
44.1	7987.	50.0	6379.	38.2	5364.
55.9	7442.	58.8	6041.	41.2	5074.
67.6	6933.	64.7	5722.	52.9	4800.
73.5	6018.	70.6	5420.	61.8	4540.
79.4	5607.	76.5	4862.	70.6	4295.
88.2	5224.	82.3	4605.	79.4	4063.
91.2	4867.	94.1	4131.	82.3	3843.
97.1	4225.	97.1	3912.	85.3	3636.
100.0	3936.	100.0	3705.	88.2	3439.
				91.2	3253.
				97.1	3077.
				100.0	2911.
WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	8590.	0.0	5434.	0.0	4526.
2.9	7943.	2.9	5073.	8.8	4252.
5.9	6280.	8.8	4736.	11.8	3995.
11.8	5808.	17.6	4126.	20.6	3314.
14.7	5370.	20.6	3852.	35.3	3113.
23.5	4966.	32.3	3596.	44.1	2925.
38.2	4592.	50.0	3357.	52.9	2749.
50.0	4246.	52.9	3133.	64.7	2582.
55.9	3927.	67.6	2925.	73.5	2280.
67.6	3631.	76.5	2549.	79.4	2142.
76.5	3357.	85.3	1935.	82.3	2013.
82.3	3105.	88.2	1807.	85.3	1777.
85.3	2455.	97.1	1574.	88.2	1669.
94.1	2270.	100.0	1470.	94.1	1474.
97.1	2099.			100.0	1385.
100.0	1941.				

TABLE 12 (Continued)

## FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	4934.	0.0	3533.	0.0	3590.
2.9	3908.	5.9	3305.	5.9	3344.
8.8	3616.	20.6	3093.	8.8	3116.
14.7	3346.	29.4	2894.	11.8	2903.
17.6	3096.	32.3	2708.	29.4	2704.
29.4	2865.	41.2	2534.	38.2	2519.
44.1	2650.	52.9	2371.	47.1	2187.
52.9	2452.	55.9	2218.	52.9	2037.
64.7	2269.	58.8	2076.	58.8	1898.
73.5	2100.	67.6	1942.	67.6	1768.
76.5	1943.	73.5	1700.	76.5	1647.
82.3	1797.	85.3	1489.	82.3	1535.
85.3	1663.	88.2	1393.	85.3	1332.
88.2	1539.	94.1	1303.	91.2	1241.
94.1	1317.	97.1	1068.	94.1	1156.
97.1	1219.	100.0	999.	97.1	1004.
100.0	1128.			100.0	935.
WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	4318.	0.0	3684.	0.0	2747.
2.9	3103.	2.9	2926.	2.9	2582.
5.9	2857.	5.9	2709.	8.8	2427.
14.7	2631.	11.8	2509.	17.6	2282.
23.5	2422.	26.5	2324.	29.4	2145.
32.3	2230.	35.3	2152.	32.3	2017.
44.1	2054.	44.1	1993.	50.0	1782.
52.9	1741.	47.1	1845.	55.9	1676.
64.7	1603.	52.9	1709.	61.8	1575.
76.5	1476.	67.6	1583.	70.6	1481.
79.4	1359.	73.5	1466.	73.5	1392.
82.3	1152.	76.5	1357.	76.5	1309.
94.1	977.	79.4	1257.	82.3	1157.
100.0	899.	85.3	1164.	88.2	1087.
		91.2	1078.	91.2	1022.
		94.1	924.	94.1	903.
		100.0	856.	100.0	849.

TABLE 12 (Continued)

## FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	2503.	0.0	2774.	0.0	2402.
11.8	2358.	2.9	2593.	8.8	2260.
17.6	2221.	5.9	2424.	14.7	2125.
23.5	2093.	14.7	2266.	26.5	1999.
35.3	1972.	17.6	2118.	32.3	1880.
50.0	1750.	26.5	1980.	38.2	1768.
52.9	1649.	35.3	1851.	41.2	1663.
58.8	1553.	38.2	1730.	47.1	1564.
70.6	1463.	47.1	1617.	58.8	1471.
73.5	1379.	55.9	1512.	64.7	1301.
79.4	1153.	64.7	1413.	67.6	1224.
88.2	1023.	67.6	1235.	70.6	1151.
91.2	964.	73.5	1154.	76.5	1018.
94.1	856.	76.5	1079.	91.2	901.
100.0	806.	82.3	1009.	97.1	797.
		91.2	943.	100.0	749.
		94.1	881.		
		100.0	770.		
WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	2473.	0.0	2503.	0.0	2331.
5.9	2314.	2.9	2340.	11.8	2054.
11.8	2165.	11.8	2046.	14.7	1928.
14.7	2026.	20.6	1913.	17.6	1809.
23.5	1896.	23.5	1789.	26.5	1698.
32.3	1774.	35.3	1673.	35.3	1594.
41.2	1660.	47.1	1565.	44.1	1496.
47.1	1553.	52.9	1463.	50.0	1404.
52.9	1453.	61.8	1368.	58.8	1318.
64.7	1360.	64.7	1279.	61.8	1237.
67.6	1272.	70.6	1119.	67.6	1161.
70.6	1114.	76.5	1046.	73.5	1023.
73.5	1042.	82.3	978.	82.3	960.
82.3	975.	91.2	855.	88.2	901.
91.2	912.	97.1	748.	91.2	846.
94.1	854.	100.0	699.	97.1	745.
97.1	747.			100.0	699.
100.0	699.				

TABLE 12 (Continued)

## FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	2416.	0.0	2045.	0.0	2088.
5.9	2121.	8.8	1931.	5.9	1960.
8.8	1987.	11.8	1823.	8.8	1727.
14.7	1861.	17.6	1721.	14.7	1622.
17.6	1744.	20.6	1625.	20.6	1522.
20.6	1633.	23.5	1534.	32.3	1429.
23.5	1530.	41.2	1448.	44.1	1342.
44.1	1434.	47.1	1367.	50.0	1259.
52.9	1343.	58.8	1218.	61.8	1042.
58.8	1258.	61.8	1025.	70.6	978.
61.8	1104.	76.5	968.	79.4	862.
64.7	1034.	79.4	863.	88.2	760.
79.4	969.	88.2	814.	97.1	669.
82.3	908.	91.2	769.	100.0	628.
85.3	851.	94.1	726.		
97.1	746.	100.0	685.		
100.0	699.				
WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	1959.	0.0	1902.	0.0	1902.
8.8	1669.	8.8	1628.	5.9	1703.
14.7	1582.	11.8	1546.	11.8	1611.
20.6	1499.	20.6	1468.	17.6	1525.
23.5	1421.	29.4	1323.	20.6	1443.
35.3	1347.	35.3	1256.	29.4	1365.
44.1	1277.	47.1	1133.	32.3	1292.
47.1	1211.	52.9	1021.	35.3	1222.
52.9	1148.	61.8	969.	47.1	1156.
61.8	1031.	67.6	920.	52.9	1035.
64.7	978.	76.5	830.	61.8	980.
73.5	927.	79.4	788.	67.6	927.
76.5	878.	94.1	748.	76.5	830.
82.3	833.	100.0	710.	82.3	785.
85.3	789.			88.2	743.
97.1	748.			97.1	703.
100.0	709.			100.0	665.

TABLE 12 (Continued)

## FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	2102.	0.0	2102.	0.0	2503.
2.9	1978.	2.9	1978.	2.9	1919.
5.9	1861.	5.9	1861.	5.9	1789.
8.8	1647.	8.8	1750.	14.7	1673.
17.6	1549.	11.8	1647.	20.6	1565.
20.6	1458.	14.7	1549.	29.4	1463.
29.4	1371.	23.5	1458.	35.3	1279.
32.3	1214.	32.3	1371.	47.1	1196.
44.1	1142.	35.3	1214.	50.0	1119.
52.9	1011.	44.1	1142.	55.9	1046.
61.8	951.	52.9	1011.	61.8	978.
73.5	895.	61.8	951.	76.5	915.
79.4	842.	73.5	895.	82.3	855.
85.3	792.	79.4	842.	88.2	800.
88.2	745.	88.2	792.	94.1	748.
94.1	701.	91.2	745.	100.0	699.
100.0	659.	94.1	701.		
		100.0	659.		

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	2503.	0.0	2760.	0.0	2803.
2.9	1919.	2.9	1972.	5.9	2620.
5.9	1796.	11.8	1844.	8.8	2449.
14.7	1681.	14.7	1724.	14.7	2290.
20.6	1573.	29.4	1612.	17.6	2141.
29.4	1472.	35.3	1507.	26.5	2001.
35.3	1377.	58.8	1409.	32.3	1871.
38.2	1289.	61.8	1232.	41.2	1749.
41.2	1206.	70.6	1151.	52.9	1635.
52.9	1129.	76.5	1077.	58.8	1528.
58.8	1056.	79.4	1007.	64.7	1429.
70.6	988.	85.3	941.	67.6	1336.
82.3	925.	88.2	880.	73.5	1249.
88.2	866.	97.1	823.	82.3	1091.
91.2	810.	100.0	769.	85.3	1020.
94.1	758.			88.2	954.
100.0	709.			94.1	834.
				100.0	779.

TABLE 12 (Continued)

## FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	14143.	0.0	20420.	0.0	22022.
2.9	7854.	5.9	17460.	23.5	19048.
5.9	6780.	11.8	14929.	29.4	16476.
14.7	5853.	14.7	12765.	47.1	14251.
17.6	5052.	29.4	10915.	61.8	12326.
23.5	4361.	32.3	9333.	76.5	10661.
29.4	3765.	38.2	7980.	82.3	9222.
50.0	3250.	47.1	6823.	85.3	7976.
58.8	2806.	52.9	5834.	88.2	5967.
70.6	2422.	61.8	4988.	91.2	2889.
76.5	2091.	76.5	4265.	94.1	2161.
85.3	1805.	79.4	3647.	97.1	1617.
88.2	1558.	85.3	3118.	100.0	1399.
94.1	1345.	91.2	1949.		
97.1	1002.	94.1	1667.		
100.0	865.	97.1	1219.		
		100.0	1042.		

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	33877.	0.0	44287.	0.0	75104.
8.8	29868.	2.9	37317.	2.9	51736.
20.6	26334.	5.9	34255.	5.9	39119.
23.5	23218.	11.8	31444.	11.8	35639.
41.2	20471.	26.5	28864.	20.6	32468.
52.9	18049.	35.3	24322.	26.5	29579.
61.8	15913.	47.1	22326.	41.2	26947.
70.6	14030.	67.6	20494.	61.8	24550.
85.3	12370.	73.5	18812.	67.6	22366.
88.2	9616.	82.3	17269.	70.6	20376.
91.2	5123.	88.2	15852.	85.3	18563.
94.1	4517.	91.2	13357.	91.2	15407.
97.1	3511.	94.1	12261.	97.1	14036.
100.0	3096.	97.1	9483.	100.0	12787.
		100.0	8705.		

TABLE 12 (Continued)

## FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	58802.	0.0	50279.	0.0	39626.
2.9	54698.	2.9	43790.	2.9	36068.
5.9	47328.	5.9	40867.	5.9	34411.
11.8	44025.	8.8	38139.	17.6	32830.
17.6	38093.	26.5	35593.	20.6	31321.
20.6	35434.	29.4	33217.	26.5	29882.
38.2	32961.	35.3	30999.	32.3	28509.
41.2	30660.	41.2	28930.	41.2	27199.
44.1	28520.	50.0	26998.	50.0	25950.
52.9	26530.	55.9	25196.	61.8	24757.
58.8	24678.	61.8	23514.	70.6	23620.
67.6	22955.	73.5	21944.	73.5	22535.
73.5	21353.	79.4	19112.	76.5	21499.
76.5	19863.	88.2	16646.	79.4	20511.
82.3	17187.	91.2	15534.	85.3	19569.
97.1	15987.	97.1	14497.	91.2	16994.
100.0	14871.	100.0	13529.	100.0	16213.
WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	34220.	0.0	42128.	0.0	41184.
2.9	32637.	5.9	33170.	2.9	39081.
8.8	31128.	11.8	31621.	5.9	35192.
11.8	29688.	14.7	30145.	8.8	33395.
17.6	28315.	17.6	28737.	14.7	30071.
26.5	27005.	20.6	27395.	20.6	28536.
32.3	25756.	29.4	26116.	29.4	27079.
44.1	24564.	41.2	24897.	32.3	25696.
50.0	23428.	52.9	22626.	47.1	24384.
58.8	22344.	58.8	21570.	55.9	23139.
70.6	21311.	76.5	20563.	70.6	21957.
76.5	20325.	82.3	19603.	73.5	20836.
85.3	19385.	88.2	18687.	76.5	19772.
91.2	18488.	91.2	17815.	85.3	18762.
94.1	17633.	100.0	16983.	97.1	16032.
97.1	14590.			100.0	15214.
100.0	13915.				

TABLE 12 (Continued)

## FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	36737.	0.0	38725.	0.0	44788.
2.9	35061.	8.8	34624.	2.9	37388.
5.9	33461.	11.8	32740.	5.9	29388.
11.8	31935.	20.6	29273.	11.8	27671.
14.7	30478.	26.5	27680.	17.6	26055.
17.6	27760.	35.3	26174.	35.3	24533.
29.4	26494.	47.1	24749.	44.1	23100.
41.2	25285.	58.8	23402.	55.9	21750.
50.0	21980.	70.6	22128.	70.6	20480.
67.6	20977.	82.3	20924.	79.4	19283.
73.5	20020.	88.2	19785.	91.2	18157.
76.5	19106.	91.2	18709.	94.1	17096.
91.2	17403.	94.1	17690.	97.1	15157.
94.1	16609.	97.1	14142.	100.0	14272.
97.1	15851.	100.0	13373.		
100.0	15128.				
WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	54926.	0.0	44215.	0.0	43214.
2.9	49423.	2.9	39801.	2.9	38803.
5.9	40017.	5.9	32252.	5.9	28093.
8.8	32401.	8.8	26134.	11.8	25225.
11.8	26234.	17.6	23525.	23.5	22650.
23.5	23606.	35.3	21177.	35.3	20338.
41.2	21241.	58.8	19063.	44.1	18262.
64.7	19113.	67.6	17160.	52.9	16398.
82.3	17199.	82.3	15447.	58.8	14724.
91.2	15476.	91.2	13905.	79.4	13221.
97.1	8215.	97.1	6660.	85.3	11872.
100.0	7392.	100.0	5995.	97.1	6223.
				100.0	5587.

TABLE 12 (Continued)

FLOW DURATION DATA AT GOLD CREEK FOR NATURAL CONDITIONS

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	30087.	0.0	28972.
8.8	25520.	2.9	24326.
11.8	23503.	5.9	22290.
14.7	19935.	11.8	20424.
29.4	18360.	14.7	18715.
35.3	16909.	23.5	17149.
47.1	15573.	29.4	15714.
50.0	14342.	47.1	14399.
52.9	13209.	55.9	13194.
64.7	12165.	64.7	12090.
79.4	11204.	70.6	11078.
85.3	9503.	73.5	10151.
91.2	8752.	82.3	9301.
94.1	8061.	91.2	8523.
97.1	6837.	94.1	6557.
100.0	6297.	97.1	6008.
		100.0	5505.

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	26584.	0.0	25068.	21935.
2.9	22162.	2.9	22910.	20046.
8.8	20235.	5.9	19135.	16743.
23.5	15403.	14.7	17487.	15301.
29.4	14064.	20.6	15982.	13984.
41.2	12841.	26.5	14606.	12780.
55.9	11724.	38.2	13348.	11680.
67.6	10705.	44.1	12199.	10674.
70.6	9774.	52.9	11149.	9755.
79.4	8148.	67.6	10189.	8915.
85.3	7440.	70.6	9312.	8148.
91.2	6793.	73.5	7777.	6805.
97.1	5171.	82.3	7108.	6220.
100.0	4721.	88.2	6496.	5684.
		97.1	4958.	4338.
		100.0	4531.	3965.

<sup>1/</sup> The values in this column represent the total flow between Sept. 23 and 30, divided by 7.

<sup>2/</sup> The flows in this column represent the mean flow for the 8 day period, Sept. 23 to 30.

**TABLE 13**

TABLE 13

## FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	33220.	0.0	27840.	0.0	18397.
2.9	31391.	2.9	24746.	2.9	17444.
5.9	28030.	5.9	23331.	5.9	16540.
8.8	26486.	11.8	20739.	14.7	15683.
17.6	23650.	17.6	19553.	20.6	14870.
23.5	22348.	32.3	17380.	32.3	14099.
32.3	21118.	41.2	16386.	38.2	13369.
44.1	19955.	47.1	15449.	41.2	12676.
47.1	18856.	55.9	14565.	44.1	12019.
55.9	17818.	58.8	13732.	52.9	11396.
70.6	16837.	76.5	12947.	67.6	10805.
73.5	15910.	88.2	12206.	76.5	10245.
82.3	15034.	91.2	11508.	88.2	9714.
85.3	14206.	94.1	10230.	91.2	7852.
88.2	13424.	97.1	9644.	97.1	7059.
91.2	12685.	100.0	9093.	100.0	6693.
94.1	11987.				
100.0	11327.				
WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	18590.	0.0	10804.	0.0	10345.
2.9	14551.	11.8	10360.	2.9	9869.
5.9	13687.	17.6	9934.	8.8	9415.
11.8	12874.	23.5	9525.	11.8	8982.
14.7	12110.	29.4	9134.	14.7	8569.
20.6	11390.	32.3	8758.	26.5	7799.
38.2	10714.	41.2	8398.	32.3	7440.
44.1	10078.	50.0	8053.	44.1	7098.
58.8	9479.	58.8	7722.	61.8	6771.
70.6	8916.	64.7	7405.	64.7	5879.
73.5	8387.	67.6	7100.	73.5	5350.
79.4	7889.	73.5	6528.	76.5	5104.
82.3	7420.	76.5	6260.	79.4	4869.
85.3	6979.	79.4	6003.	85.3	4645.
91.2	6565.	82.3	5756.	91.2	4432.
97.1	6175.	85.3	5519.	100.0	4228.
100.0	5808.	88.2	5292.		
		94.1	5075.		

TABLE 13 (Continued)

## FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10200.	0.0	7844.	0.0	7676.
2.9	8706.	2.9	7503.	2.9	7316.
5.9	8258.	11.8	7177.	5.9	6973.
8.8	7833.	14.7	6865.	14.7	6335.
14.7	7430.	17.6	6566.	20.6	6038.
23.5	7048.	26.5	6281.	32.3	5755.
32.3	6686.	35.3	6008.	47.1	5486.
47.1	6342.	50.0	5497.	50.0	5228.
50.0	6016.	55.9	5258.	52.9	4983.
61.8	5706.	64.7	5030.	61.8	4750.
67.6	5413.	67.6	4811.	64.7	4527.
73.5	5134.	76.5	4402.	67.6	4315.
79.4	4620.	79.4	4211.	79.4	4113.
82.3	4382.	85.3	4028.	82.3	3920.
88.2	4157.	88.2	3852.	91.2	3561.
91.2	3943.	94.1	3685.	94.1	3236.
100.0	3740.	97.1	3525.	100.0	3084.
		100.0	3372.		
WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	8155.	0.0	7119.	0.0	5828.
2.9	6531.	2.9	6114.	2.9	5583.
8.8	6179.	8.8	5811.	11.8	5349.
11.8	5845.	11.8	5524.	17.6	4910.
17.6	5529.	17.6	5250.	35.3	4704.
29.4	5231.	26.5	4990.	44.1	4507.
35.3	4948.	41.2	4744.	52.9	4318.
55.9	4681.	52.9	4509.	58.8	4137.
58.8	4189.	55.9	4286.	64.7	3963.
67.6	3963.	58.8	4074.	76.5	3797.
76.5	3749.	73.5	3872.	79.4	3638.
82.3	3546.	76.5	3680.	82.3	3199.
88.2	3355.	79.4	3498.	85.3	3065.
91.2	3174.	85.3	3325.	91.2	2937.
94.1	3002.	88.2	3161.	97.1	2695.
100.0	2840.	94.1	2856.	100.0	2582.
		100.0	2714.		

TABLE 13 (Continued)

## FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	5735.	0.0	6521.	0.0	5448.
2.9	5486.	2.9	5256.	2.9	4974.
8.8	5248.	8.8	4981.	5.9	4753.
11.8	5021.	11.8	4719.	8.8	4541.
23.5	4803.	20.6	4472.	23.5	4339.
32.3	4595.	32.3	4237.	35.3	4146.
44.1	4396.	44.1	4015.	47.1	3785.
50.0	4205.	55.9	3804.	58.8	3617.
61.8	4023.	58.8	3605.	61.8	3456.
67.6	3848.	67.6	3416.	70.6	3302.
73.5	3682.	76.5	3237.	73.5	3155.
79.4	3369.	82.3	3067.	82.3	3014.
82.3	3083.	88.2	2906.	85.3	2880.
88.2	2950.	91.2	2754.	91.2	2752.
94.1	2822.	97.1	2472.	97.1	2401.
97.1	2582.	100.0	2343.	100.0	2294.
100.0	2471.				
WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	5029.	0.0	5077.	0.0	4626.
5.9	4605.	2.9	4854.	8.8	4263.
11.8	4407.	8.8	4436.	11.8	4092.
17.6	4217.	14.7	4241.	20.6	3771.
26.5	4036.	23.5	4054.	32.3	3620.
38.2	3862.	32.3	3876.	41.2	3475.
50.0	3537.	44.1	3705.	55.9	3336.
64.7	3385.	50.0	3542.	67.6	3202.
76.5	3099.	61.8	3386.	70.6	2951.
79.4	2966.	67.6	3237.	73.5	2833.
82.3	2838.	73.5	2958.	76.5	2719.
85.3	2716.	79.4	2828.	88.2	2610.
91.2	2599.	85.3	2704.	94.1	2506.
97.1	2278.	88.2	2585.	97.1	2217.
100.0	2180.	97.1	2258.	100.0	2128.
		100.0	2159.		

TABLE 13 (Continued)

## FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	4604.	0.0	4948.	0.0	4791.
5.9	4063.	2.9	4085.	2.9	4126.
11.8	3897.	8.8	3894.	5.9	3734.
14.7	3738.	11.8	3712.	14.7	3553.
23.5	3585.	14.7	3538.	20.6	3380.
29.4	3439.	23.5	3373.	35.3	3216.
44.1	3299.	38.2	3215.	41.2	3060.
52.9	3164.	50.0	3064.	55.9	2911.
58.8	3035.	64.7	2921.	67.6	2770.
67.6	2792.	67.6	2784.	70.6	2635.
70.6	2678.	76.5	2530.	76.5	2507.
79.4	2569.	88.2	2412.	82.3	2385.
91.2	2464.	94.1	2089.	91.2	2269.
94.1	2364.	100.0	1991.	94.1	2159.
97.1	2175.			97.1	1954.
100.0	2086.			100.0	1859.

WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	4190.	0.0	3980.	0.0	3944.
2.9	4013.	5.9	3644.	2.9	3574.
5.9	3682.	8.8	3487.	14.7	3402.
8.8	3526.	14.7	3337.	17.6	3238.
17.6	3377.	23.5	3193.	29.4	3083.
26.5	3235.	29.4	3055.	35.3	2934.
32.3	3098.	35.3	2923.	47.1	2793.
41.2	2967.	50.0	2797.	52.9	2659.
55.9	2842.	55.9	2676.	64.7	2531.
58.8	2722.	61.8	2561.	67.6	2410.
64.7	2607.	64.7	2451.	79.4	2294.
70.6	2497.	79.4	2345.	85.3	2183.
79.4	2392.	85.3	2244.	91.2	2078.
85.3	2291.	88.2	2147.	97.1	1625.
88.2	2194.	94.1	2054.	100.0	1546.
94.1	2101.	97.1	1800.		
97.1	1928.	100.0	1722.		
100.0	1846.				

TABLE 13 (Continued)

## FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	4005.	0.0	3904.	0.0	4728.
5.9	3487.	5.9	3483.	2.9	4094.
8.8	3330.	11.8	3229.	5.9	3545.
17.6	3180.	26.5	3108.	11.8	3378.
29.4	3036.	32.3	2992.	29.4	3220.
32.3	2899.	41.2	2881.	38.2	3069.
47.1	2769.	47.1	2774.	47.1	2925.
52.9	2644.	55.9	2670.	52.9	2658.
61.8	2524.	58.8	2571.	55.9	2533.
73.5	2411.	67.6	2475.	73.5	2414.
76.5	2198.	73.5	2383.	76.5	2301.
88.2	2099.	76.5	2294.	85.3	2193.
94.1	1914.	79.4	2208.	91.2	2090.
97.1	1745.	88.2	2126.	97.1	1992.
100.0	1666.	91.2	2047.	100.0	1899.
		94.1	1971.		
		100.0	1897.		
WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	4860.	0.0	5256.	0.0	6233.
2.9	4006.	2.9	4532.	2.9	5876.
5.9	3465.	5.9	4313.	11.8	5538.
23.5	3301.	8.8	3907.	17.6	5221.
35.3	3146.	26.5	3718.	29.4	4921.
41.2	2997.	38.2	3539.	35.3	4639.
50.0	2856.	47.1	3368.	38.2	4121.
55.9	2721.	52.9	3205.	47.1	3885.
58.8	2593.	61.8	3051.	50.0	3662.
76.5	2470.	73.5	2764.	58.8	3452.
88.2	2243.	76.5	2630.	64.7	3254.
94.1	2036.	88.2	2503.	73.5	3067.
100.0	1940.	94.1	2158.	82.3	2891.
		100.0	2054.	91.2	2569.
				94.1	2421.
				97.1	2151.
				100.0	2028.

TABLE 13 (Continued)

FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	23843.	0.0	40755.	0.0	45489.
2.9	15551.	2.9	36036.	8.8	40607.
5.9	12559.	8.8	31864.	17.6	36248.
17.6	11287.	17.6	24913.	26.5	32357.
20.6	10143.	23.5	22028.	52.9	28884.
26.5	9115.	29.4	19478.	64.7	23016.
32.3	8192.	35.3	17223.	76.5	20546.
41.2	7362.	47.1	13466.	82.3	18340.
52.9	6616.	64.7	10528.	85.3	14614.
58.8	5946.	76.5	9309.	88.2	11645.
67.6	5343.	82.3	8231.	91.2	9280.
82.3	4802.	88.2	7278.	94.1	8284.
88.2	4315.	91.2	5691.	97.1	5892.
94.1	3878.	97.1	4449.	100.0	5260.
97.1	3485.	100.0	3934.		
100.0	3132.				
WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	71234.	0.0	77794.	0.0	159551.
2.9	64487.	5.9	73102.	2.9	101187.
8.8	58380.	8.8	68692.	5.9	92378.
14.7	52850.	11.8	64549.	8.8	76994.
23.5	47845.	26.5	60656.	20.6	70291.
29.4	43313.	41.2	56997.	32.3	64172.
35.3	39211.	44.1	53559.	38.2	58586.
52.9	35497.	47.1	50329.	52.9	53486.
70.6	32135.	52.9	47293.	70.6	48830.
76.5	29091.	61.8	44441.	76.5	44579.
79.4	23841.	67.6	41760.	79.4	40698.
88.2	21583.	70.6	39241.	91.2	37155.
91.2	14496.	79.4	36875.	97.1	30968.
97.1	11880.	85.3	34650.	100.0	28272.
100.0	10755.	88.2	32560.		
		91.2	27017.		
		94.1	25387.		
		100.0	23856.		

TABLE 13 (Continued)

## FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	121442.	0.0	108645.	0.0	105830.
2.9	114165.	2.9	97626.	2.9	93013.
5.9	107325.	5.9	92543.	8.8	85342.
8.8	94849.	11.8	87725.	11.8	78304.
20.6	78801.	14.7	83157.	20.6	75006.
29.4	74079.	17.6	78828.	23.5	71847.
41.2	69641.	23.5	74724.	29.4	68820.
47.1	65468.	32.3	70833.	41.2	65922.
50.0	61545.	41.2	67145.	52.9	63145.
52.9	57858.	50.0	63649.	64.7	60485.
61.8	54391.	52.9	60335.	73.5	57938.
76.5	51132.	61.8	57194.	79.4	55497.
79.4	48068.	70.6	54216.	85.3	50921.
82.3	45188.	76.5	51393.	91.2	48776.
88.2	42481.	85.3	46181.	100.0	46721.
91.2	39935.	88.2	43776.		
100.0	37542.	94.1	41497.		
		100.0	39337.		
WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	79287.	0.0	115816.	0.0	97268.
2.9	76993.	2.9	95280.	11.8	77998.
5.9	74765.	5.9	82306.	23.5	74629.
11.8	70500.	11.8	78386.	29.4	71405.
17.6	68459.	17.6	74653.	38.2	68321.
23.5	66478.	32.3	71098.	44.1	65369.
29.4	64554.	35.3	67712.	61.8	62546.
44.1	62686.	44.1	64487.	67.6	59844.
50.0	60872.	47.1	61416.	76.5	57259.
58.8	59110.	64.7	58491.	79.4	54785.
64.7	57399.	76.5	55705.	82.3	52419.
76.5	55738.	88.2	53053.	91.2	47988.
79.4	54125.	94.1	50526.	97.1	43932.
85.3	52558.	97.1	48120.	100.0	42034.
91.2	49560.	100.0	45828.		
94.1	46733.				
100.0	45381.				

TABLE 13 (Continued)

## FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	90572.	0.0	94330.	0.0	111405.
5.9	86867.	5.9	89942.	2.9	84361.
8.8	79907.	8.8	77966.	5.9	79797.
11.8	76639.	20.6	74339.	8.8	75481.
17.6	73504.	32.3	70881.	11.8	71397.
29.4	70498.	35.3	67584.	20.6	67535.
38.2	67614.	44.1	64441.	29.4	63882.
41.2	64849.	50.0	61443.	47.1	60426.
52.9	62196.	73.5	58585.	55.9	57157.
61.8	59653.	85.3	55860.	70.6	54066.
70.6	57213.	88.2	53262.	85.3	51141.
76.5	52628.	91.2	48422.	94.1	48374.
85.3	50476.	94.1	46170.	97.1	40941.
91.2	48411.	97.1	40022.	100.0	38726.
94.1	46431.	100.0	38161.		
97.1	42711.				
100.0	40964.				
WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	134290.	0.0	111110.	0.0	87724.
2.9	109983.	2.9	90813.	2.9	67260.
5.9	90076.	5.9	82101.	5.9	61561.
11.8	81518.	8.8	74224.	11.8	56344.
14.7	73772.	14.7	67103.	26.5	51570.
17.6	66763.	20.6	60665.	35.3	47200.
32.3	60419.	35.3	54845.	50.0	43200.
41.2	54678.	55.9	49583.	64.7	39540.
67.6	49483.	70.6	44826.	73.5	36189.
82.3	44781.	85.3	40526.	88.2	33123.
94.1	40527.	94.1	36638.	97.1	17822.
97.1	22263.	97.1	18085.	100.0	16312.
100.0	20148.	100.0	16350.		

TABLE 13 (Continued)

FLOW DURATION DATA AT SUNSHINE FOR NATURAL CONDITIONS

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	60065.	0.0	56593.
8.8	56391.	5.0	52854.
11.8	52941.	11.8	49362.
17.6	49702.	14.7	46100.
20.6	46662.	23.5	43055.
32.3	43807.	32.3	40210.
35.3	38611.	38.2	37554.
47.1	36249.	41.2	35072.
61.8	34031.	58.8	32755.
73.5	31950.	67.6	30591.
79.4	29995.	73.5	28570.
82.3	28160.	76.5	26682.
88.2	26437.	82.3	24920.
91.2	24820.	88.2	23273.
94.1	23302.	94.1	20300.
97.1	19281.	97.1	16536.
100.0	18102.	100.0	15444.

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	76233.	0.0	79129.	69238.
2.9	52508.	2.9	48651.	42570.
8.8	43578.	8.8	44141.	38623.
17.6	39700.	11.8	40049.	35043.
20.6	36167.	23.5	36337.	31795.
35.3	32948.	32.3	32968.	28847.
47.1	30016.	38.2	29912.	26173.
55.9	27345.	47.1	27139.	23747.
67.6	24911.	64.7	24623.	21545.
76.5	22694.	79.4	22341.	19548.
91.2	18835.	85.3	18391.	16092.
97.1	14240.	91.2	15139.	13247.
100.0	12973.	94.1	13736.	12019.
		100.0	12463.	10905.

<sup>1/</sup> The values in this column represent the total flow between Sept. 23 and 30, divided by 7.

<sup>2/</sup> The flows in this column represent the mean flow for the 8 day period, Sept. 23 to 30.

**TABLE 14**

TABLE 14

## FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	67587.	0.0	83984.	0.0	55970.
11.8	58979.	2.9	69507.	11.8	44547.
17.6	55096.	5.9	57526.	14.7	41284.
23.5	51468.	8.8	52333.	17.6	38259.
26.5	48079.	17.6	47610.	20.6	35456.
35.3	44913.	26.5	43312.	29.4	32858.
47.1	41956.	35.3	39403.	50.0	30451.
50.0	39193.	50.0	35846.	70.6	24236.
52.9	36612.	64.7	32611.	82.3	22460.
55.9	34202.	73.5	29667.	91.2	19290.
58.8	31950.	82.3	26989.	94.1	17877.
76.5	29846.	88.2	24553.	97.1	14228.
85.3	27881.	91.2	22337.	100.0	13186.
88.2	26045.	94.1	15300.		
94.1	22728.	100.0	13919.		
97.1	19833.				
100.0	18527.				
WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	48305.	0.0	39253.	0.0	38868.
2.9	44520.	2.9	33509.	2.9	30185.
8.8	41030.	5.9	30960.	5.9	25502.
14.7	37815.	8.8	28604.	8.8	23441.
17.6	34851.	11.8	26429.	17.6	21547.
20.6	32120.	23.5	24418.	26.5	19805.
26.5	29602.	29.4	22561.	47.1	18204.
32.3	27282.	41.2	20845.	50.0	16733.
44.1	25144.	47.1	19259.	61.8	15381.
55.9	23174.	61.8	17794.	70.6	14137.
73.5	21357.	67.6	16440.	79.4	12995.
79.4	18141.	76.5	15190.	88.2	11944.
91.2	16719.	82.3	14034.	91.2	10979.
94.1	14201.	88.2	12967.	94.1	9276.
97.1	11117.	94.1	11980.	97.1	8526.
100.0	10246.	97.1	9449.	100.0	7837.
		100.0	8730.		

TABLE 14 (Continued)

FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	36966.	0.0	22308.	0.0	20191.
2.9	22904.	2.9	17798.	5.9	17898.
5.9	21148.	8.8	16821.	8.8	16851.
8.8	19526.	17.6	15024.	11.8	15865.
23.5	18029.	23.5	14199.	17.6	14937.
29.4	15370.	35.3	13420.	20.6	14063.
38.2	14192.	44.1	12683.	29.4	13240.
61.8	13103.	47.1	11986.	44.1	12465.
67.6	12099.	52.9	11328.	52.9	11736.
73.5	11171.	64.7	10706.	55.9	11050.
79.4	10314.	73.5	10118.	67.6	10403.
88.2	9523.	79.4	9563.	76.5	9221.
97.1	8793.	82.3	9038.	79.4	8682.
100.0	8119.	91.2	8073.	88.2	8174.
		100.0	7629.	94.1	7696.
				97.1	6822.
				100.0	6423.
WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	17374.	0.0	15301.	0.0	13199.
2.9	14582.	2.9	13797.	2.9	12599.
8.8	12975.	5.9	12440.	5.9	11480.
11.8	12239.	11.8	11813.	14.7	10958.
20.6	11544.	14.7	11217.	17.6	9985.
29.4	10890.	23.5	10651.	26.5	9531.
44.1	10272.	29.4	10114.	38.2	9098.
50.0	9689.	35.3	9604.	52.9	8685.
55.9	9140.	58.8	9120.	67.6	8290.
64.7	8621.	64.7	8660.	73.5	7913.
73.5	8132.	67.6	8223.	76.5	7554.
79.4	7671.	70.6	7808.	82.3	6883.
85.3	6825.	76.5	7415.	85.3	6570.
94.1	6073.	85.3	7041.	88.2	6271.
100.0	5728.	88.2	6686.	91.2	5986.
		91.2	6028.	94.1	5714.
		100.0	5724.	100.0	5455.

TABLE 14 (Continued)

## FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12083.	0.0	11583.	0.0	10439.
5.9	11105.	5.9	10292.	2.9	10145.
8.8	10645.	11.8	9894.	5.9	9581.
11.8	10205.	17.6	9512.	8.8	9311.
17.6	9783.	38.2	9145.	20.6	9049.
20.6	9379.	47.1	8792.	23.5	8794.
32.3	8991.	50.0	8452.	32.3	8546.
50.0	8619.	52.9	8126.	47.1	8305.
58.8	8263.	64.7	7812.	61.8	8071.
70.6	7921.	73.5	7510.	67.6	7843.
73.5	7594.	79.4	7220.	70.6	7622.
76.5	7280.	85.3	6941.	82.3	7408.
85.3	6979.	91.2	6416.	85.3	7199.
88.2	6690.	97.1	5701.	91.2	6799.
91.2	6148.	100.0	5481.	94.1	6607.
97.1	5650.			97.1	6240.
100.0	5417.			100.0	6064.

WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9939.	0.0	9510.	0.0	9939.
2.9	9730.	5.9	8932.	2.9	9461.
5.9	9128.	11.8	8566.	5.9	9231.
8.8	8935.	29.4	8389.	8.8	9006.
11.8	8747.	35.3	8216.	11.8	8787.
20.6	8563.	47.1	8046.	14.7	8573.
26.5	8382.	58.8	7879.	20.6	8364.
41.2	8206.	64.7	7716.	26.5	8161.
55.9	8033.	67.6	7557.	44.1	7768.
67.6	7864.	73.5	7401.	50.0	7579.
70.6	7698.	82.3	7098.	58.8	7394.
76.5	7536.	88.2	6807.	73.5	7214.
79.4	7377.	97.1	6529.	76.5	7039.
85.3	7070.	100.0	6394.	82.3	6867.
94.1	6921.			91.2	6700.
97.1	6775.			94.1	6378.
100.0	6632.			100.0	6223.

TABLE 14 (Continued)

## FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9366.	0.0	9601.	0.0	9910.
5.9	9149.	2.9	9070.	2.9	9290.
14.7	8936.	8.8	8816.	5.9	8995.
17.6	8729.	14.7	8569.	11.8	8709.
20.6	8526.	17.6	8329.	14.7	8432.
23.5	8328.	26.5	8095.	23.5	8164.
26.5	8135.	32.3	7868.	26.5	7905.
35.3	7946.	38.2	7648.	32.3	7654.
38.2	7762.	44.1	7434.	38.2	7411.
47.1	7581.	47.1	7225.	44.1	7175.
58.8	7405.	58.8	7023.	47.1	6947.
61.8	7233.	61.8	6826.	55.9	6726.
64.7	7065.	73.5	6635.	67.6	6513.
76.5	6901.	85.3	6449.	82.3	6306.
82.3	6741.	91.2	6092.	85.3	6105.
94.1	6136.	97.1	5756.	94.1	5911.
100.0	5994.	100.0	5594.	97.1	5542.
				100.0	5366.
WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9238.	0.0	9003.	0.0	9138.
5.9	8960.	5.9	8478.	2.9	8077.
8.8	8429.	8.8	8227.	5.9	7831.
11.8	8176.	11.8	7748.	8.8	7363.
17.6	7930.	17.6	7296.	14.7	7139.
20.6	7691.	20.6	7081.	26.5	6922.
23.5	7460.	35.3	6871.	29.4	6712.
29.4	7236.	38.2	6668.	38.2	6508.
35.3	7018.	47.1	6471.	44.1	6310.
38.2	6807.	55.9	6279.	55.9	6118.
50.0	6602.	64.7	6093.	67.6	5932.
58.8	6403.	73.5	5913.	73.5	5752.
70.6	6211.	82.3	5738.	76.5	5577.
82.3	6024.	88.2	5569.	79.4	5408.
94.1	5331.	91.2	5404.	88.2	5243.
100.0	5171.	94.1	5244.	100.0	5084.
		100.0	5089.		

TABLE 14 (Continued)

FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	8709.	0.0	8995.	0.0	9639.
2.9	8440.	2.9	8152.	2.9	8944.
5.9	7683.	8.8	7889.	5.9	7702.
11.8	7217.	11.8	7635.	8.8	7419.
17.6	6994.	14.7	7150.	17.6	6885.
20.6	6779.	23.5	6919.	26.5	6632.
29.4	6570.	26.5	6696.	38.2	6389.
35.3	6367.	44.1	6271.	41.2	6154.
38.2	6171.	50.0	6069.	55.9	5929.
58.8	5796.	55.9	5873.	64.7	5711.
70.6	5617.	67.6	5500.	76.5	5501.
76.5	5444.	79.4	5323.	79.4	5300.
82.3	5276.	82.3	5151.	91.2	5105.
91.2	5114.	91.2	4985.	97.1	4918.
97.1	4956.	100.0	4824.	100.0	4737.
100.0	4803.				
WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10367.	0.0	12012.	0.0	17867.
2.9	8181.	2.9	10700.	2.9	14610.
14.7	7442.	5.9	9531.	5.9	13662.
17.6	7098.	11.8	8996.	8.8	12775.
23.5	6770.	14.7	8490.	14.7	11946.
38.2	6456.	23.5	8013.	20.6	10446.
50.0	6158.	29.4	7563.	29.4	9768.
52.9	5873.	32.3	7138.	35.3	9134.
55.9	5601.	47.1	6737.	41.2	8542.
76.5	5342.	55.9	6358.	44.1	7987.
85.3	5095.	64.7	6001.	58.8	7469.
91.2	4859.	76.5	5664.	61.8	6984.
97.1	4420.	82.3	5345.	76.5	6531.
100.0	4216.	88.2	5045.	85.3	6107.
		94.1	4761.	91.2	5711.
		97.1	4241.	94.1	5341.
		100.0	4003.	100.0	4994.

TABLE 14 (Continued)

## FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	46189.	0.0	98184.	0.0	92950.
5.9	40519.	2.9	87137.	8.8	87595.
8.8	35546.	11.8	77334.	14.7	82548.
17.6	31183.	14.7	68633.	23.5	77791.
23.5	27355.	26.5	60911.	26.5	69085.
29.4	23997.	32.3	54058.	38.2	65105.
41.2	21052.	35.3	47976.	44.1	61354.
47.1	16201.	50.0	42578.	52.9	57818.
52.9	14212.	52.9	33536.	70.6	54487.
58.8	12468.	55.9	29763.	76.5	51348.
61.8	10937.	64.7	26414.	79.4	42974.
73.5	9595.	67.6	23442.	82.3	40498.
76.5	8417.	70.6	20805.	88.2	35965.
82.3	7384.	76.5	18464.	91.2	33893.
85.3	6477.	82.3	16387.	97.1	31940.
94.1	5682.	91.2	14543.	100.0	30100.
97.1	4373.	94.1	11455.		
100.0	3836.	100.0	10166.		

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	98572.	0.0	128642.	0.0	158302.
5.9	94532.	5.9	121860.	2.9	150919.
8.8	90657.	11.8	115436.	5.9	143881.
14.7	86941.	23.5	109351.	17.6	130774.
20.6	83378.	35.3	98126.	23.5	118860.
29.4	79961.	44.1	88053.	29.4	113317.
41.2	76683.	55.9	83411.	41.2	108032.
50.0	73540.	58.8	79014.	52.9	102994.
55.9	70526.	64.7	74848.	64.7	98191.
64.7	67636.	70.6	70903.	73.5	93612.
67.6	64863.	79.4	67165.	79.4	85084.
82.3	62205.	82.3	63624.	85.3	81116.
85.3	59655.	94.1	57093.	88.2	77333.
88.2	57210.	97.1	48531.	94.1	70288.
91.2	48392.	100.0	45973.	97.1	67010.
97.1	46409.			100.0	63885.
100.0	44506.				

TABLE 14 (Continued)

## FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	173173.	0.0	172459.	0.0	182317.
8.8	147765.	2.9	151505.	2.9	170462.
11.8	132932.	8.8	145102.	5.9	149015.
17.6	126084.	11.8	138970.	11.8	144089.
20.6	119588.	20.6	133097.	14.7	139326.
38.2	113428.	26.5	127472.	23.5	134720.
50.0	107584.	32.3	122085.	32.3	130267.
55.9	96785.	44.1	116925.	41.2	125960.
67.6	91799.	50.0	111984.	55.9	121796.
76.5	87070.	58.8	107251.	64.7	117770.
82.3	82584.	70.6	102719.	76.5	113877.
85.3	78330.	79.4	98378.	91.2	102953.
94.1	66837.	82.3	94220.	94.1	99549.
100.0	63394.	88.2	86425.	100.0	96259.
		94.1	79274.		
		100.0	75924.		
WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	161560.	0.0	190047.	0.0	190762.
5.9	152360.	2.9	169214.	5.9	183032.
14.7	143685.	5.9	162791.	8.8	168500.
20.6	139534.	14.7	156611.	11.8	161672.
26.5	131589.	23.5	150665.	17.6	155121.
35.3	127788.	32.3	144946.	26.5	142805.
44.1	124096.	38.2	139443.	35.3	137019.
47.1	120511.	41.2	134149.	38.2	131467.
55.9	117030.	44.1	129057.	50.0	126140.
64.7	113649.	50.0	124157.	58.8	121028.
70.6	110366.	64.7	119444.	76.5	116124.
73.5	107178.	70.6	114910.	79.4	111419.
76.5	104082.	76.5	110547.	85.3	102572.
91.2	98155.	85.3	106351.	88.2	98416.
94.1	95320.	94.1	102313.	91.2	94428.
100.0	92566.	97.1	94693.	94.1	90602.
		100.0	91098.	100.0	86931.

TABLE 14 (Continued)

## FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	180859.	0.0	199200.	0.0	176896.
5.9	173786.	2.9	176021.	2.9	166021.
11.8	160457.	5.9	168910.	5.9	155813.
17.6	154182.	8.8	162087.	8.8	150948.
23.5	142357.	11.8	149256.	11.8	146234.
29.4	136789.	14.7	143227.	14.7	141667.
32.3	131439.	17.6	137441.	20.6	137243.
41.2	126299.	29.4	131889.	32.3	132958.
44.1	121359.	35.3	126561.	35.3	124783.
55.9	116613.	52.9	121449.	44.1	120887.
61.8	112052.	55.9	116542.	61.8	117112.
67.6	107669.	67.6	111835.	67.6	113454.
76.5	103458.	79.4	107317.	73.5	109911.
82.3	99412.	85.3	102982.	82.3	106479.
88.2	95524.	91.2	98822.	88.2	103154.
91.2	91788.	94.1	94830.	91.2	99933.
97.1	88198.	100.0	90999.	100.0	96812.
100.0	84748.				
WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	206921.	0.0	134729.	0.0	115687.
2.9	196194.	11.8	128555.	2.9	111092.
5.9	158564.	14.7	122663.	8.8	106680.
8.8	150344.	17.6	111679.	11.8	102443.
11.8	142550.	38.2	106561.	14.7	98374.
17.6	135159.	44.1	101677.	17.6	94466.
29.4	128152.	61.8	97018.	26.5	90714.
35.3	121508.	70.6	92572.	35.3	87111.
44.1	115209.	76.5	88329.	55.9	83652.
52.9	109236.	82.3	84282.	64.7	80329.
64.7	103573.	91.2	80419.	67.6	77139.
82.3	98204.	94.1	76734.	70.6	74075.
85.3	93112.	97.1	57910.	73.5	71133.
91.2	79368.	100.0	55256.	79.4	68307.
100.0	75254.			91.2	65594.
				94.1	62989.
				97.1	55778.
				100.0	53562.

TABLE 14 (Continued)

## FLOW DURATION DATA AT SUSITNA STATION FOR NATURAL CONDITIONS

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	100655.	0.0	101944.
5.9	96169.	8.8	96824.
8.8	91883.	14.7	91962.
11.8	87788.	20.6	87343.
20.6	83875.	26.5	82957.
26.5	76566.	29.4	78791.
44.1	73153.	35.3	74834.
50.0	69893.	44.1	71076.
58.8	66778.	50.0	67506.
67.6	63802.	58.8	64116.
73.5	60959.	64.7	57838.
79.4	55646.	76.5	54933.
82.3	53166.	79.4	52175.
85.3	48533.	82.3	47066.
91.2	46370.	85.3	44702.
94.1	44303.	88.2	40325.
100.0	42329.	100.0	38300.

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	174746.	0.0	116180.	101658.
2.9	147415.	5.9	107880.	94395.
8.8	114220.	20.6	100172.	87651.
11.8	104908.	23.5	93015.	81388.
14.7	96356.	32.3	86369.	75573.
26.5	88500.	35.3	80199.	70174.
32.3	81285.	38.2	74469.	65160.
41.2	74658.	41.2	69148.	60505.
44.1	68572.	47.1	64208.	56182.
52.9	62981.	52.9	59620.	52168.
67.6	57847.	61.8	55361.	48441.
73.5	53131.	64.7	51405.	44979.
79.4	44821.	73.5	47733.	41766.
88.2	41167.	76.5	44322.	38782.
91.2	37811.	82.3	41156.	36012.
100.0	34728.	88.2	38215.	33438.
		91.2	35485.	31049.
		94.1	30596.	26772.
		100.0	28410.	24859.

<sup>1/</sup> The values in this column represent the total flow between Sept. 23 and 30, divided by 7.

<sup>2/</sup> The flows in this column represent the mean flow for the 8 day period, Sept. 23 to 30.

**TABLE 15**

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10959	0.0	8035	0.0	8613
3.0	10106	45.5	6809	45.5	7265
6.1	8593	72.7	5375	72.7	5924
12.1	8251	97.0	5250	97.0	4669
57.6	6738	100.0	5127	100.0	4512
72.7	5501				
97.0	5283				
100.0	5073				

WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9176	0.0	9710	0.0	10319
33.3	7741	9.1	8191	6.1	8705
72.7	6312	69.7	6678	69.7	7098
97.0	4975	97.0	5263	97.0	5594
100.0	4808	100.0	5087	100.0	5407

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10834	0.0	11289	0.0	11734
6.1	9147	12.1	9560	15.2	10297
72.7	7465	72.7	7831	72.7	8193
97.0	5890	97.0	6205	97.0	6519
100.0	5694	100.0	6002	100.0	6310

WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12315	0.0	12617	0.0	12281
24.2	10836	24.2	11111	24.2	10798
72.7	8663	72.7	8896	72.7	8620
97.0	6925	97.0	7123	97.0	6881
100.0	6707	100.0	6900	100.0	6663

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11645	0.0	11342	0.0	11366
24.2	10204	27.3	9589	27.3	9604
69.7	8098	63.6	7840	63.6	7846
97.0	6427	97.0	6198	97.0	6197
100.0	6218	100.0	5993	100.0	5992

WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11394	0.0	11423	0.0	11421
27.3	9618	27.3	9640	27.3	9635
63.6	7847	63.6	7863	63.6	7856
97.0	6189	97.0	6200	97.0	6191
100.0	5983	100.0	5993	100.0	5984

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11461	0.0	11461	0.0	11345
27.3	9669	27.3	9669	27.3	9571
63.6	7884	66.7	7884	66.7	7803
97.0	6214	97.0	6214	97.0	6150
100.0	6006	100.0	6006	100.0	5944

WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11179	0.0	10486	0.0	10024
27.3	9431	24.2	8845	24.2	8456
66.7	7689	66.7	7212	66.7	6895
97.0	6060	97.0	5684	97.0	5433
100.0	5857	100.0	5494	100.0	5252

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9544	0.0	9303	0.0	9116
24.2	8051	21.2	7848	18.2	7690
66.7	6564	66.7	6399	66.7	6270
97.0	5173	97.0	5043	97.0	4942
100.0	5000	100.0	4874	100.0	4776

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	8746	0.0	8390	0.0	7971
15.2	7378	15.2	7078	15.2	6724
66.7	6016	66.7	5772	66.7	5483
97.0	4741	97.0	4549	97.0	4321
100.0	4582	100.0	4397	100.0	4177

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	7573	0.0	6236	0.0	6548
15.2	6388	69.7	5006	69.7	5386
69.7	5209	97.0	4018	72.7	5256
97.0	4105	100.0	3921	97.0	4219
100.0	3968			100.0	4117

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	6875	0.0	7218	0.0	7772
72.7	5518	75.8	5794	6.1	7117
97.0	4430	97.0	4651	87.9	5796
100.0	4323	100.0	4538	97.0	4583
				100.0	4451

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	7612	0.0	7703	0.0	7262
15.2	7388	3.0	7475	33.3	7041
18.2	7171	30.3	7255	39.4	6618
21.2	6960	33.3	7041	42.4	6416
90.9	5649	36.4	6833	90.9	6031
97.0	4449	93.9	5377	93.9	5166
100.0	4319	97.0	4492	97.0	4160
		100.0	4360	100.0	4033

WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	7129	0.0	7021	0.0	7507
15.2	6898	15.2	6803	3.0	6967
51.5	6675	66.7	6591	24.2	6712
60.6	6459	72.7	6187	72.7	6466
63.6	6250	75.8	5995	75.8	6230
90.9	6047	93.9	5627	78.8	6002
93.9	5301	97.0	3975	93.9	5570
97.0	3942	100.0	3851	97.0	3837
100.0	3814			100.0	3696

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	7388	0.0	22073	0.0	19507
3.0	7129	3.0	7984	3.0	7800
12.1	6879	6.1	7279	9.1	7177
36.4	6638	69.7	6637	72.7	6603
72.7	6405	93.9	5029	75.8	6075
75.8	5964	97.0	4180	93.9	5142
93.9	5553	100.0	3811	97.0	4353
97.0	3886			100.0	4005
100.0	3749				
WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	30828	0.0	30834	0.0	20668
3.0	20933	3.0	28011	9.1	17999
9.1	10632	6.1	20999	12.1	16797
12.1	8761	9.1	19077	15.2	14629
15.2	7953	12.1	17330	18.2	13652
18.2	7219	15.2	12992	21.2	11889
78.8	6553	18.2	8848	24.2	10354
93.9	5400	21.2	7302	27.3	9017
100.0	4902	81.8	6633	30.3	8415
		93.9	5474	39.4	7853
		100.0	4973	42.4	7329
				69.7	6839
				90.9	6382
				97.0	5956
				100.0	5558

TABLE 15

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	23535	0.0	16062
3.0	21765	9.1	14340
6.1	20128	15.2	12803
12.1	18614	24.2	12098
15.2	15920	30.3	11431
18.2	13616	33.3	9643
21.2	11645	39.4	9112
27.3	9959	42.4	7687
30.3	9210	57.6	6863
39.4	7877	81.8	6127
57.6	7285	87.9	5790
60.6	6737	100.0	5471
87.9	6230		
90.9	5762		
100.0	5329		

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	15860	0.0	18346	20967
9.1	14957	3.0	15095	17252
12.1	11831	6.1	13254	15148
21.2	11158	9.1	12420	14194
24.2	10522	12.1	10905	12463
30.3	9923	15.2	10219	11679
36.4	9358	24.2	8973	10255
39.4	8323	30.3	8408	9609
42.4	7849	39.4	7879	9004
54.5	7403	60.6	7383	8437
78.8	5855	75.8	5692	6505
97.0	5522	100.0	5334	6096
100.0	5208			

1/ The flows in this column represent the mean flow for the 8-day period, Sept. 23 to 30.

2/ The values in this column represent the mean flow between Sept. 23 and 30, divided by 7.

**TABLE 16**

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	15101	0.0	10444	0.0	10833
3.0	13051	9.1	10144	6.1	10430
6.1	11279	18.2	9851	12.1	10042
9.1	10744	21.2	9568	24.2	9668
15.2	10234	27.3	9292	45.5	8963
30.3	9748	45.5	9024	48.5	8629
39.4	9285	51.5	8512	57.6	8308
57.6	8845	57.6	8267	63.6	7999
69.7	8425	60.6	7797	72.7	7702
72.7	8025	66.7	7573	75.8	7139
75.8	7644	72.7	7143	81.8	6874
78.8	6936	78.8	6737	84.8	6618
81.8	6606	84.8	6355	87.9	6372
93.9	6293	93.9	6172	97.0	5475
100.0	5994	100.0	5994	100.0	5272

WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11132	0.0	11143	0.0	11555
6.1	10708	6.1	10723	3.0	11126
12.1	10300	9.1	9555	6.1	9933
30.3	9907	12.1	9195	9.1	9564
33.3	9167	30.3	8848	30.3	9209
42.4	8817	60.6	8515	69.7	7917
51.5	8481	69.7	7587	78.8	7623
66.7	8158	75.8	7301	84.8	7340
72.7	7548	84.8	7026	93.9	7068
75.8	7260	87.9	6761	97.0	5850
78.8	6984	97.0	5579	100.0	5633
87.9	6718	100.0	5369		
90.9	6462				
97.0	5531				
100.0	5321				

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11890	0.0	12157	0.0	12684
3.0	11457	12.1	10536	6.1	12241
6.1	10249	30.3	10166	15.2	11004
12.1	9876	66.7	9808	30.3	10620
48.5	9516	72.7	8500	66.7	10249
72.7	8203	78.8	8201	72.7	8892
78.8	7904	87.9	7913	78.8	8581
87.9	7616	97.0	6384	87.9	8282
97.0	6095	100.0	6160	97.0	6692
100.0	5873			100.0	6459

WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	13640	0.0	13747	0.0	13124
3.0	13156	6.1	13273	15.2	12680
18.2	12690	21.2	12815	24.2	11434
24.2	11388	24.2	11947	33.3	11047
54.5	10985	27.3	11535	72.7	9299
72.7	9509	66.7	11137	81.8	8984
78.8	9172	72.7	9679	90.9	8679
87.9	8847	78.8	9345	97.0	7058
97.0	7125	90.9	9023	100.0	6819
100.0	6872	97.0	7310		
		100.0	7058		

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12330	0.0	11958	0.0	11958
21.2	11909	24.2	11550	24.2	11550
24.2	10731	27.3	10409	27.3	10054
30.3	10365	30.3	10054	54.5	9711
66.7	10011	54.5	9711	63.6	8164
69.7	8712	63.6	8165	81.8	7886
78.8	8415	84.8	7887	97.0	6404
90.9	8128	97.0	6405	100.0	6186
97.0	6599	100.0	6187		
100.0	6374				

WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11995	0.0	12022	0.0	11980
21.2	11582	21.2	11608	27.3	10059
27.3	10069	27.3	10089	51.5	9713
48.5	9723	48.5	9741	63.6	8156
63.6	8162	63.6	8175	81.8	7875
81.8	7881	81.8	7894	97.0	6385
97.0	6389	97.0	6396	100.0	6166
100.0	6169	100.0	6176		

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12153	0.0	11960	0.0	11881
21.2	11728	27.3	10047	27.3	9971
27.3	10171	63.6	9703	57.6	9628
42.4	9815	66.7	8151	66.7	8080
63.6	8214	81.8	7871	81.8	7802
78.8	7927	97.0	6386	97.0	6323
97.0	6402	100.0	6167	100.0	6105
100.0	6178				

WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11691	0.0	10956	0.0	10473
27.3	9816	24.2	9199	24.2	8798
57.6	9479	54.5	8883	51.5	8496
66.7	7959	66.7	7458	66.7	7137
81.8	7686	81.8	7202	81.8	6892
97.0	6232	97.0	5839	97.0	5591
100.0	6018	100.0	5638	100.0	5400

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10109	0.0	9869	0.0	10000
15.2	9757	15.2	9525	6.1	9627
24.2	8467	21.2	8265	18.2	8269
39.4	8172	36.4	7976	27.3	7961
66.7	6845	66.7	6680	66.7	6583
78.8	6607	78.8	6447	81.8	6338
97.0	5341	97.0	5211	97.0	5045
100.0	5155	100.0	5029	100.0	4857

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9630	0.0	9365	0.0	8961
3.0	9270	3.0	9011	6.1	8621
15.2	7961	15.2	7722	15.2	7678
24.2	7664	27.3	7430	18.2	7387
66.7	6335	54.5	7148	33.3	7107
84.8	6099	66.7	6367	51.5	6837
97.0	4854	69.7	6126	66.7	6578
100.0	4672	84.8	5894	69.7	6329
		97.0	4676	72.7	5858
		100.0	4499	87.9	5636
				97.0	4470
				100.0	4301

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9223	0.0	12060	0.0	12652
6.1	8858	3.0	10905	6.1	12164
12.1	8506	6.1	10370	9.1	11244
18.2	8169	9.1	9377	12.1	10811
21.2	7845	15.2	8916	21.2	9993
24.2	7534	21.2	8479	24.2	9608
39.4	7236	27.3	8062	36.4	9237
48.5	6949	39.4	7667	45.5	8881
60.6	6673	42.4	7290	51.5	8539
72.7	6409	54.5	6932	63.6	8210
75.8	6155	75.8	6592	75.8	7893
78.8	5911	81.8	6268	78.8	7589
84.8	5676	87.9	5961	84.8	7296
87.9	5451	90.9	5668	90.9	6744
97.0	4453	97.0	4874	93.9	6484
100.0	4277	100.0	4634	97.0	6234
				100.0	5994

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	15169	0.0	19508	0.0	17115
9.1	13898	3.0	18543	3.0	15868
15.2	12733	6.1	15926	6.1	14711
18.2	12187	9.1	15139	9.1	13638
27.3	11665	12.1	14390	15.2	13132
33.3	11166	18.2	13679	27.3	12644
45.5	10688	24.2	13002	30.3	12175
54.5	10230	42.4	12360	39.4	11723
60.6	9792	60.6	11748	54.5	11287
66.7	9372	63.6	11168	60.6	10868
69.7	8971	69.7	10615	66.7	10464
75.8	8587	72.7	10091	72.7	10076
84.8	8219	81.8	9117	78.8	9702
87.9	7530	90.9	8238	81.8	9341
93.9	6899	97.0	7831	90.9	8660
100.0	6603	100.0	7444	100.0	8339

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	16819	0.0	15638	0.0	13955
3.0	15002	6.1	14571	3.0	13160
9.1	14441	12.1	14065	6.1	12779
18.2	13902	15.2	13577	18.2	12410
21.2	13382	21.2	13106	33.3	12051
30.3	12882	30.3	12651	45.5	11703
39.4	12400	36.4	12212	54.5	11364
45.5	11937	51.5	11788	57.6	10717
57.6	11490	60.6	10984	60.6	10407
63.6	11061	63.6	10234	69.7	9814
66.7	10647	66.7	9879	75.8	9530
69.7	10249	75.8	9536	81.8	9255
75.8	9866	81.8	9205	93.9	8230
78.8	9497	90.9	8577	100.0	7992
84.8	9142	97.0	8279		
93.9	8801	100.0	7992		
97.0	8472				
100.0	8155				

WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12082	0.0	14794	0.0	14515
6.1	11822	3.0	14322	3.0	13631
9.1	11568	6.1	12180	6.1	12405
18.2	11319	12.1	11791	9.1	12022
21.2	11075	15.2	11415	18.2	11650
24.2	10837	24.2	11051	24.2	10941
30.3	10604	30.3	10699	36.4	10603
36.4	10376	36.4	10358	39.4	10275
45.5	10152	45.5	10027	45.5	9649
51.5	9934	54.5	9707	69.7	9351
60.6	9720	63.6	9398	72.7	9062
66.7	9306	72.7	9098	90.9	8247
72.7	9106	90.9	8255	100.0	7992
90.9	8910	100.0	7992		
93.9	8168				
100.0	7992				

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	13545	0.0	26083	0.0	23023
3.0	13174	3.0	14895	3.0	13192
6.1	12462	6.1	13996	9.1	12478
9.1	12121	12.1	13151	15.2	11802
12.1	11789	18.2	12357	21.2	11163
18.2	11152	30.3	11611	42.4	10558
21.2	10847	39.4	10910	54.5	9986
27.3	10550	51.5	10252	63.6	9445
39.4	10261	63.6	9633	90.9	8450
42.4	9980	75.8	9052	100.0	7992
51.5	9707	93.9	8505		
57.6	9441	100.0	7992		
66.7	9182				
90.9	8217				
100.0	7992				

WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	41501	0.0	37066	0.0	24996
3.0	26902	3.0	34191	3.0	23540
6.1	24668	6.1	24753	9.1	20878
9.1	19019	9.1	21062	12.1	19661
12.1	13445	15.2	17921	18.2	18516
15.2	12329	18.2	15248	21.2	15465
21.2	11305	21.2	11039	24.2	13716
39.4	10366	36.4	10183	27.3	12917
57.6	9505	63.6	9393	30.3	11456
90.9	8716	90.9	8664	36.4	10789
100.0	7992	100.0	7992	51.5	10160
				60.6	9569
				75.8	9011
				90.9	8486
				100.0	7992

TABLE 16

FLOW DURATION DATA AT GOLD CREEK  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	29100	0.0	22451
6.1	23729	3.0	21115
12.1	20711	6.1	18675
15.2	18077	9.1	17563
18.2	16888	12.1	15534
21.2	15778	24.2	14609
24.2	13771	33.3	13739
27.3	12866	39.4	12921
33.3	12020	42.4	11428
45.5	11229	54.5	10747
54.5	10491	57.6	10107
66.7	9801	63.6	9505
69.7	9157	78.8	8939
78.8	8555	81.8	8407
100.0	7992	84.8	7907
		87.9	7436
		100.0	6993

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	21879	0.0	21935	25069
3.0	20438	3.0	20487	23414
6.1	19091	6.1	16693	19077
12.1	15561	9.1	15591	17818
15.2	14536	12.1	14562	16642
18.2	13579	15.2	12703	14518
21.2	12684	21.2	11865	13560
33.3	11849	27.3	11082	12665
42.4	11068	30.3	10350	11829
60.6	10339	39.4	9667	11048
66.7	9658	66.7	9029	10319
72.7	9022	78.8	8433	9638
81.8	7872	81.8	7357	8408
87.9	7354	84.8	6871	7853
90.9	6869	93.9	6418	7334
97.0	6417	100.0	5994	6850
100.0	5994			

1/ The flows in this column represent the mean flow for the 8-day period, Sept. 23 to 30.

2/ The values in this column represent the mean flow between Sept. 23 and 30, divided by 7.

**TABLE 17**

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	33220	0.0	26546	0.0	20013
3.0	28728	6.1	24132	9.1	19282
6.1	27370	9.1	21938	12.1	18578
9.1	24843	21.2	20917	21.2	17899
15.2	23669	27.3	19943	30.3	17245
27.3	22550	33.3	19015	36.4	16615
33.3	21484	51.5	18130	42.4	16008
42.4	20468	54.5	16481	54.5	15423
54.5	19500	66.7	15714	63.6	14860
63.6	18578	75.8	14983	75.8	13794
72.7	17700	84.8	14285	78.8	13290
75.8	16863	90.9	13620	84.8	12805
84.8	15307	93.9	12986	87.9	12337
90.9	14583	97.0	11256	90.9	11886
93.9	13894	100.0	10732	93.9	11034
100.0	13237			97.0	10242
				100.0	9868

WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	21132	0.0	16958	0.0	17374
3.0	18007	6.1	16443	3.0	16763
9.1	17301	9.1	15460	6.1	14525
12.1	16622	12.1	14991	18.2	14014
24.2	15970	18.2	14536	33.3	13521
39.4	15344	30.3	14094	51.5	13045
48.5	14742	45.5	13666	57.6	12586
57.6	14164	51.5	13252	60.6	12143
63.6	13609	54.5	12849	78.8	11716
72.7	13075	57.6	12459	84.8	10151
75.8	12562	69.7	12081	93.9	9794
84.8	11596	75.8	11714	97.0	9117
90.9	11141	84.8	10679	100.0	8796
93.9	10284	90.9	10355		
100.0	9881	93.9	9736		
		100.0	9441		

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	16522	0.0	16112	0.0	16770
3.0	15952	9.1	15582	3.0	16191
6.1	15402	12.1	15069	9.1	15633
12.1	14359	18.2	14094	12.1	15094
15.2	13864	30.3	13630	18.2	14573
36.4	13387	42.4	13182	21.2	14070
51.5	12925	60.6	12748	42.4	13585
60.6	12480	66.7	12328	57.6	13116
69.7	12050	75.8	11923	69.7	12664
78.8	11635	78.8	11531	75.8	12227
84.8	10473	81.8	11151	78.8	11805
90.9	10112	84.8	10784	81.8	11005
97.0	8788	87.9	10429	97.0	8915
100.0	8486	97.0	8823	100.0	8607
		100.0	8532		

WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	17477	0.0	17182	0.0	16205
3.0	16868	3.0	16612	6.1	15692
6.1	16280	9.1	16061	12.1	15196
12.1	15713	15.2	15528	21.2	14715
18.2	15165	24.2	15012	27.3	14249
27.3	14637	30.3	14514	39.4	13798
33.3	14127	48.5	14033	54.5	13362
51.5	13635	63.6	13567	63.6	12939
63.6	13160	66.7	13117	69.7	12529
72.7	12701	72.7	12681	72.7	12133
75.8	12259	75.8	12261	75.8	11749
81.8	11419	81.8	11854	81.8	11377
90.9	11021	84.8	11460	90.9	11017
97.0	9231	90.9	11080	93.9	10668
100.0	8909	97.0	9360	97.0	9084
		100.0	9049	100.0	8796

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	15281	0.0	14780	0.0	14446
9.1	14799	9.1	14313	12.1	14001
15.2	14333	18.2	13860	24.2	13152
21.2	13881	27.3	12998	30.3	12746
30.3	13443	30.3	12588	36.4	12353
39.4	13019	39.4	12190	48.5	11973
51.5	12609	57.6	11805	57.6	11604
60.6	12211	63.6	11070	63.6	10900
66.7	11826	69.7	10382	66.7	10564
69.7	11453	84.8	10054	75.8	10238
72.7	11092	90.9	9736	84.8	9923
81.8	10743	93.9	9428	90.9	9617
90.9	10076	97.0	8292	93.9	9320
97.0	8584	100.0	8030	97.0	8223
100.0	8314			100.0	7970

WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	14551	0.0	14597	0.0	14262
6.1	14095	6.1	14137	9.1	13828
21.2	13654	21.2	13693	21.2	13407
24.2	13227	24.2	13262	27.3	12604
27.3	12813	27.3	12845	30.3	12220
33.3	12412	30.3	12441	42.4	11848
48.5	12023	39.4	12050	54.5	11488
54.5	11647	54.5	11671	63.6	10152
63.6	10587	60.6	11303	81.8	9843
66.7	10256	63.6	10604	87.9	9543
81.8	9935	66.7	10270	93.9	9253
90.9	9624	81.8	9947	97.0	8177
93.9	9322	87.9	9634	100.0	7928
97.0	8209	93.9	9331		
100.0	7952	97.0	8211		
		100.0	7953		

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	14152	0.0	13943	0.0	13703
12.1	13727	18.2	13530	21.2	13296
24.2	13314	27.3	13130	27.3	12901
27.3	12526	30.3	11998	30.3	12147
30.3	12150	45.5	11642	33.3	11786
36.4	11785	60.6	11298	48.5	11437
54.5	11431	66.7	10018	60.6	11097
63.6	10117	78.8	9721	66.7	9837
78.8	9813	90.9	9434	78.8	9545
84.8	9518	93.9	9154	93.9	9262
93.9	9232	97.0	8117	97.0	7967
97.0	8172	100.0	7877	100.0	7730
100.0	7926				

WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	13469	0.0	12850	0.0	12497
24.2	13073	15.2	12469	9.1	12123
27.3	11952	21.2	12099	21.2	11760
33.3	11600	24.2	11393	24.2	10735
42.4	11259	27.3	11055	30.3	10414
60.6	10927	39.4	10727	51.5	10102
66.7	9696	54.5	10409	63.6	9800
75.8	9411	66.7	9229	66.7	8946
87.9	9134	72.7	8956	69.7	8679
97.0	7866	84.8	8690	81.8	8419
100.0	7634	90.9	8433	90.9	8167
		97.0	7476	97.0	7232
		100.0	7255	100.0	7016

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12012	0.0	11671	0.0	12225
6.1	11655	9.1	11330	3.0	11826
21.2	10973	18.2	10678	6.1	11440
24.2	10330	21.2	10064	15.2	11066
30.3	10024	30.3	9770	18.2	10018
45.5	9726	54.5	9484	36.4	9690
63.6	9437	63.6	9208	54.5	9374
66.7	8620	66.7	8424	60.6	9068
72.7	8364	72.7	8178	66.7	8486
81.8	8116	81.8	7940	69.7	8208
90.9	7875	90.9	7708	78.8	7940
97.0	6980	97.0	6846	87.9	7681
100.0	6772	100.0	6646	97.0	6726
				100.0	6506

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11987	0.0	11862	0.0	11735
3.0	11231	3.0	10800	9.1	11091
9.1	10871	12.1	10468	12.1	10783
15.2	9858	18.2	9833	15.2	10483
24.2	9542	24.2	9531	24.2	10192
45.5	9236	39.4	9237	30.3	9909
54.5	8940	51.5	8953	33.3	9365
63.6	8653	60.6	8677	42.4	9105
66.7	8107	69.7	8410	57.6	8852
75.8	7847	75.8	7901	72.7	8606
81.8	7596	84.8	7657	75.8	8367
97.0	6667	90.9	7422	78.8	8134
100.0	6454	97.0	6757	81.8	7688
		100.0	6549	90.9	7474
				93.9	7267
				97.0	7065
				100.0	6868

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	18874	0.0	31790	0.0	43762
3.0	17981	6.1	29749	3.0	37876
6.1	15549	9.1	27839	6.1	32782
12.1	14113	12.1	24379	12.1	30498
15.2	13446	15.2	21349	18.2	28373
21.2	12810	21.2	19978	24.2	26396
24.2	12204	30.3	17495	42.4	24557
30.3	11627	33.3	16372	48.5	22846
39.4	11077	39.4	15321	57.6	21254
57.6	10554	48.5	14337	60.6	19773
60.6	10055	60.6	13416	69.7	18396
69.7	9579	66.7	12555	75.8	17114
78.8	9126	72.7	11749	84.8	15922
84.8	8283	75.8	10995	87.9	14812
97.0	7892	84.8	10289	90.9	13780
100.0	7518	97.0	9628	93.9	11927
		100.0	9010	100.0	11096

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	54753	0.0	53014	0.0	99810
3.0	51329	12.1	50458	3.0	63489
6.1	45111	15.2	48024	9.1	54602
9.1	39646	24.2	45709	21.2	50636
18.2	37167	33.3	43504	33.3	46958
24.2	32665	36.4	41406	36.4	43548
33.3	30623	42.4	39410	39.4	40385
39.4	28708	54.5	37509	57.6	37452
66.7	26913	60.6	35700	78.8	34732
75.8	25230	66.7	32340	81.8	32209
78.8	20787	72.7	30781	93.9	29870
84.8	19488	78.8	29296	97.0	25689
90.9	17127	81.8	27884	100.0	23823
100.0	16056	87.9	26539		
		90.9	24041		
		97.0	21778		
		100.0	20728		

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	82420	0.0	77614	0.0	77588
6.1	70684	3.0	68317	3.0	72201
12.1	67156	9.1	62747	6.1	69649
15.2	63805	12.1	60134	9.1	64813
18.2	60620	15.2	57630	12.1	60313
24.2	57594	18.2	55231	15.2	54142
27.3	54720	24.2	52931	30.3	52229
36.4	51989	39.4	50728	36.4	50383
39.4	49394	42.4	48615	57.6	48603
51.5	46929	48.5	46591	69.7	45228
60.6	44586	66.7	44651	84.8	42088
66.7	42361	69.7	42792	87.9	40601
69.7	40247	72.7	41011	100.0	39166
78.8	38238	78.8	39303		
81.8	36330	84.8	36098		
87.9	34516	100.0	34595		
90.9	32794				
100.0	31157				

WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	57922	0.0	88482	0.0	78379
3.0	56616	3.0	70756	3.0	75213
9.1	55339	6.1	64703	6.1	72175
15.2	52870	9.1	61874	9.1	69260
24.2	50512	12.1	59168	12.1	61203
27.3	49373	21.2	56581	15.2	58731
36.4	48259	30.3	54107	24.2	56359
42.4	47171	42.4	51741	33.3	54083
54.5	46107	54.5	47315	42.4	51899
66.7	45067	66.7	45246	48.5	49803
78.8	44050	81.8	43267	66.7	47791
81.8	42085	93.9	41375	69.7	45861
84.8	41136	97.0	39566	78.8	44009
93.9	40208	100.0	37836	84.8	40526
97.0	38415			90.9	38889
100.0	37548			93.9	37318
				100.0	35811

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	68610	0.0	73043	0.0	78460
3.0	66103	3.0	70027	3.0	62191
6.1	63688	9.1	64363	12.1	59367
9.1	61361	12.1	61705	15.2	56672
12.1	56960	21.2	59157	24.2	54098
27.3	54879	24.2	56715	33.3	51641
30.3	52874	30.3	54373	42.4	49296
42.4	50942	36.4	52127	48.5	47058
51.5	49081	42.4	49975	60.6	44921
57.6	47288	48.5	47911	75.8	42881
63.6	45560	66.7	45933	81.8	40934
75.8	43896	84.8	42218	87.9	39075
78.8	42292	90.9	40475	93.9	35607
87.9	40747	93.9	37201	97.0	33990
90.9	37824	97.0	34192	100.0	32447
97.0	35111	100.0	32780		
100.0	33828				

WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	120865	0.0	83962	0.0	63129
3.0	76015	6.1	77503	6.1	59216
6.1	69282	9.1	60957	9.1	55546
9.1	63145	15.2	56268	12.1	52103
15.2	57552	18.2	51939	15.2	45844
24.2	52454	27.3	47944	18.2	43002
39.4	47808	45.5	44255	30.3	40337
54.5	43573	60.6	40851	42.4	37836
69.7	39714	63.6	37708	51.5	35491
87.9	36196	84.8	34808	69.7	33291
93.9	32990	87.9	32130	84.8	31228
97.0	22765	93.9	29658	87.9	29292
100.0	20748	97.0	19876	93.9	27476
		100.0	18347	97.0	19953
				100.0	18716

TABLE 17

FLOW DURATION DATA AT SUNSHINE  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	60065	0.0	52385
6.1	56657	6.1	49362
9.1	50410	9.1	46513
12.1	47549	18.2	41299
15.2	44851	27.3	38916
21.2	42306	30.3	36670
27.3	39906	33.3	34553
33.3	37642	42.4	32559
39.4	35506	54.5	30680
45.5	33491	69.7	27241
63.6	31591	75.8	25669
69.7	29798	81.8	24187
78.8	28107	84.8	22791
84.8	25008	93.9	21476
90.9	23589	97.0	17968
93.9	22251	100.0	16931
97.0	20988		
100.0	19797		

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	60825	0.0	69238	79129
3.0	52206	3.0	36373	41569
9.1	44809	15.2	33177	37917
12.1	38460	30.3	30262	34586
18.2	35631	33.3	27604	31547
27.3	33010	42.4	25178	28775
33.3	30582	54.5	22966	26247
45.5	28333	75.8	20948	23941
54.5	26249	84.8	17429	19919
63.6	24318	93.9	13227	15117
75.8	22530	100.0	12065	13788
90.9	19337			
97.0	15377			
100.0	14246			

1/ The flows in this column represent the mean flow for the 8-day period, Sept. 23 to 30.

2/ The values in this column represent the mean flow between Sept. 23 and 30, divided by 7.

**TABLE 18**

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	68643	0.0	82202	0.0	57986
9.1	64712	3.0	69642	9.1	54456
12.1	61007	6.1	59001	12.1	48029
18.2	54220	9.1	54306	15.2	45105
24.2	51116	15.2	49985	18.2	39781
27.3	48189	24.2	46008	21.2	37359
39.4	45430	33.3	42348	42.4	35085
42.4	42828	45.5	38978	57.6	32950
48.5	40376	60.6	35877	66.7	30944
51.5	35885	69.7	33022	72.7	29060
60.6	33830	75.8	30395	78.8	27291
69.7	31893	84.8	27977	90.9	22605
81.8	30067	90.9	23702	93.9	21229
87.9	26722	93.9	18483	97.0	18723
97.0	23749	100.0	17012	100.0	17583
100.0	22390				

WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	50848	0.0	43256	0.0	43766
6.1	47753	3.0	38610	3.0	36695
9.1	44847	6.1	36478	6.1	30766
12.1	42118	9.1	32560	15.2	29011
15.2	39555	12.1	30762	21.2	27356
21.2	37147	24.2	29063	30.3	25796
24.2	34887	36.4	27458	39.4	24324
27.3	32763	42.4	25941	48.5	22936
36.4	30769	51.5	24509	57.6	21628
45.5	28897	60.6	23155	75.8	19231
63.6	27138	69.7	21876	84.8	18134
78.8	25487	75.8	19527	87.9	17099
81.8	23935	87.9	18448	90.9	15204
84.8	22479	93.9	16467	100.0	14337
87.9	21111	97.0	15557		
90.9	19826	100.0	14698		
93.9	18619				
97.0	16422				
100.0	15423				

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	41899	0.0	30598	0.0	28174
3.0	31306	3.0	25465	6.1	27087
6.1	27861	12.1	24322	9.1	26041
12.1	26284	18.2	23231	12.1	25036
21.2	24796	27.3	22188	15.2	23140
30.3	23392	36.4	21193	27.3	22246
36.4	22067	45.5	19334	33.3	21388
42.4	20818	60.6	17638	51.5	20562
54.5	19639	69.7	16846	54.5	19768
69.7	18527	81.8	16090	60.6	18271
75.8	17478	97.0	13391	63.6	17566
84.8	16488	100.0	12790	69.7	16888
93.9	15555			87.9	16236
97.0	14674			90.9	15609
100.0	13843			97.0	13870
				100.0	13335

WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	27337	0.0	25796	0.0	23540
3.0	23909	3.0	22837	3.0	22661
6.1	22865	6.1	21929	9.1	21000
12.1	21866	12.1	21056	12.1	20216
21.2	20911	30.3	20218	21.2	19462
30.3	19998	33.3	19414	30.3	18735
48.5	19124	51.5	18641	45.5	18036
54.5	18289	63.6	17187	60.6	17362
63.6	17490	69.7	16503	63.6	16714
69.7	16726	84.8	15847	72.7	16090
81.8	15996	90.9	15216	84.8	15489
90.9	15297	93.9	14611	93.9	13303
93.9	13990	97.0	12420	97.0	11868
97.0	12236	100.0	11926	100.0	11425
100.0	11701				

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	21967	0.0	20978	0.0	20201
3.0	21176	3.0	20336	3.0	19131
6.1	20413	9.1	19713	15.2	18618
12.1	19678	15.2	19110	18.2	18118
18.2	18969	18.2	18525	24.2	17158
24.2	18286	21.2	17957	33.3	16698
27.3	17627	27.3	17408	51.5	16249
45.5	16992	36.4	16875	60.6	15813
54.5	16380	54.5	16358	69.7	15389
63.6	15790	63.6	15857	78.8	14976
78.8	15221	72.7	15372	81.8	14574
90.9	14673	81.8	14901	87.9	14182
93.9	13144	84.8	14445	93.9	12720
97.0	11350	90.9	14003	97.0	12378
100.0	10941	93.9	12365	100.0	12046
		97.0	11986		
		100.0	11619		

WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	19797	0.0	19462	0.0	19368
3.0	19308	6.1	18505	3.0	18906
6.1	18832	18.2	18043	6.1	18455
9.1	18367	21.2	17594	9.1	18014
21.2	17472	24.2	17155	21.2	17585
24.2	17041	36.4	16728	24.2	17165
33.3	16621	42.4	16311	30.3	16755
51.5	16211	48.5	15904	36.4	16355
54.5	15811	57.6	15508	48.5	15965
69.7	15040	66.7	15121	51.5	15584
84.8	14669	78.8	14745	57.6	15212
87.9	13954	81.8	14377	75.8	14495
93.9	13274	87.9	14019	81.8	14149
97.0	12627	93.9	13329	90.9	13811
100.0	12316	97.0	12357	93.9	13481
		100.0	12049	97.0	12539
				100.0	12240

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	19328	0.0	19749	0.0	20008
6.1	18447	3.0	19237	3.0	19463
15.2	17606	6.1	18252	6.1	17916
24.2	17200	9.1	17779	9.1	17428
30.3	16803	18.2	17318	24.2	16953
39.4	16415	27.3	16869	33.3	16492
45.5	16037	42.4	16432	39.4	16042
57.6	15667	45.5	16006	48.5	15605
60.6	15305	48.5	15591	57.6	15180
63.6	14952	57.6	15187	66.7	14767
72.7	14607	69.7	14793	72.7	14365
78.8	14270	78.8	14410	81.8	13593
81.8	13941	81.8	14036	87.9	13223
93.9	13619	84.8	13673	90.9	12863
97.0	12699	90.9	13318	97.0	12172
100.0	12406	93.9	12973	100.0	11840
		97.0	12309		
		100.0	11990		
WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	19235	0.0	18173	0.0	17984
6.1	17338	3.0	17717	3.0	16567
18.2	16893	6.1	16839	9.1	15685
24.2	16460	9.1	16416	18.2	14849
33.3	16038	15.2	16004	24.2	14449
39.4	15627	18.2	15602	27.3	14059
42.4	15227	27.3	15210	42.4	13679
51.5	14836	30.3	14828	54.5	13310
63.6	14456	42.4	14456	63.6	12951
66.7	14085	51.5	14093	75.8	12601
81.8	13373	60.6	13740	81.8	12261
87.9	13030	63.6	13395	87.9	11930
90.9	12696	72.7	13058	90.9	11295
93.9	12053	84.8	12730	97.0	10990
100.0	11744	87.9	12099	100.0	10693
		93.9	11499		
		100.0	11211		

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	17074	0.0	17120	0.0	17632
3.0	16199	3.0	15750	3.0	16631
6.1	14970	6.1	14899	6.1	15236
15.2	14581	15.2	14490	9.1	14798
24.2	14203	24.2	14093	12.1	14372
27.3	13834	27.3	13707	18.2	13958
33.3	13475	30.3	13331	21.2	13556
42.4	13125	39.4	12966	24.2	13166
45.5	12785	42.4	12610	42.4	12787
63.6	12453	60.6	12264	48.5	12419
75.8	12129	75.8	11928	63.6	12062
78.8	11815	81.8	11601	69.7	11714
87.9	11209	84.8	11283	78.8	11377
93.9	10918	90.9	10974	84.8	11050
97.0	10635	93.9	10380	90.9	10732
100.0	10359	100.0	10096	97.0	10423
				100.0	10123

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	17990	0.0	19222	0.0	22846
3.0	15891	3.0	16600	3.0	21801
6.1	15406	6.1	16002	6.1	19853
9.1	14479	9.1	15426	9.1	16463
12.1	14037	15.2	14335	15.2	15711
21.2	13608	24.2	13819	30.3	14992
24.2	12790	27.3	13322	33.3	14307
39.4	12399	30.3	12842	42.4	13653
45.5	12020	39.4	12380	54.5	13028
60.6	11653	54.5	11934	57.6	12433
66.7	11297	66.7	11505	75.8	11864
75.8	10952	72.7	11090	84.8	11322
84.8	10618	84.8	10691	90.9	10804
97.0	10293	90.9	10306	97.0	9838
100.0	9979	97.0	9935	100.0	9389
		100.0	9577		

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	49056	0.0	94633	0.0	86911
6.1	44429	6.1	84541	9.1	81336
9.1	40238	9.1	75525	12.1	76118
12.1	36442	21.2	67471	21.2	71235
18.2	33004	24.2	60275	24.2	66665
24.2	29891	27.3	53847	33.3	62388
27.3	27071	33.3	48105	36.4	58386
39.4	24518	36.4	42975	51.5	54640
45.5	22205	48.5	34298	60.6	51135
48.5	20110	51.5	30640	72.7	47855
54.5	18213	60.6	27373	75.8	44785
63.6	14939	66.7	24453	78.8	41912
69.7	13530	72.7	21846	87.9	39223
75.8	12254	84.8	19516	90.9	36707
87.9	11098	90.9	15575	93.9	30086
93.9	10051	97.0	12431	97.0	26350
97.0	8244	100.0	11105	100.0	24659
100.0	7467				

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	86495	0.0	115583	0.0	134522
9.1	82299	6.1	107599	6.1	127620
15.2	78307	12.1	100167	9.1	121072
18.2	74509	27.3	93248	15.2	108967
21.2	70895	30.3	86807	30.3	103376
36.4	67456	42.4	80811	33.3	98072
45.5	64184	48.5	75229	39.4	93040
54.5	61071	57.6	70032	60.6	83738
69.7	58109	66.7	65195	66.7	79442
78.8	55290	72.7	60692	78.8	75366
87.9	52609	84.8	56499	81.8	71499
93.9	50057	93.9	48964	84.8	64350
97.0	35344	97.0	31869	93.9	57917
100.0	33629	100.0	29667	97.0	52126
				100.0	49452

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	149471	0.0	147162	0.0	154074
3.0	139955	3.0	134270	3.0	148815
9.1	131046	6.1	128253	6.1	134091
12.1	114892	9.1	122506	9.1	125093
15.2	107579	18.2	117017	21.2	120823
27.3	100730	21.2	111773	24.2	116699
33.3	94318	30.3	101981	33.3	112716
42.4	88314	45.5	97411	45.5	108868
63.6	82692	54.5	93046	69.7	105152
69.7	77427	75.8	88877	78.8	101563
81.8	67883	78.8	84895	81.8	98096
90.9	63562	84.8	81091	93.9	88390
93.9	59516	87.9	73986	97.0	82459
97.0	45747	90.9	70671	100.0	79644
100.0	42835	97.0	64480		
		100.0	61590		

WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	146073	0.0	169318	0.0	169275
3.0	141734	3.0	150172	3.0	162669
6.1	137524	9.1	144284	9.1	150221
9.1	133438	12.1	138627	15.2	144358
12.1	129475	18.2	133192	18.2	138725
18.2	125628	33.3	127970	21.2	133311
21.2	121896	36.4	122952	27.3	128109
27.3	118275	45.5	118131	30.3	123110
30.3	114762	48.5	113500	36.4	118305
45.5	111353	66.7	109050	42.4	113689
51.5	104835	72.7	100666	57.6	109252
63.6	101721	81.8	96719	69.7	104989
69.7	98699	84.8	92927	78.8	96954
72.7	95768	93.9	89283	81.8	93171
75.8	92923	97.0	82419	87.9	86041
90.9	90162	100.0	79188	90.9	82683
93.9	84885			100.0	79456
100.0	82364				

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	163081	0.0	178748	0.0	162448
3.0	156709	3.0	158155	3.0	142483
9.1	150585	6.1	151832	9.1	133440
12.1	139046	9.1	145762	12.1	129137
21.2	128391	12.1	134341	18.2	124972
24.2	123374	15.2	123814	24.2	120941
30.3	118553	27.3	118864	33.3	117041
36.4	109468	33.3	114112	39.4	113266
42.4	105190	42.4	109550	48.5	109613
54.5	101080	48.5	105170	54.5	106077
63.6	97130	57.6	100965	63.6	102656
72.7	93334	72.7	96929	69.7	99345
81.8	89687	81.8	93054	78.8	96141
87.9	86182	87.9	85762	84.8	93040
90.9	82814	100.0	82334	90.9	90040
93.9	79578			100.0	87136
100.0	76468				

WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	178340	0.0	133991	0.0	115687
6.1	144764	3.0	128127	3.0	107174
9.1	137408	9.1	122519	6.1	103155
12.1	130426	12.1	117157	9.1	95565
15.2	123799	15.2	112030	15.2	91981
24.2	117509	24.2	107127	21.2	88532
36.4	111538	27.3	102438	24.2	85213
39.4	105871	36.4	97955	33.3	82018
45.5	100492	39.4	93668	36.4	78942
51.5	95386	48.5	89568	39.4	75982
75.8	90539	63.6	85648	48.5	73133
84.8	85939	69.7	81900	60.6	70391
90.9	77428	72.7	78315	69.7	67752
93.9	73493	90.9	74888	81.8	65211
97.0	69759	93.9	71610	84.8	62766
100.0	66215	97.0	59873	97.0	58147
		100.0	57253	100.0	55967

TABLE 18

FLOW DURATION DATA AT SUSITNA STATION  
FOR 1996 LOAD CONDITIONS - WATANA OPERATION

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	
0.0	97555	0.0	97727	
3.0	93392	6.1	93026	
9.1	85592	12.1	88551	
18.2	81939	18.2	84291	
21.2	78443	30.3	72702	
30.3	75095	39.4	69204	
36.4	71891	48.5	65875	
42.4	68823	60.6	59690	
48.5	65886	66.7	56818	
54.5	63075	69.7	54085	
63.6	60383	78.8	49006	
72.7	57807	81.8	46649	
78.8	52978	84.8	44405	
81.8	50718	87.9	42269	
84.8	48554	90.9	40235	
90.9	46482	100.0	38300	
93.9	44498			
100.0	42599			
WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	159337	0.0	103477	118259
3.0	147253	9.1	96011	109727
6.1	136085	12.1	89084	101811
9.1	107411	21.2	82657	94465
12.1	99264	27.3	76694	87650
15.2	91736	33.3	71160	81326
24.2	84778	36.4	66026	75459
36.4	78349	39.4	61263	70015
39.4	72406	45.5	56843	64963
42.4	66915	51.5	52742	60276
51.5	61840	60.6	48937	55928
63.6	57150	63.6	45406	51893
72.7	52815	69.7	42130	48149
78.8	48810	72.7	39091	44675
81.8	45108	84.8	36270	41452
84.8	41687	90.9	33654	38461
90.9	38525	93.9	31226	35686
100.0	35603	97.0	26883	30723
		100.0	24943	28506

1/ The flows in this column represent the mean flow for the 8-day period, Sept. 23 to 30.

2/ The values in this column represent the mean flow between Sept. 23 and 30, divided by 7.

**TABLE 19**

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10959	0.0	8035	0.0	8613
3.0	10106	42.4	6809	39.4	7265
6.1	8251	69.7	5375	69.7	5924
48.5	6738	97.0	5250	97.0	4669
66.7	5501	100.0	5127	100.0	4512
97.0	5283				
100.0	5073				

WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9176	0.0	9710	0.0	10319
27.3	7741	9.1	8191	6.1	8705
69.7	6312	66.7	6678	66.7	7098
97.0	4975	97.0	5263	97.0	5594
100.0	4808	100.0	5087	100.0	5407

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10869	0.0	11455	0.0	12042
6.1	9169	9.1	9664	12.1	10159
72.7	7476	72.7	7879	72.7	8283
97.0	5891	97.0	6210	97.0	6528
100.0	5694	100.0	6002	100.0	6310

WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12801	0.0	13169	0.0	12717
24.2	10799	24.2	11109	24.2	10728
72.7	8805	72.7	9058	72.7	8747
97.0	6939	97.0	7139	97.0	6894
100.0	6707	100.0	6900	100.0	6663

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11868	0.0	11437	0.0	11435
24.2	10011	24.2	9649	24.2	9647
69.7	8163	69.7	7867	69.7	7866
97.0	6433	97.0	6200	97.0	6199
100.0	6218	100.0	5993	100.0	5992

WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11418	0.0	11437	0.0	11421
24.2	9633	24.2	9649	24.2	9635
69.7	7854	69.7	7867	69.7	7856
97.0	6190	97.0	6200	97.0	6191
100.0	5983	100.0	5993	100.0	5984

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11461	0.0	11461	0.0	11345
24.2	9669	24.2	9669	24.2	9571
75.8	7884	75.8	7884	75.8	7803
97.0	6214	97.0	6214	97.0	6150
100.0	6006	100.0	6006	100.0	5944

WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11179	0.0	10486	0.0	10024
24.2	9431	24.2	8845	21.2	8456
75.8	7689	75.8	7212	75.8	6895
97.0	6060	97.0	5684	97.0	5433
100.0	5857	100.0	5494	100.0	5252

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9544	0.0	9303	0.0	9116
21.2	8051	18.2	7848	12.1	7690
75.8	6564	75.8	6399	75.8	6270
97.0	5173	97.0	5043	97.0	4942
100.0	5000	100.0	4874	100.0	4776

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	8746	0.0	8390	0.0	7971
6.1	7378	3.0	7078	3.0	6724
75.8	6016	75.8	5772	75.8	5483
97.0	4741	97.0	4549	97.0	4321
100.0	4582	100.0	4397	100.0	4177

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	7573	0.0	6236	0.0	6548
3.0	6388	75.8	5006	75.8	5386
75.8	5209	97.0	4018	78.8	5256
97.0	4105	100.0	3921	97.0	4219
100.0	3968			100.0	4117

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	6875	0.0	7218	0.0	8495
75.8	5518	75.8	5794	9.1	7166
97.0	4430	97.0	4651	81.8	6926
100.0	4323	100.0	4538	84.8	6254
				87.9	5843
				97.0	4605
				100.0	4451

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	8242	0.0	8004	0.0	7913
12.1	7443	24.2	7752	30.3	7371
15.2	7194	27.3	7508	33.3	7114
18.2	6953	30.3	7043	36.4	6627
87.9	6496	33.3	6821	90.9	6396
90.9	5669	90.9	6399	93.9	5170
97.0	4468	93.9	5453	97.0	4179
100.0	4319	97.0	4501	100.0	4033
		100.0	4360		

WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	7555	0.0	7445	0.0	7507
21.2	7288	21.2	7192	21.2	7232
42.4	7030	48.5	6946	51.5	6967
45.5	6782	54.5	6709	57.6	6466
51.5	6542	57.6	6481	63.6	6230
54.5	6311	60.6	6260	66.7	6002
57.6	6088	63.6	6046	93.9	5570
93.9	5465	93.9	5641	97.0	3837
97.0	3954	97.0	3987	100.0	3696
100.0	3814	100.0	3851		

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	7559	0.0	22073	0.0	19507
15.2	7285	3.0	7984	3.0	7800
30.3	7021	30.3	7279	57.6	7177
57.6	6766	57.6	6637	60.6	6603
66.7	6285	87.9	5516	66.7	6075
69.7	6057	90.9	5029	90.9	5142
93.9	5626	97.0	4180	97.0	4353
97.0	3890	100.0	3811	100.0	4005
100.0	3749				
WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	19507	0.0	30834	0.0	20668
3.0	14585	3.0	23116	6.1	17859
6.1	10905	6.1	20999	9.1	16602
9.1	8154	9.1	17330	12.1	14346
24.2	7582	12.1	14302	15.2	13335
63.6	7051	15.2	8848	18.2	11523
69.7	6556	18.2	8038	21.2	9957
87.9	5669	60.6	7302	24.2	8604
90.9	5272	78.8	6633	27.3	7998
100.0	4902	87.9	6026	57.6	7435
		90.9	5474	66.7	6912
		100.0	4973	81.8	6425
				90.9	5972
				93.9	5552
				100.0	5161

TABLE 19

FLOW DURATION DATA AT WATANA DAMSITE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	23535	0.0	16062
3.0	20128	3.0	14340
9.1	18614	9.1	12803
12.1	15920	18.2	12098
15.2	13616	24.2	8610
18.2	11645	51.5	7687
21.2	9210	54.5	6863
24.2	8518	72.7	6127
51.5	7285	81.8	5790
54.5	6737	100.0	5471
81.8	6230		
84.8	5762		
100.0	5329		

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	15653	0.0	18346	20967
6.1	11717	3.0	15095	17252
12.1	11058	6.1	13254	15148
15.2	10435	9.1	10219	11679
21.2	9848	18.2	8973	10255
33.3	9294	42.4	8408	9609
36.4	8771	48.5	7383	8437
54.5	7372	69.7	5692	6505
72.7	5847	100.0	5334	6096
97.0	5518			
100.0	5208			

- 1/ The flows in this column represent the mean flow for the 8-day period, Sept. 23 to 30.
- 2/ The values in this column represent the mean flow between Sept. 23 and 30, divided by 7.

**TABLE 20**

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	15101	0.0	10444	0.0	10833
3.0	13051	9.1	10144	6.1	10430
6.1	11279	18.2	9851	12.1	10042
9.1	10744	21.2	9568	24.2	9668
12.1	10234	27.3	9292	39.4	8963
27.3	9748	42.4	9024	42.4	8629
36.4	9285	48.5	8512	48.5	8308
48.5	8845	51.5	8267	54.5	7999
57.6	8425	54.5	8029	69.7	7702
60.6	8025	57.6	7797	72.7	7139
66.7	7644	63.6	7573	81.8	6874
72.7	7281	69.7	7143	84.8	6618
78.8	6936	78.8	6737	87.9	6372
81.8	6606	84.8	6355	97.0	5475
93.9	6293	93.9	6172	100.0	5272
100.0	5994	100.0	5994		

WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11132	0.0	11143	0.0	11555
6.1	10708	6.1	10723	3.0	11126
12.1	10300	9.1	9555	6.1	9933
27.3	9167	12.1	9195	9.1	9564
33.3	8817	27.3	8848	27.3	9209
45.5	8481	57.6	8515	66.7	7917
63.6	8158	66.7	7587	78.8	7623
69.7	7548	75.8	7301	84.8	7340
75.8	7260	84.8	7026	93.9	7068
78.8	6984	87.9	6761	97.0	5850
87.9	6718	97.0	5579	100.0	5633
90.9	6462	100.0	5369		
97.0	5531				
100.0	5321				

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11925	0.0	12323	0.0	12992
3.0	11489	9.1	10649	12.1	10809
6.1	10273	18.2	10268	48.5	10419
12.1	9897	60.6	9900	72.7	8993
48.5	9535	72.7	8555	78.8	8668
72.7	8214	78.8	8248	84.8	8355
78.8	7914	87.9	7953	97.0	6701
87.9	7624	97.0	6389	100.0	6459
97.0	6096	100.0	6160		
100.0	5873				

WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	14125	0.0	14299	0.0	13560
3.0	13600	6.1	13778	15.2	13078
21.2	13094	21.2	13275	24.2	11316
24.2	11251	24.2	11875	51.5	10914
69.7	10832	30.3	11441	72.7	9444
72.7	9667	72.7	9861	75.8	9108
75.8	9308	75.8	9501	90.9	8784
78.8	8961	78.8	9155	97.0	7070
97.0	7138	97.0	7325	100.0	6819
100.0	6872	100.0	7058		

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12554	0.0	12076	0.0	12063
21.2	12114	21.2	11658	21.2	11646
24.2	10503	24.2	10127	24.2	10119
60.6	10135	51.5	9777	51.5	9769
69.7	8787	69.7	8199	69.7	8195
72.7	8479	84.8	7916	84.8	7912
87.9	8182	97.0	6408	97.0	6407
97.0	6605	100.0	6187	100.0	6186
100.0	6374				

WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12065	0.0	12092	0.0	12021
21.2	11647	21.2	11672	21.2	11606
24.2	10113	24.2	10132	24.2	10084
51.5	9762	51.5	9780	51.5	9736
69.7	8182	69.7	8195	69.7	8167
84.8	7898	84.8	7910	81.8	7885
97.0	6391	97.0	6398	97.0	6386
100.0	6169	100.0	6176	100.0	6166

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12157	0.0	11997	0.0	11881
21.2	11732	24.2	10070	24.2	9971
24.2	10173	66.7	9723	66.7	9628
48.5	9817	75.8	8161	75.8	8080
75.8	8215	84.8	7880	84.8	7802
81.8	7928	97.0	6387	97.0	6323
97.0	6402	100.0	6167	100.0	6105
100.0	6178				

WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11691	0.0	10956	0.0	10473
24.2	9816	24.2	9199	21.2	8798
66.7	9479	60.6	8883	57.6	8496
75.8	7959	75.8	7458	75.8	7137
84.8	7686	84.8	7202	84.8	6892
97.0	6232	97.0	5839	97.0	5591
100.0	6018	100.0	5638	100.0	5400

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10109	0.0	9869	0.0	10000
15.2	9757	15.2	9525	3.0	9627
21.2	8467	18.2	8265	12.1	8269
42.4	8172	39.4	7976	30.3	7961
75.8	6845	75.8	6680	75.8	6583
81.8	6607	81.8	6447	81.8	6338
97.0	5341	97.0	5211	97.0	5045
100.0	5155	100.0	5029	100.0	4857

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	9630	0.0	9365	0.0	8961
3.0	9270	3.0	7722	3.0	7980
6.1	7961	24.2	7430	6.1	7678
24.2	7664	63.6	7148	9.1	7387
75.8	6335	75.8	6126	30.3	7107
84.8	6099	84.8	5894	60.6	6837
97.0	4854	97.0	4676	75.8	6329
100.0	4672	100.0	4499	78.8	5858
				87.9	5636
				97.0	4470
				100.0	4301

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	10436	0.0	12060	0.0	13350
3.0	9501	3.0	10905	3.0	12799
6.1	9065	6.1	10370	9.1	11279
9.1	7874	9.1	9861	12.1	10814
12.1	7513	12.1	9377	21.2	9940
36.4	7168	18.2	8916	30.3	9529
48.5	6840	24.2	8479	45.5	9136
72.7	6526	27.3	8062	51.5	8759
78.8	5941	42.4	7667	60.6	8397
84.8	5668	45.5	7290	66.7	8051
90.9	5408	57.6	6932	72.7	7719
97.0	4482	78.8	6592	81.8	7400
100.0	4277	81.8	6268	84.8	7095
		87.9	5961	90.9	6802
		90.9	5668	93.9	6521
		97.0	4874	97.0	6252
		100.0	4634	100.0	5994

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	16515	0.0	19508	0.0	17115
3.0	15737	3.0	18543	3.0	15797
6.1	14996	6.1	15926	9.1	13457
9.1	14289	12.1	15139	21.2	12928
15.2	12364	15.2	14390	30.3	12420
27.3	11781	18.2	13679	33.3	11932
36.4	11227	24.2	13002	48.5	11463
51.5	10698	42.4	12360	60.6	11013
57.6	9714	60.6	11748	69.7	10580
66.7	8820	66.7	11168	75.8	10165
81.8	8009	72.7	10615	78.8	9382
84.8	7632	75.8	10091	84.8	9013
90.9	7272	78.8	9117	90.9	8659
93.9	6930	84.8	8667	97.0	8319
100.0	6603	87.9	8238	100.0	7992
		93.9	7831		
		100.0	7444		

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	17531	0.0	15945	0.0	13955
3.0	15486	6.1	15376	3.0	13552
9.1	14859	9.1	14827	6.1	13160
12.1	14257	12.1	14298	21.2	12779
24.2	13125	18.2	13787	30.3	12410
36.4	12594	21.2	13295	39.4	12051
45.5	12084	24.2	12820	48.5	11703
54.5	11594	45.5	11921	54.5	11364
60.6	11125	57.6	11496	60.6	11036
69.7	10674	60.6	11085	63.6	10407
72.7	10242	63.6	10308	66.7	9814
78.8	9429	66.7	9940	72.7	9530
81.8	9047	72.7	9585	81.8	9255
93.9	8329	81.8	9243	93.9	8727
100.0	7992	90.9	8595	97.0	8230
		93.9	8288	100.0	7992
		100.0	7992		

WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12281	0.0	14794	0.0	14515
6.1	11738	3.0	14322	3.0	14066
12.1	11476	6.1	12995	6.1	12801
15.2	11219	9.1	12581	15.2	12022
24.2	10968	12.1	12180	18.2	11650
36.4	10723	15.2	11791	27.3	11290
51.5	10249	18.2	11415	30.3	10941
60.6	10020	24.2	11051	36.4	10603
66.7	9796	33.3	10699	39.4	10275
69.7	9153	45.5	10358	48.5	9957
90.9	8949	51.5	10027	54.5	9649
93.9	8175	60.6	9707	66.7	9351
100.0	7992	69.7	9398	75.8	9062
		72.7	9098	90.9	8247
		90.9	8255	100.0	7992
		100.0	7992		

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	14714	0.0	26083	0.0	23023
3.0	13362	3.0	14895	3.0	13948
9.1	12531	9.1	13151	9.1	12478
12.1	12134	15.2	12357	21.2	11802
15.2	11379	30.3	11611	27.3	11163
30.3	11020	48.5	10910	45.5	10558
33.3	10671	63.6	9633	54.5	9986
39.4	10334	78.8	9052	66.7	9445
42.4	10007	93.9	8505	90.9	8450
63.6	9384	100.0	7992	100.0	7992
75.8	9088				
90.9	8253				
100.0	7992				

WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	23023	0.0	37066	0.0	24996
3.0	20597	3.0	29092	3.0	23540
6.1	19481	6.1	24753	6.1	20878
9.1	18426	9.1	21062	9.1	19661
12.1	13192	12.1	16530	12.1	18516
18.2	11802	18.2	11967	15.2	16422
30.3	11163	21.2	11039	21.2	15465
45.5	10558	54.5	10183	24.2	12165
48.5	9986	66.7	9393	30.3	11456
63.6	9445	90.9	8664	36.4	10789
90.9	8450	100.0	7992	54.5	10160
100.0	7992			63.6	9569
				72.7	9011
				90.9	8486
				100.0	7992

TABLE 20

FLOW DURATION DATA AT GOLD CREEK  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	29100	0.0	22451
3.0	23729	3.0	17563
9.1	20711	6.1	16517
12.1	18077	9.1	15534
15.2	16888	15.2	14609
18.2	15778	21.2	13739
21.2	14740	30.3	12151
24.2	12866	33.3	11428
27.3	12020	39.4	10747
36.4	11229	60.6	10107
48.5	10491	69.7	9505
63.6	9801	75.8	8939
75.8	9157	81.8	7907
78.8	8555	84.8	7436
100.0	7992	100.0	6993

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	21879	0.0	21935	25069
3.0	19091	3.0	20487	23414
6.1	15561	6.1	16693	19077
9.1	14536	9.1	14562	16642
12.1	13579	12.1	12703	14518
15.2	12684	15.2	11865	13560
30.3	11849	21.2	11082	12665
42.4	11068	30.3	10350	11829
60.6	10339	45.5	9667	11048
69.7	9658	63.6	9029	10319
75.8	9022	75.8	8433	9638
81.8	7872	81.8	7357	8408
87.9	7354	84.8	6871	7853
90.9	6869	93.9	6418	7334
97.0	6417	100.0	5994	6850
100.0	5994			

1/ The flows in this column represent the mean flow for the 8-day period, Sept. 23 to 30.

2/ The values in this column represent the mean flow between Sept. 23 and 30, divided by 7.

**TABLE 21**

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK= 1 ( 1 OCT- 7 OCT)		WEEK= 2 ( 8 OCT-14 OCT)		WEEK= 3 (15 OCT-21 OCT)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	33220	0.0	26546	0.0	20013
3.0	28728	6.1	24132	9.1	19282
6.1	27370	9.1	21938	12.1	18578
9.1	24843	21.2	20917	21.2	17899
15.2	23669	27.3	19943	30.3	17245
27.3	22550	33.3	19015	36.4	16615
33.3	21484	51.5	16481	42.4	16008
39.4	20468	66.7	15714	51.5	15423
48.5	19500	72.7	14983	57.6	14860
60.6	18578	81.8	14285	69.7	14317
72.7	17700	90.9	13620	72.7	13794
75.8	16863	93.9	12986	75.8	13290
81.8	15307	97.0	11256	84.8	12805
87.9	14583	100.0	10732	87.9	12337
90.9	13894			90.9	11886
100.0	13237			93.9	11034
				97.0	10242
				100.0	9868

WEEK= 4 (22 OCT-28 OCT)		WEEK= 5 (29 OCT- 4 NOV)		WEEK= 6 ( 5 NOV-11 NOV)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	21132	0.0	16958	0.0	17374
3.0	18007	6.1	16443	3.0	16763
9.1	17301	9.1	15460	6.1	14525
12.1	16622	12.1	14991	18.2	14014
21.2	15970	15.2	14536	30.3	13521
33.3	15344	27.3	14094	48.5	13045
42.4	14742	42.4	13666	54.5	12586
54.5	14164	48.5	13252	60.6	12143
60.6	13609	54.5	12849	78.8	11716
72.7	13075	57.6	12459	84.8	10151
75.8	12562	69.7	12081	93.9	9794
84.8	11596	75.8	11714	97.0	9117
90.9	11141	84.8	10679	100.0	8796
93.9	10284	90.9	10355		
100.0	9881	93.9	9736		
		100.0	9441		

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK= 7 (12 NOV-18 NOV)		WEEK= 8 (19 NOV-25 NOV)		WEEK= 9 (26 NOV- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	16557	0.0	16278	0.0	17078
3.0	15984	6.1	15734	3.0	16473
6.1	15432	9.1	15208	9.1	15327
12.1	14383	15.2	14209	15.2	14784
15.2	13886	24.2	13734	18.2	14260
36.4	13406	39.4	13275	39.4	13755
51.5	12943	60.6	12831	48.5	13268
60.6	12495	63.6	12402	66.7	12798
69.7	12063	69.7	11987	72.7	12345
78.8	11646	78.8	11587	75.8	11908
84.8	10480	81.8	11199	81.8	11079
90.9	10117	84.8	10825	97.0	8923
97.0	8789	87.9	10463	100.0	8607
100.0	8486	97.0	8828		
		100.0	8532		

WEEK=10 ( 3 DEC- 9 DEC)		WEEK=11 (10 DEC-16 DEC)		WEEK=12 (17 DEC-23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	17962	0.0	17735	0.0	16641
3.0	17311	3.0	17118	9.1	16092
6.1	16684	9.1	16522	18.2	15561
12.1	16079	21.2	15392	21.2	15047
21.2	15497	30.3	14857	24.2	14551
27.3	14935	36.4	14340	33.3	14070
30.3	14394	51.5	13841	48.5	13606
39.4	13873	63.6	13359	63.6	12723
57.6	13370	72.7	12446	72.7	12303
66.7	12886	81.8	11595	75.8	11897
75.8	12419	90.9	11191	81.8	11505
81.8	11535	97.0	9375	90.9	10758
90.9	11117	100.0	9049	97.0	9096
97.0	9244			100.0	8796
100.0	8909				

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	15522	0.0	14901	0.0	14552
9.1	15020	9.1	14424	12.1	14098
18.2	14534	21.2	13962	21.2	13232
21.2	14064	24.2	13082	27.3	12819
27.3	13610	30.3	12664	33.3	12420
33.3	13170	36.4	12258	48.5	12032
51.5	12744	60.6	11866	60.6	11657
60.6	12332	69.7	11118	69.7	10941
66.7	11934	72.7	10418	72.7	10600
69.7	11548	87.9	10084	78.8	10269
72.7	11175	90.9	9761	87.9	9949
78.8	10813	93.9	9449	90.9	9639
87.9	10126	97.0	8296	93.9	9338
93.9	9798	100.0	8030	97.0	8227
97.0	8591			100.0	7970
100.0	8314				

WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	14621	0.0	14667	0.0	14303
6.1	14159	6.1	14202	12.1	13866
21.2	13280	21.2	13316	21.2	13442
24.2	12861	24.2	12894	24.2	12632
27.3	12456	27.3	12485	27.3	12246
36.4	12063	33.3	12089	39.4	11872
57.6	11682	51.5	11706	54.5	11509
69.7	10611	66.7	11335	69.7	10164
72.7	10276	69.7	10291	84.8	9853
84.8	9952	84.8	9965	87.9	9552
90.9	9638	87.9	9649	93.9	9260
93.9	9334	93.9	9343	97.0	8178
97.0	8211	97.0	8213	100.0	7928
100.0	7952	100.0	7953		

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	14152	0.0	13948	0.0	13703
15.2	13727	18.2	13535	21.2	13296
24.2	12526	24.2	13134	24.2	12901
27.3	12150	27.3	12001	27.3	12147
39.4	11785	45.5	11645	30.3	11786
60.6	11431	66.7	11300	48.5	11437
75.8	10117	75.8	10020	66.7	11097
84.8	9813	81.8	9723	75.8	9837
87.9	9518	90.9	9435	84.8	9545
93.9	9232	93.9	9155	93.9	9262
97.0	8172	97.0	8118	97.0	7967
100.0	7926	100.0	7877	100.0	7730

WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	13469	0.0	12850	0.0	12210
24.2	11952	15.2	12469	18.2	11518
30.3	11600	21.2	12099	21.2	10866
42.4	11259	24.2	11393	27.3	10554
66.7	10927	27.3	11055	39.4	10250
75.8	9696	42.4	10727	66.7	9956
81.8	9411	60.6	10409	75.8	8859
87.9	9134	75.8	9229	78.8	8605
97.0	7866	78.8	8956	84.8	8358
100.0	7634	87.9	8690	90.9	8117
		90.9	8433	97.0	7224
		97.0	7476	100.0	7016
		100.0	7255		

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	12012	0.0	11671	0.0	12225
3.0	11655	9.1	11330	3.0	11440
18.2	10973	18.2	10064	9.1	11066
21.2	10330	30.3	9770	12.1	10018
30.3	10024	57.6	9484	39.4	9690
51.5	9726	69.7	9208	60.6	9374
72.7	9437	75.8	8424	69.7	9068
75.8	8620	78.8	8178	75.8	8486
78.8	8364	84.8	7940	78.8	8208
84.8	8116	90.9	7708	84.8	7940
90.9	7875	97.0	6846	87.9	7681
97.0	6980	100.0	6646	97.0	6726
100.0	6772			100.0	6506

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	11987	0.0	11862	0.0	11735
3.0	10871	3.0	10468	6.1	11091
6.1	9858	6.1	10145	9.1	10783
15.2	9542	12.1	9833	12.1	10483
51.5	9236	18.2	9531	21.2	10192
63.6	8940	39.4	9237	27.3	9909
72.7	8653	54.5	8953	30.3	9365
75.8	8107	66.7	8677	39.4	9105
78.8	7847	72.7	8410	54.5	8852
84.8	7596	78.8	7901	72.7	8606
97.0	6667	87.9	7657	78.8	8367
100.0	6454	93.9	7422	81.8	8134
		97.0	6757	84.8	7688
		100.0	6549	93.9	7474
				97.0	7065
				100.0	6868

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	20136	0.0	31790	0.0	43762
3.0	16365	6.1	29749	3.0	37876
6.1	15538	9.1	27839	6.1	32782
12.1	14007	12.1	24379	12.1	30498
15.2	13299	15.2	21349	18.2	28373
21.2	11989	21.2	19978	27.3	26396
36.4	11384	30.3	17495	42.4	24557
42.4	10808	36.4	16372	48.5	22846
51.5	10262	45.5	15321	57.6	21254
63.6	9744	51.5	14337	60.6	19773
81.8	9251	57.6	13416	69.7	18396
87.9	8340	63.6	12555	75.8	17114
97.0	7919	72.7	11749	81.8	15922
100.0	7518	75.8	10995	87.9	14812
		84.8	10289	90.9	13780
		97.0	9628	93.9	11927
		100.0	9010	100.0	11096

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	54753	0.0	53014	0.0	99810
3.0	51329	12.1	50458	3.0	68197
6.1	48120	15.2	48024	6.1	63196
9.1	39646	24.2	45709	9.1	54266
18.2	37167	33.3	43504	21.2	50286
24.2	32665	36.4	41406	33.3	46598
33.3	30623	42.4	39410	36.4	43180
39.4	28708	57.6	37509	39.4	40013
63.6	26913	60.6	35700	57.6	37078
75.8	25230	66.7	32340	78.8	34359
78.8	20787	72.7	30781	81.8	31839
81.8	19488	78.8	29296	97.0	25335
87.9	18269	81.8	27884	100.0	23477
90.9	17127	84.8	26539		
100.0	16056	90.9	24041		
		93.9	22882		
		97.0	21778		
		100.0	20728		

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	82420	0.0	78345	0.0	77588
6.1	70684	3.0	68859	3.0	72201
12.1	67156	9.1	63182	6.1	69649
15.2	63805	12.1	60522	9.1	64813
18.2	60620	15.2	57973	12.1	62523
24.2	57594	21.2	55532	15.2	56126
27.3	54720	27.3	53193	18.2	54142
36.4	51989	39.4	48808	33.3	52229
39.4	49394	48.5	46753	36.4	50383
51.5	46929	63.6	44784	57.6	48603
60.6	44586	69.7	42898	69.7	46885
66.7	42361	72.7	41092	72.7	45228
69.7	40247	78.8	39361	84.8	42088
78.8	38238	84.8	36116	87.9	40601
81.8	36330	100.0	34595	100.0	39166
87.9	34516				
90.9	32794				
100.0	31157				
WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	58700	0.0	88482	0.0	78842
3.0	57365	3.0	70756	3.0	75634
6.1	56061	6.1	64703	6.1	72557
12.1	54786	9.1	61874	9.1	69605
15.2	53540	15.2	59168	12.1	64056
24.2	51133	21.2	56581	15.2	61450
27.3	49970	36.4	54107	18.2	58950
36.4	48834	42.4	51741	27.3	56552
42.4	47723	54.5	49478	33.3	54251
48.5	46638	57.6	47315	42.4	52044
60.6	45578	63.6	45246	48.5	49926
72.7	44541	81.8	43267	63.6	47895
78.8	43528	93.9	41375	69.7	45946
81.8	42539	97.0	39566	78.8	44077
84.8	41571	100.0	37836	81.8	42284
93.9	39702			87.9	40563
97.0	38799			90.9	38913
100.0	37917			93.9	37330
				100.0	35811

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	69090	0.0	73043	0.0	78460
3.0	66542	3.0	70027	3.0	65150
6.1	64087	9.1	64363	6.1	62191
9.1	61723	12.1	61705	15.2	56672
12.1	57253	18.2	59157	27.3	54098
24.2	55141	27.3	56715	30.3	51641
33.3	53107	30.3	54373	42.4	49296
42.4	51148	36.4	52127	54.5	47058
51.5	49262	48.5	49975	63.6	44921
57.6	47444	51.5	47911	72.7	42881
63.6	45694	69.7	45933	81.8	40934
75.8	42385	81.8	44036	93.9	37301
87.9	39316	84.8	42218	97.0	33990
90.9	37866	90.9	40475	100.0	32447
97.0	35124	93.9	37201		
100.0	33828	97.0	34192		
		100.0	32780		

WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	97405	0.0	83184	0.0	61032
3.0	76303	9.1	60511	6.1	57351
6.1	64840	15.2	55883	9.1	53892
15.2	55100	18.2	51610	12.1	47587
33.3	50793	21.2	47663	15.2	42020
39.4	46823	48.5	44018	33.3	39485
57.6	43163	60.6	40651	48.5	37104
69.7	39789	75.8	37542	60.6	34866
84.8	36679	84.8	34671	75.8	32763
93.9	31169	90.9	32020	87.9	28930
97.0	22508	97.0	19866	97.0	19918
100.0	20748	100.0	18347	100.0	18716

TABLE 21

FLOW DURATION DATA AT SUNSHINE  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	60065	0.0	52385
3.0	56657	3.0	49362
6.1	50410	6.1	46513
9.1	47549	12.1	43829
12.1	44851	15.2	41299
21.2	42306	24.2	38916
27.3	39906	27.3	36670
33.3	37642	30.3	34553
36.4	35506	39.4	32559
45.5	33491	48.5	30680
57.6	31591	66.7	28909
69.7	29798	69.7	27241
78.8	28107	72.7	25669
81.8	26512	81.8	24187
84.8	25008	87.9	22791
93.9	23589	93.9	21476
97.0	20988	97.0	17968
100.0	19797	100.0	16931

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	60825	0.0	69238	79129
3.0	52206	3.0	36373	41569
6.1	44809	15.2	33177	37917
12.1	35631	24.2	30262	34586
24.2	33010	30.3	27604	31547
30.3	30582	36.4	25178	28775
45.5	28333	54.5	22966	26247
51.5	26249	75.8	20948	23941
63.6	24318	84.8	17429	19919
78.8	22530	93.9	13227	15117
87.9	20873	100.0	12065	13788
93.9	16597			
97.0	15377			
100.0	14246			

1/ The flows in this column represent the mean flow for the 8-day period, Sept. 23 to 30.

2/ The values in this column represent the mean flow between Sept. 23 and 30, divided by 7.

**TABLE 22**



TABLE 22

FLOW DURATION DATA AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK= 7 (12 NOV--18 NOV)		WEEK= 8 (19 NOV--25 NOV)		WEEK= 9 (26 NOV-- 2 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	41899	0.0	30812	0.0	28534
3.0	31306	3.0	25605	6.1	27414
6.1	27861	6.1	24447	9.1	25304
12.1	26284	15.2	23342	12.1	24311
21.2	24796	24.2	22286	15.2	23357
30.3	23392	33.3	21279	27.3	21560
36.4	22067	42.4	20316	45.5	20713
42.4	20818	45.5	19398	54.5	19900
54.5	19639	60.6	17683	60.6	18369
69.7	18527	69.7	16883	63.6	17648
75.8	17478	81.8	16120	69.7	16956
84.8	16488	97.0	13396	87.9	16290
93.9	15555	100.0	12790	90.9	15651
97.0	14674			97.0	13879
100.0	13843			100.0	13335

WEEK=10 ( 3 DEC-- 9 DEC)		WEEK=11 (10 DEC--16 DEC)		WEEK=12 (17 DEC--23 DEC)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	27876	0.0	26399	0.0	24024
3.0	24305	3.0	24281	3.0	23102
6.1	23220	6.1	22333	6.1	21364
12.1	22183	12.1	21418	12.1	20544
15.2	21192	24.2	20541	21.2	19756
27.3	20246	33.3	19699	36.4	18998
48.5	19342	48.5	18893	45.5	18269
57.6	18478	63.6	18119	60.6	17568
63.6	17653	66.7	17377	63.6	16894
69.7	16864	72.7	16665	69.7	16246
78.8	16111	84.8	15982	81.8	15623
90.9	15392	90.9	15328	93.9	13360
93.9	14048	93.9	14700	97.0	11880
97.0	12248	97.0	12435	100.0	11425
100.0	11701	100.0	11926		

TABLE 22

FLOW DURATION DATA AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=13 (24 DEC-30 DEC)		WEEK=14 (31 DEC- 6 JAN)		WEEK=15 ( 7 JAN-13 JAN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	22238	0.0	21126	0.0	20338
3.0	21423	3.0	20472	3.0	19785
6.1	20638	6.1	19838	6.1	19247
9.1	19882	12.1	19223	12.1	18724
15.2	19154	15.2	18628	15.2	18215
18.2	18452	24.2	18051	21.2	17720
30.3	17776	30.3	17492	24.2	17238
51.5	17124	42.4	16950	36.4	16769
60.6	16497	57.6	16425	54.5	16313
66.7	15892	66.7	15916	66.7	15870
78.8	15310	72.7	15423	69.7	15438
87.9	14749	81.8	14945	81.8	15018
90.9	13688	84.8	14482	84.8	14610
93.9	13186	87.9	14034	87.9	14213
97.0	11357	93.9	12374	93.9	12729
100.0	10941	97.0	11991	97.0	12383
		100.0	11619	100.0	12046
WEEK=16 (14 JAN-20 JAN)		WEEK=17 (21 JAN-27 JAN)		WEEK=18 (28 JAN- 3 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	19905	0.0	19567	0.0	19441
3.0	18924	3.0	18593	3.0	18974
6.1	18452	12.1	18125	6.1	18072
18.2	17543	18.2	17668	18.2	17637
24.2	17105	24.2	17223	21.2	17213
36.4	16678	33.3	16789	27.3	16798
51.5	16262	42.4	16366	33.3	16394
54.5	15856	45.5	15953	48.5	16000
75.8	15075	63.6	15552	54.5	15615
87.9	14699	72.7	15160	60.6	15239
90.9	13974	84.8	14778	78.8	14873
93.9	13286	87.9	14405	81.8	14515
97.0	12631	93.9	13344	87.9	14166
100.0	12316	97.0	12360	93.9	13492
		100.0	12049	97.0	12541
				100.0	12240

TABLE 22

FLOW DURATION DATA AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=19 ( 4 FEB-10 FEB)		WEEK=20 (11 FEB-17 FEB)		WEEK=21 (18 FEB-24 FEB)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	19370	0.0	19764	0.0	20008
6.1	18921	6.1	17790	3.0	19463
9.1	18483	15.2	17328	6.1	17916
12.1	17636	24.2	16878	9.1	17428
21.2	17227	39.4	16440	21.2	16953
27.3	16828	45.5	16013	30.3	16492
36.4	16438	51.5	15598	36.4	16042
48.5	16057	63.6	15193	45.5	15605
60.6	15684	78.8	14798	60.6	15180
72.7	15321	87.9	14414	72.7	14767
75.8	14966	90.9	13675	81.8	14365
84.8	14619	93.9	12974	90.9	13593
90.9	13949	97.0	12310	93.9	12863
97.0	12700	100.0	11990	97.0	12172
100.0	12406			100.0	11840

WEEK=22 (25 FEB- 3 MAR)		WEEK=23 ( 4 MAR-10 MAR)		WEEK=24 (11 MAR-17 MAR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	19235	0.0	18173	0.0	17984
6.1	17338	3.0	17717	3.0	16567
18.2	16893	6.1	16839	6.1	15685
21.2	16460	9.1	16416	15.2	14849
30.3	16038	15.2	16004	24.2	14449
36.4	15627	18.2	15602	30.3	14059
39.4	15227	27.3	15210	45.5	13679
51.5	14836	33.3	14828	60.6	13310
66.7	14456	45.5	14456	69.7	12951
72.7	14085	54.5	14093	81.8	12601
87.9	13724	63.6	13740	87.9	12261
90.9	13373	69.7	13395	90.9	11930
93.9	13030	78.8	13058	93.9	11295
97.0	12053	90.9	12730	97.0	10990
100.0	11744	93.9	12099	100.0	10693
		97.0	11499		
		100.0	11211		

TABLE 22

FLOW DURATION DATA AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=25 (18 MAR-24 MAR)		WEEK=26 (25 MAR-31 MAR)		WEEK=27 ( 1 APR- 7 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	17074	0.0	17120	0.0	17632
3.0	16199	3.0	15750	3.0	16631
6.1	14970	6.1	14899	6.1	14798
15.2	14581	15.2	14490	9.1	14372
21.2	14203	21.2	14093	15.2	13958
24.2	13834	24.2	13707	21.2	13556
30.3	13475	27.3	13331	24.2	13166
42.4	13125	39.4	12966	39.4	12787
45.5	12785	48.5	12610	51.5	12419
72.7	12453	69.7	12264	69.7	12062
84.8	12129	84.8	11928	75.8	11714
87.9	11815	87.9	11601	87.9	11377
93.9	10918	90.9	11283	90.9	11050
97.0	10635	93.9	10380	93.9	10732
100.0	10359	100.0	10096	97.0	10423
				100.0	10123

WEEK=28 ( 8 APR-14 APR)		WEEK=29 (15 APR-21 APR)		WEEK=30 (22 APR-28 APR)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	16533	0.0	17824	0.0	22846
3.0	15677	3.0	15820	3.0	20236
6.1	14476	6.1	15355	6.1	18664
9.1	14096	12.1	14904	9.1	16533
18.2	13367	15.2	14466	15.2	15878
21.2	13016	18.2	13628	27.3	15248
24.2	12675	21.2	13228	30.3	14644
42.4	12343	24.2	12839	33.3	14064
51.5	12019	36.4	12462	42.4	13507
69.7	11704	60.6	12096	57.6	12972
72.7	11397	69.7	11740	60.6	12458
84.8	10807	75.8	11395	72.7	11964
93.9	10524	78.8	11060	84.8	11490
97.0	10248	84.8	10735	87.9	11035
100.0	9979	90.9	10420	100.0	10597
		100.0	10114		

TABLE 22

FLOW DURATION DATA AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=31 (29 APR- 5 MAY)		WEEK=32 ( 6 MAY-12 MAY)		WEEK=33 (13 MAY-19 MAY)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	49056	0.0	94633	0.0	85602
6.1	44795	6.1	85015	12.1	80392
9.1	40903	9.1	76374	15.2	75500
12.1	37350	15.2	68612	21.2	70906
18.2	31143	21.2	61639	24.2	66591
24.2	28438	27.3	55374	33.3	58733
33.3	25967	33.3	44690	51.5	55158
39.4	23712	42.4	40148	60.6	51802
48.5	19771	48.5	32402	72.7	48649
54.5	18053	60.6	29109	75.8	45689
60.6	16485	66.7	26151	78.8	42908
66.7	15053	69.7	23493	81.8	40297
69.7	13746	75.8	21105	87.9	37845
72.7	12551	87.9	18960	93.9	29440
84.8	11461	90.9	15302	97.0	27649
93.9	10466	97.0	13747	100.0	25966
97.0	9556	100.0	12350		
100.0	8726				

WEEK=34 (20 MAY-26 MAY)		WEEK=35 (27 MAY- 2 JUN)		WEEK=36 ( 3 JUN- 9 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	85119	0.0	114139	0.0	134522
15.2	81230	6.1	106325	6.1	127529
18.2	73976	18.2	99047	9.1	120899
24.2	70596	27.3	92266	15.2	108656
36.4	67370	30.3	85950	30.3	103008
45.5	64292	42.4	80066	33.3	97653
54.5	61354	48.5	74585	42.4	92577
69.7	58550	60.6	69479	60.6	83202
72.7	55875	66.7	64722	69.7	78877
84.8	53322	69.7	60291	78.8	74776
93.9	50885	84.8	56164	81.8	70889
97.0	36678	93.9	48737	84.8	67204
100.0	35002	97.0	31848	90.9	63710
		100.0	29667	93.9	60398
				97.0	51460
				100.0	48785

TABLE 22

FLOW DURATION DATA AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=37 (10 JUN-16 JUN)		WEEK=38 (17 JUN-23 JUN)		WEEK=39 (24 JUN-30 JUN)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	150157	0.0	147162	0.0	154074
3.0	140449	3.0	134120	3.0	148876
9.1	131369	6.1	128038	6.1	134309
12.1	114932	12.1	122233	9.1	125398
15.2	107501	18.2	116690	21.2	117079
27.3	100551	21.2	111399	33.3	113129
36.4	94050	30.3	101526	45.5	109312
45.5	87970	45.5	96923	69.7	105623
66.7	82283	60.6	92528	78.8	102059
69.7	76963	75.8	88333	81.8	98616
81.8	67333	81.8	84327	87.9	95288
90.9	62980	84.8	80504	93.9	88967
93.9	58908	87.9	73369	97.0	83064
97.0	45089	90.9	70042	100.0	80262
100.0	42174	97.0	63834		
		100.0	60940		

WEEK=40 ( 1 JUL- 7 JUL)		WEEK=41 ( 8 JUL-14 JUL)		WEEK=42 (15 JUL-21 JUL)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	146210	0.0	169318	0.0	169652
3.0	141908	3.0	150172	3.0	163012
9.1	133679	9.1	144284	9.1	150502
12.1	129745	12.1	138627	15.2	144612
15.2	125927	21.2	133192	18.2	138953
21.2	122222	33.3	127970	21.2	133515
27.3	118625	36.4	122952	27.3	128289
30.3	115135	45.5	118131	30.3	123268
42.4	111747	48.5	113500	36.4	118444
51.5	105267	63.6	109050	42.4	113809
63.6	102169	72.7	100666	57.6	109354
69.7	96245	81.8	96719	69.7	105075
78.8	93412	84.8	92927	78.8	97011
87.9	90664	93.9	89283	81.8	93214
93.9	85406	97.0	82419	87.9	82693
100.0	82893	100.0	79188	100.0	79456

TABLE 22

FLOW DURATION DATA AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=43 (22 JUL-28 JUL)		WEEK=44 (29 JUL- 4 AUG)		WEEK=45 ( 5 AUG-11 AUG)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	163734	0.0	178748	0.0	162448
3.0	157210	3.0	158155	3.0	142483
9.1	150945	6.1	151832	9.1	133440
12.1	139155	9.1	145762	12.1	129137
21.2	128286	12.1	134341	21.2	124972
27.3	123174	15.2	128970	24.2	120941
30.3	118266	18.2	123814	33.3	117041
36.4	113554	27.3	118864	39.4	113266
39.4	109029	33.3	114112	48.5	109613
45.5	104684	42.4	109550	54.5	106077
60.6	100513	48.5	105170	66.7	102656
69.7	96508	57.6	100965	72.7	99345
75.8	92662	75.8	96929	78.8	96141
81.8	88970	81.8	93054	81.8	93040
90.9	82021	84.8	89334	90.9	90040
93.9	78752	87.9	85762	100.0	87136
100.0	75614	100.0	82334		

WEEK=46 (12 AUG-18 AUG)		WEEK=47 (19 AUG-25 AUG)		WEEK=48 (26 AUG- 1 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	178924	0.0	133991	0.0	115687
6.1	137310	3.0	128127	3.0	107174
9.1	130230	9.1	122519	6.1	103155
15.2	123514	15.2	112030	9.1	95565
24.2	117145	24.2	102438	15.2	91981
33.3	111104	33.3	97955	21.2	88532
39.4	105375	39.4	93668	24.2	85213
48.5	99941	48.5	89568	33.3	82018
57.6	94788	60.6	85648	36.4	78942
78.8	89900	69.7	81900	39.4	75982
84.8	85264	84.8	78315	48.5	73133
90.9	76697	90.9	74888	57.6	70391
93.9	72742	93.9	71610	66.7	67752
97.0	68991	97.0	59873	78.8	65211
100.0	65434	100.0	57253	81.8	62766
				93.9	60413
				97.0	58147
				100.0	55967

TABLE 22

FLOW DURATION DATA AT SUSITNA STATION  
FOR 2001 LOAD CONDITIONS - WATANA OPERATION

WEEK=49 ( 2 SEP- 8 SEP)		WEEK=50 ( 9 SEP-15 SEP)	
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE (CFS)
0.0	97555	0.0	95977
3.0	93392	9.1	90985
9.1	85592	15.2	86253
15.2	81939	30.3	73482
21.2	78443	33.3	69660
30.3	75095	39.4	66037
36.4	71891	54.5	62602
42.4	68823	60.6	59346
48.5	65886	66.7	56259
54.5	63075	75.8	50559
63.6	60383	81.8	47930
72.7	57807	84.8	45437
75.8	50718	87.9	43073
78.8	48554	90.9	40833
87.9	46482	97.0	36696
90.9	44498	100.0	34787
100.0	42599		

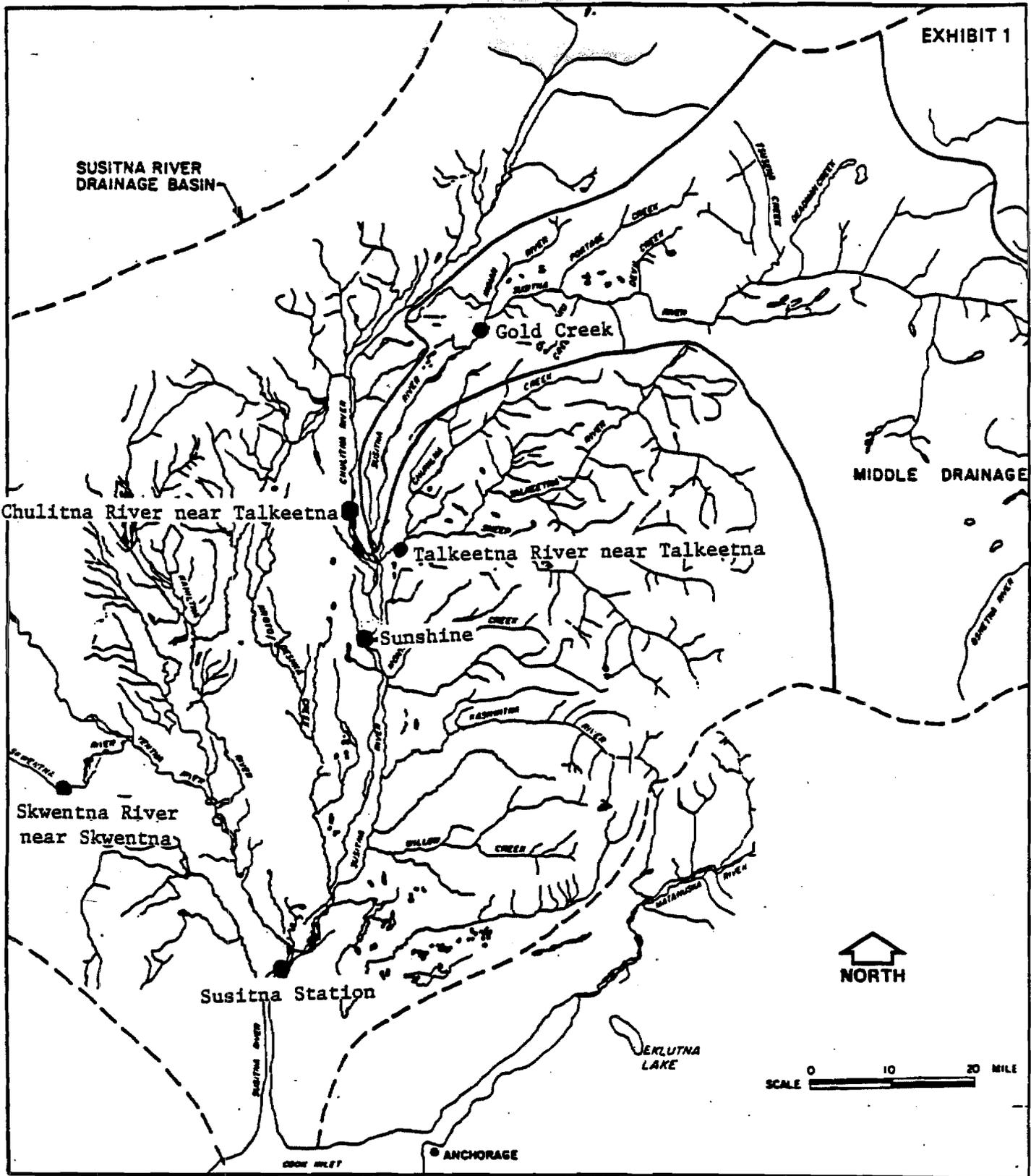
  

WEEK=51 (16 SEP-22 SEP)		WEEK=52 (23 SEP-30 SEP)		
PERCENT (%)	DISCHARGE (CFS)	PERCENT (%)	DISCHARGE <sup>1/</sup> (CFS)	DISCHARGE <sup>2/</sup> (CFS)
0.0	159337	0.0	101943	116506
3.0	147317	9.1	94771	108310
6.1	136203	12.1	88104	100690
9.1	107643	21.2	81906	93606
12.1	99522	27.3	76143	87021
15.2	92014	33.3	70787	80899
21.2	85072	36.4	61177	69917
33.3	78654	45.5	56873	64998
39.4	72720	51.5	52872	60425
42.4	67234	60.6	49152	56174
48.5	62162	63.6	45694	52222
63.6	57472	69.7	42480	48548
72.7	53136	72.7	39491	45133
78.8	45421	84.8	36713	41958
87.9	41994	87.9	34130	39006
90.9	38826	93.9	31729	36262
100.0	35897	97.0	27422	31339
		100.0	25492	29134

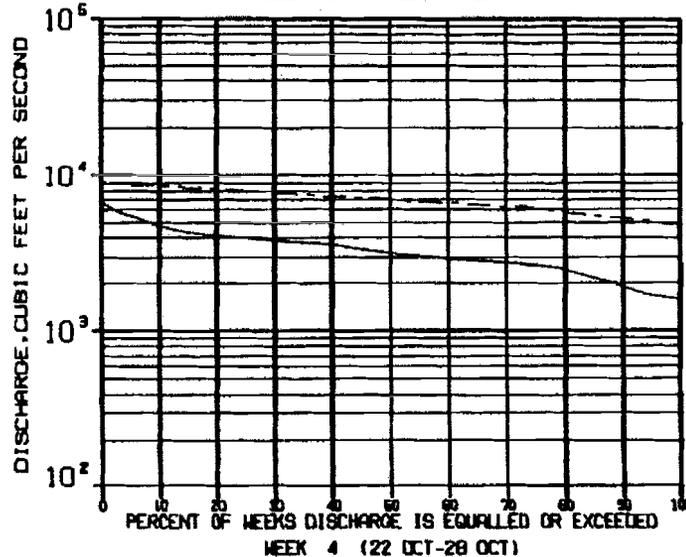
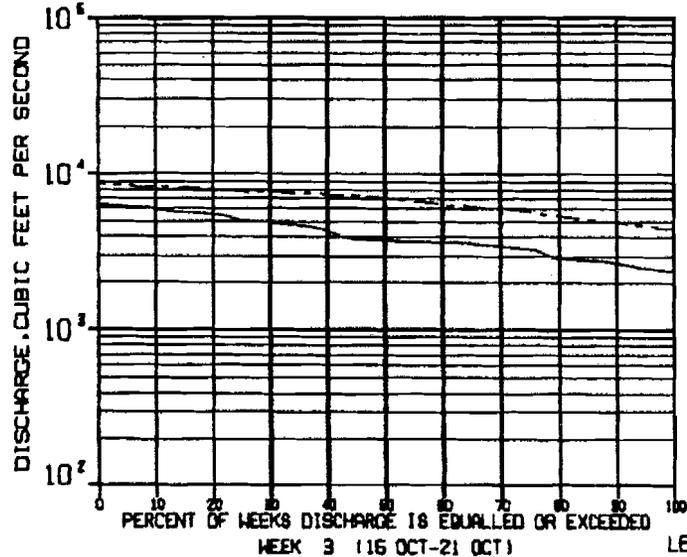
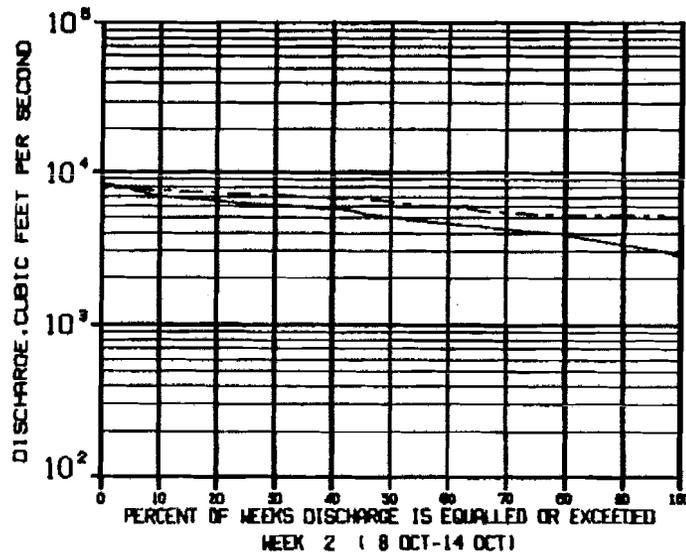
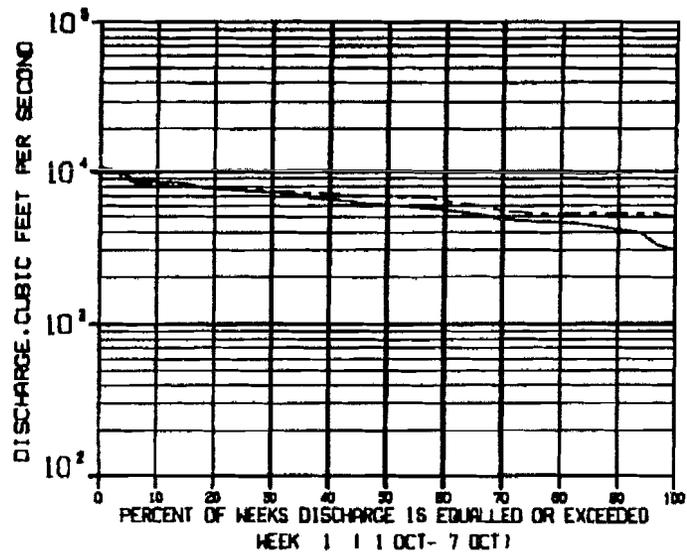
1/ The flows in this column represent the mean flow for the 8-day period, Sept. 23 to 30.

2/ The values in this column represent the mean flow between Sept. 23 and 30, divided by 7.

**EXHIBIT 1**



**EXHIBIT 2**

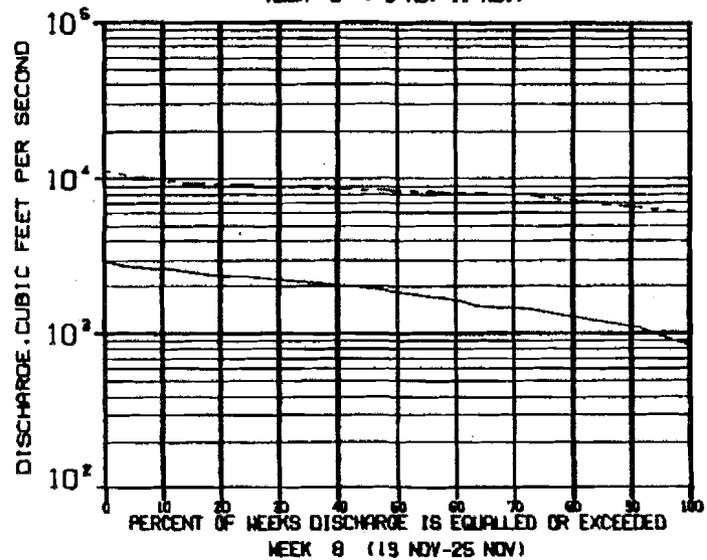
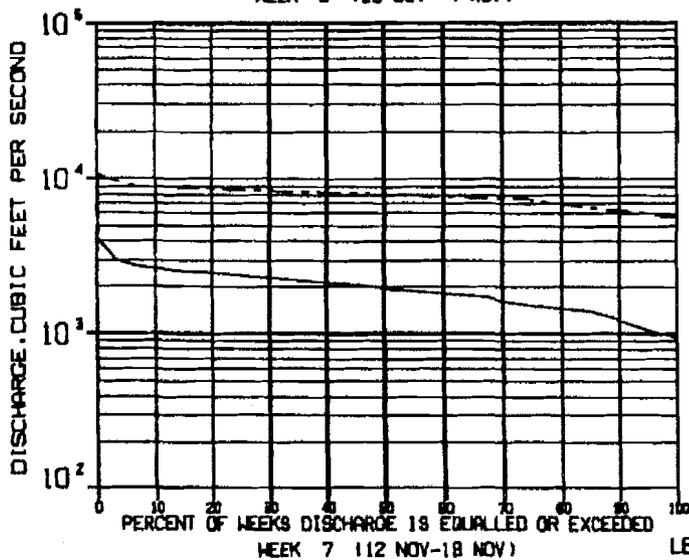
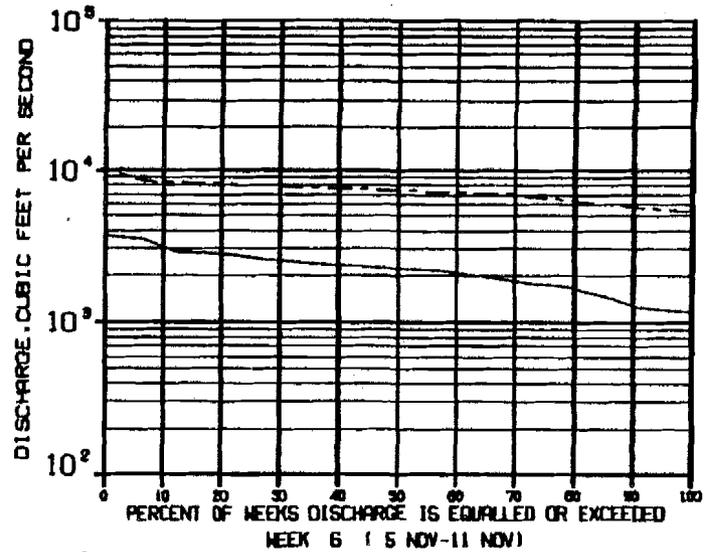
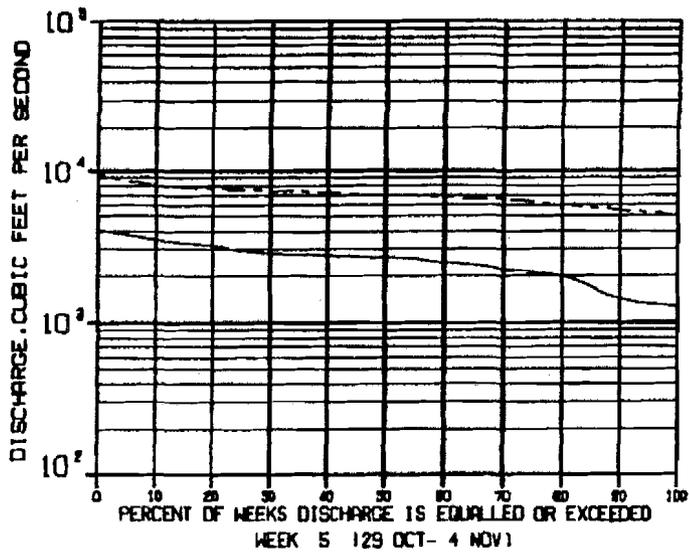


NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

——— NATURAL  
 - - - WITH PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA

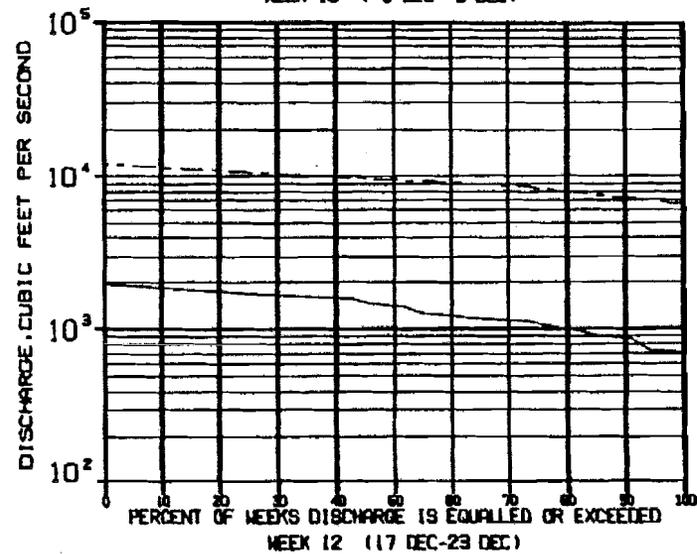
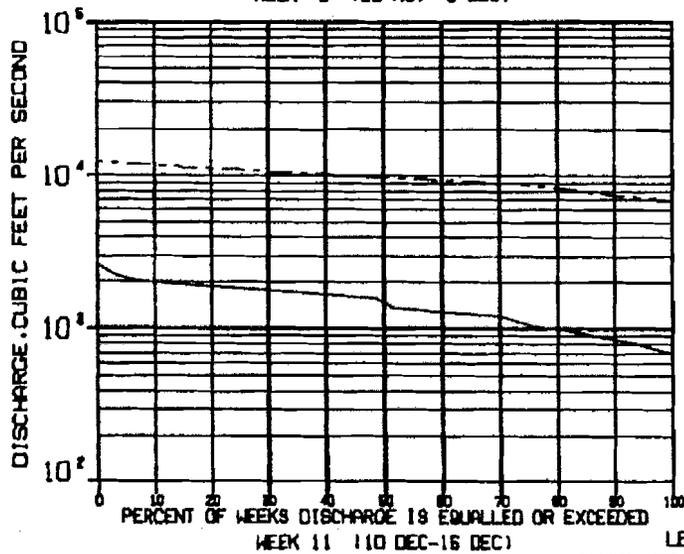
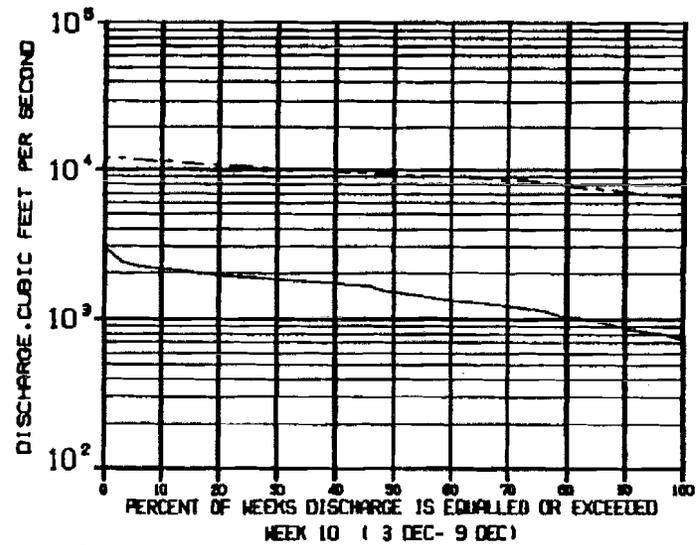
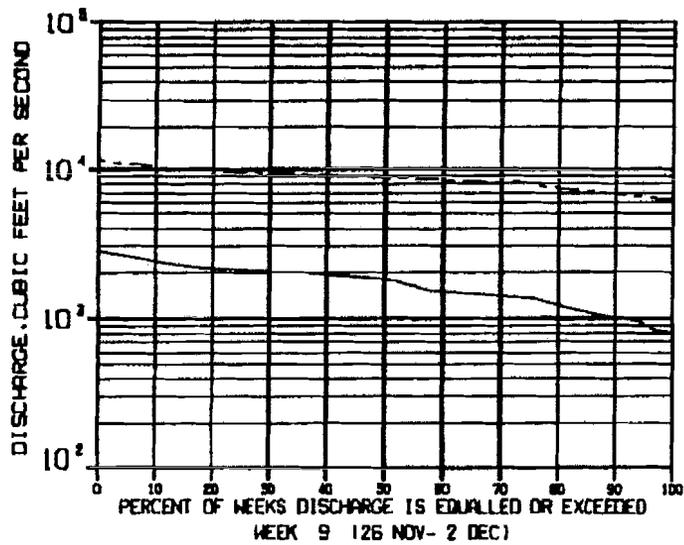


LEGEND  
 ——— NATURAL  
 - - - WITH PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT NATANA



LEGEND

—— NATURAL

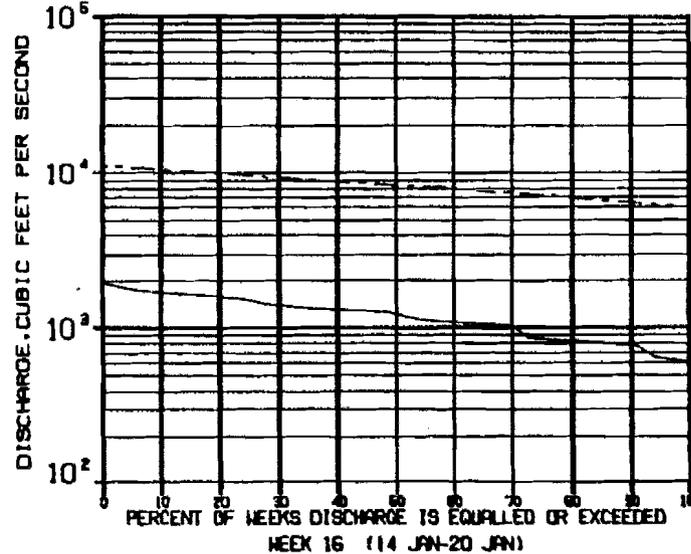
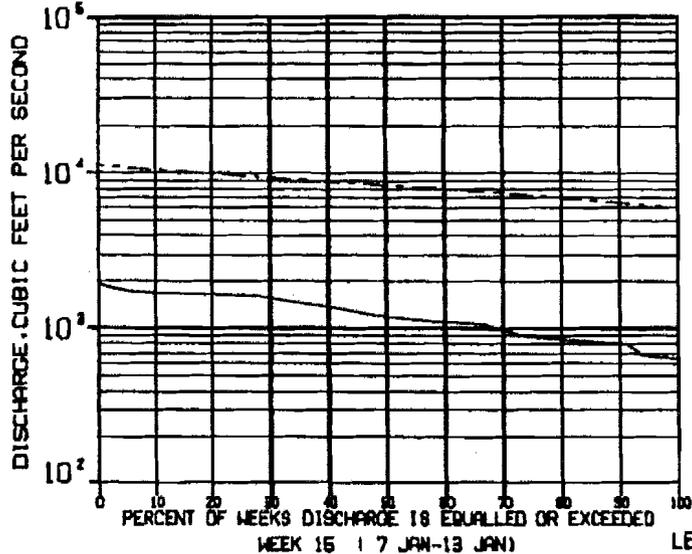
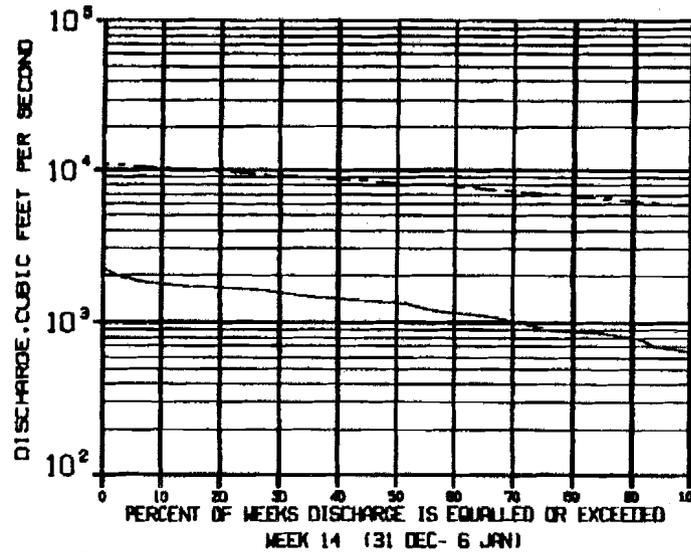
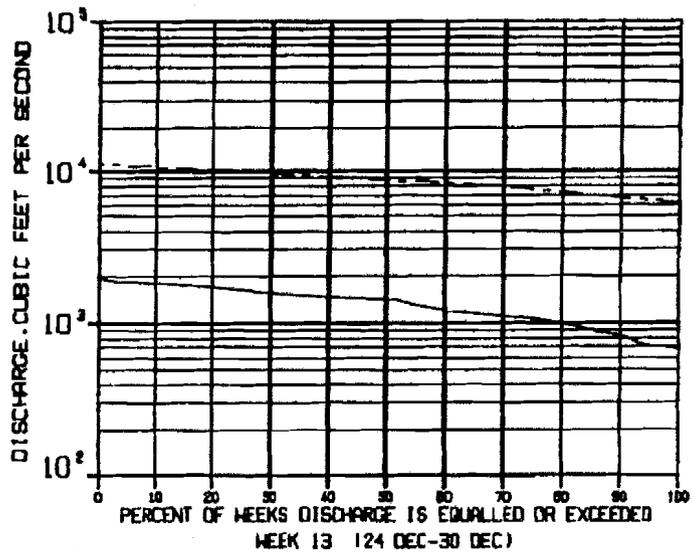
----- WITH-PROJECT

CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 1996  
(WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT WATANA



LEGEND

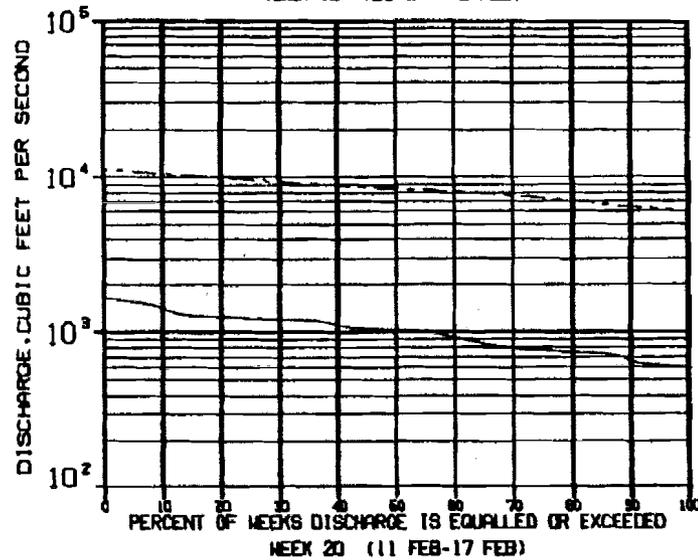
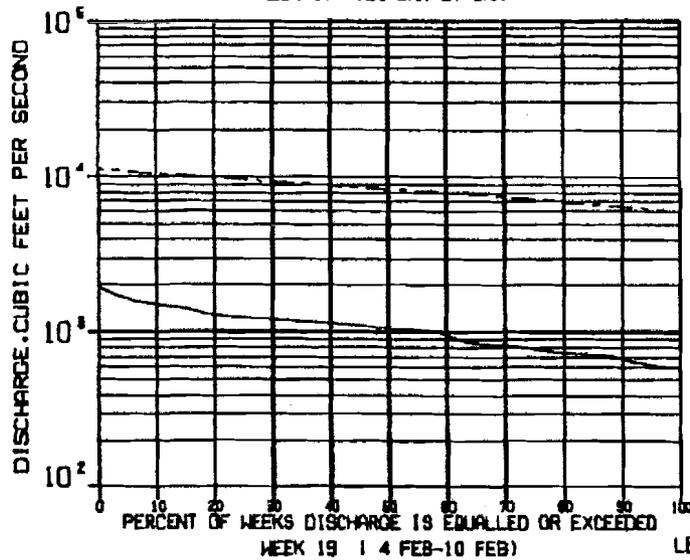
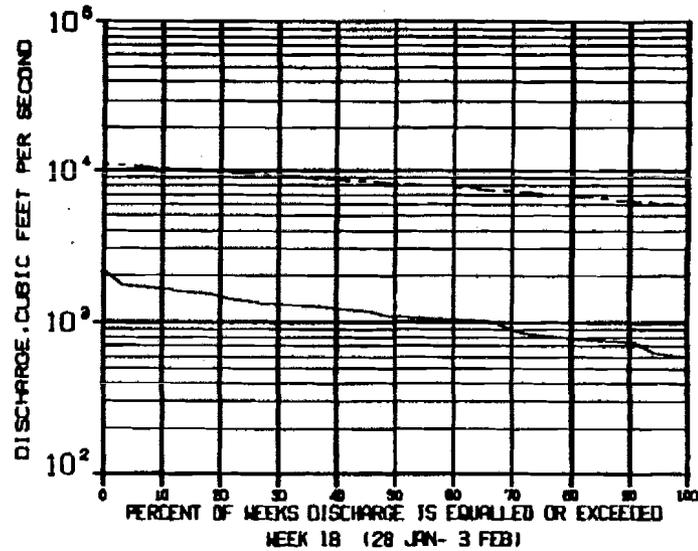
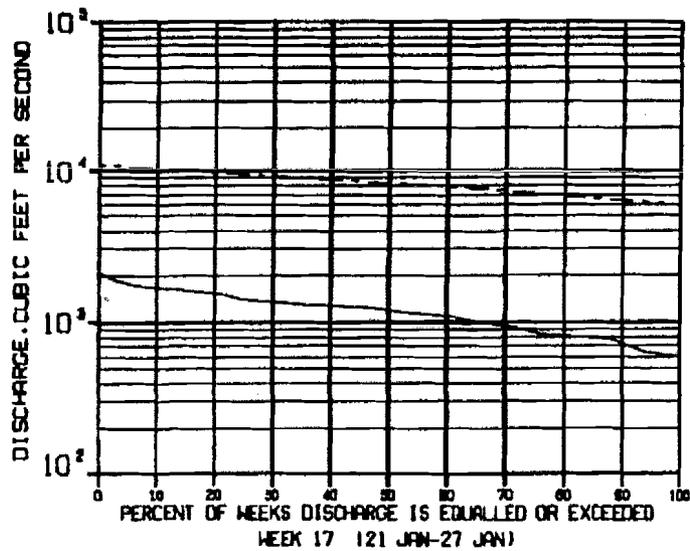
——— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1969

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 65

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA

EXHIBIT 2  
 SHEET 4 OF 13



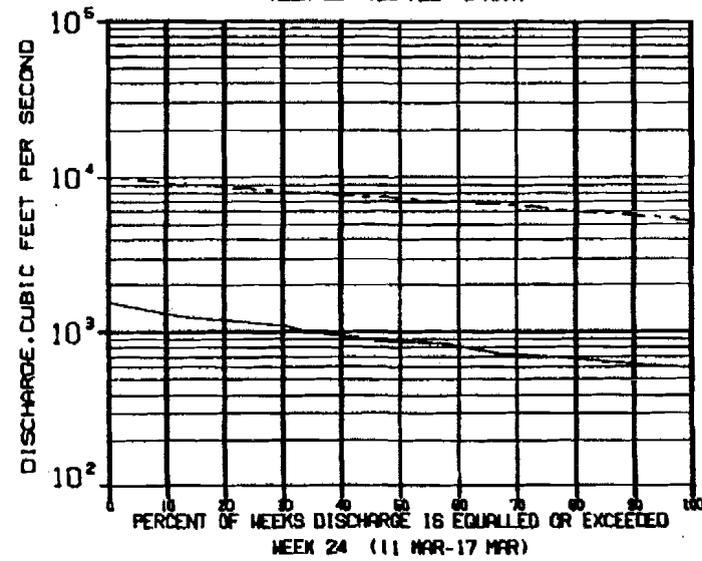
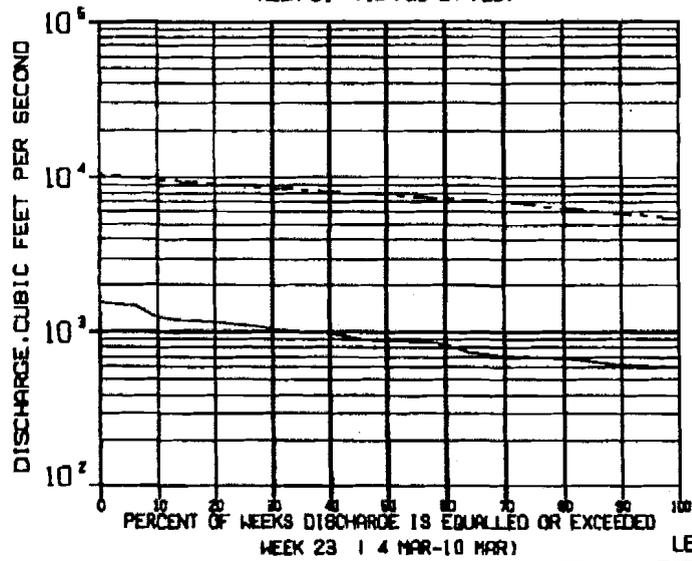
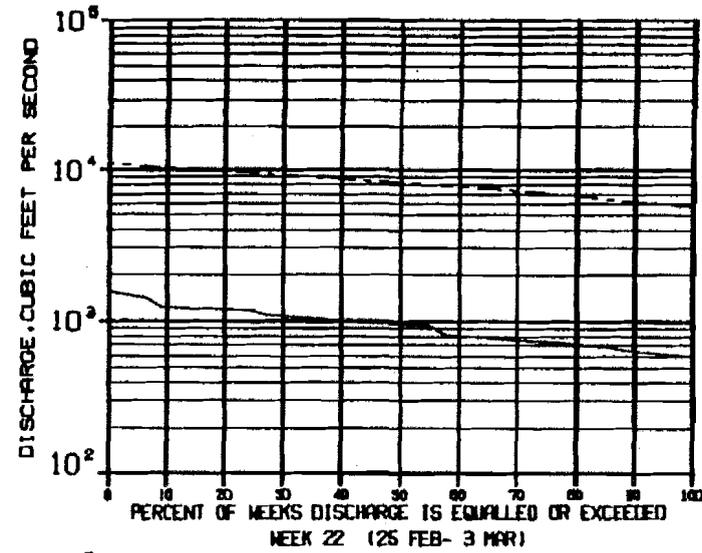
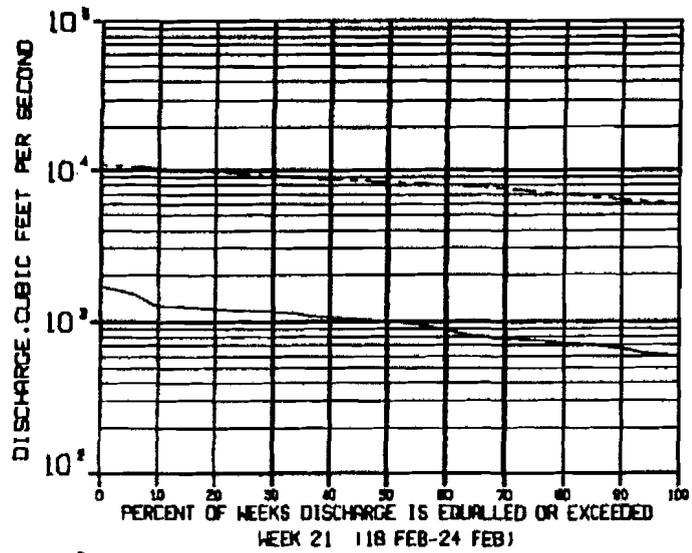
LEGEND

—— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 65

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA



LEGEND

———— NATURAL

----- WITH-PROJECT

CASE E-VI TARGET FLOWS

FOR LOAD CONDITIONS 1996

(WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

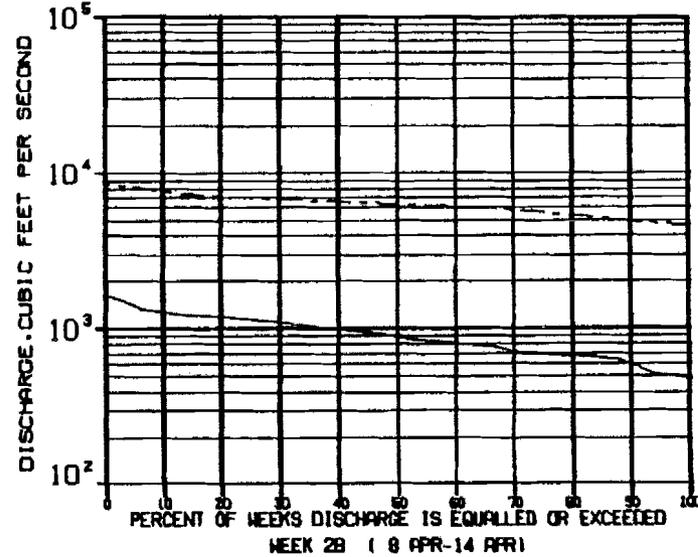
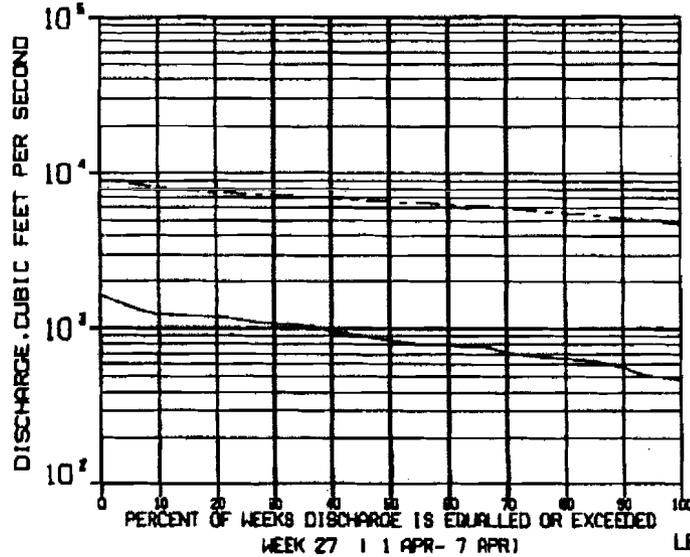
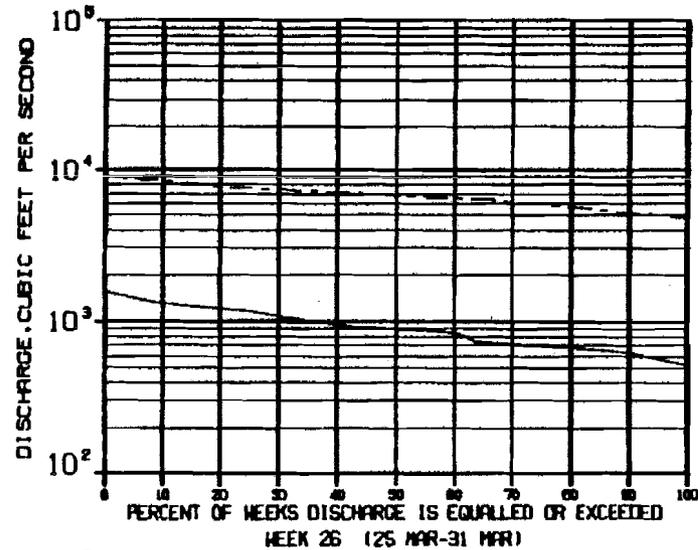
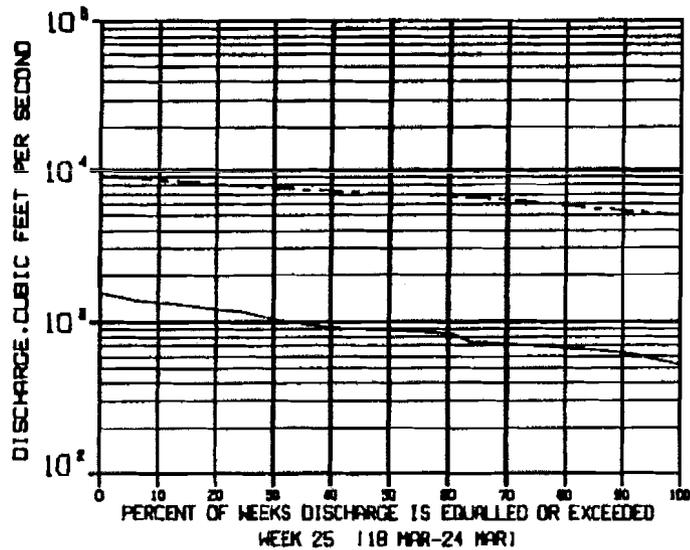
FLOW DURATION CURVES

BASED ON WEEKLY DISCHARGE

SUSITNA RIVER AT WATANA

EXHIBIT 2

SHEET 9 OF 13



LEGEND

———— NATURAL

----- WITH-PROJECT

CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 1996  
(WATANA ONLY)

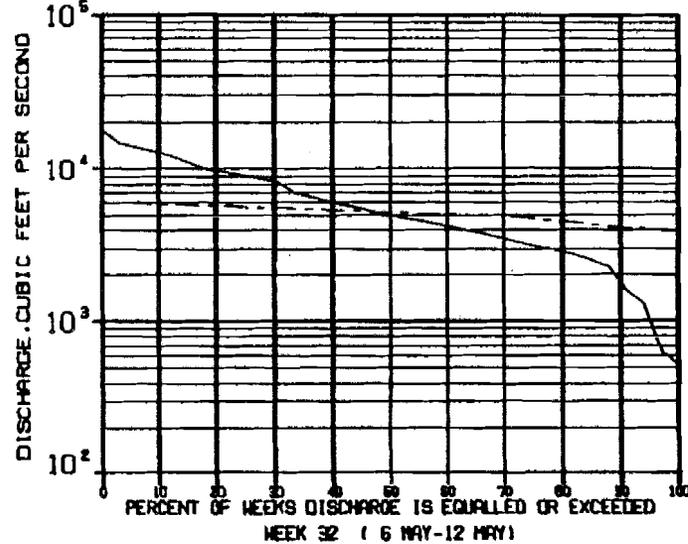
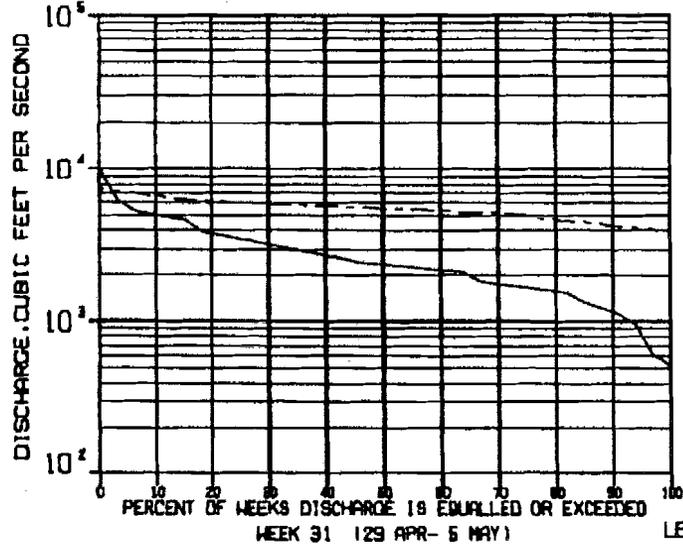
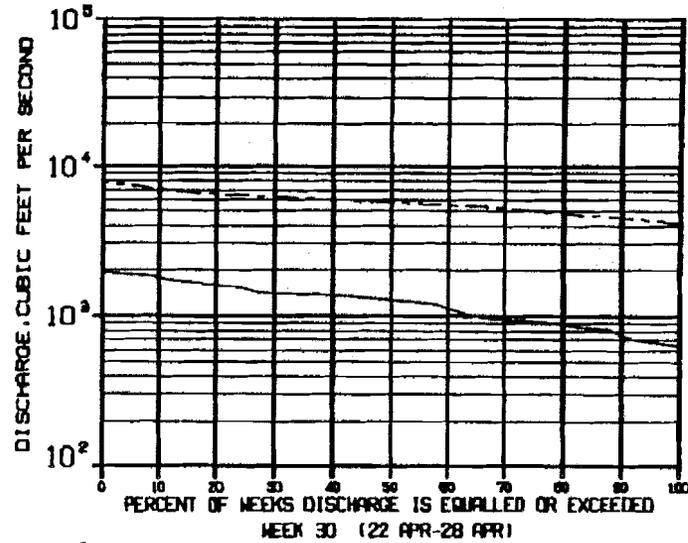
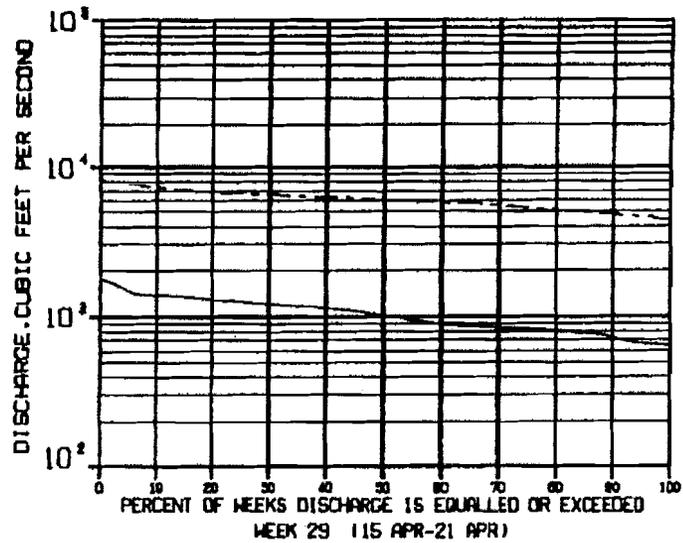
NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT WATANA

EXHIBIT 2

SHEET 7 OF 13



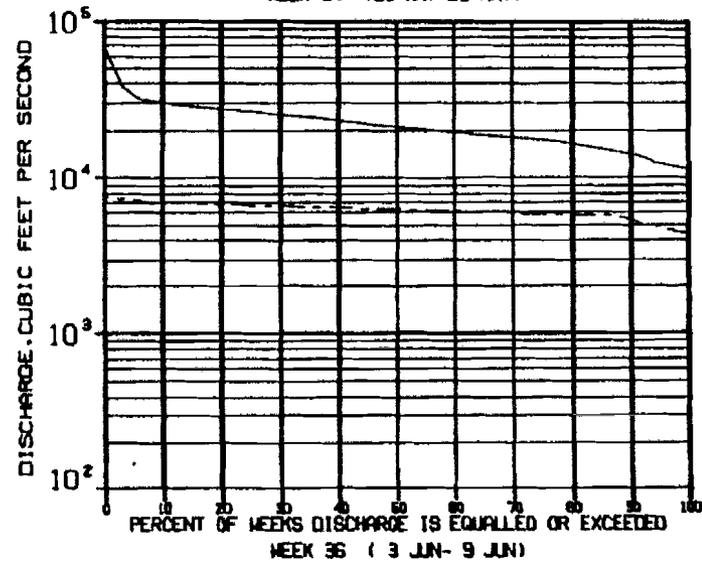
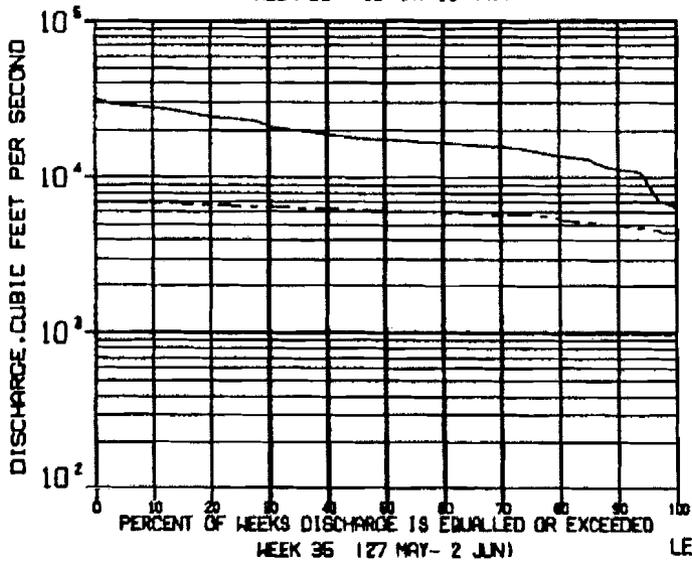
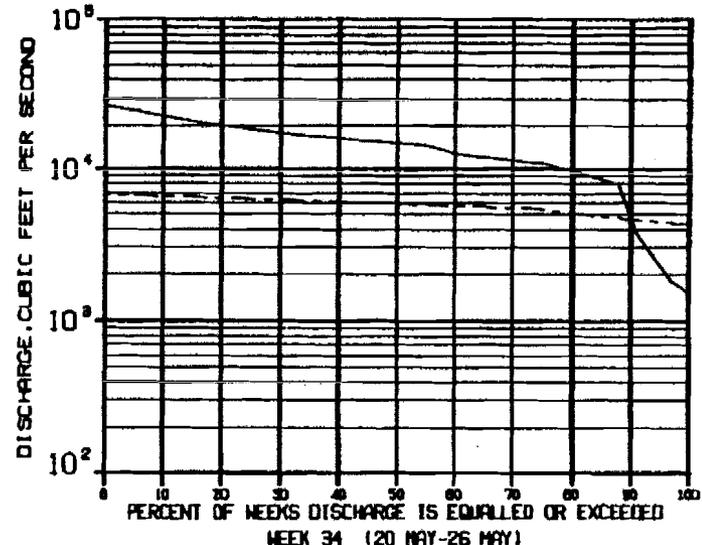
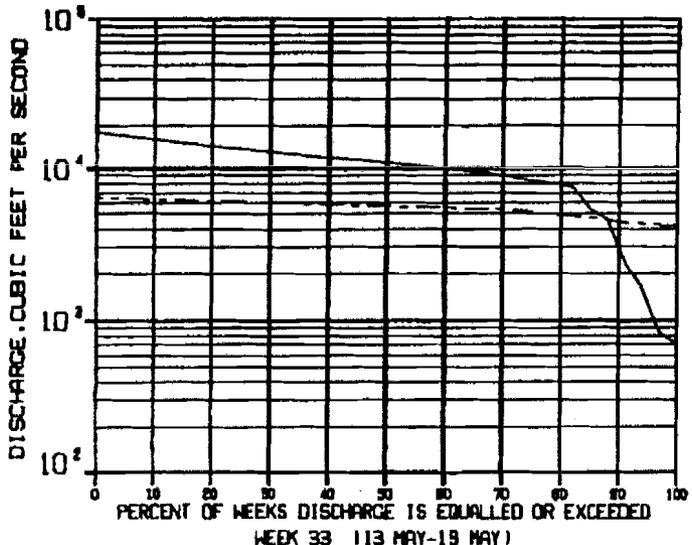
LEGEND

———— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT NATANA



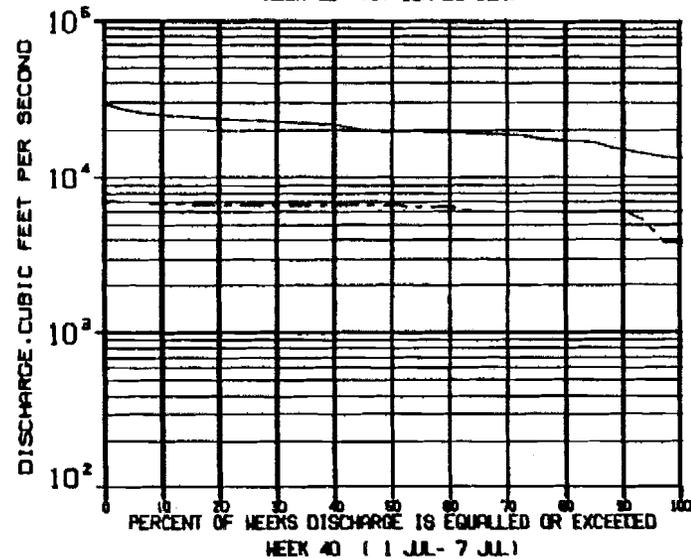
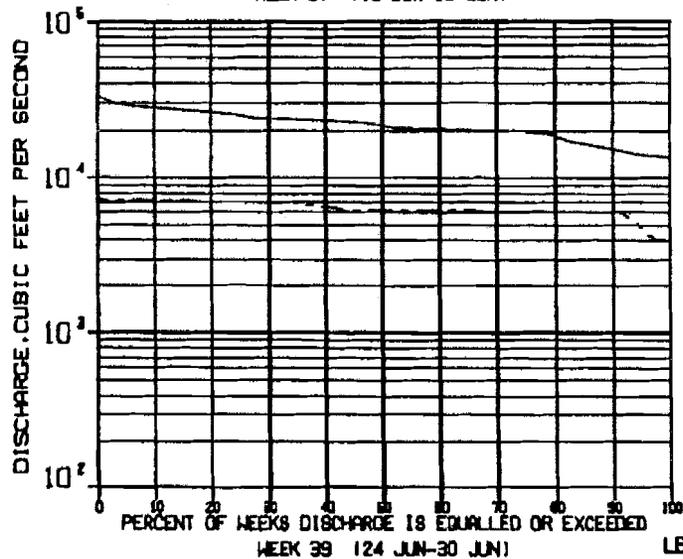
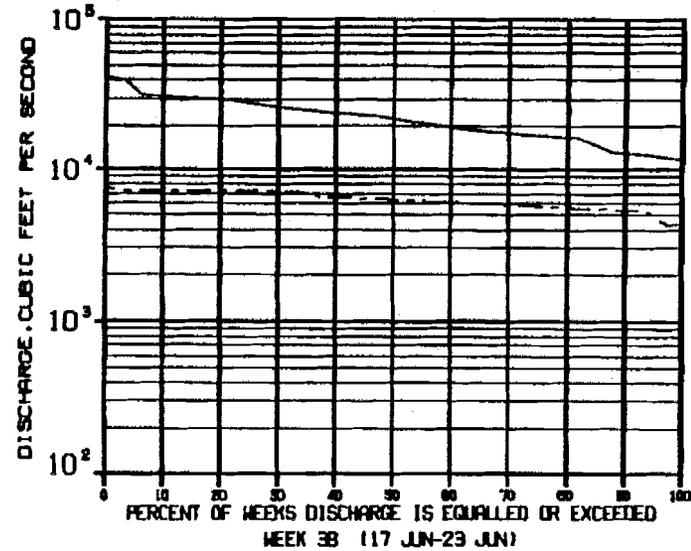
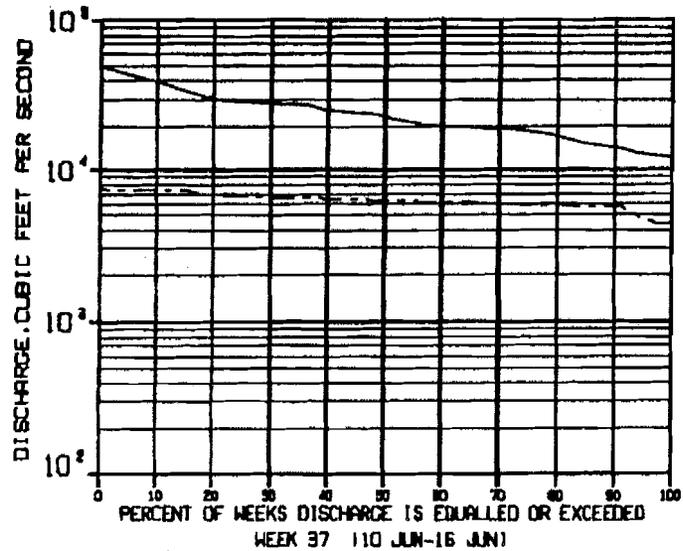
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——— NATURAL  
 - - - WITH PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE, FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 65

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT NATANA

EXHIBIT 2  
 SHEET 9 OF 13



LEGEND

———— NATURAL

----- WITH-PROJECT,

CASE E-VI TARGET FLOWS

FOR LOAD CONDITIONS 1996

(WATANA ONLY)

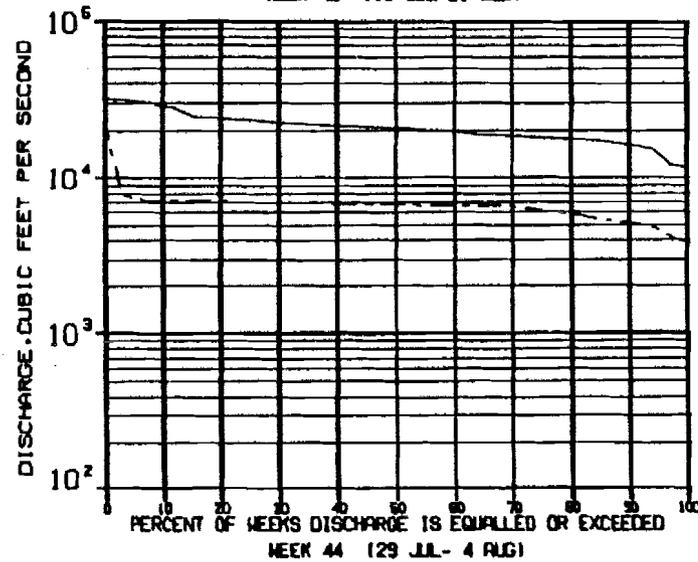
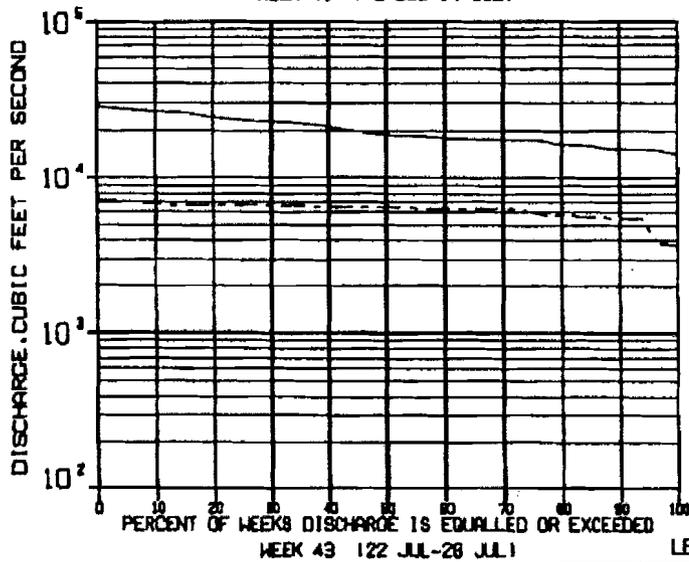
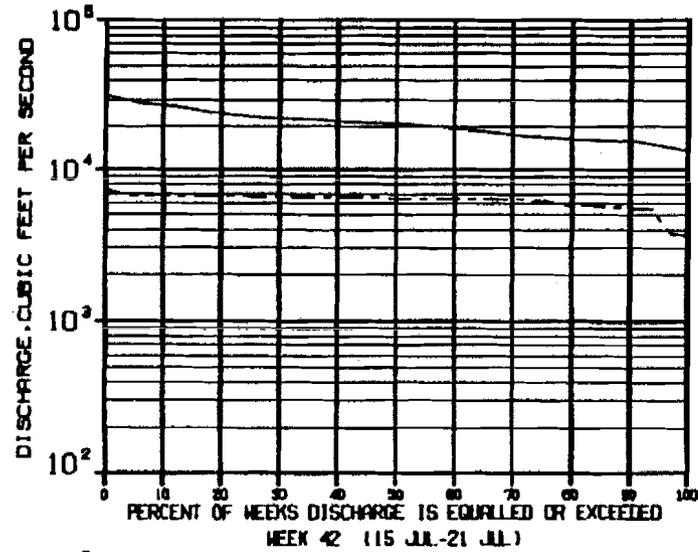
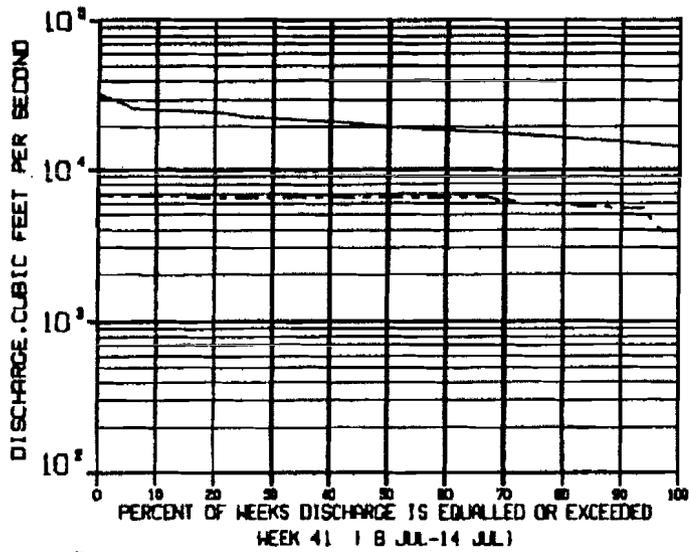
NOTE: FLOW PERIOD WATER YEAR 1961-1969

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 65

FLOW DURATION CURVES

BASED ON WEEKLY DISCHARGE

SUSITNA RIVER AT WATANA



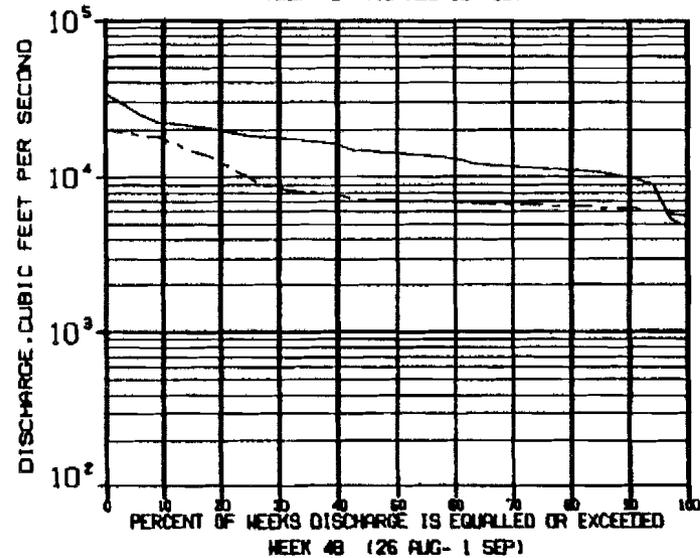
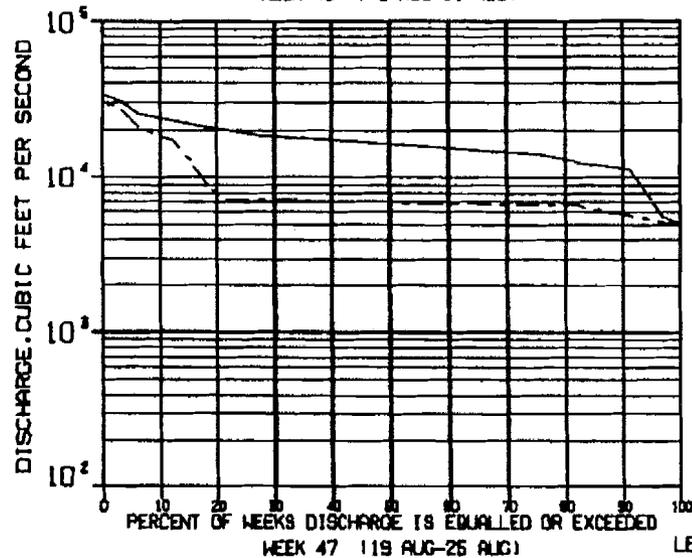
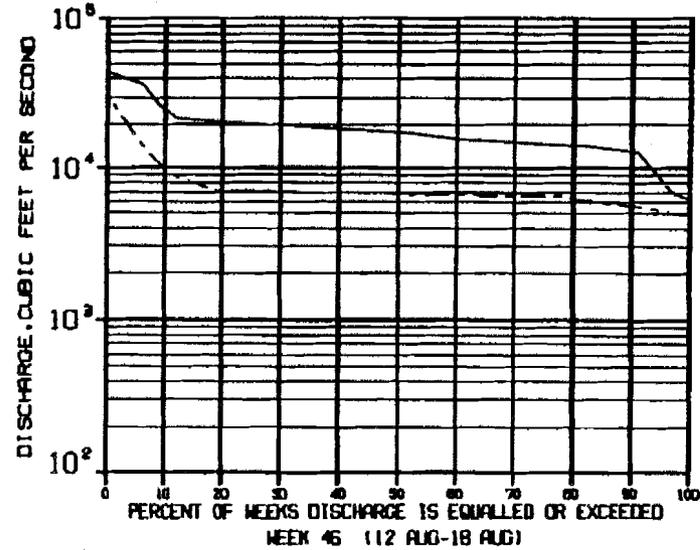
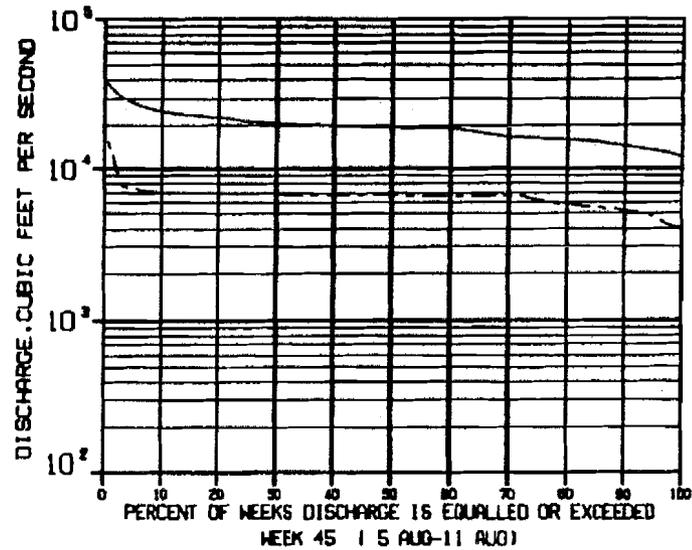
LEGEND

—— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1989

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA



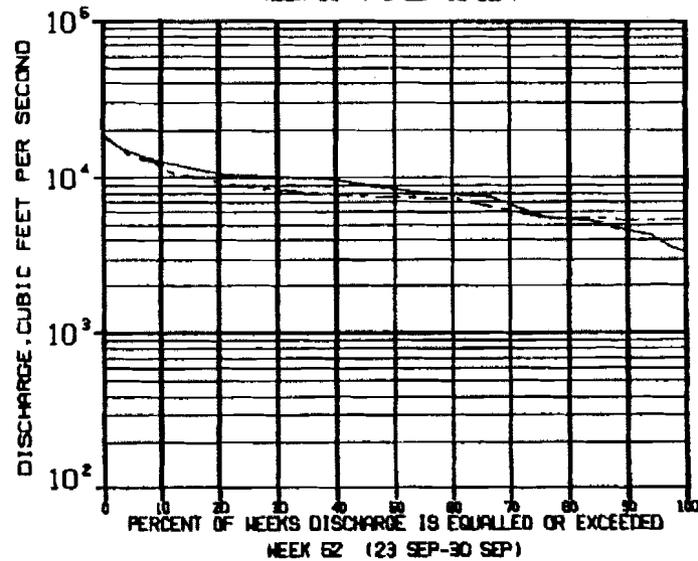
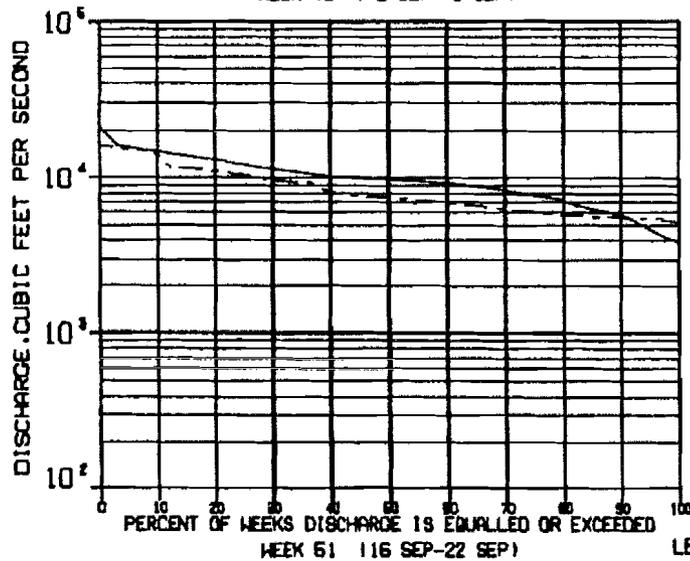
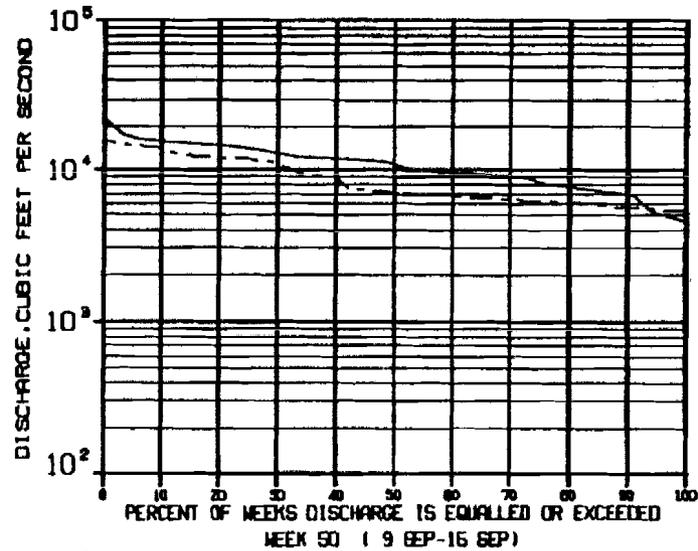
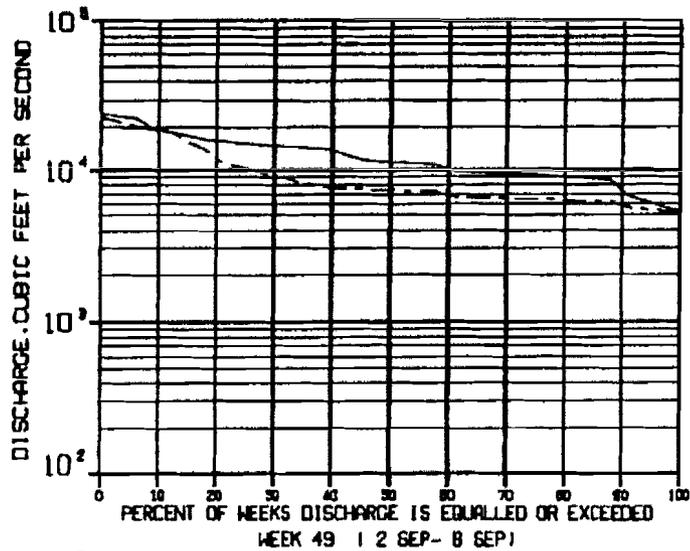
LEGEND

———— NATURAL  
 - - - - WITH PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA



LEGEND

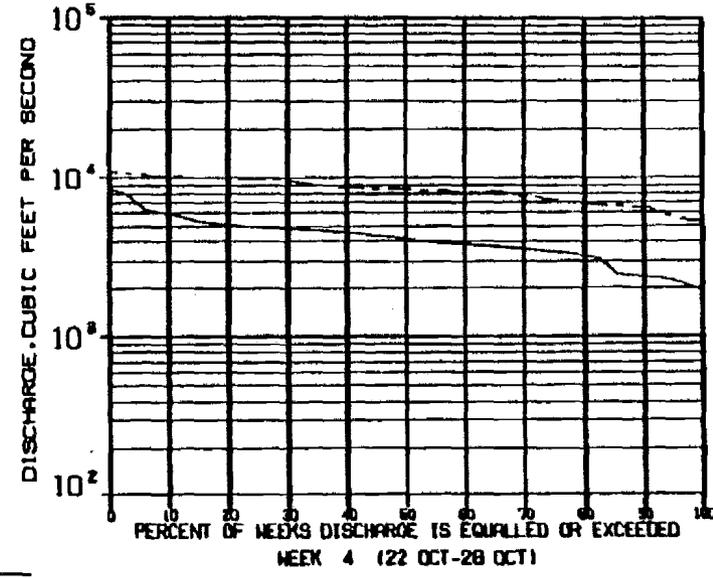
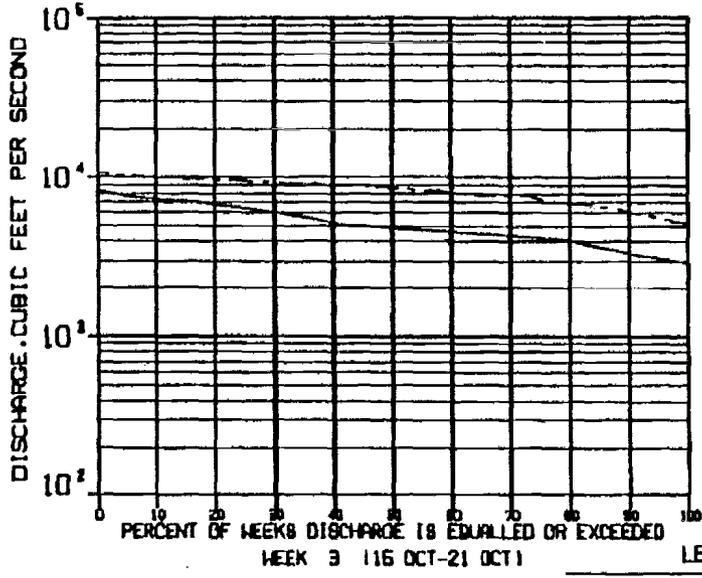
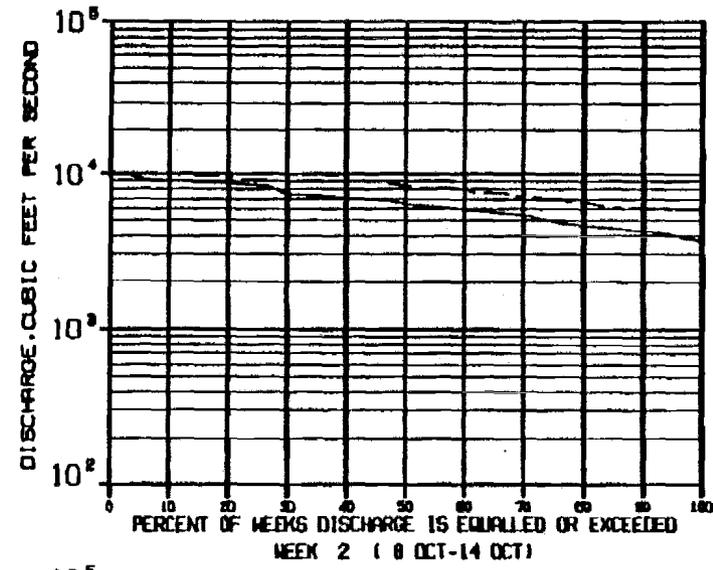
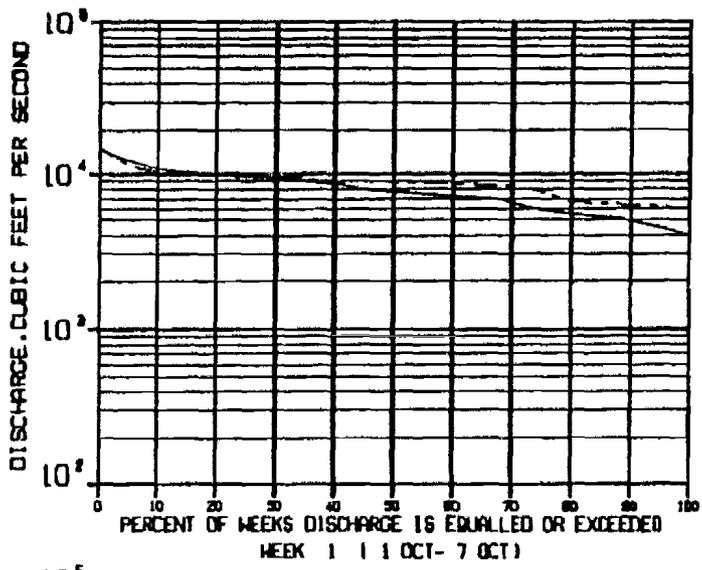
NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

—— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT NATANA

**EXHIBIT 3**



LEGEND

———— NATURAL

----- WITH-PROJECT

CASE E-VI TARGET FLOW

FOR LOAD CONDITIONS 1986

(NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 66

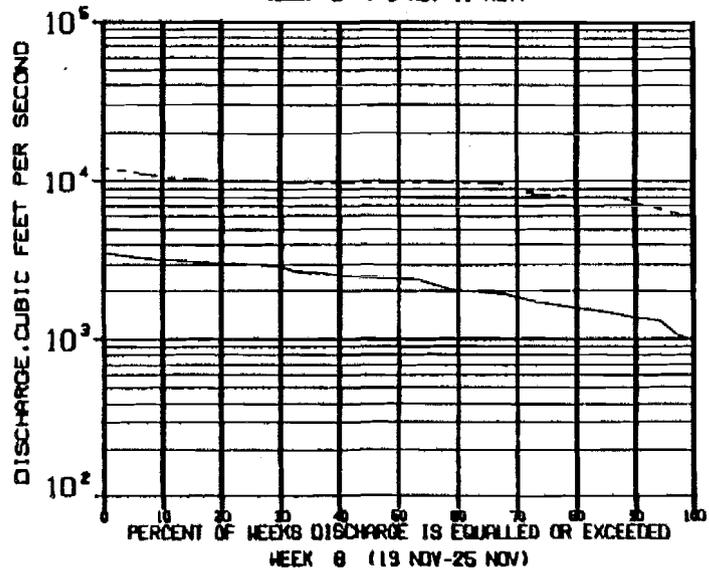
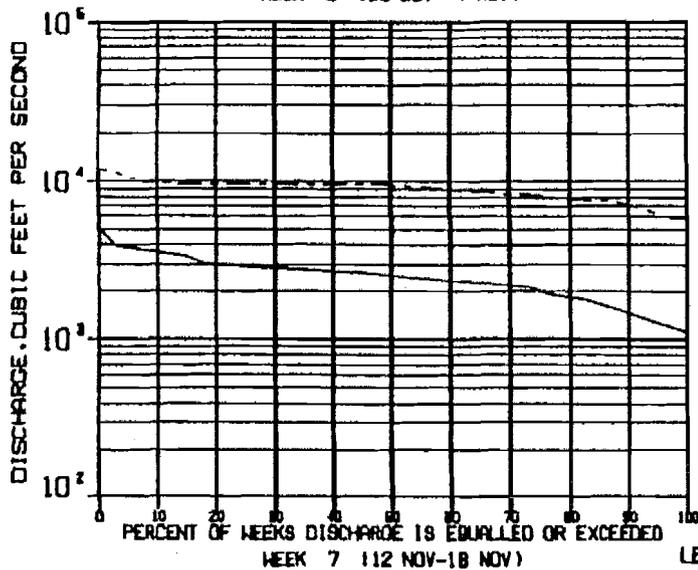
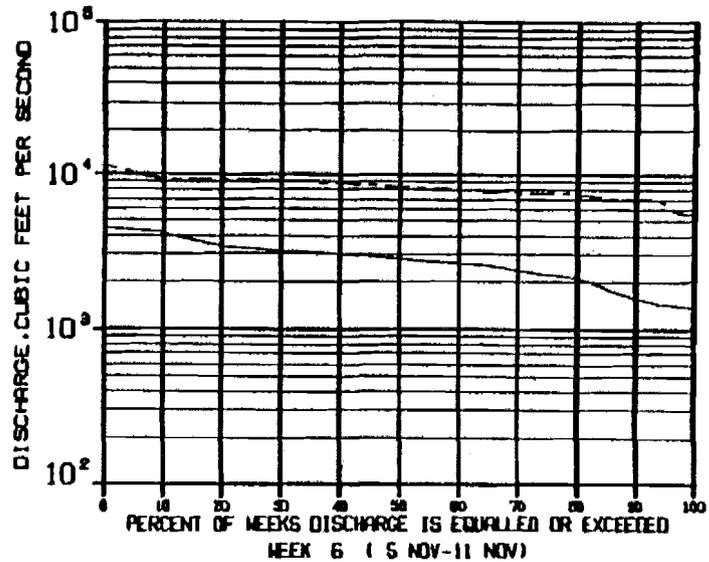
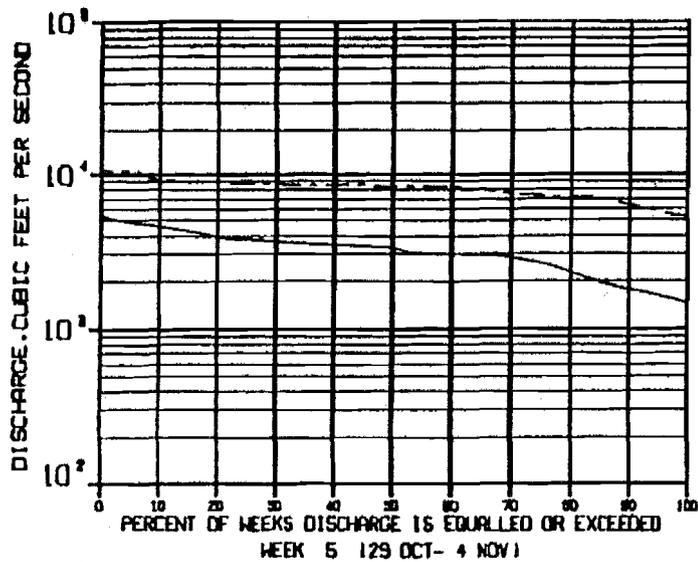
FLOW DURATION CURVES

BASED ON WEEKLY DISCHARGE

SUSITNA RIVER AT GOLD CREEK

EXHIBIT 3

SHEET 1 OF 13

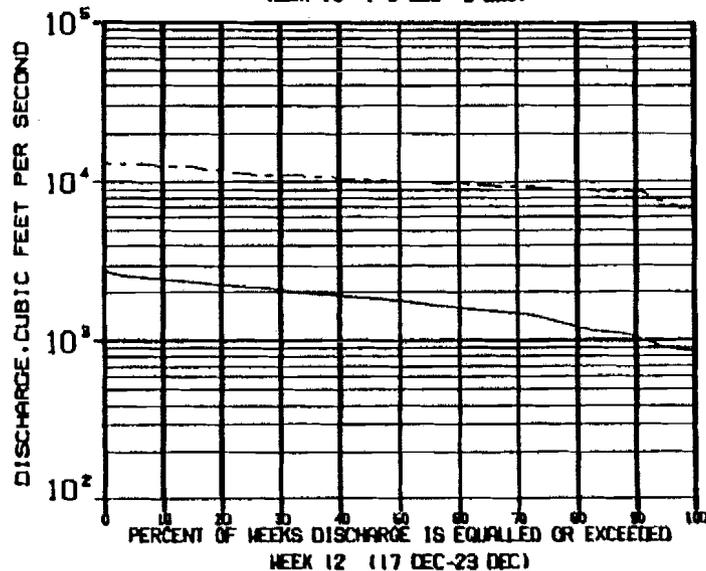
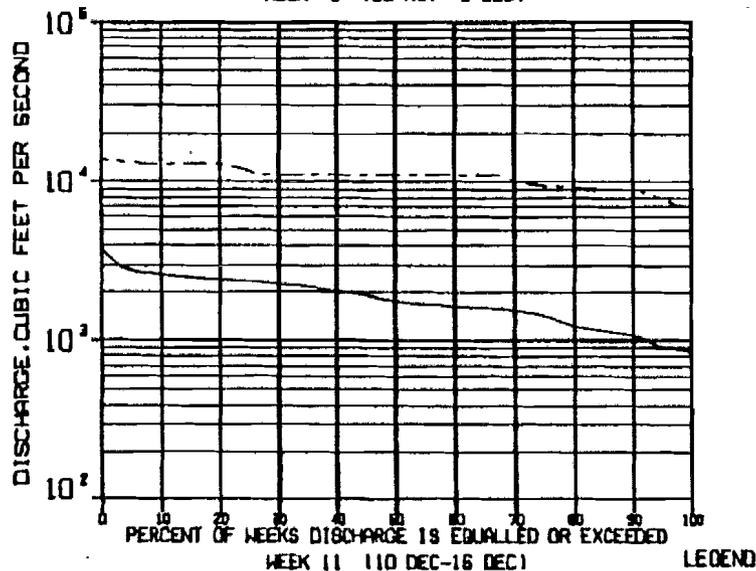
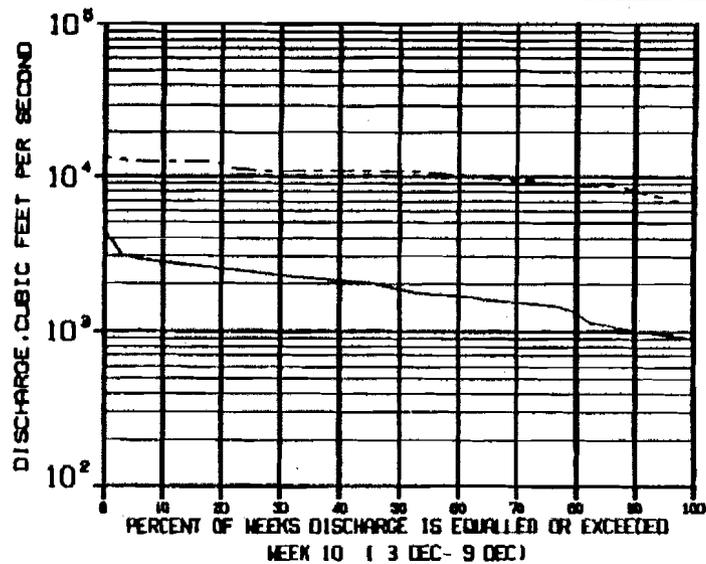
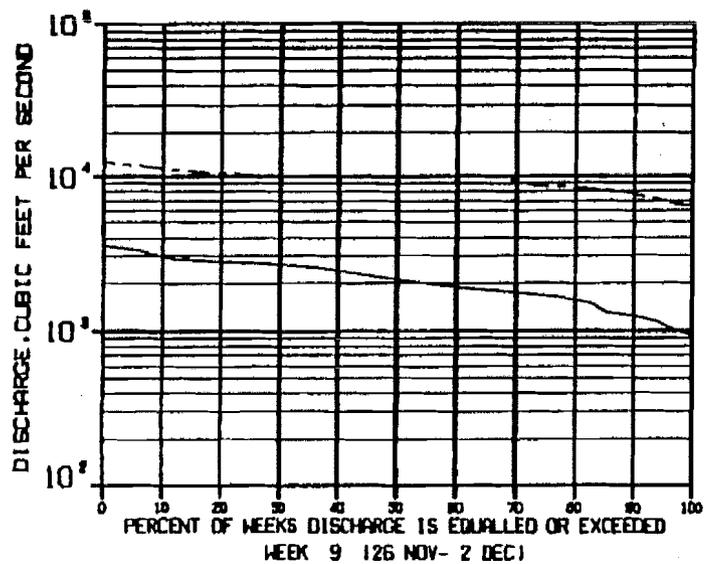


LEGEND

—— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1986  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



LEGEND

———— NATURAL

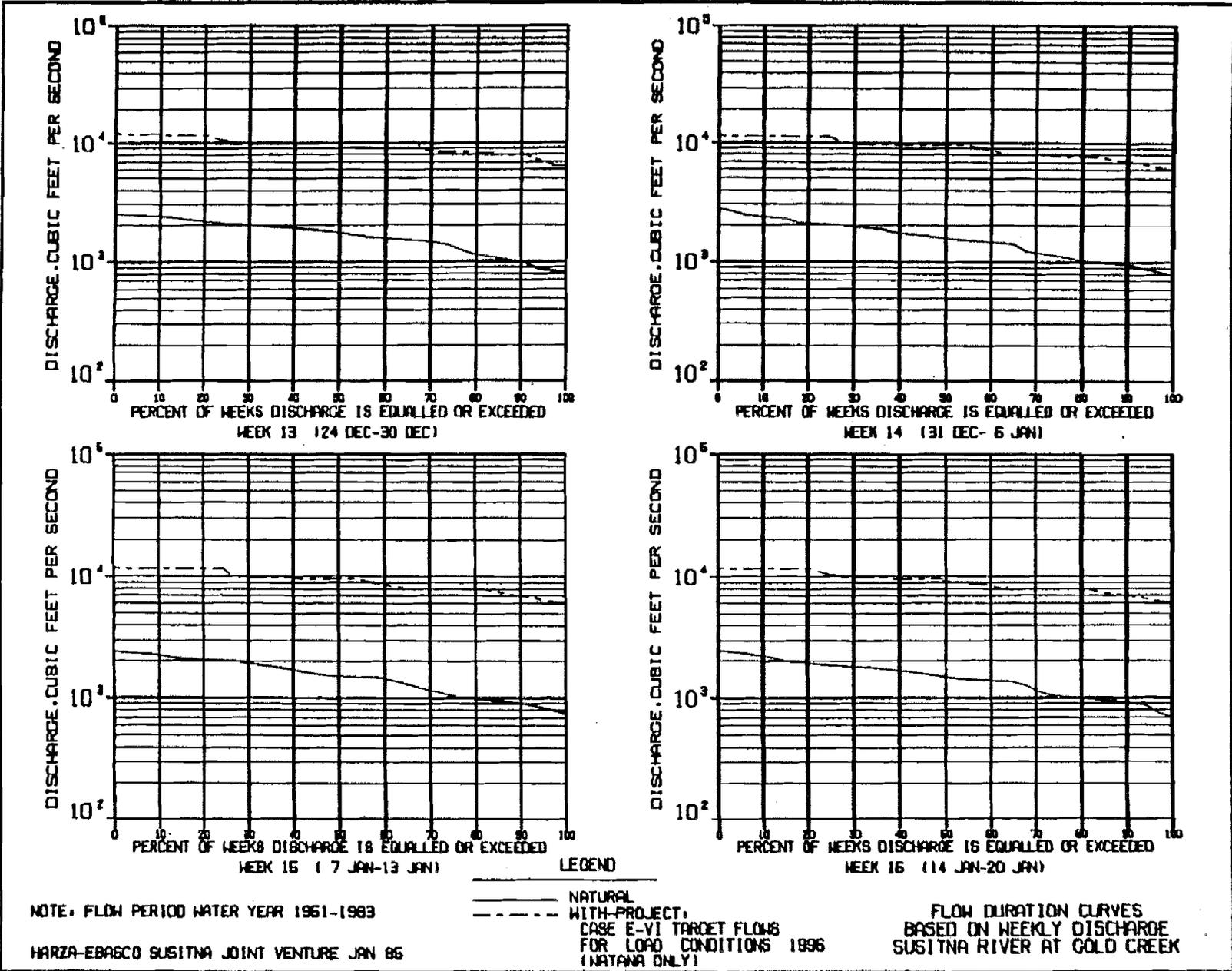
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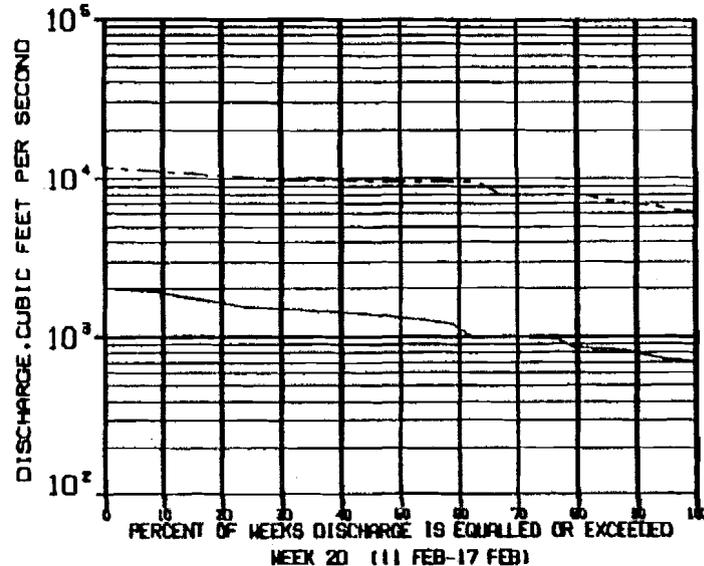
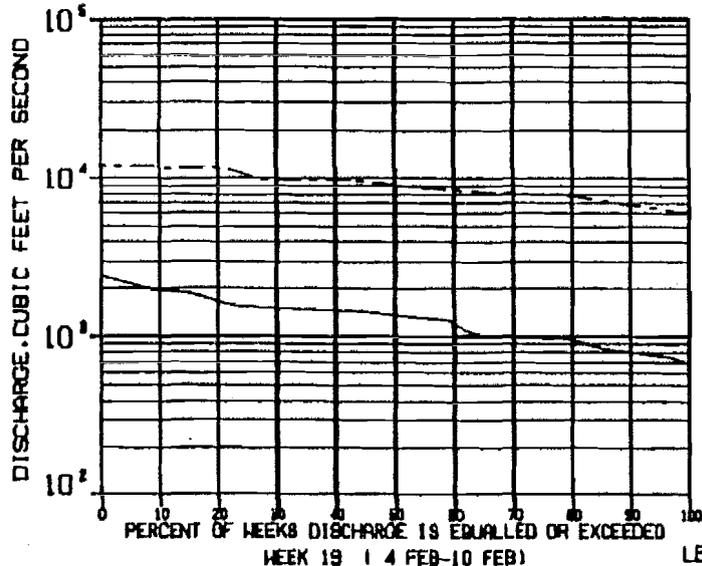
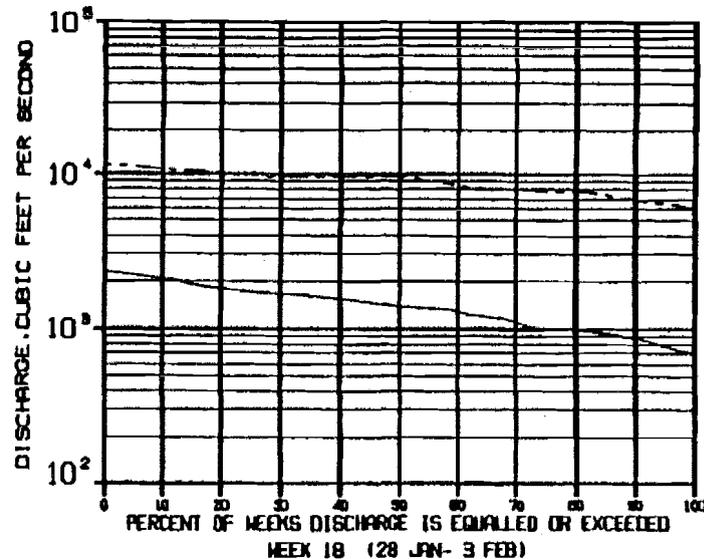
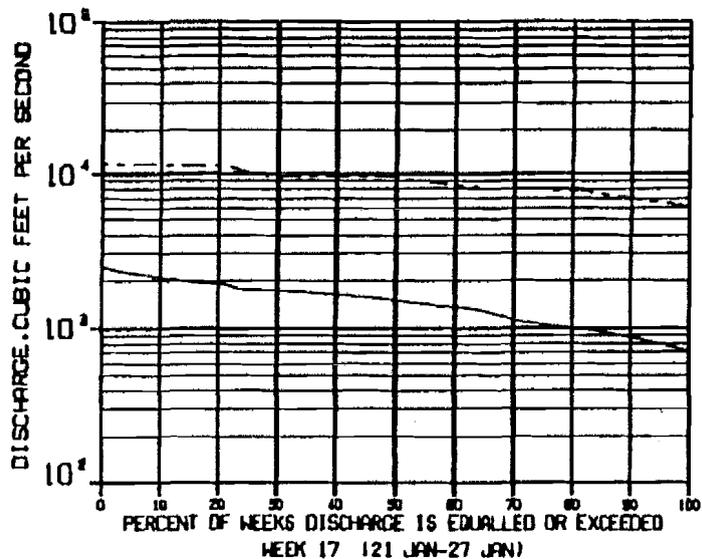
CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 1996  
(NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT GOLD CREEK





LEGEND

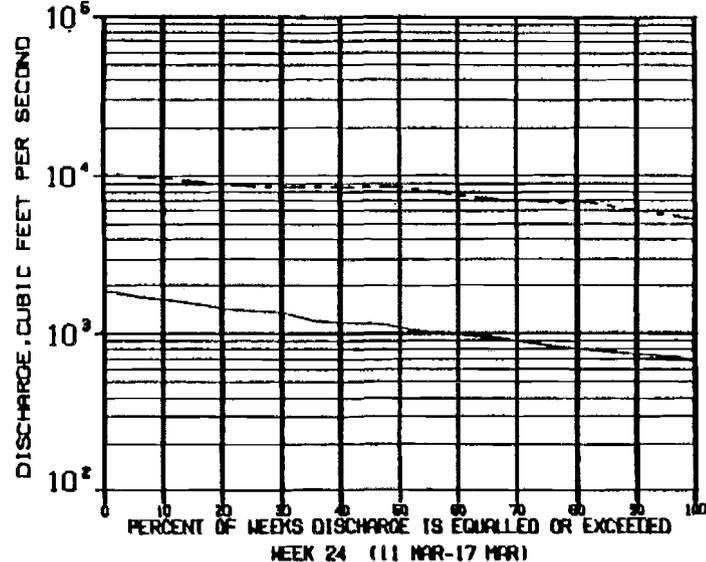
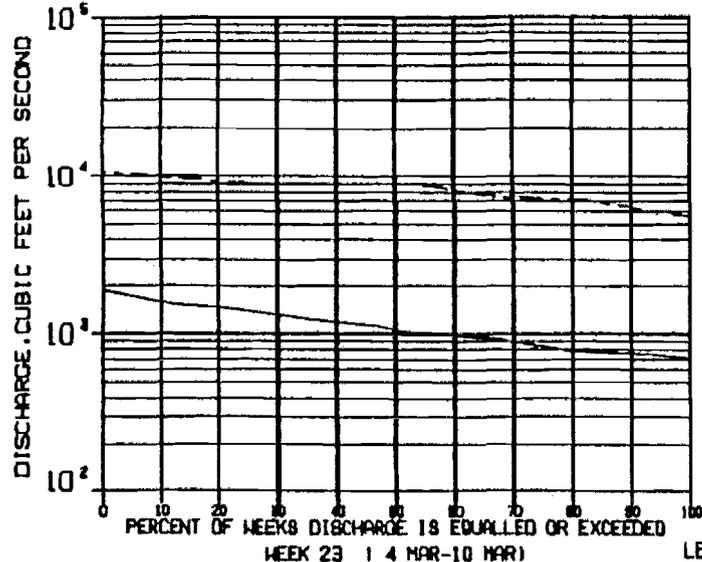
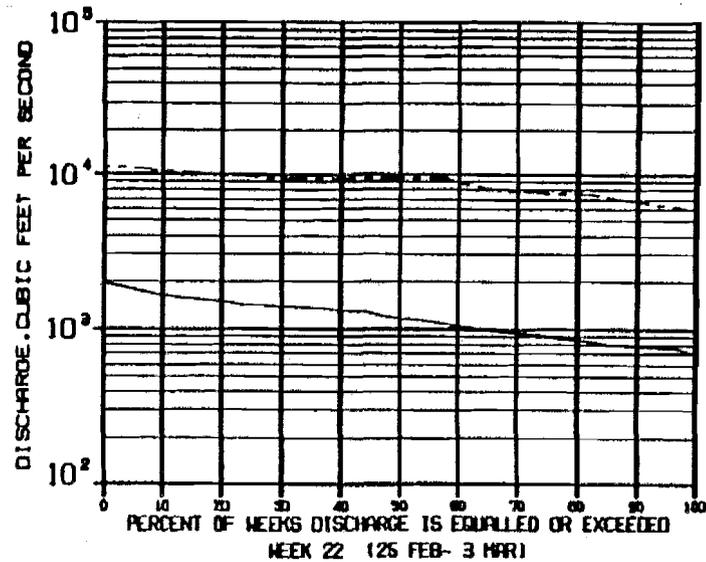
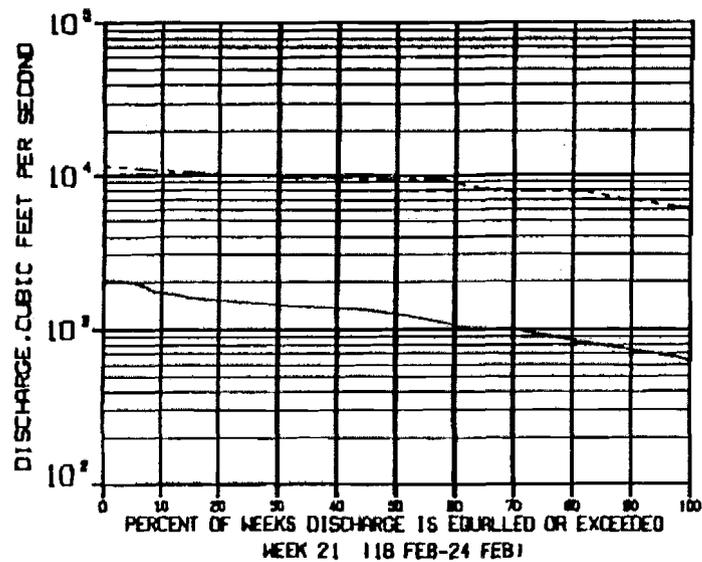
—— NATURAL  
 - - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1993

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK

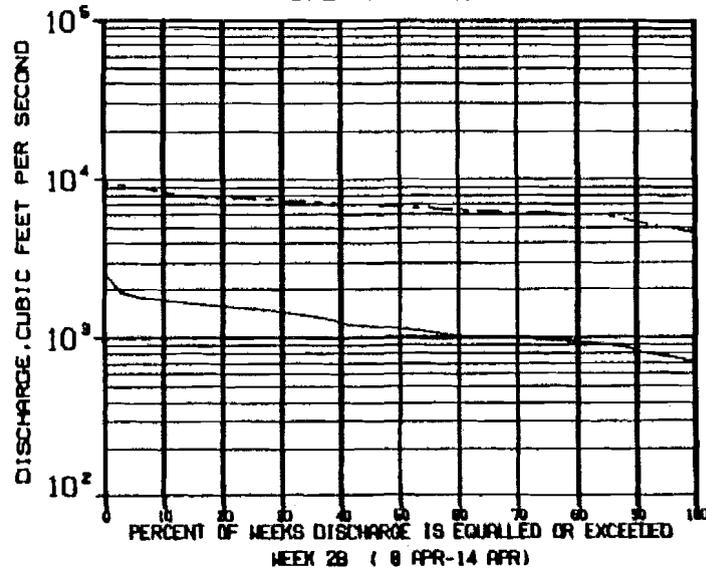
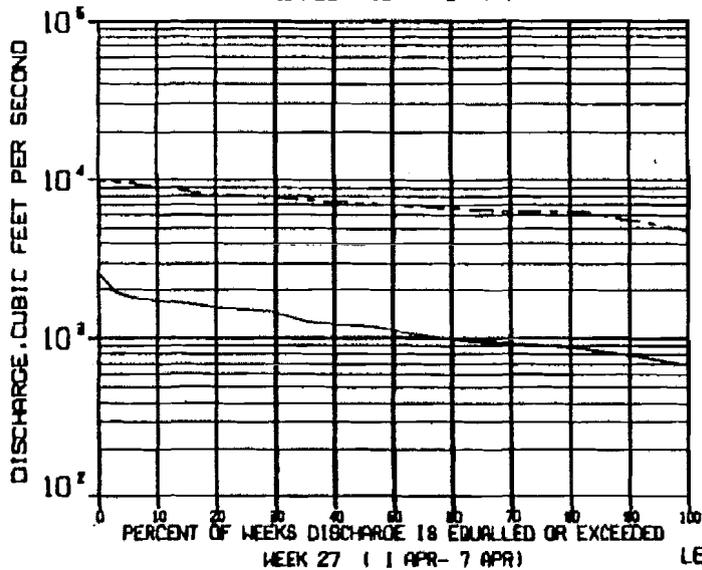
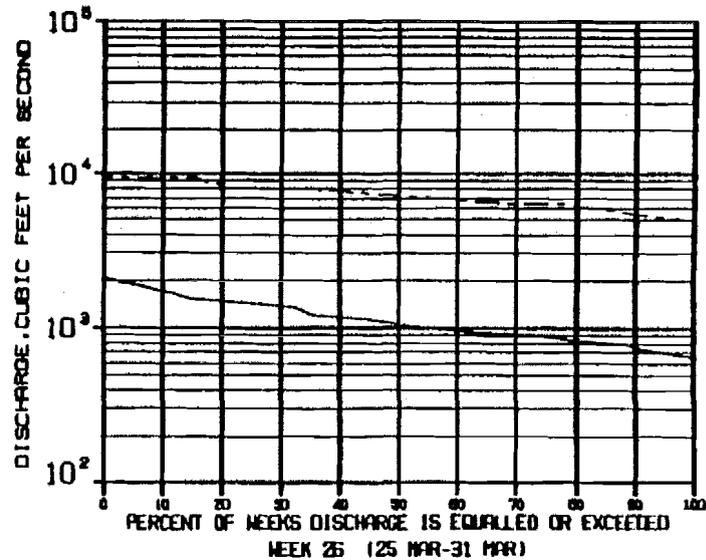
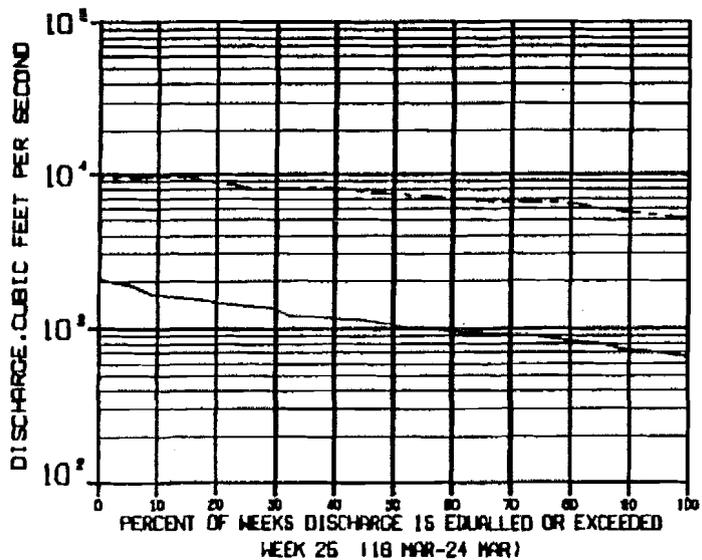
EXHIBIT 3  
 SHEET 5 OF 13



NOTE. FLOW PERIOD WATER YEAR 1961-1993  
 HARZA-EBASCO SUBITNA JOINT VENTURE JAN 85

LEGEND  
 ——— NATURAL  
 - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



LEGEND

———— NATURAL

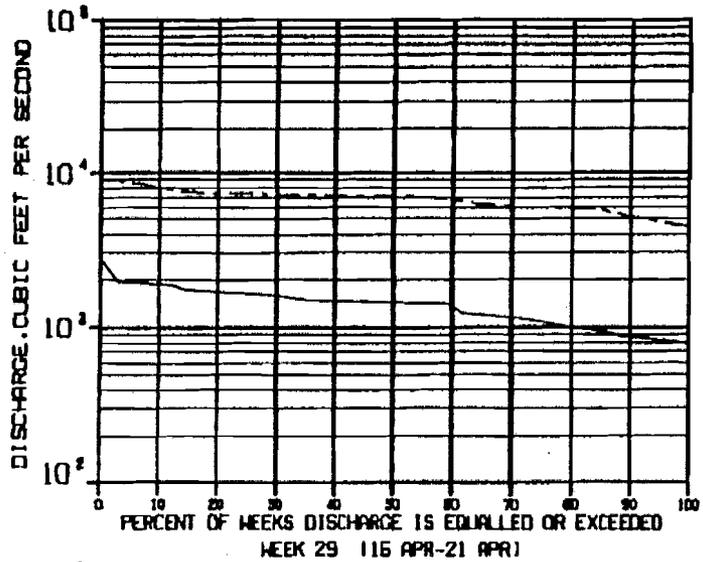
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CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 1996  
(NATANA ONLY)

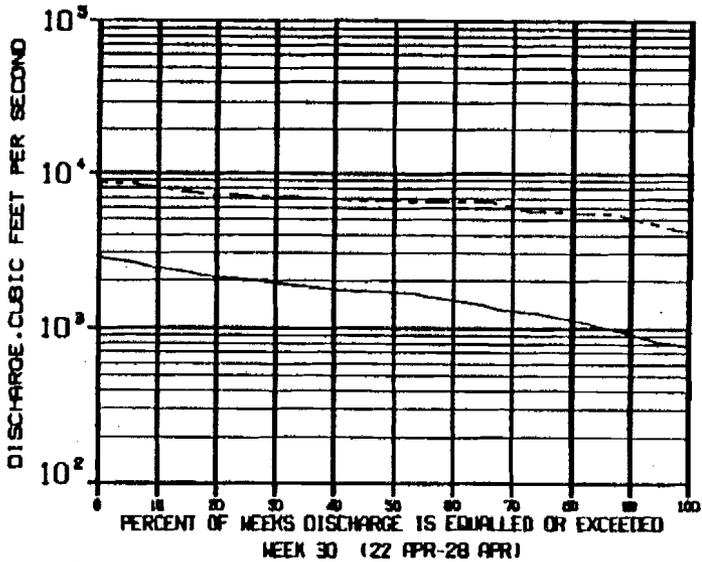
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HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

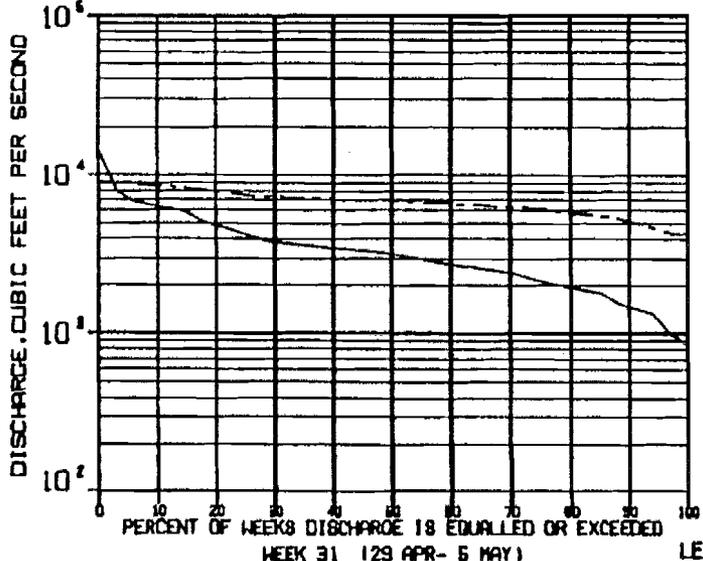
FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT GOLD CREEK



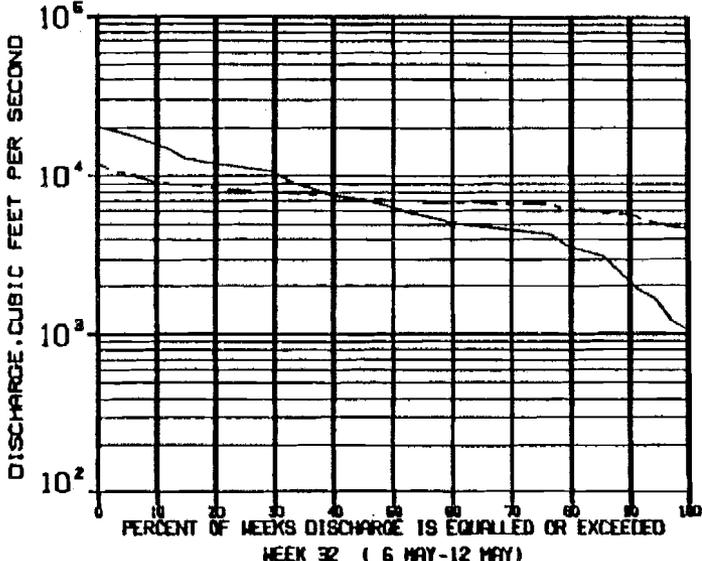
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WEEK 30 (22 APR-28 APR)



WEEK 31 (129 APR-5 MAY)



WEEK 32 (6 MAY-12 MAY)

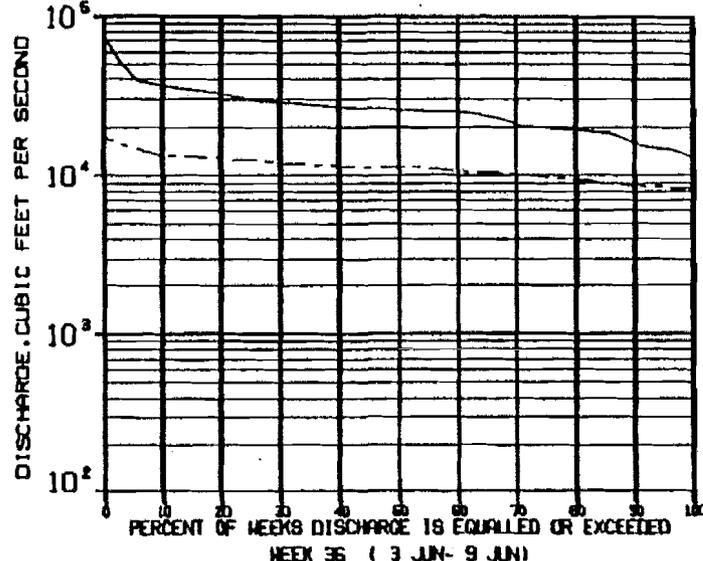
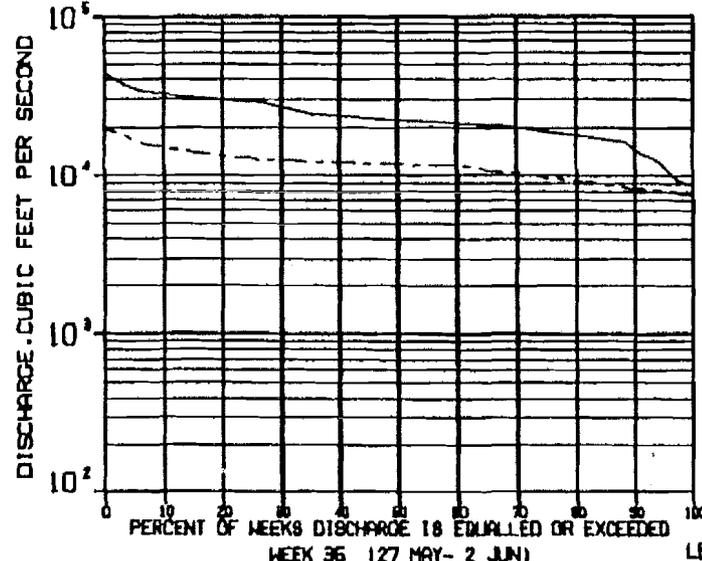
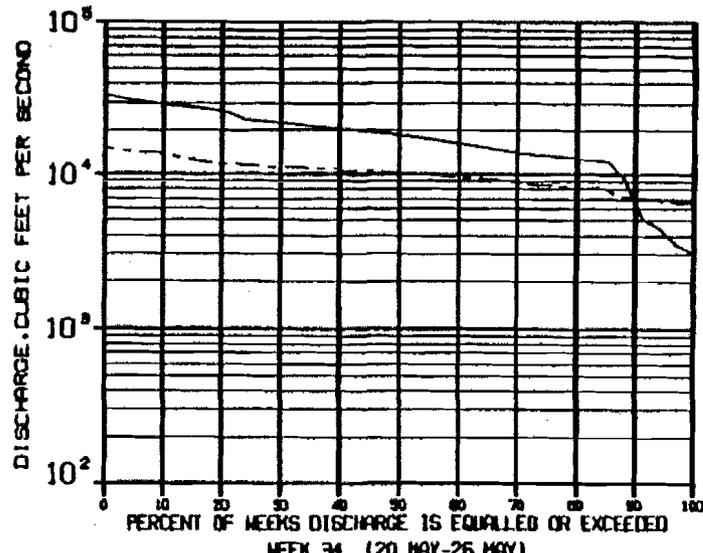
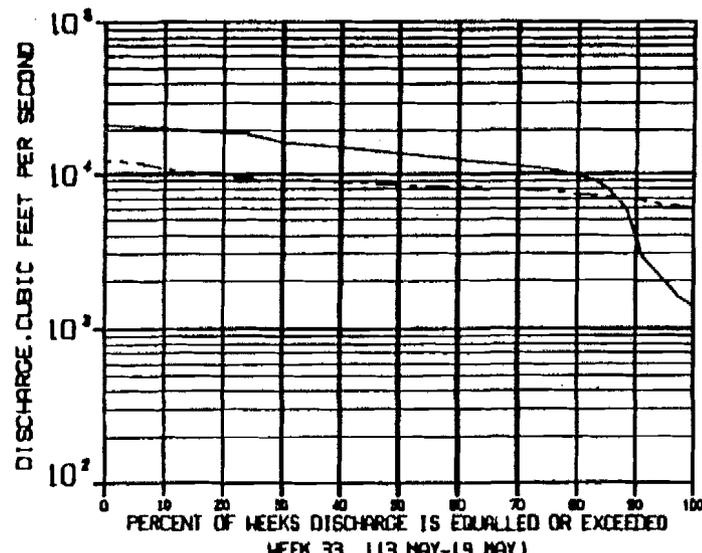
LEGEND

——— NATURAL  
 - - - WITH PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1989

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



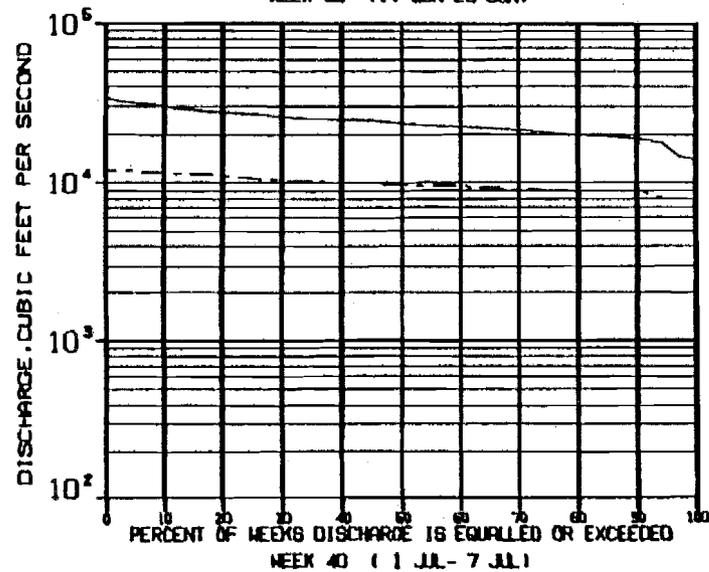
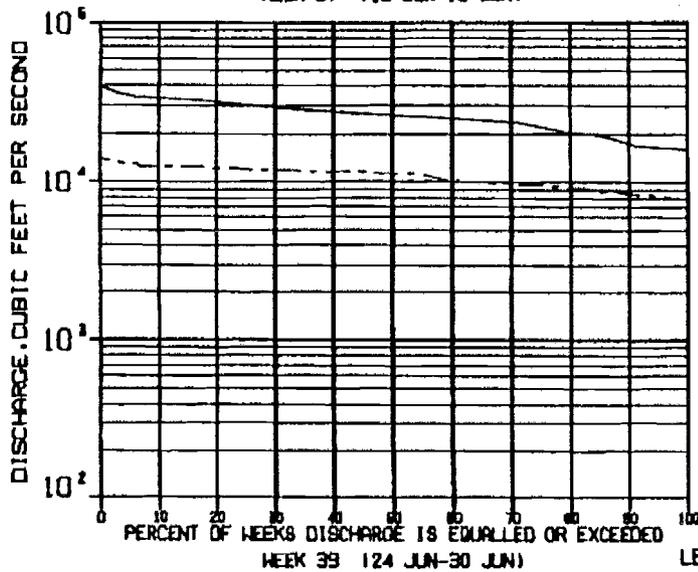
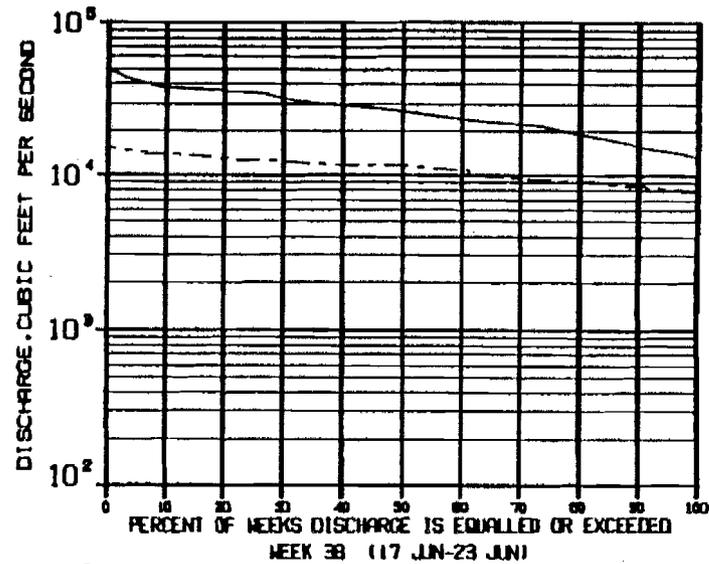
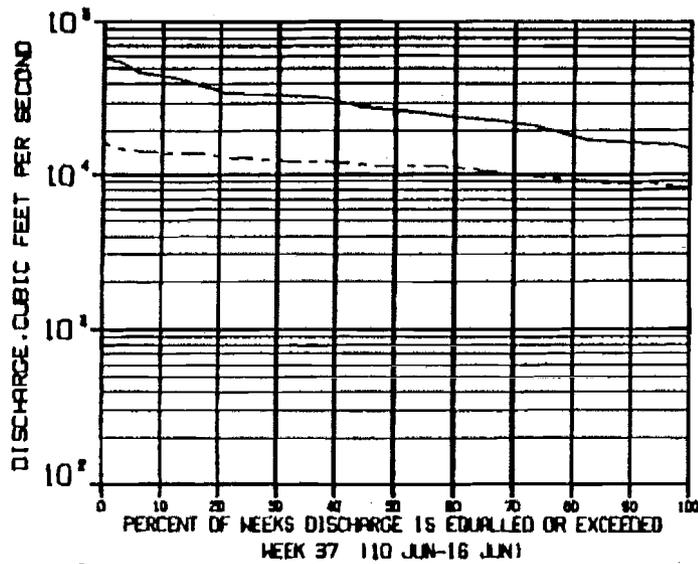
LEGEND

\_\_\_\_\_ NATURAL  
 - - - - - WITH PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBRACCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



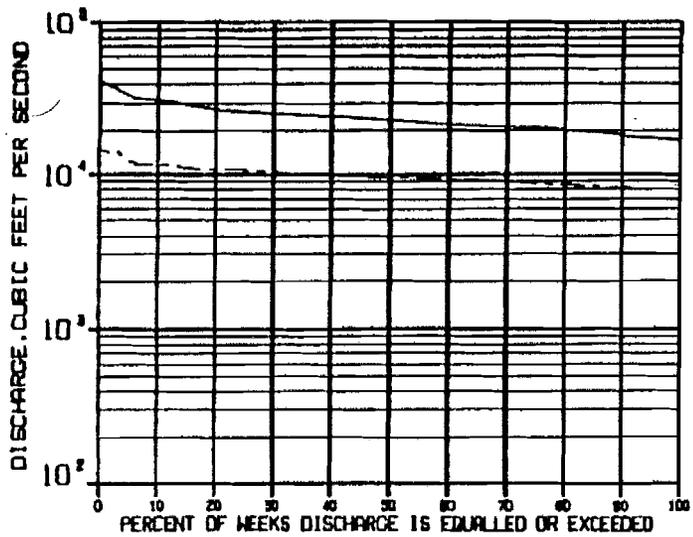
LEGEND

—— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1986  
 (NATANA ONLY)

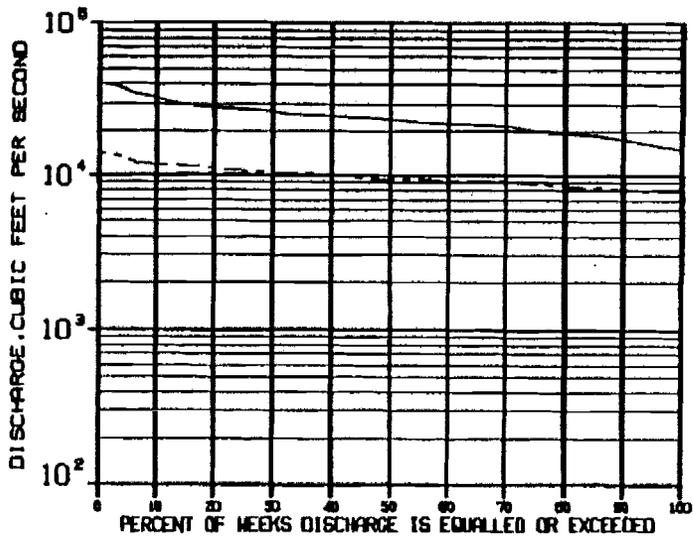
NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

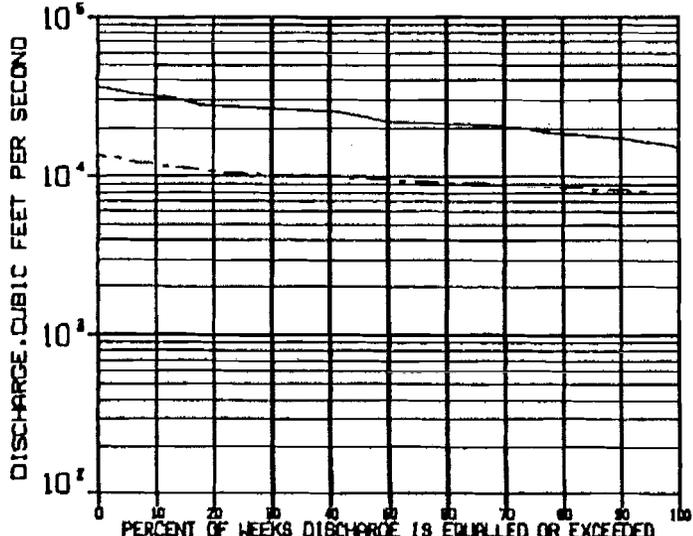
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



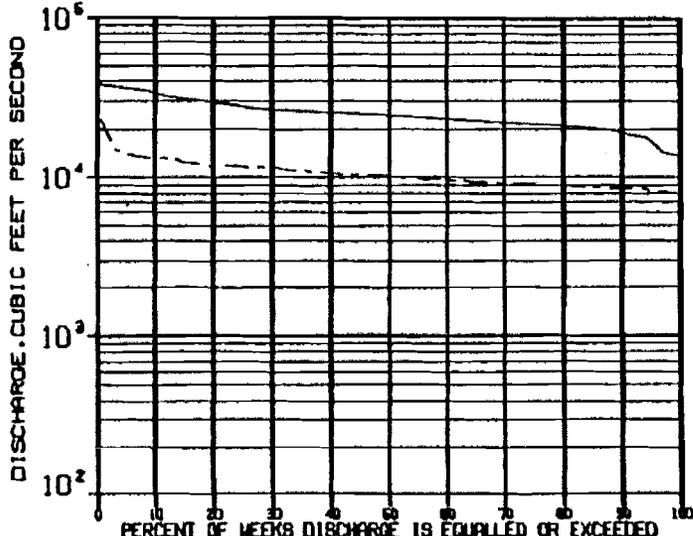
WEEK 41 (18 JUL-14 JUL)



WEEK 42 (16 JUL-21 JUL)



WEEK 43 (22 JUL-29 JUL)



WEEK 44 (29 JUL- 4 AUG)

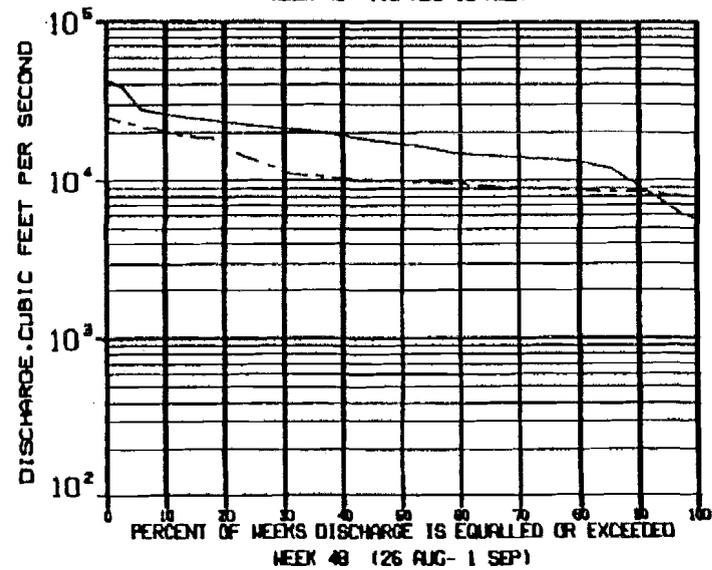
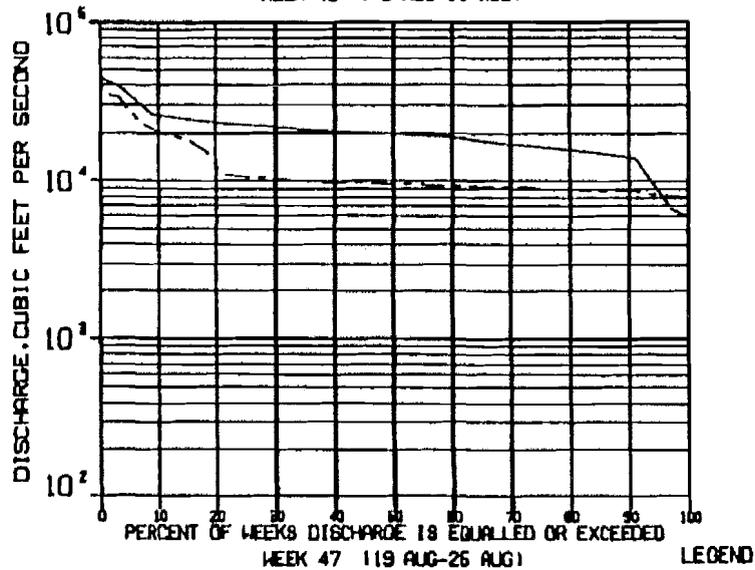
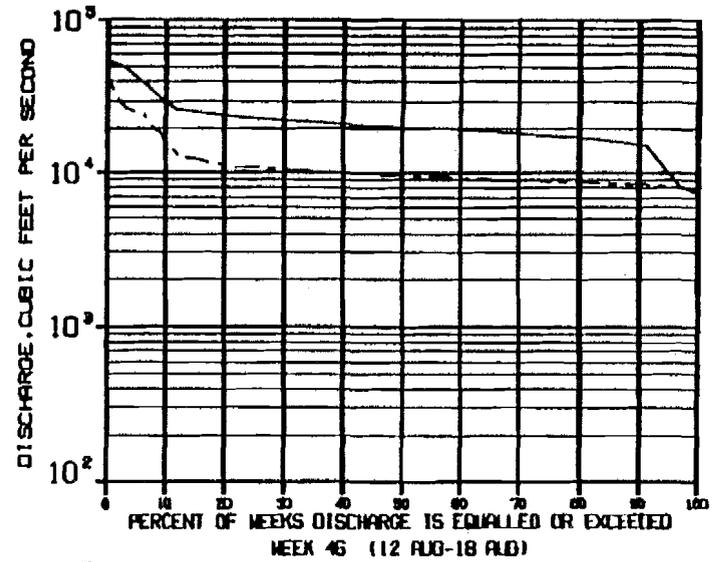
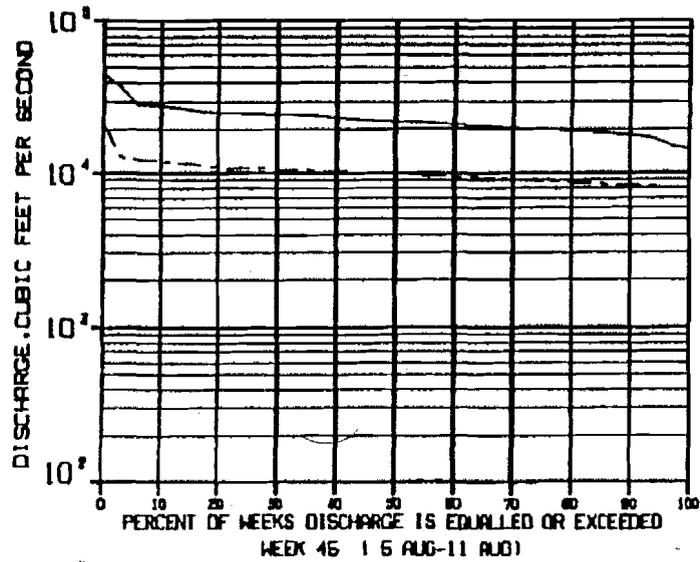
LEGEND

——— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1986  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

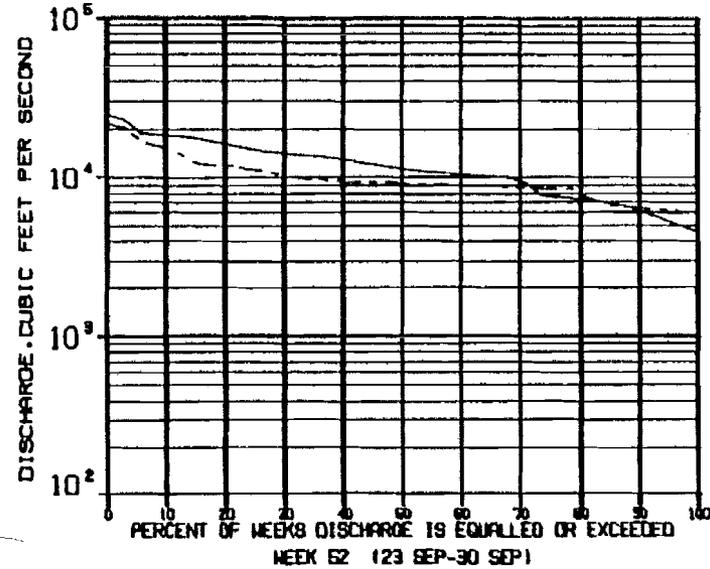
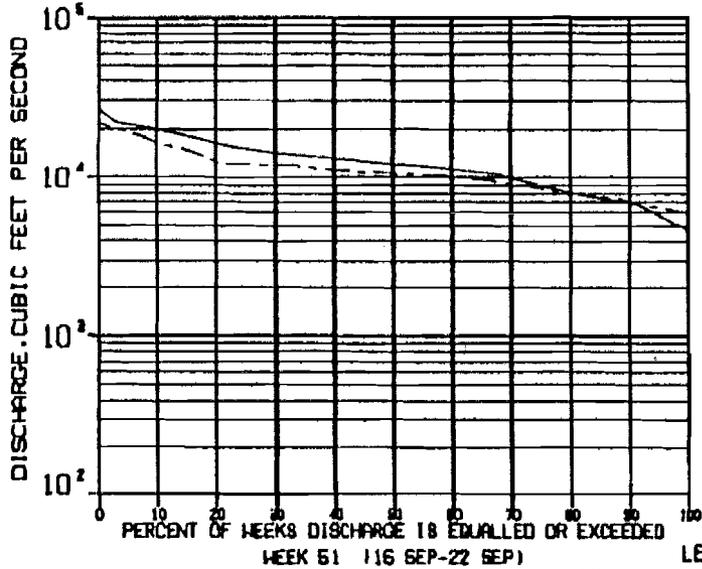
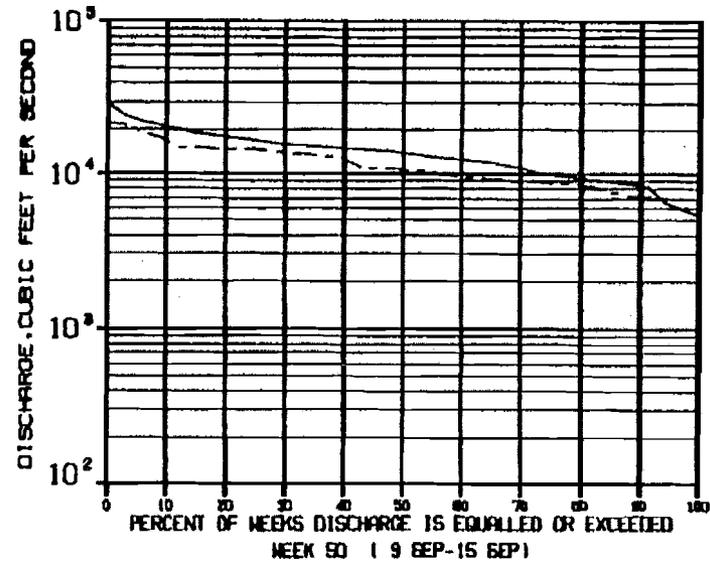
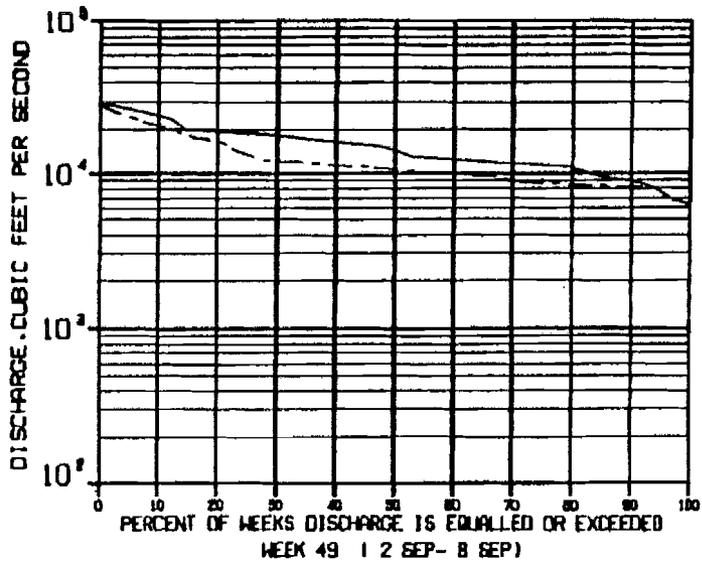
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



NOTE: FLOW PERIOD WATER YEAR 1961-1993  
 HARZA-EBASCO SUBITNA JOINT VENTURE JAN 85

LEGEND  
 — NATURAL  
 - - - WITH-PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



LEGEND

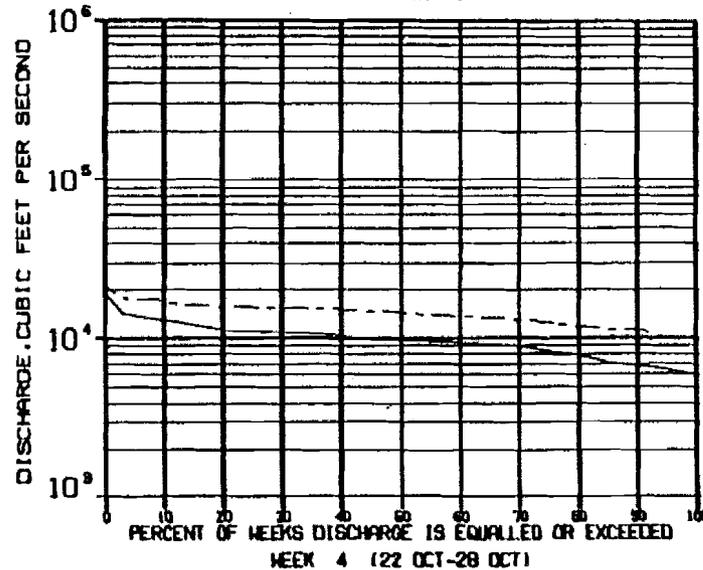
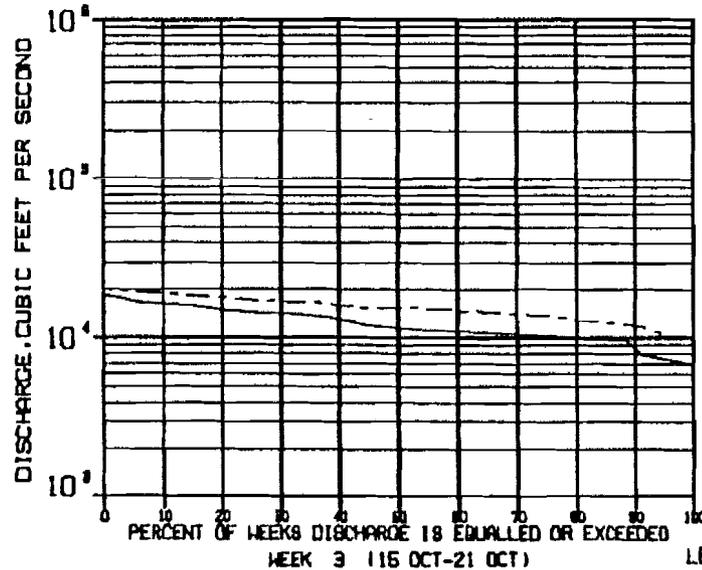
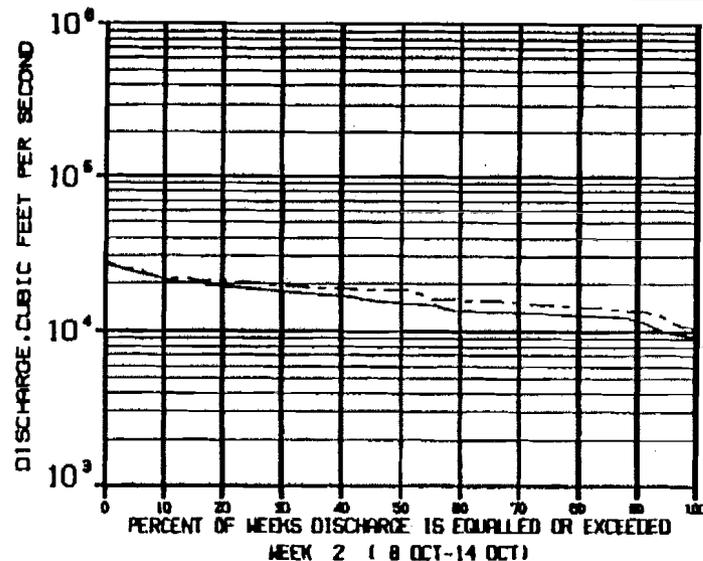
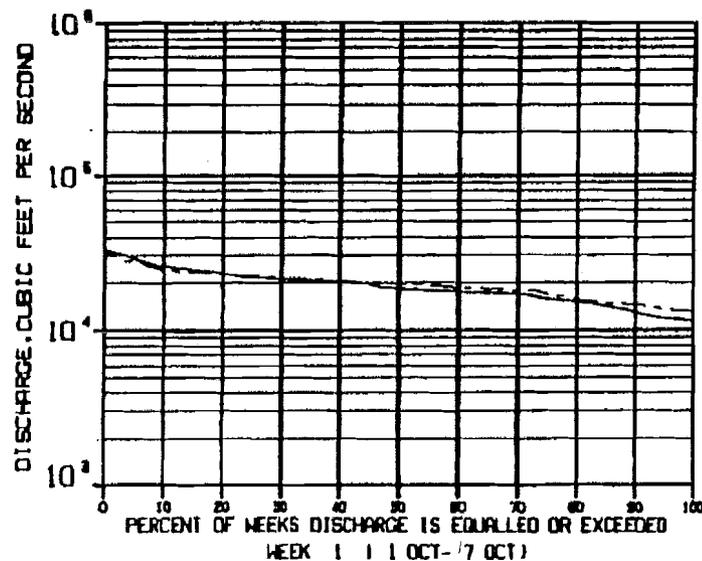
— NATURAL  
 - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT COLD CREEK

**EXHIBIT 4**

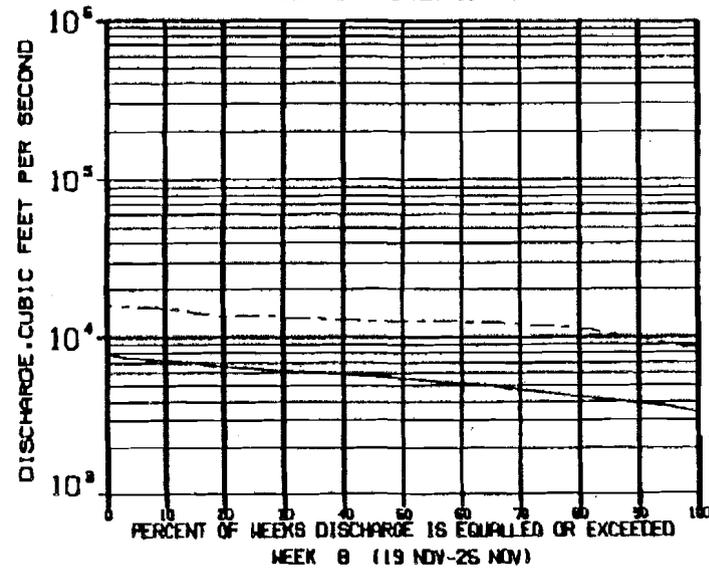
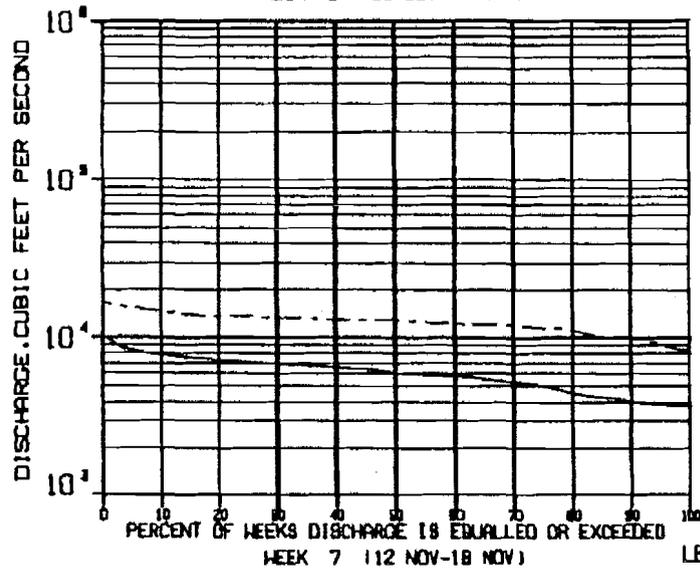
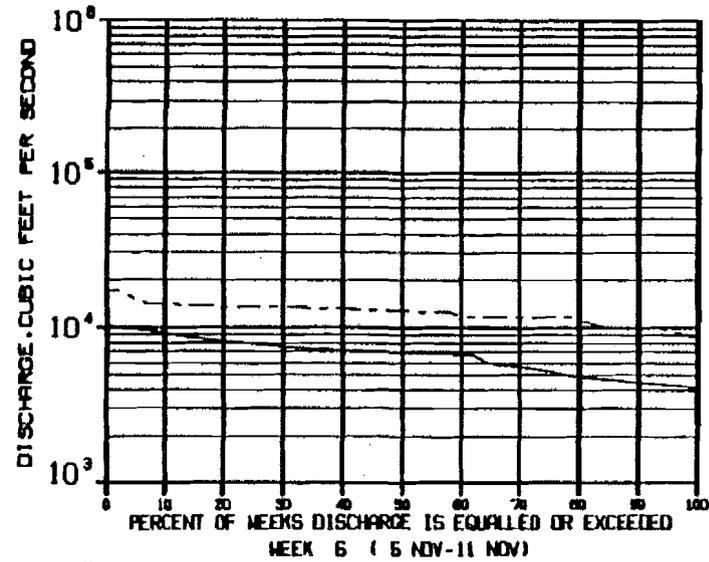
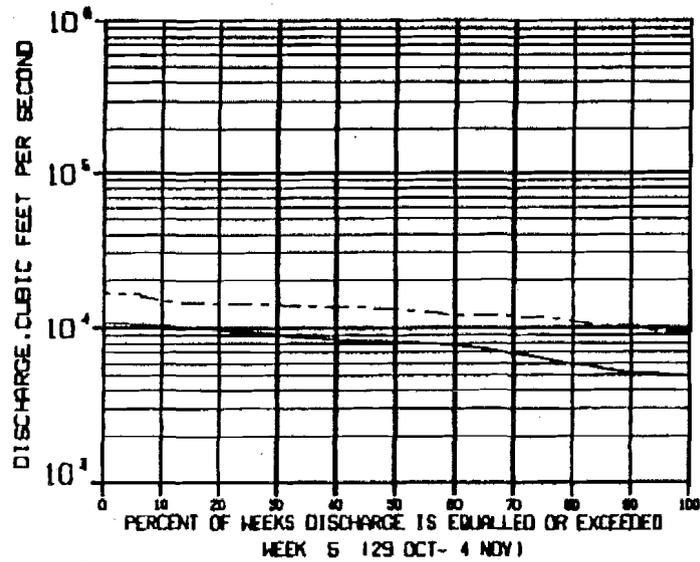


LEGEND

—— NATURAL  
 - - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



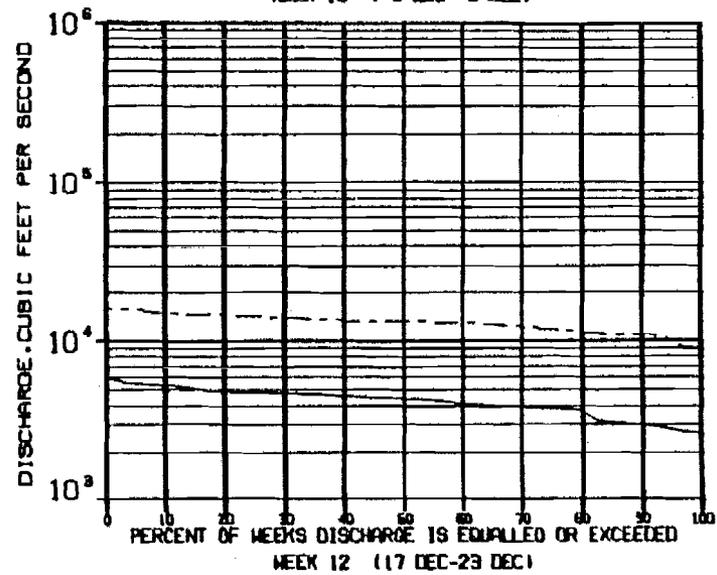
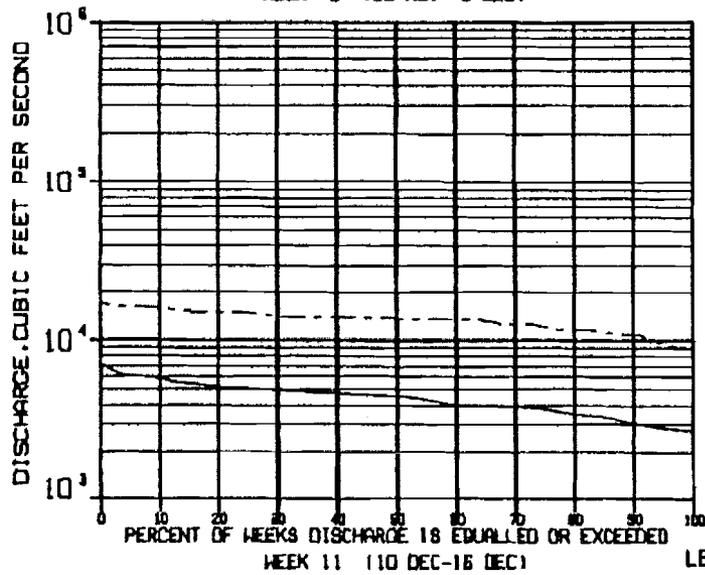
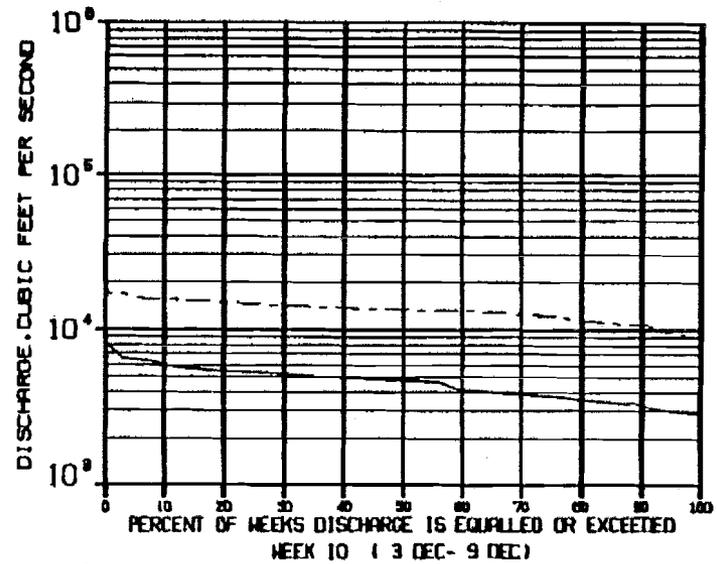
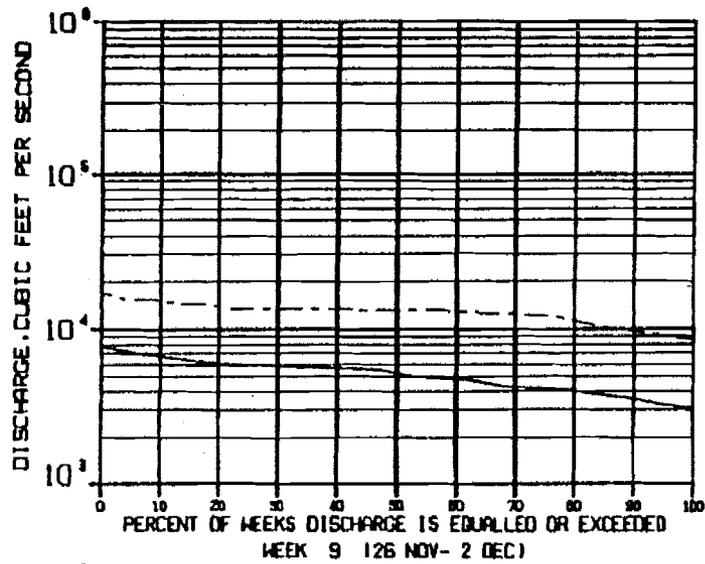
LEGEND

—— NATURAL  
 - - - - WITH PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBAGCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



LEGEND

———— NATURAL

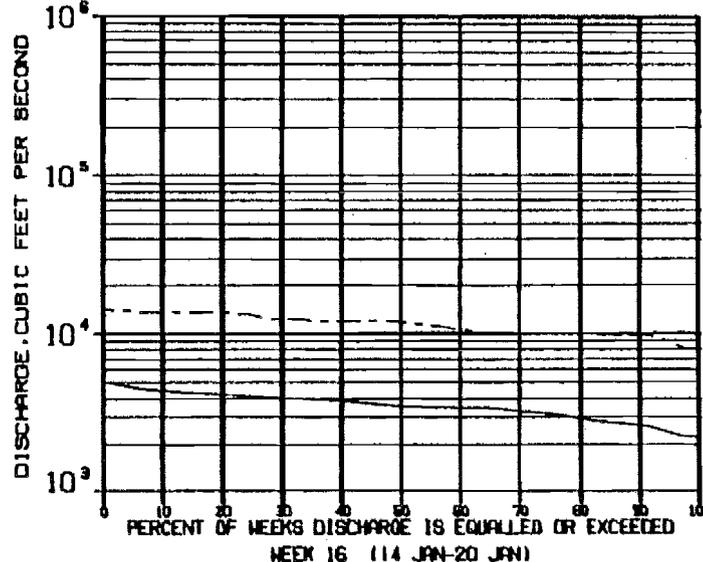
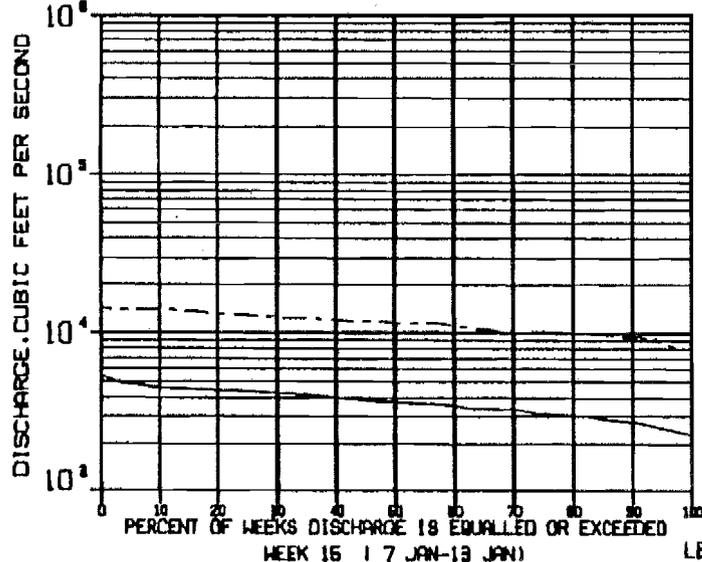
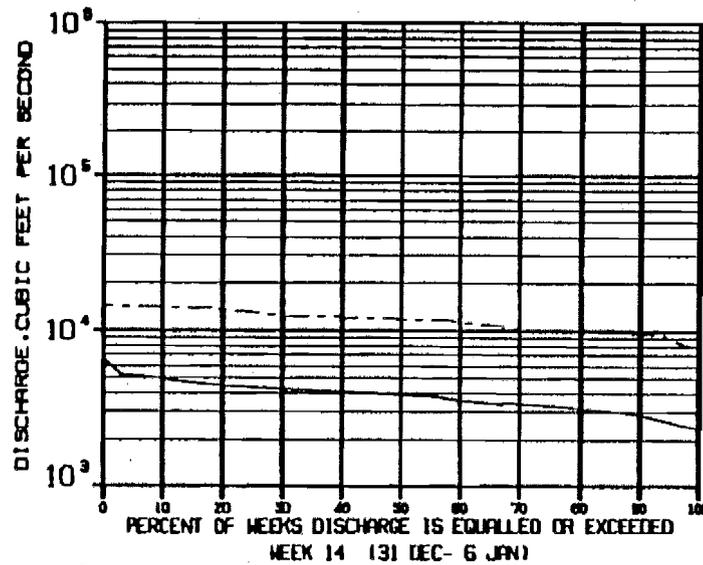
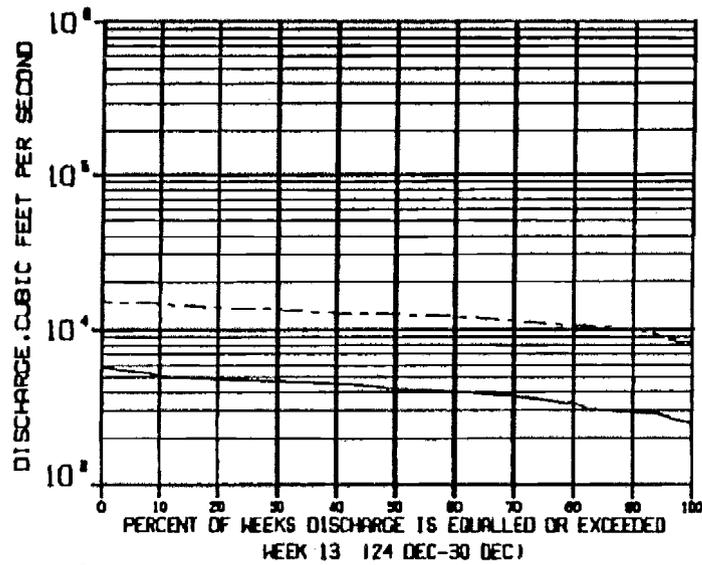
----- WITH-PROJECT

CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 1996  
(HATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUBITNA JOINT VENTURE JAN 85

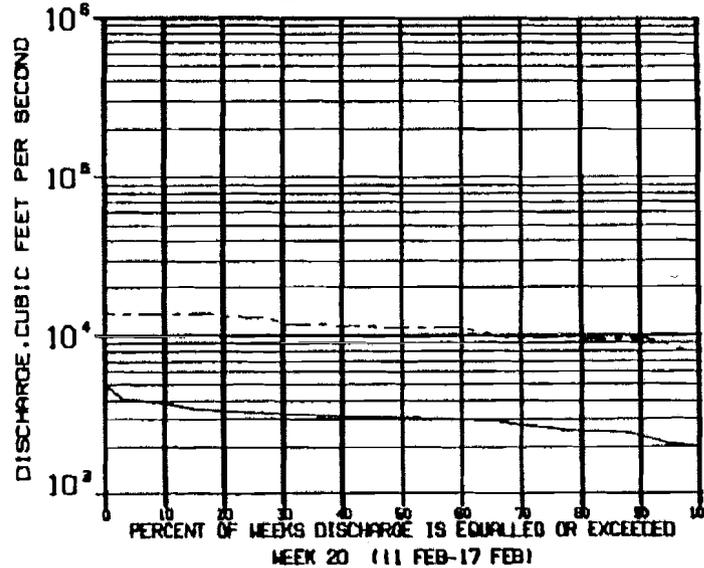
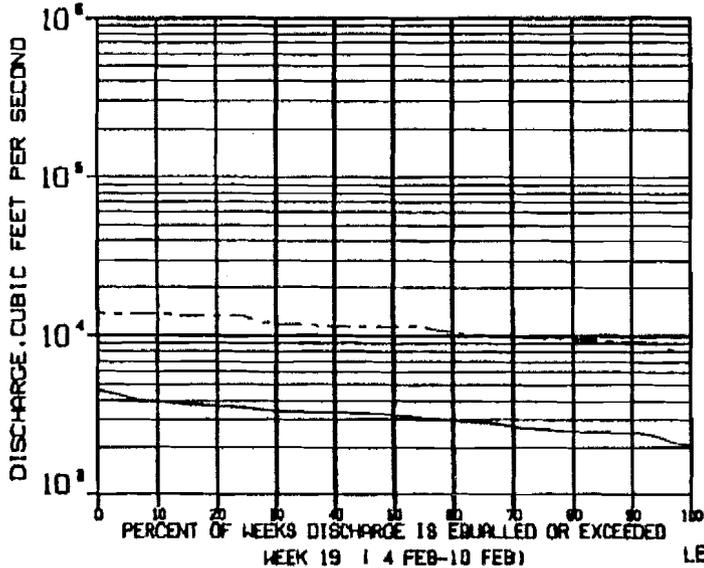
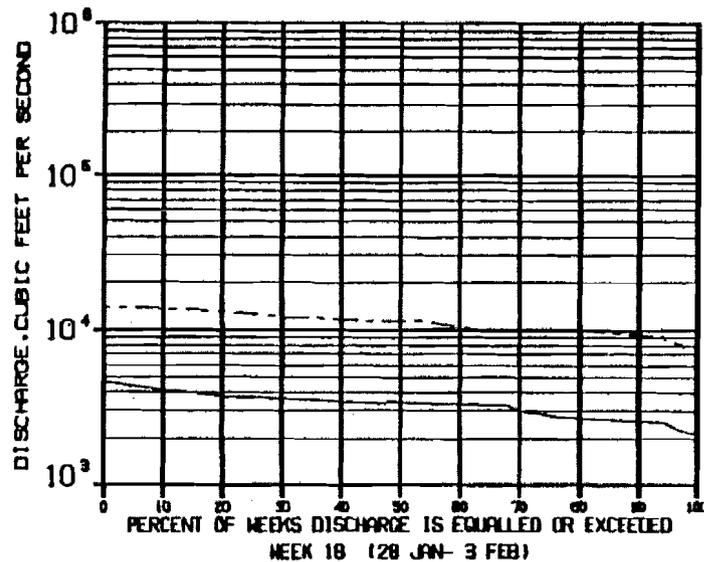
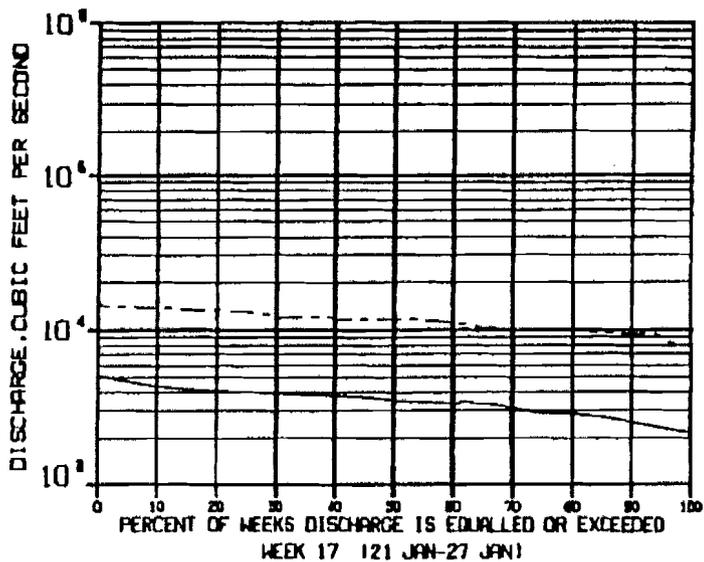
FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT SUNSHINE



NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

LEGEND  
 — NATURAL  
 - - - WITH-PROJECT  
 — CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

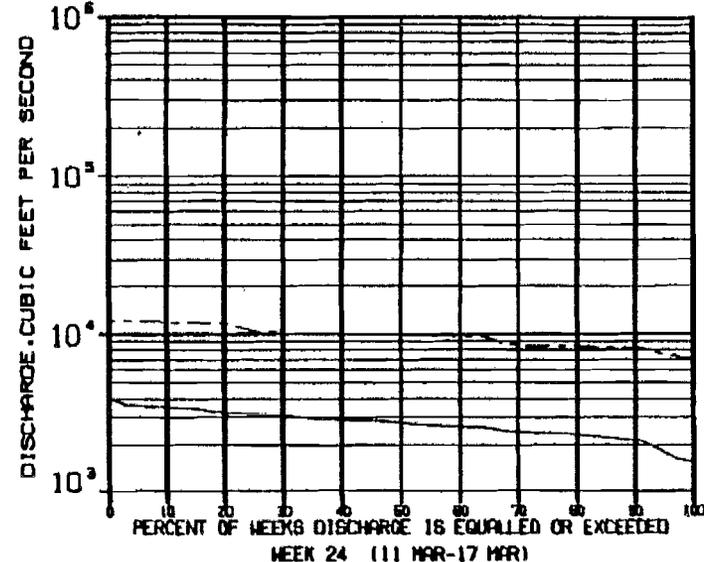
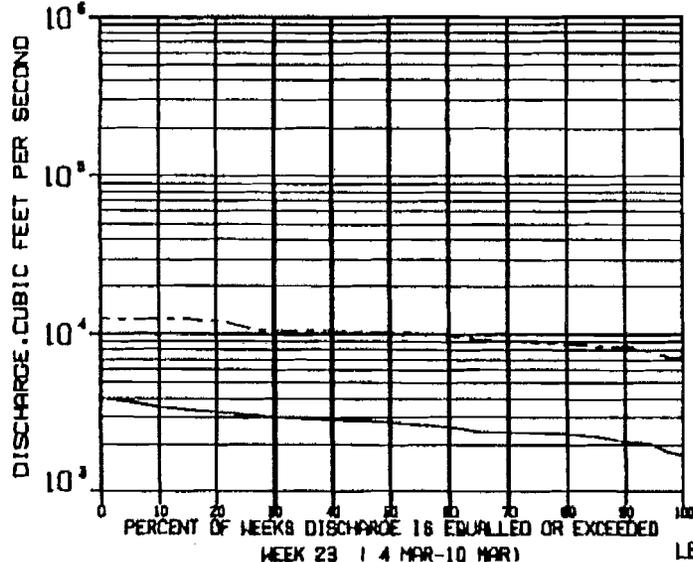
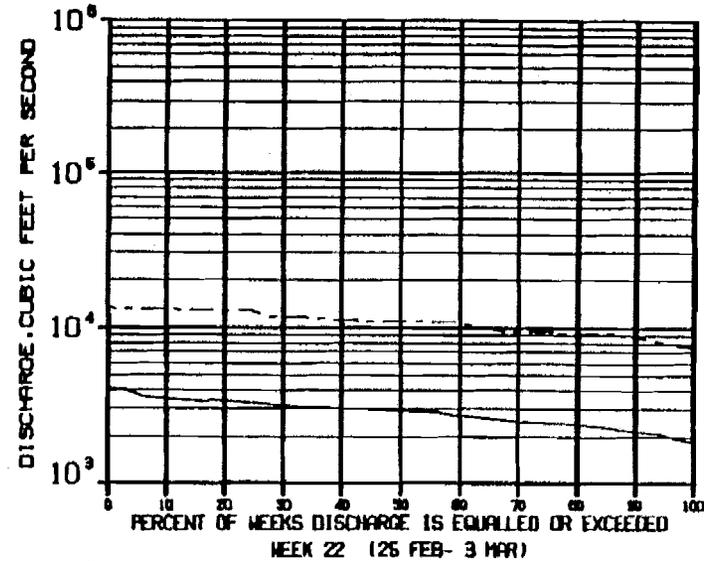
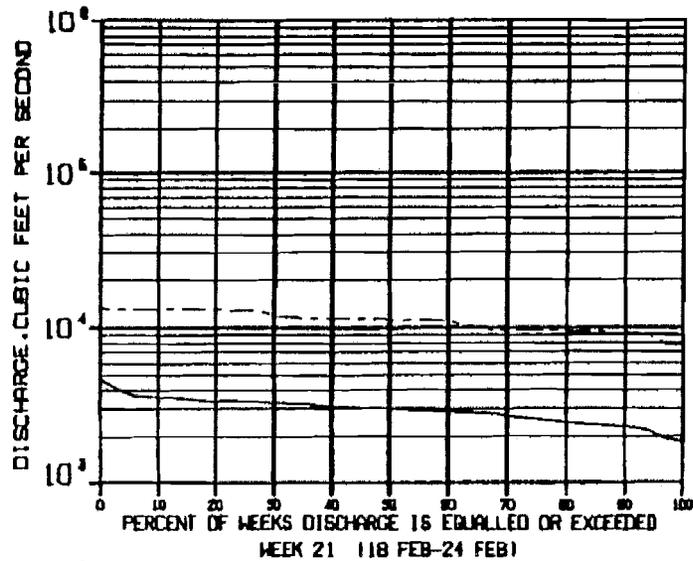
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



——— NATURAL  
 - - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

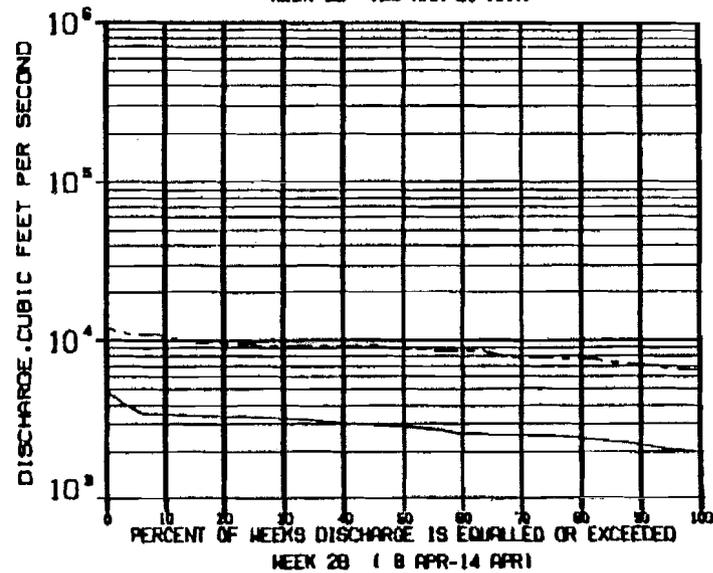
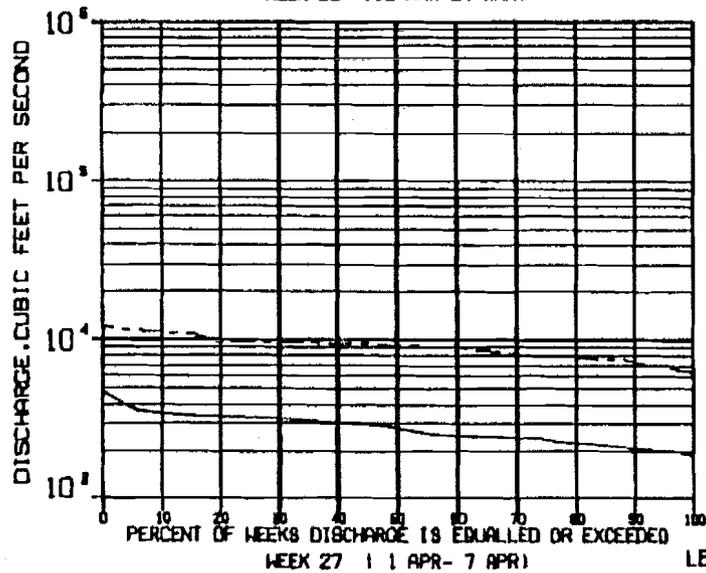
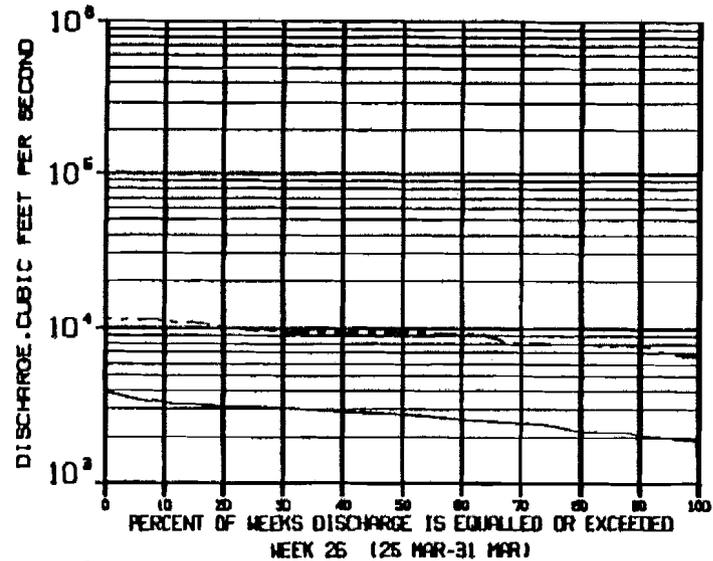
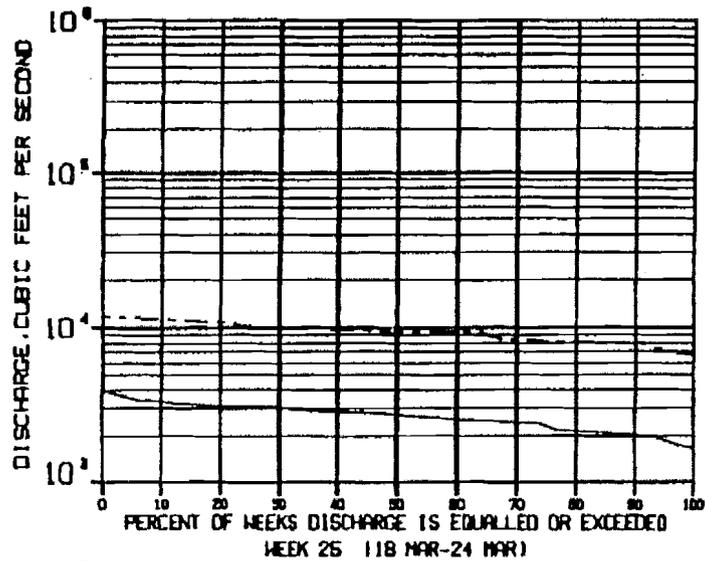
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



NOTE: FLOW PERIOD WATER YEAR 1951-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

LEGEND  
 ——— NATURAL  
 - - - WITH-PROJECT  
 - - - CASE E-VI TARGET FLOW  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



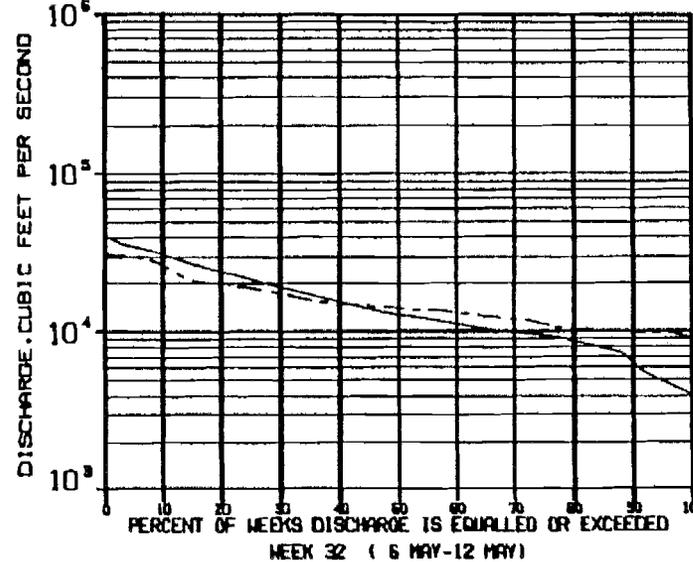
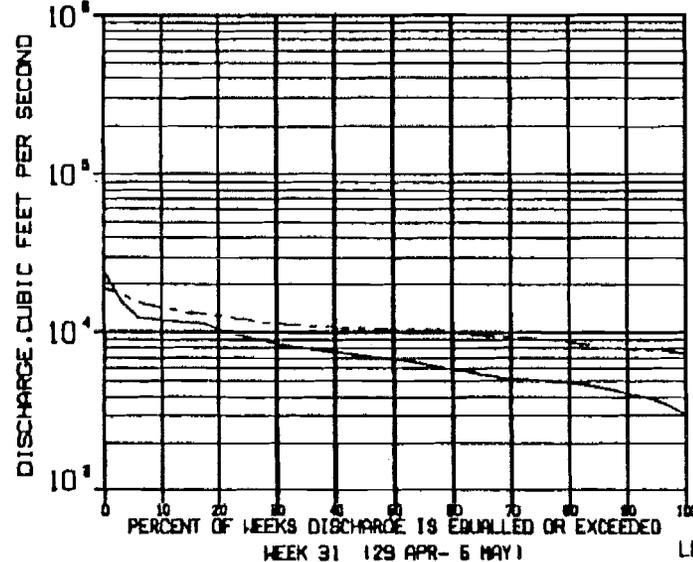
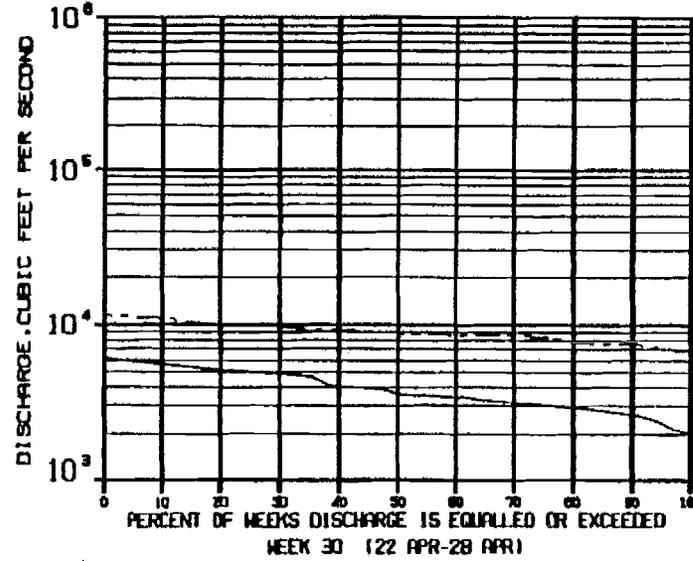
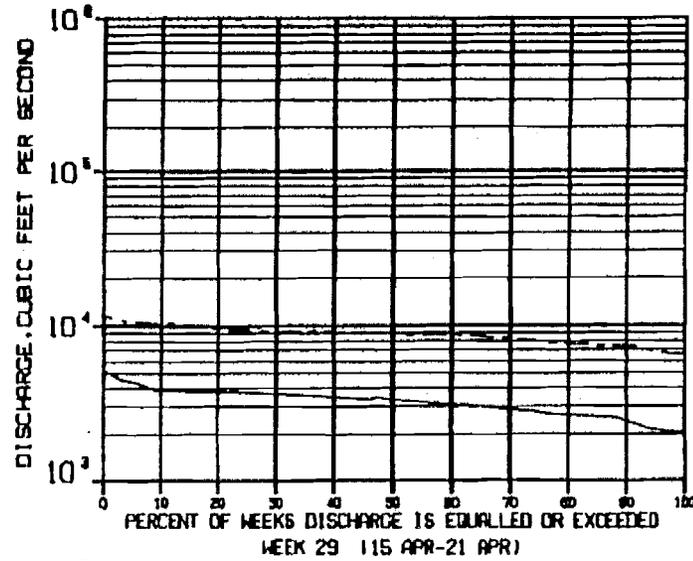
LEGEND

—— NATURAL  
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 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1986  
 (NATANA ONLY)

NOTE, FLOW PERIOD WATER YEAR 1961-1962

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

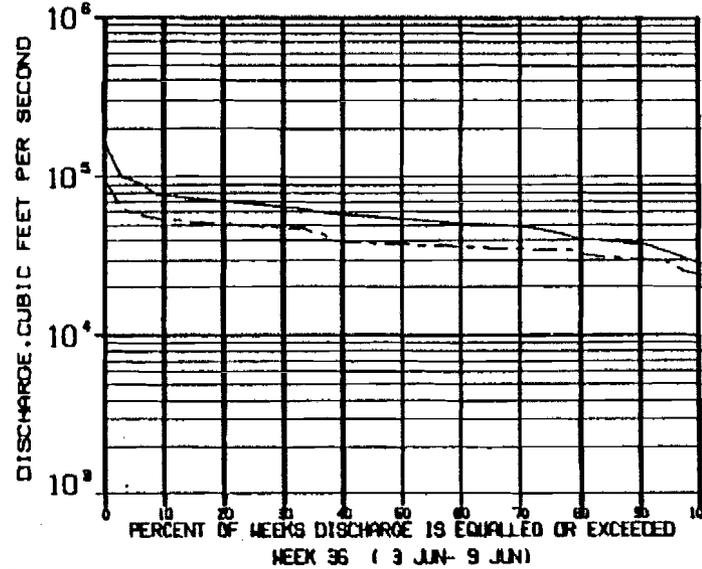
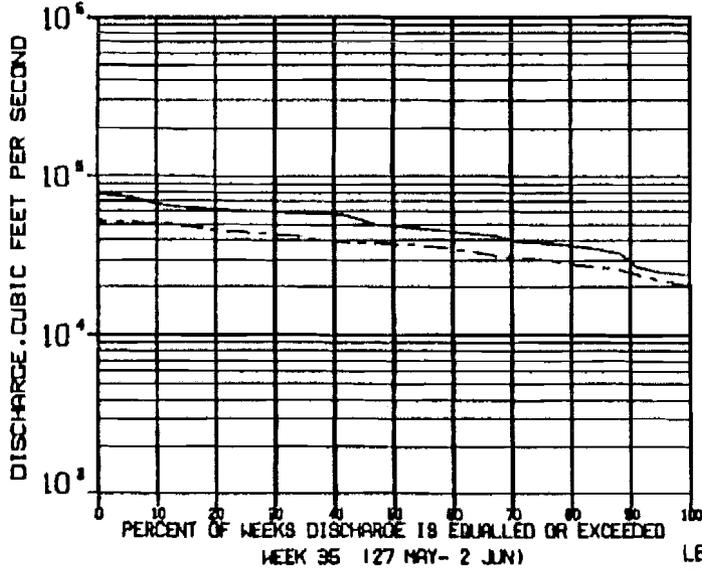
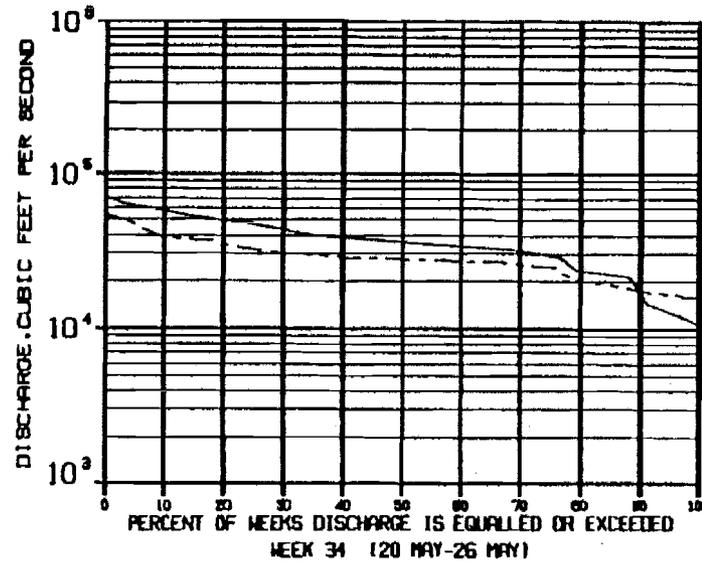
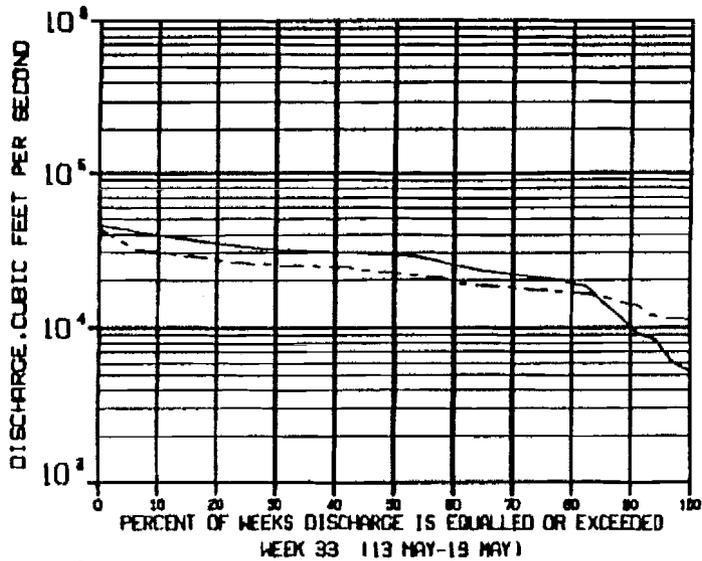
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

LEGEND  
 ——— NATURAL WITH-PROJECT  
 - - - CASE E-VI TARGET FLOWS FOR LOAD CONDITIONS 1996 (NATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



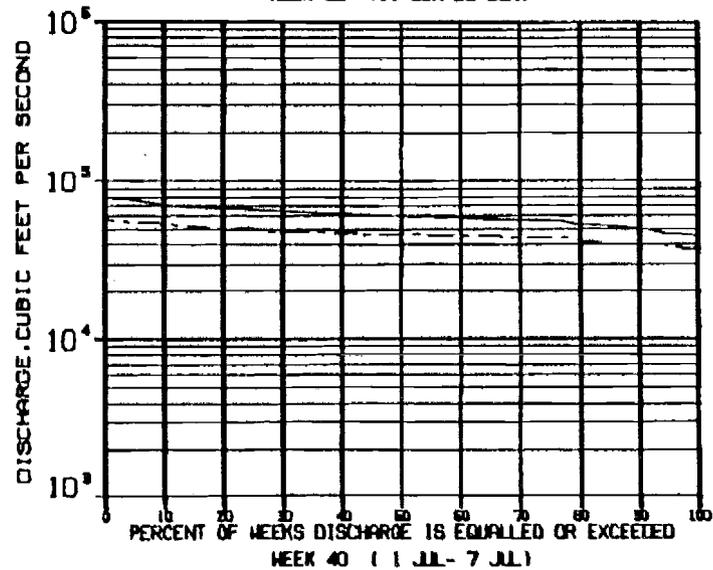
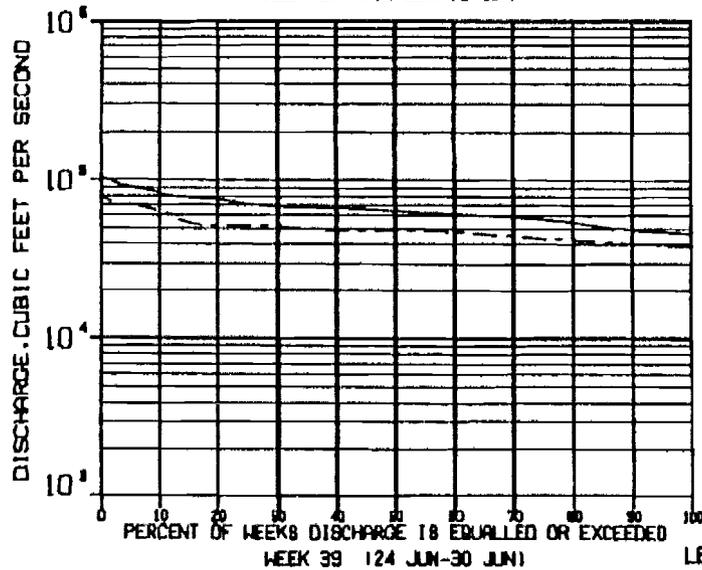
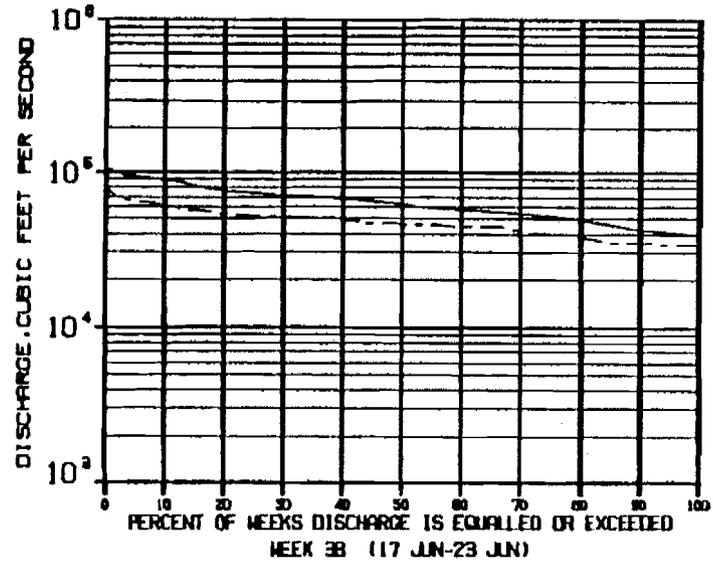
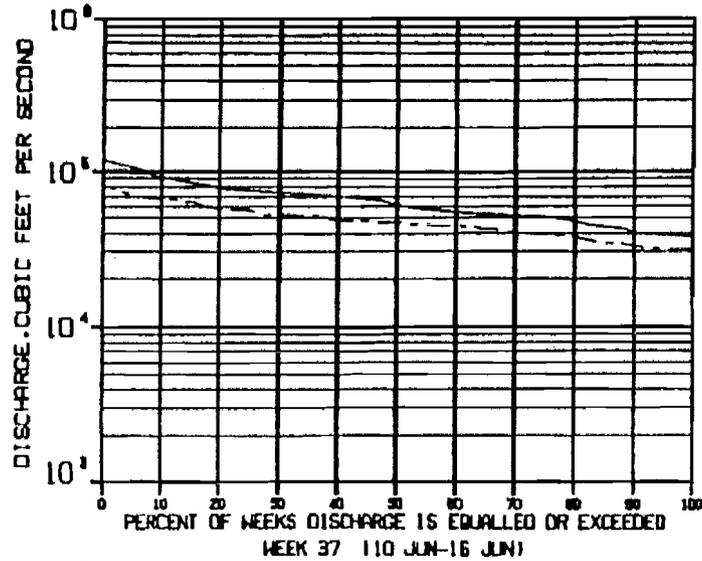
LEGEND

- NATURAL
  - - - - - WITH-PROJECT
- CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 1996  
(NATANA ONLY)

NOTE, FLOW PERIOD WATER YEAR 1961-1993

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT SUNSHINE

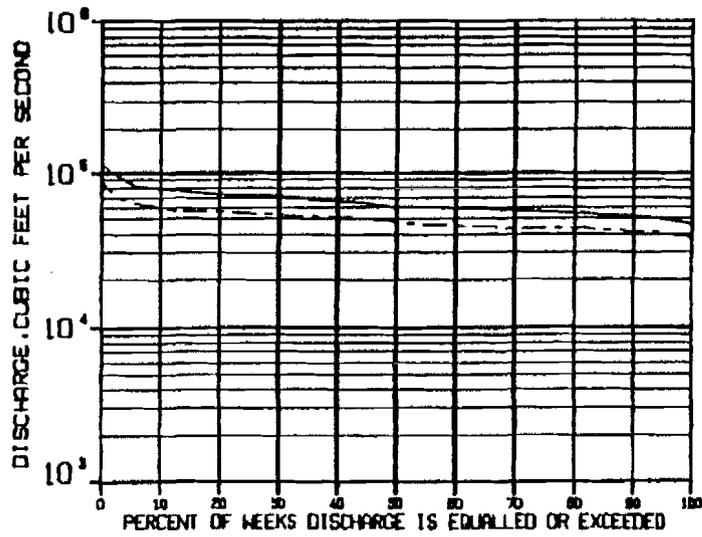


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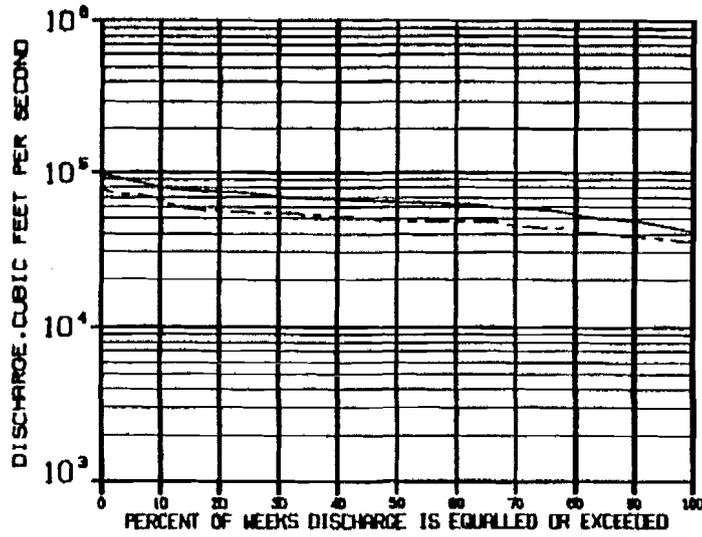
——— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

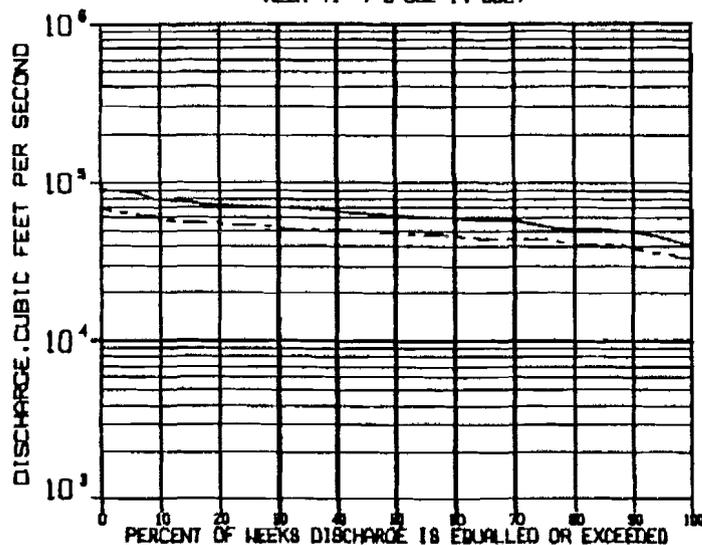
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



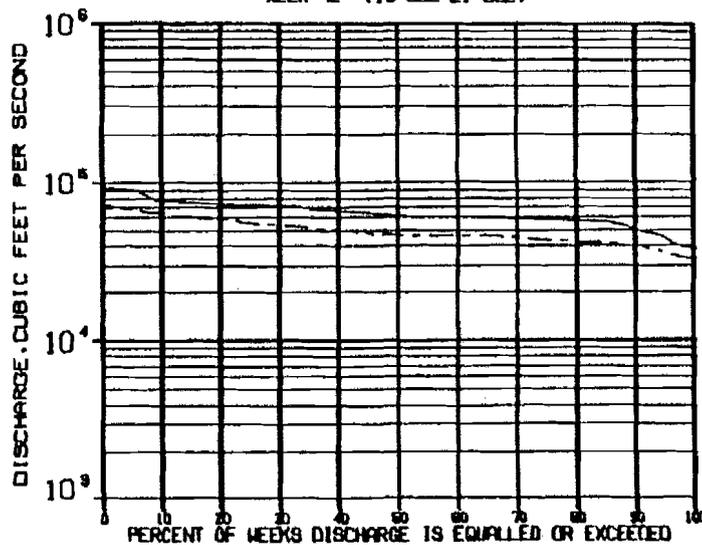
WEEK 41 (18 JUL-14 JUL)



WEEK 42 (16 JUL-21 JUL)



WEEK 43 (22 JUL-28 JUL)



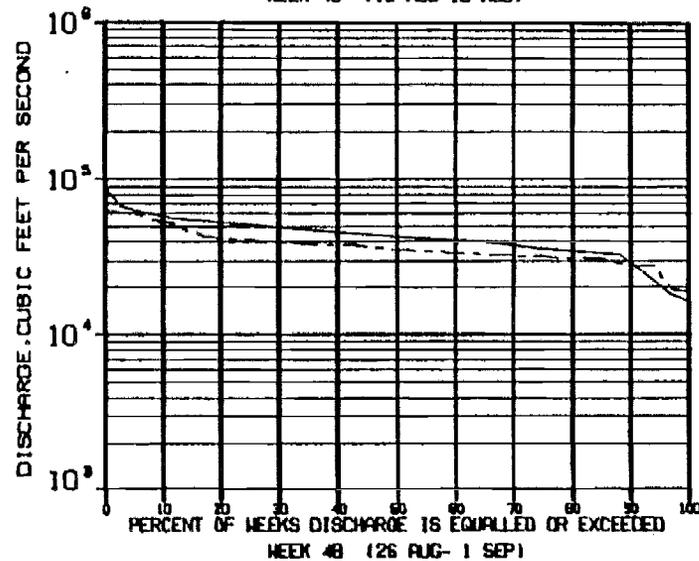
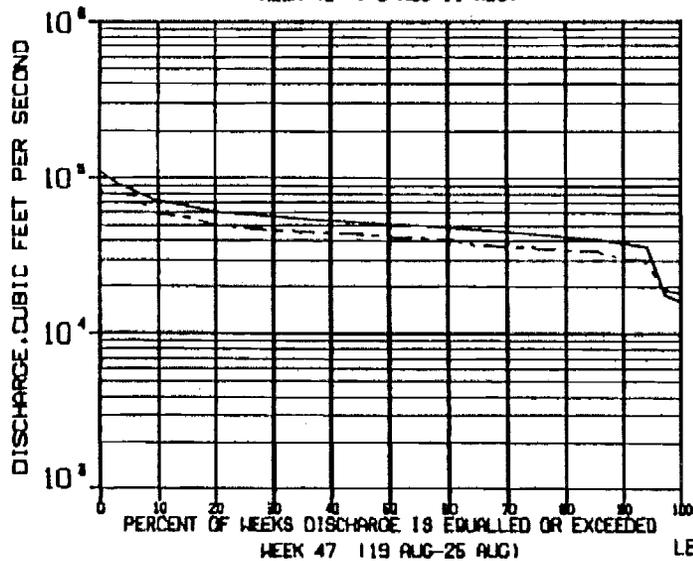
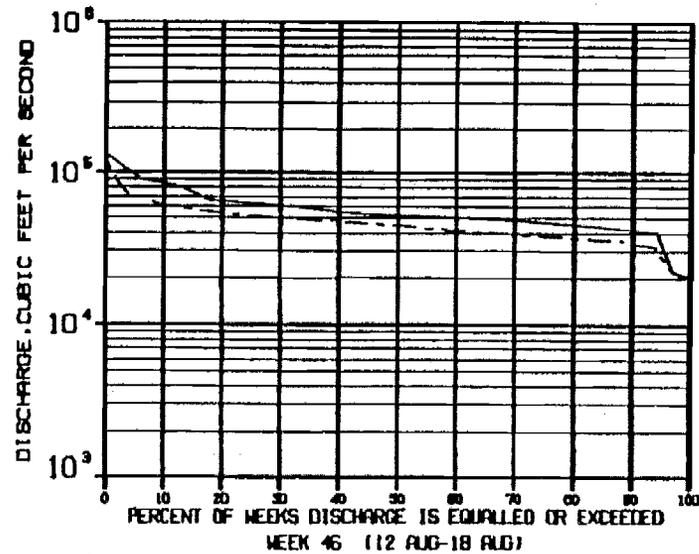
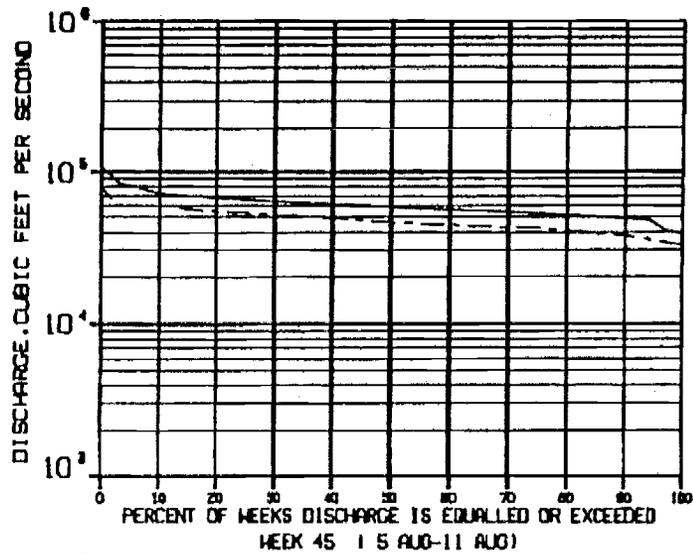
WEEK 44 (29 JUL- 4 AUG)

LEGEND

——— NATURAL  
 - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSTINA JOINT VENTURE JAN 86

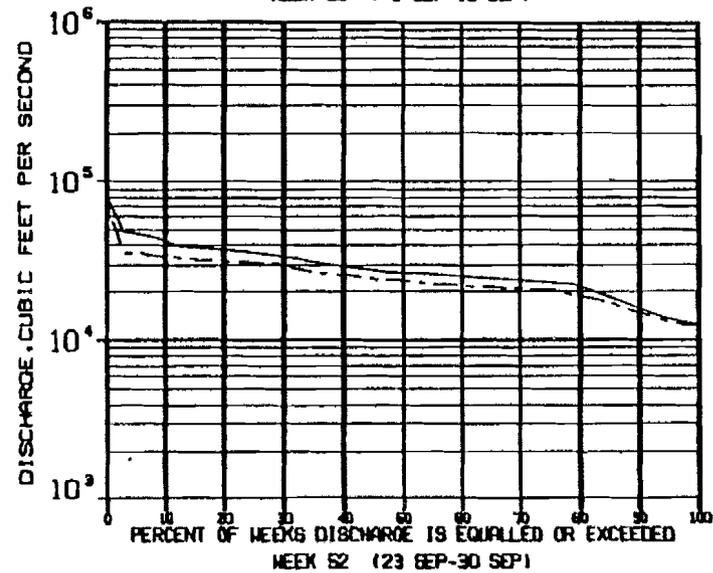
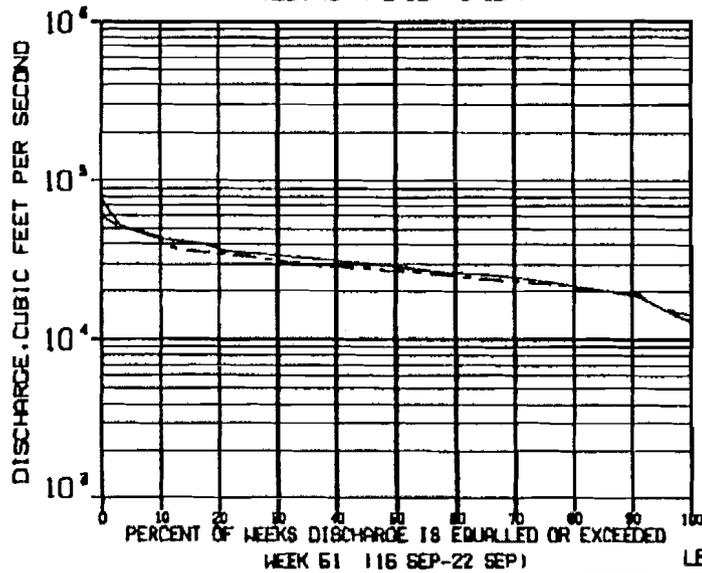
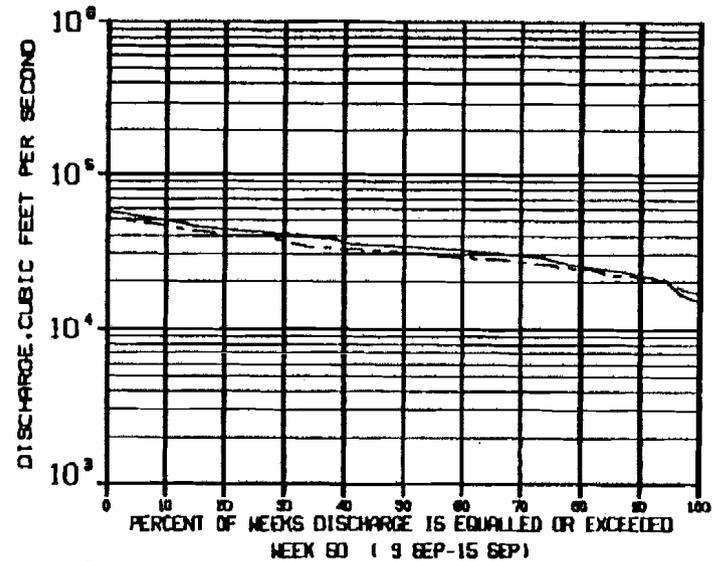
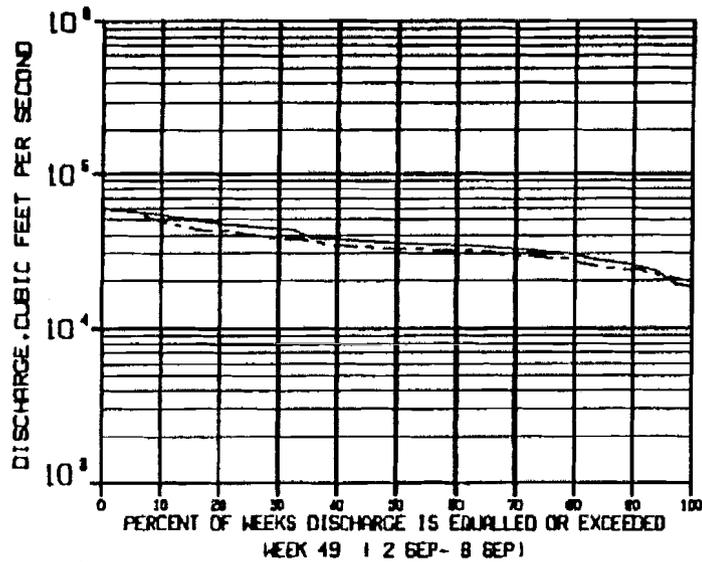
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSTINA RIVER AT SUNSHINE



——— NATURAL  
 - - - WITH PROJECT;  
 CASE E-VI TARGET FLOW  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



LEGEND

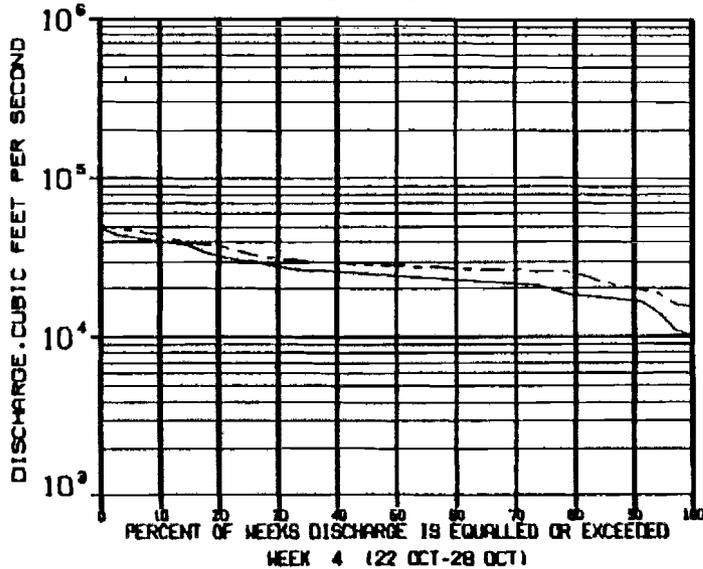
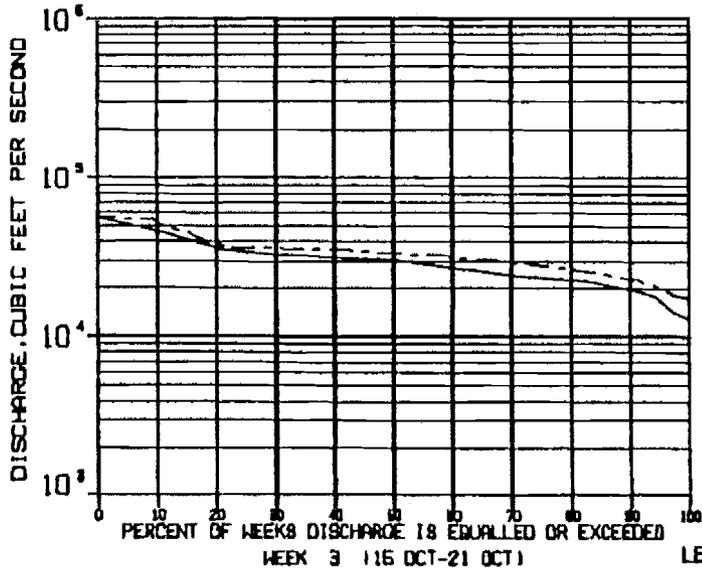
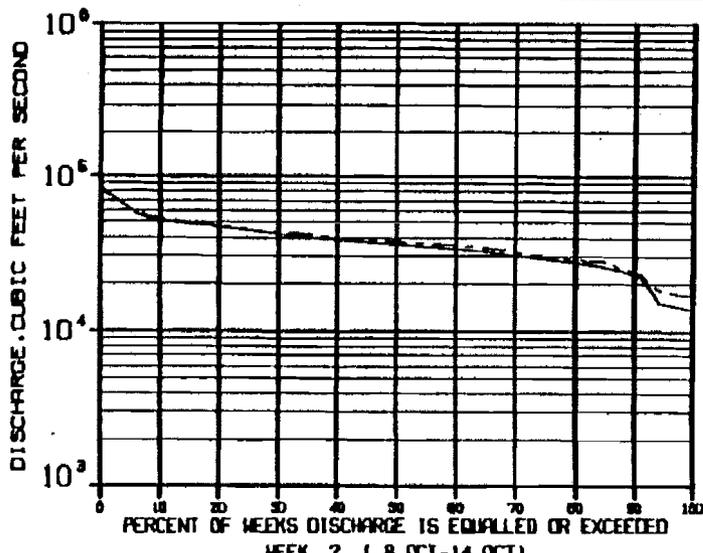
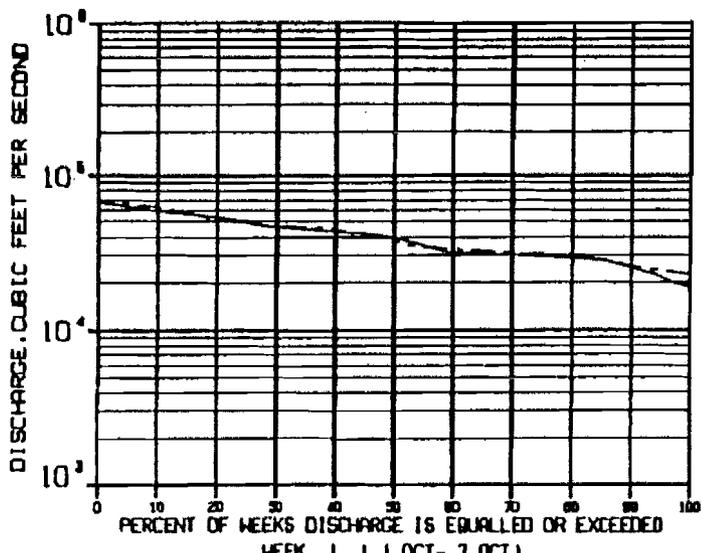
———— NATURAL  
 - - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1989

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE

**EXHIBIT 5**



LEGEND

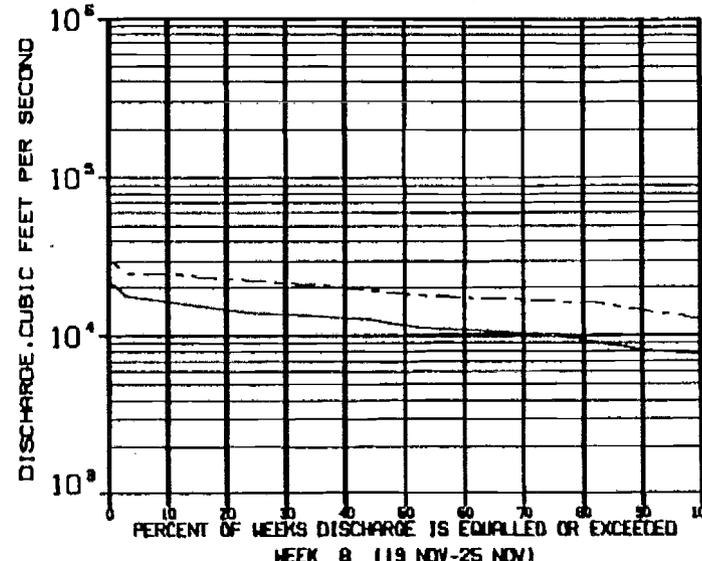
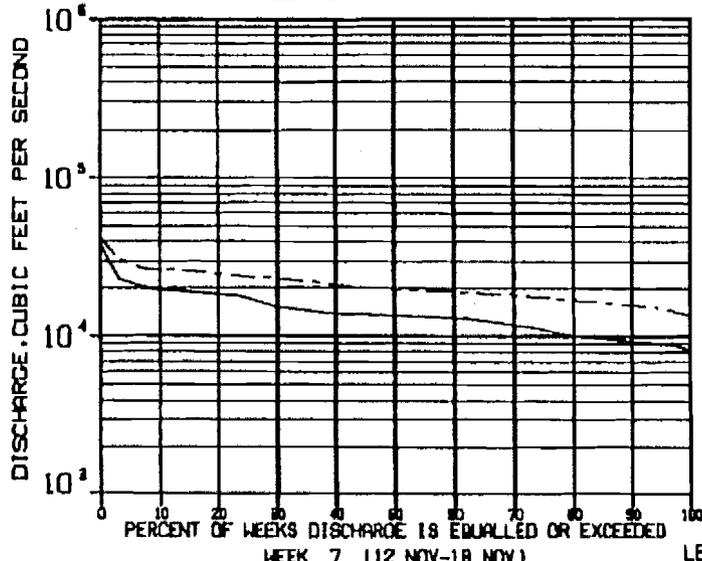
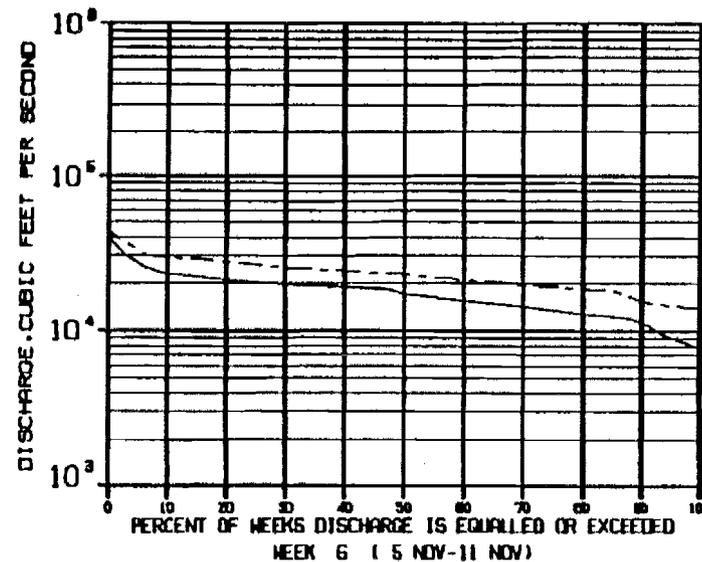
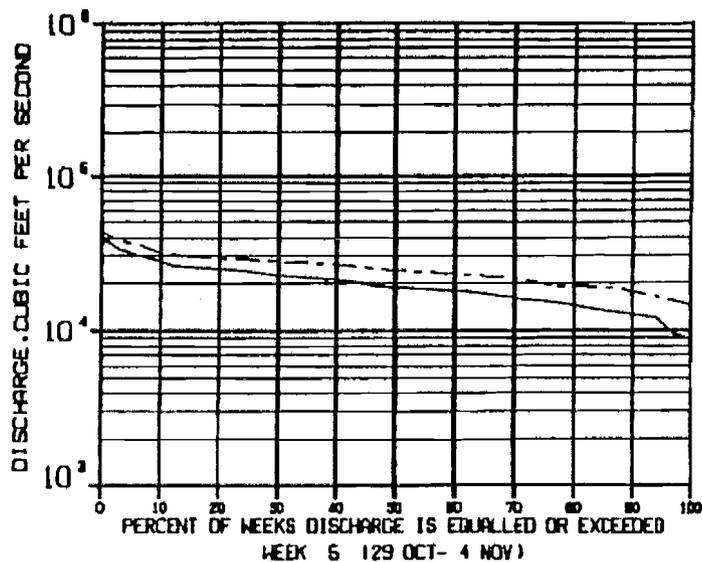
———— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1986  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION

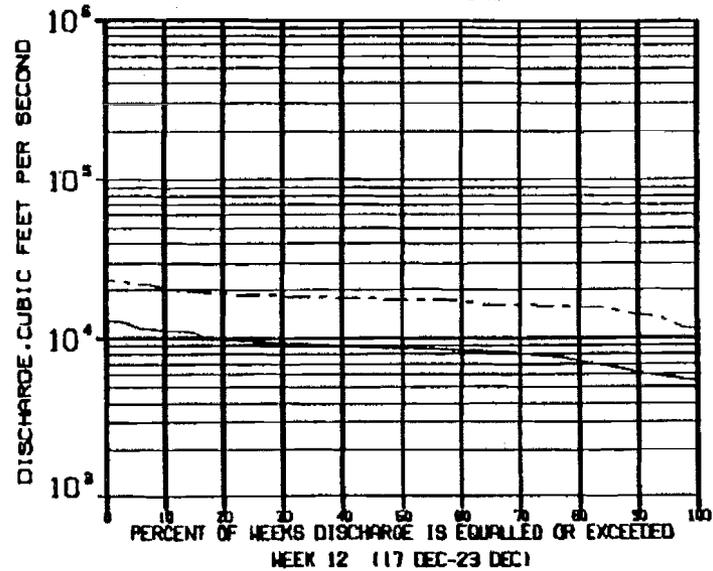
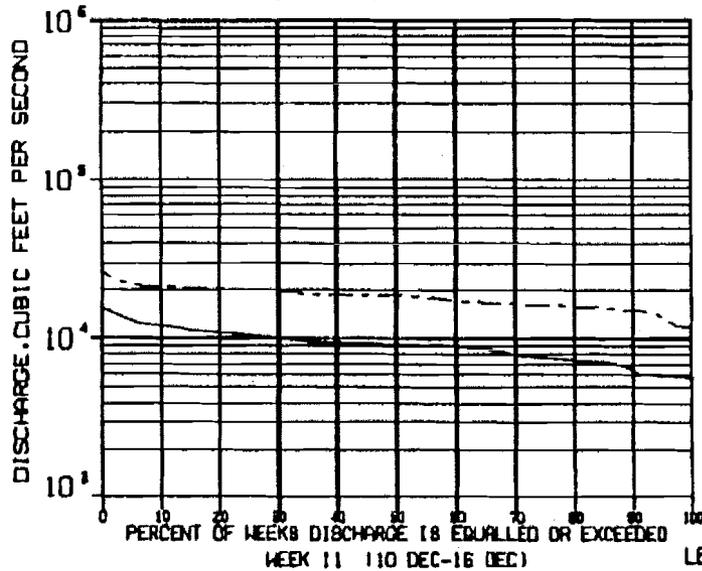
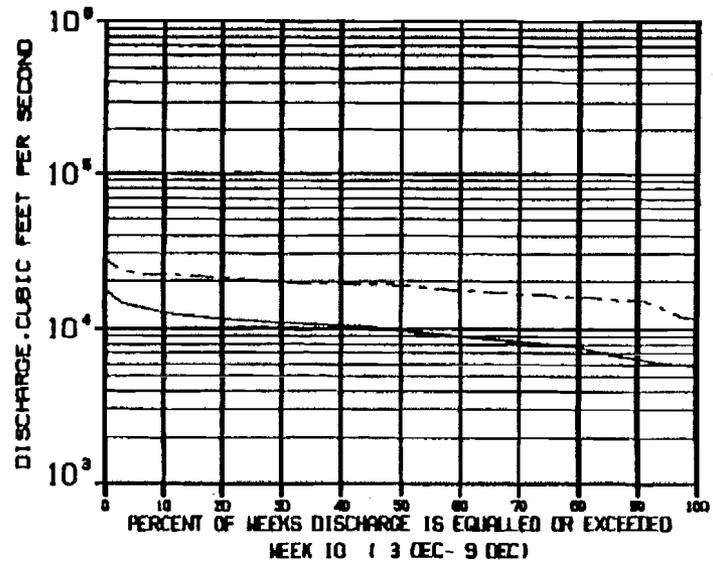
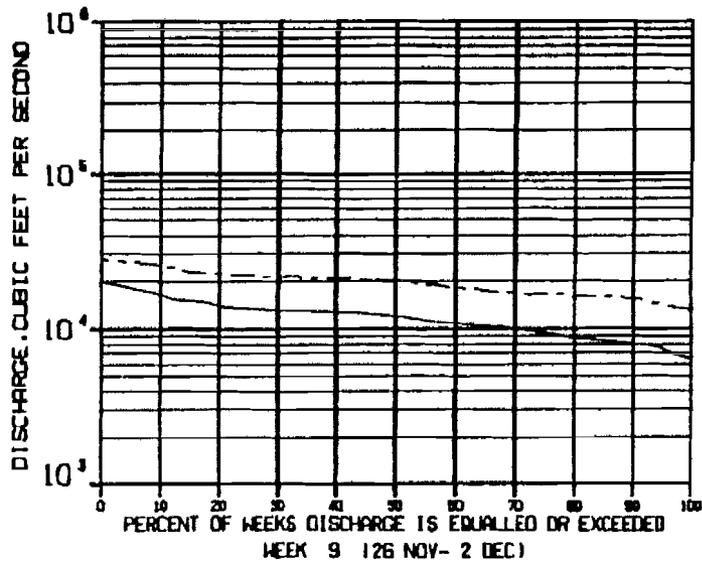
EXHIBIT 5  
 SHEET 1 OF 13



NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

———— NATURAL  
 - - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION



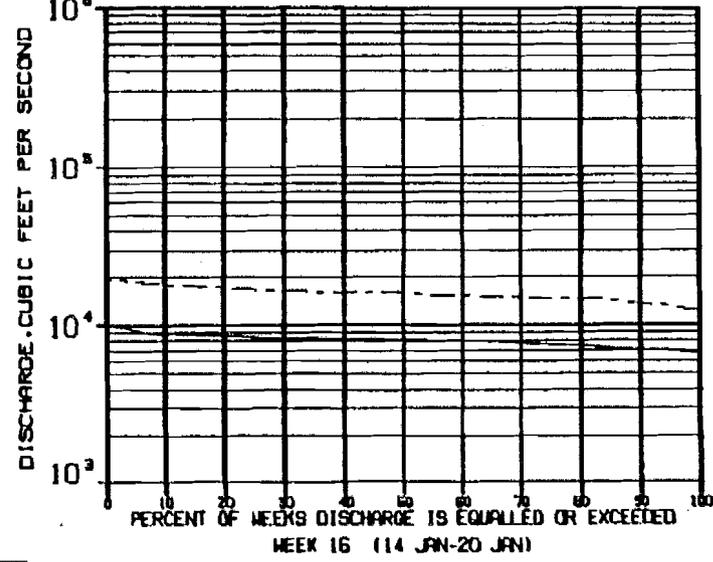
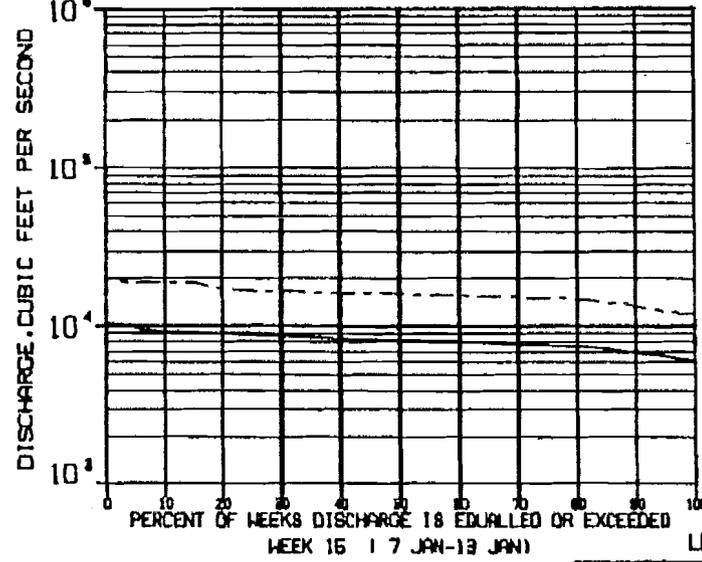
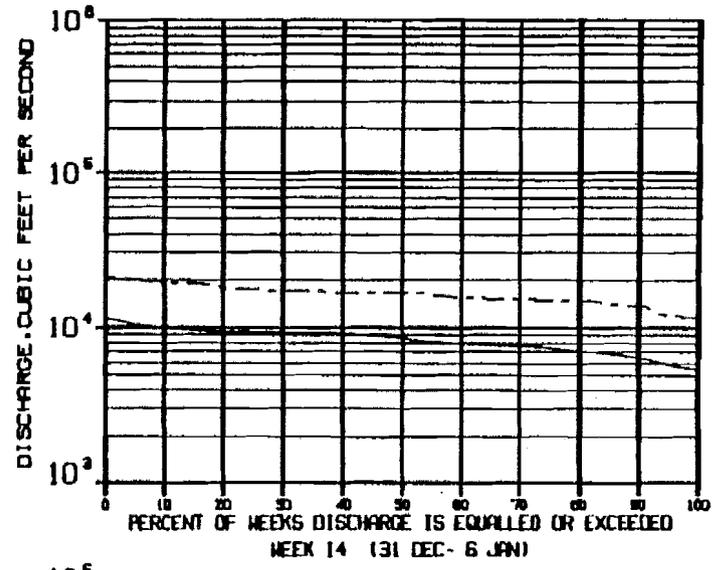
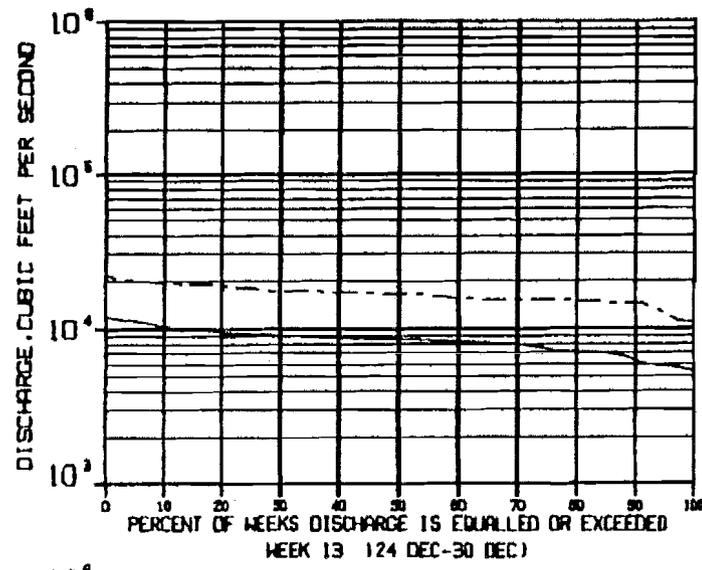
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——— NATURAL  
 - - - WITH-PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION

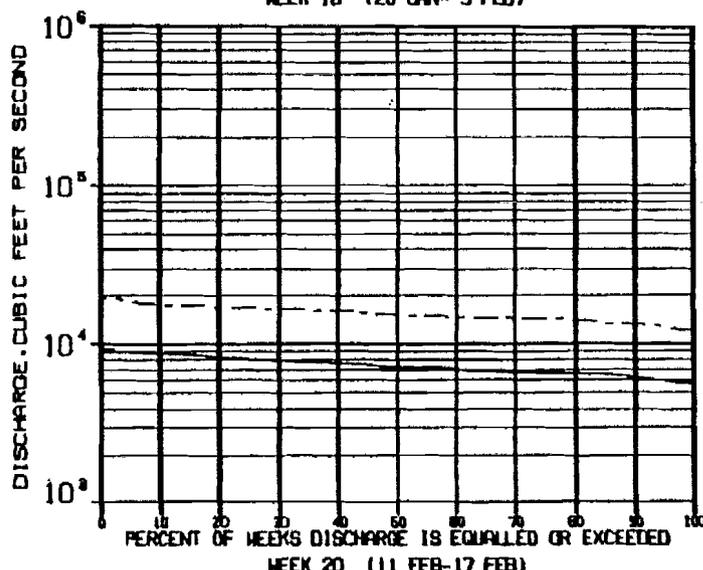
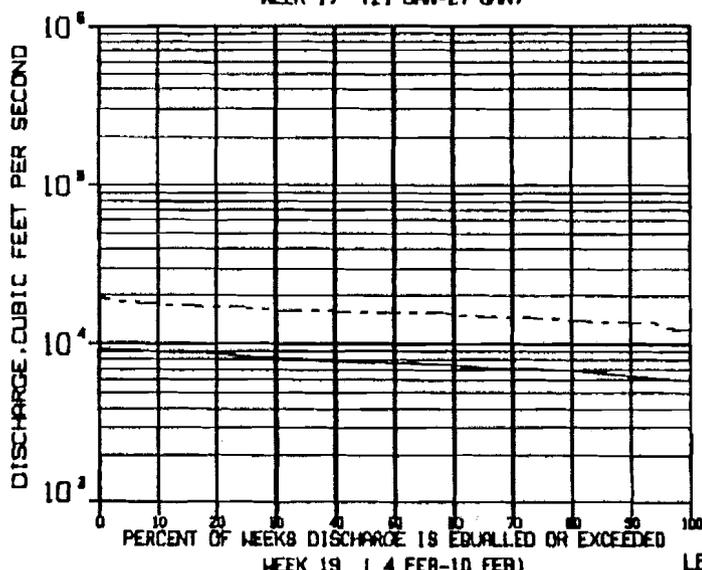
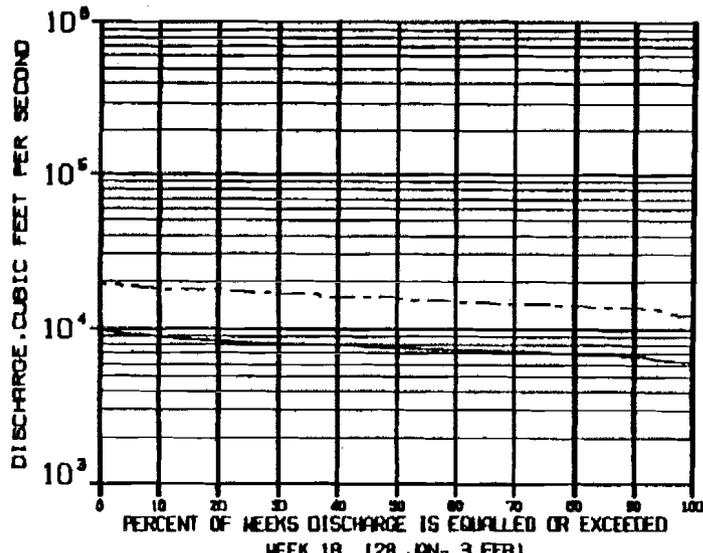
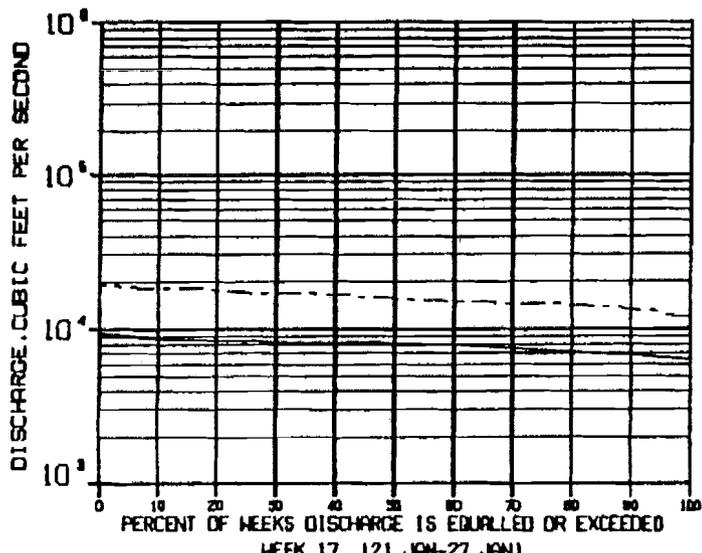


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 - - - - - WITH PROJECT:  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1951-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION

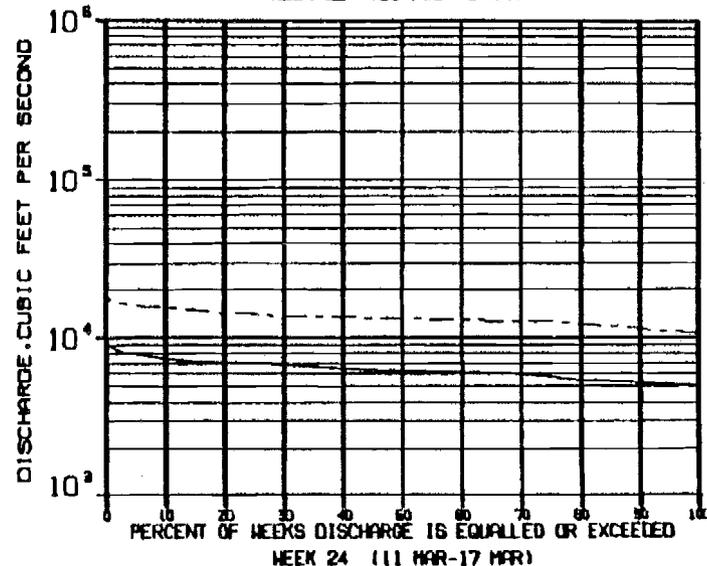
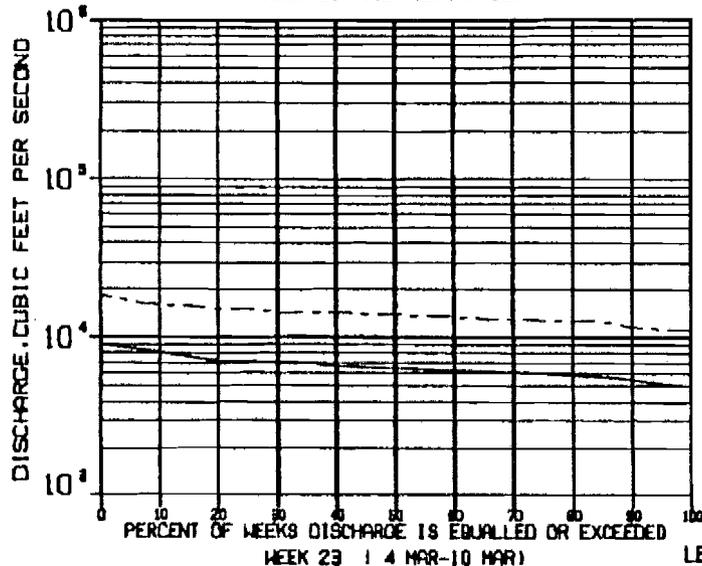
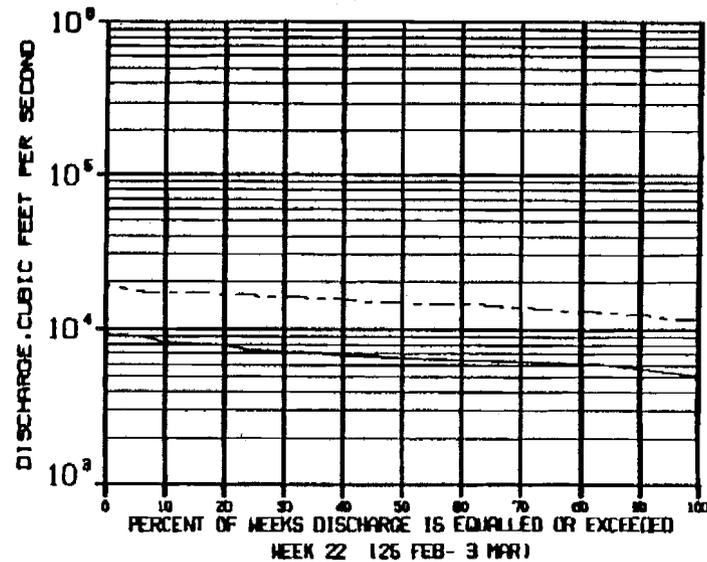
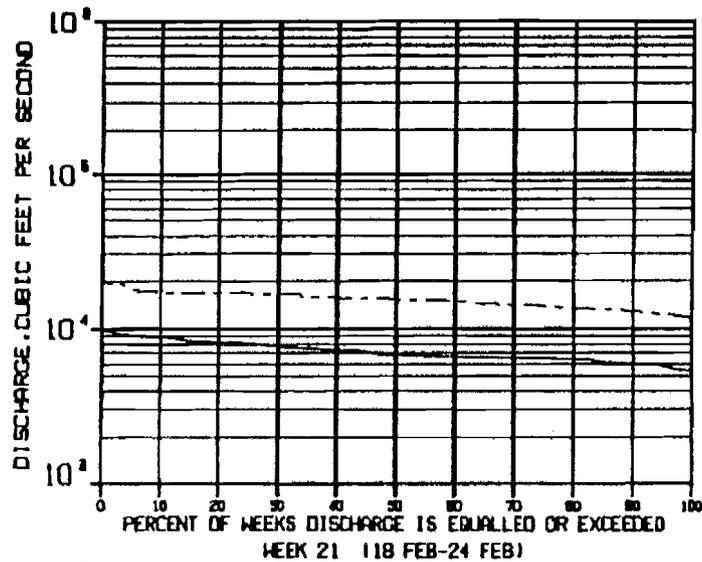


NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

LEGEND  
 ——— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1986  
 (NATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION

EXHIBIT B  
 SHEET 5 OF 13



LEGEND

———— NATURAL

- - - - WITH-PROJECT

CASE E-VI TARGET FLOWS

FOR LOAD CONDITIONS 1996

(NATANA ONLY)

NOTE: FLOW PER 100 WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

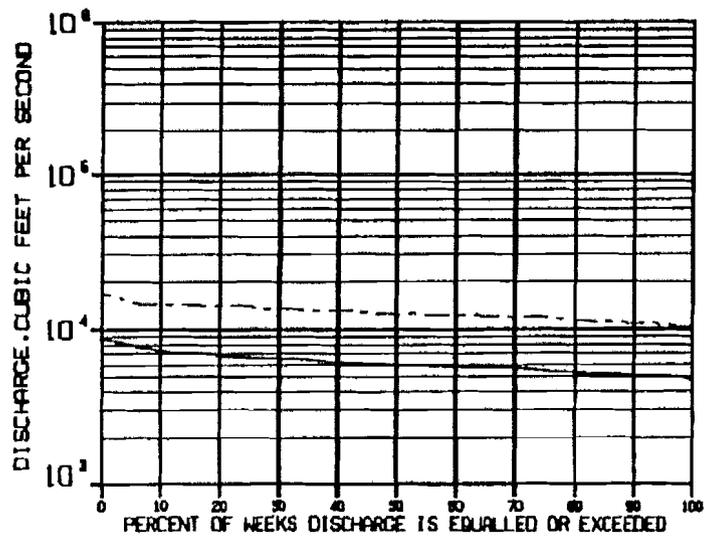
FLOW DURATION CURVES

BASED ON WEEKLY DISCHARGE

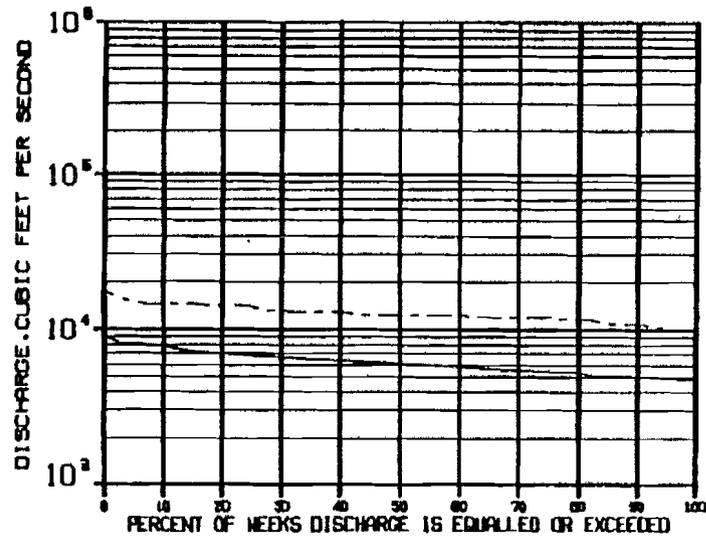
SUSITNA RIVER AT SUSITNA STATION

EXHIBIT 5

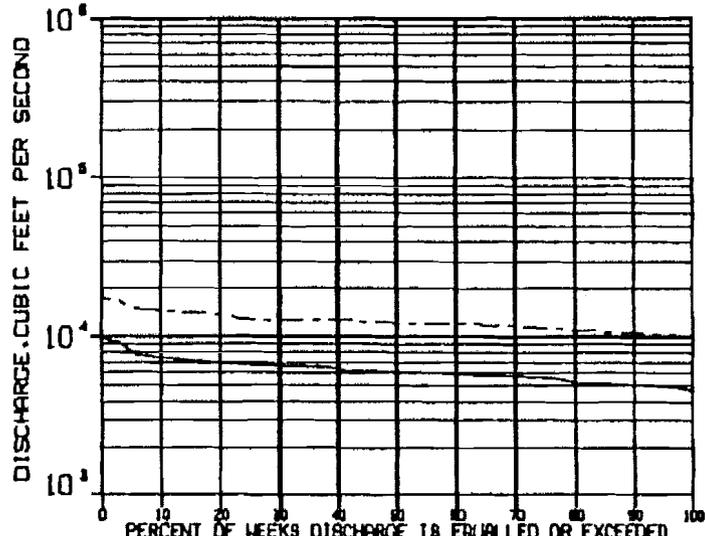
SHEET 6 OF 19



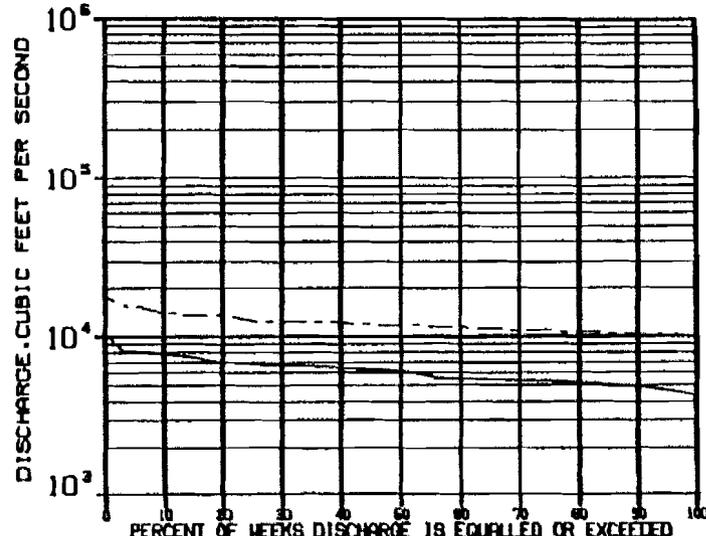
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WEEK 26 (125 MAR-31 MAR)



WEEK 27 (1 APR-7 APR)



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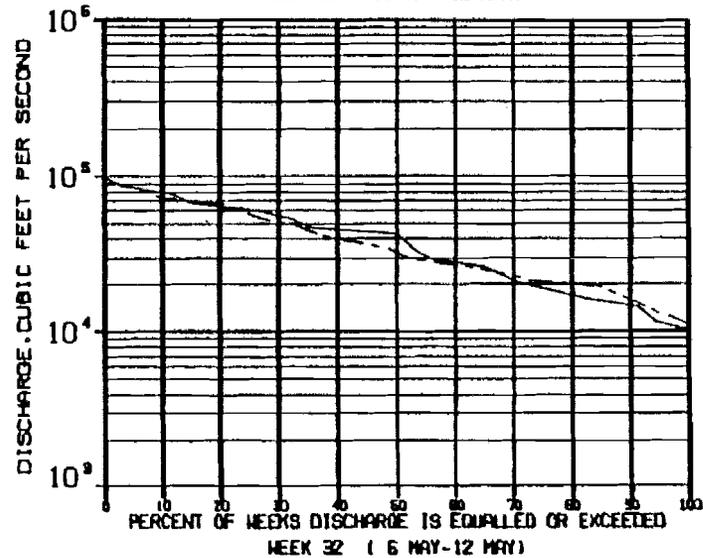
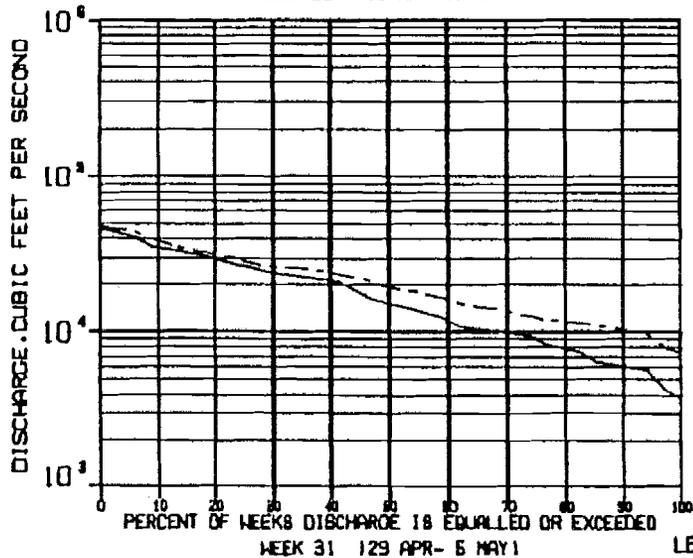
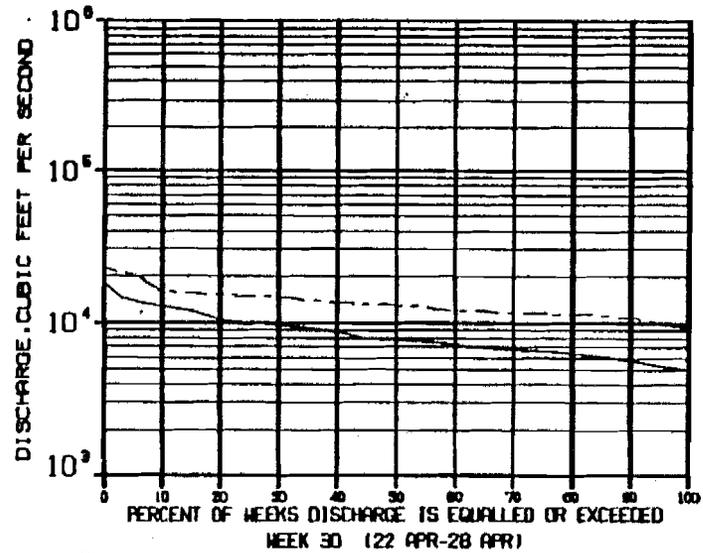
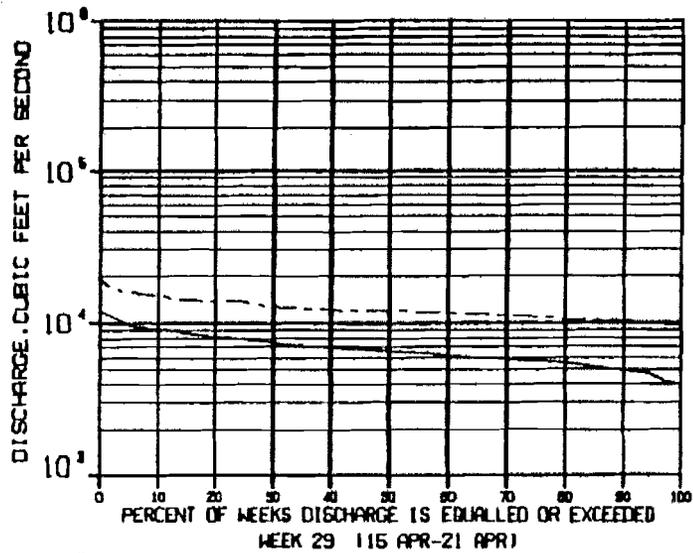
LEGEND

\_\_\_\_\_ NATURAL  
 - - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION



LEGEND

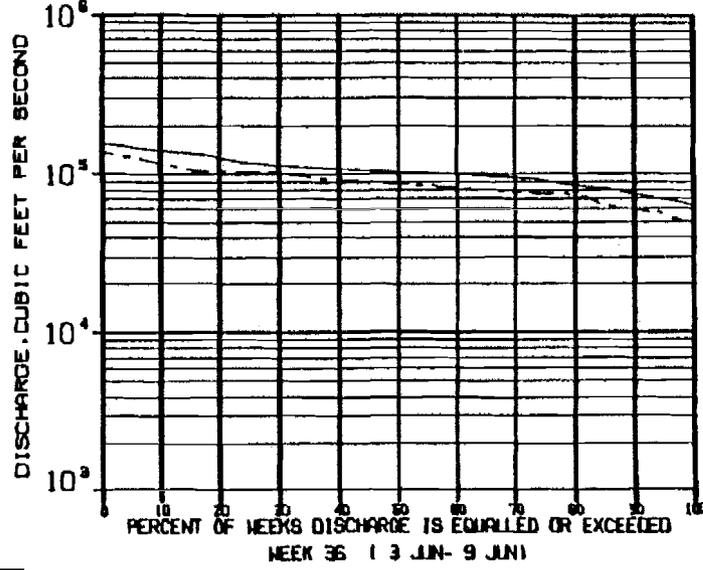
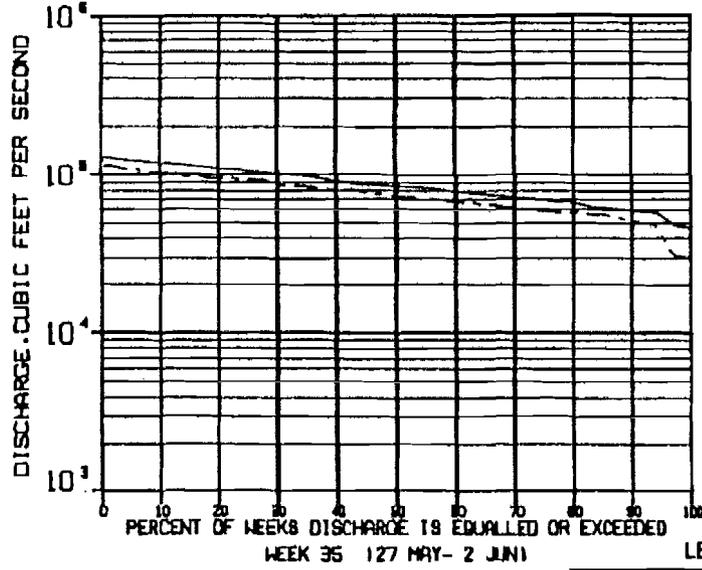
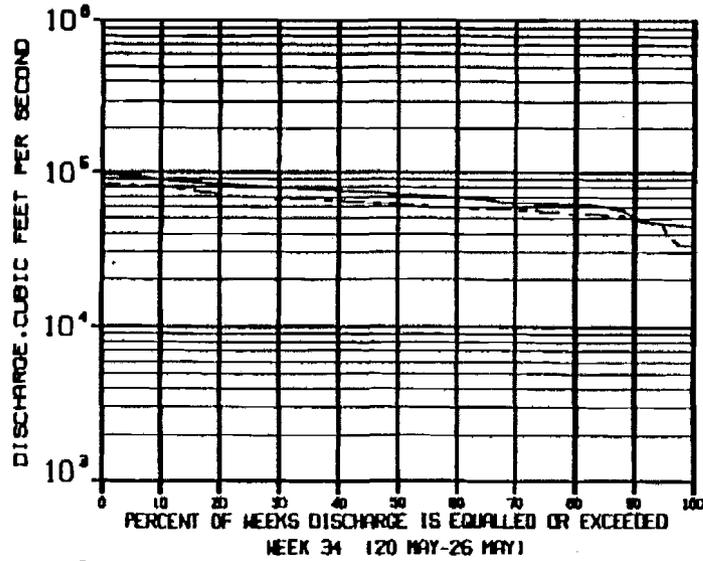
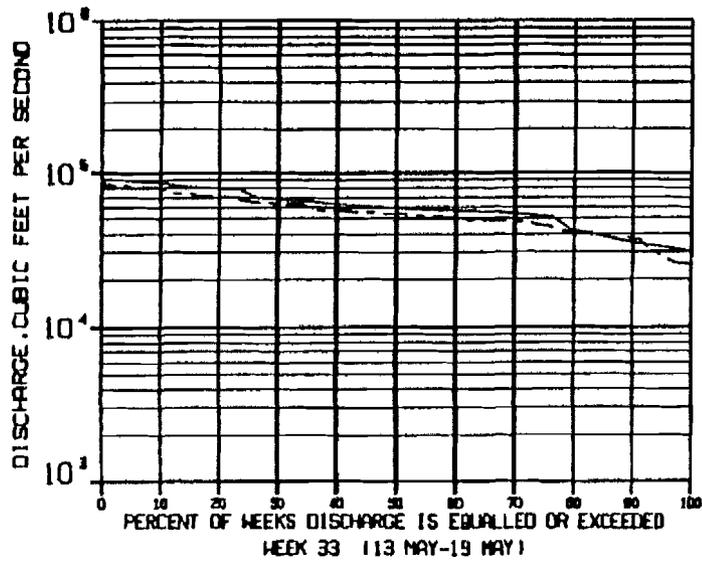
—— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1993

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION

EXHIBIT 5  
 SHEET 9 OF 13



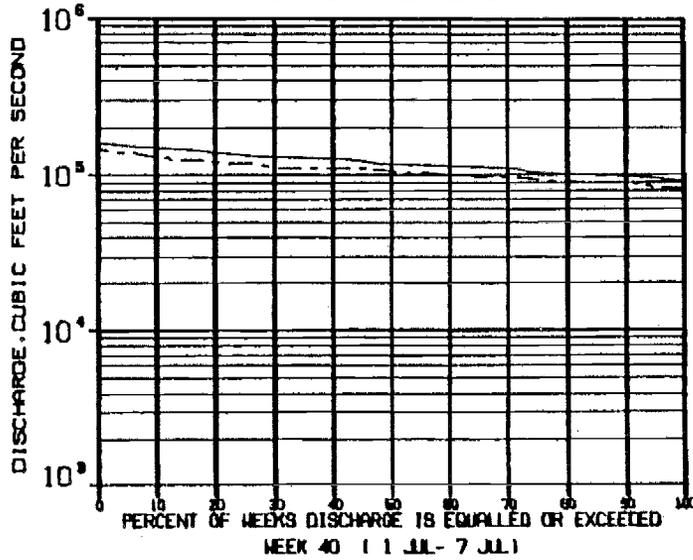
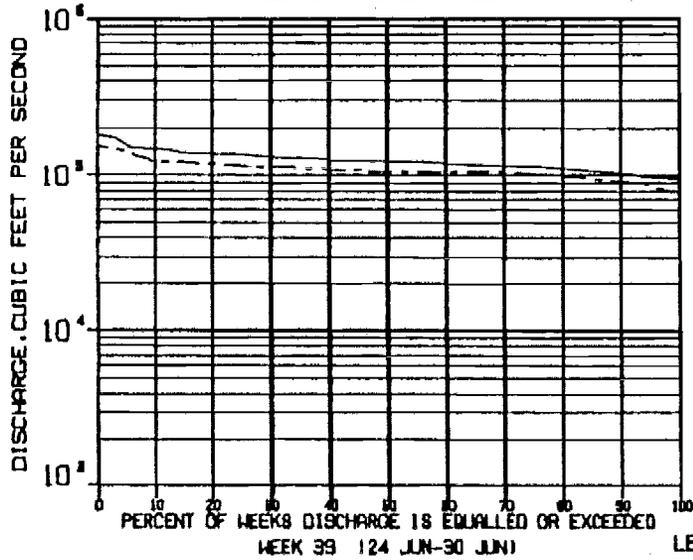
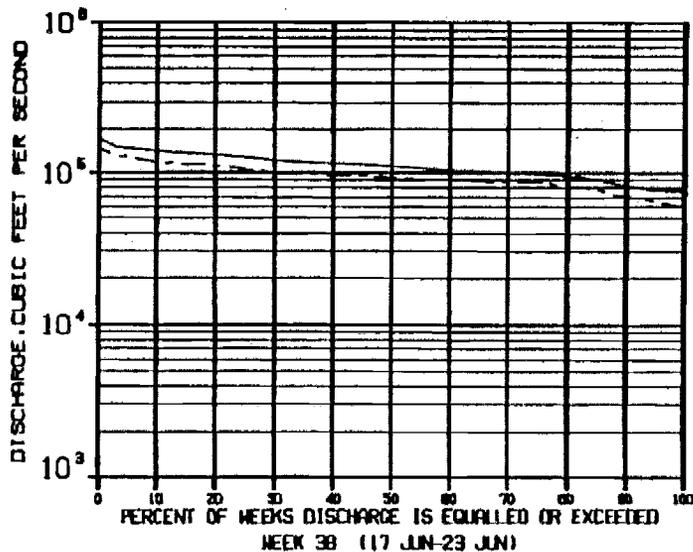
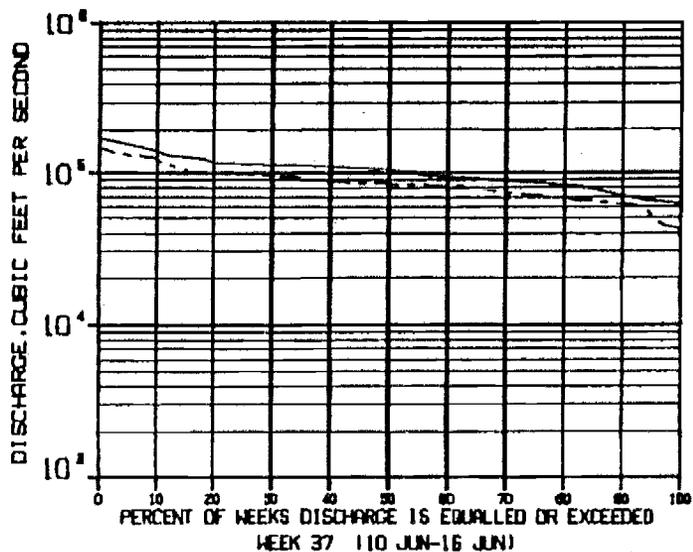
LEGEND

- NATURAL
- WITH-PROJECT
- CASE E-VI TARGET FLOWS FOR LOAD CONDITIONS 1996 (MATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT SUSITNA STATION



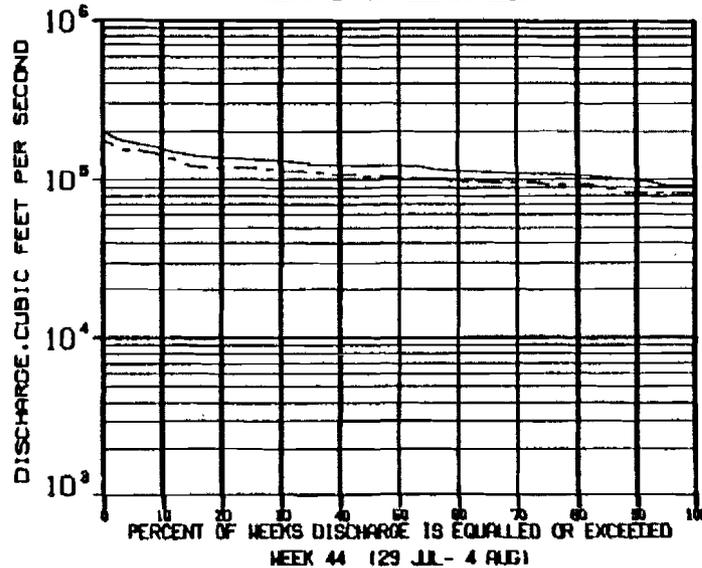
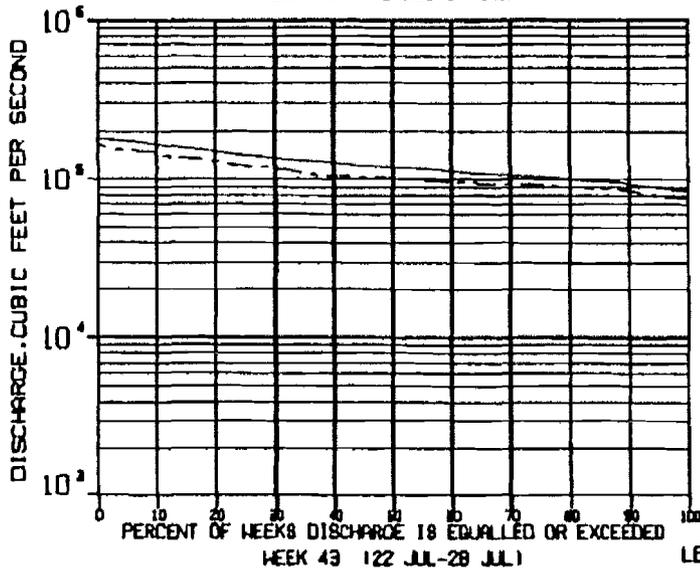
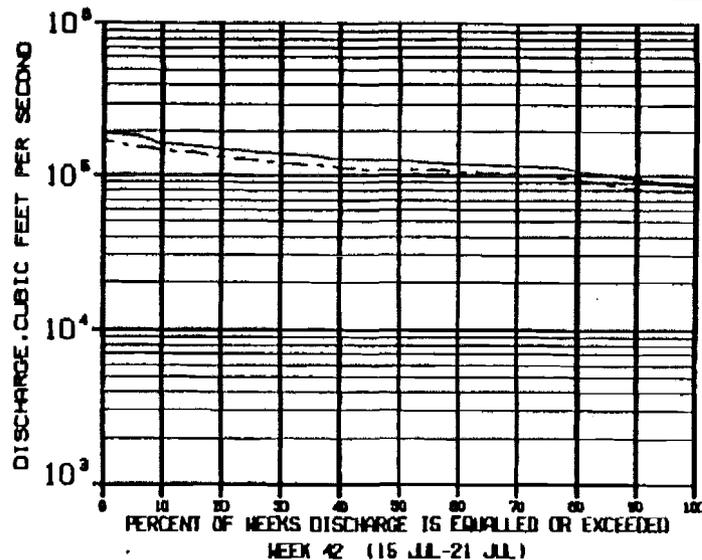
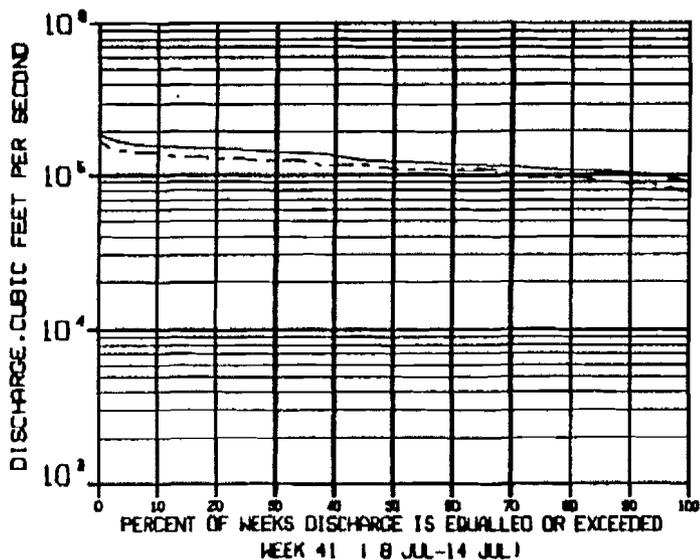
LEGEND

——— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1951-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION



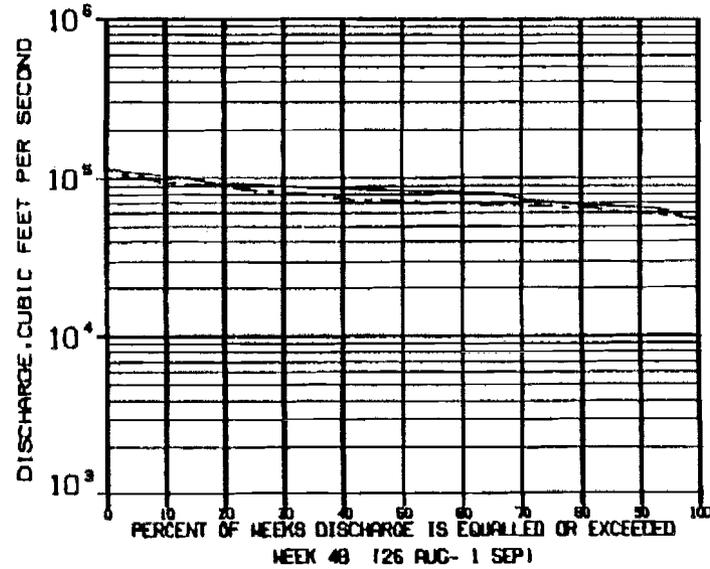
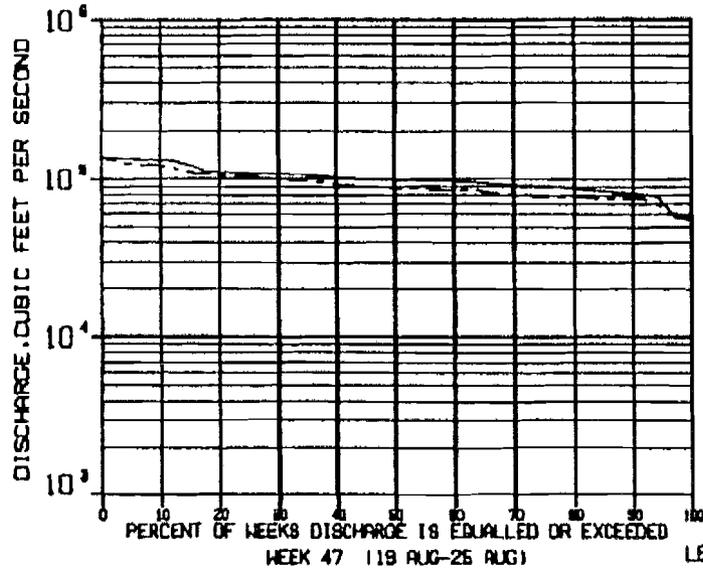
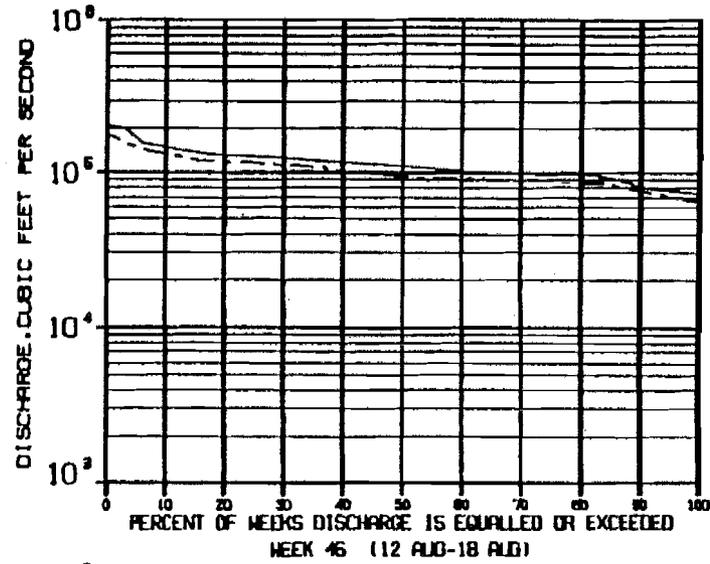
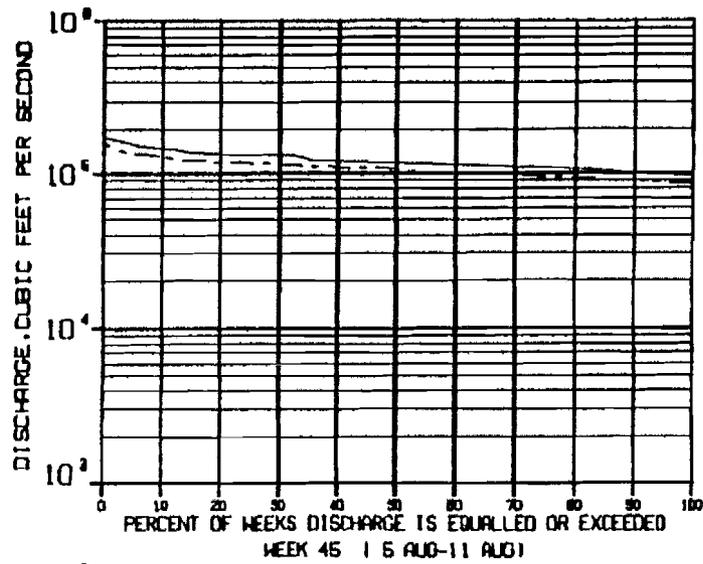
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 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION



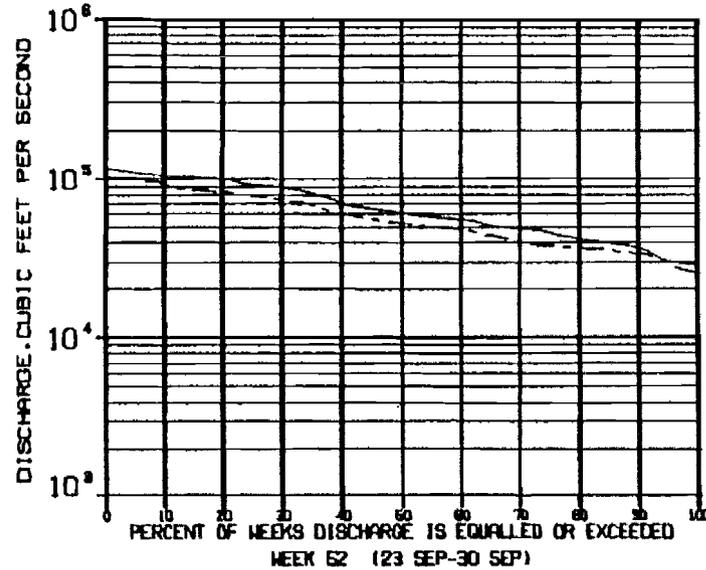
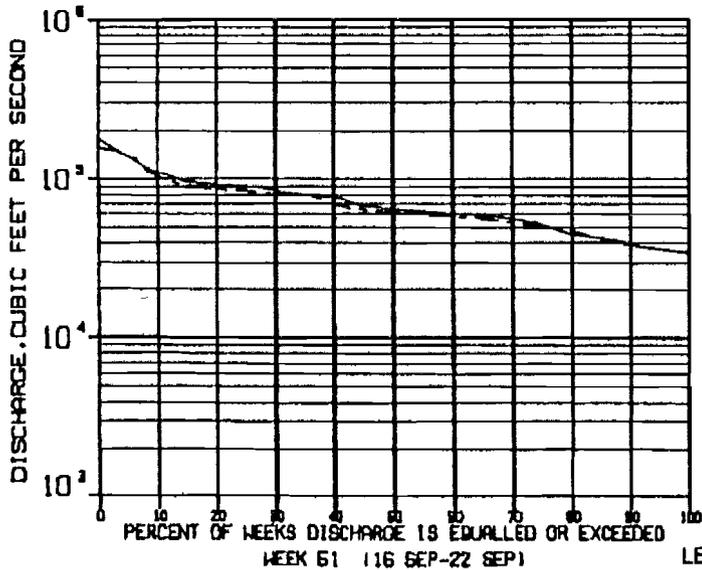
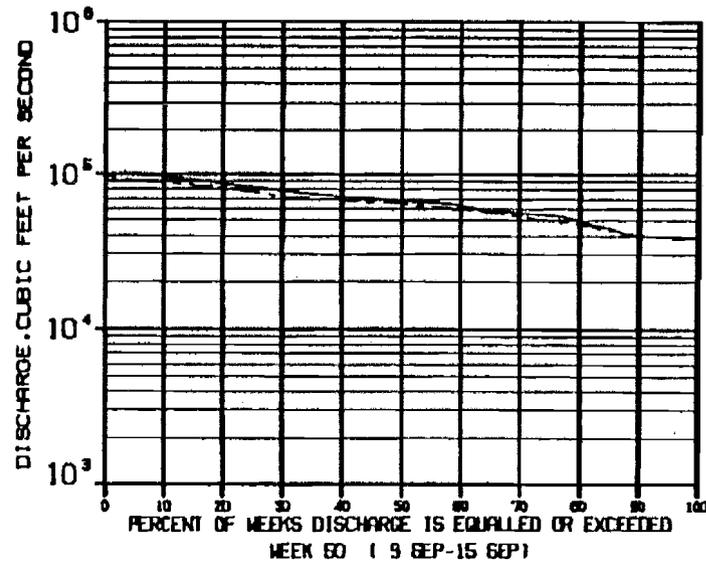
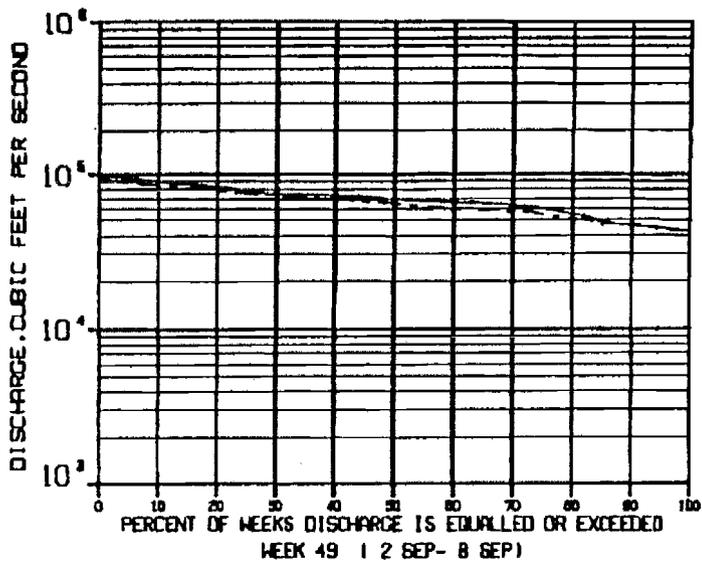
LEGEND

———— NATURAL  
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 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBRSCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION



LEGEND

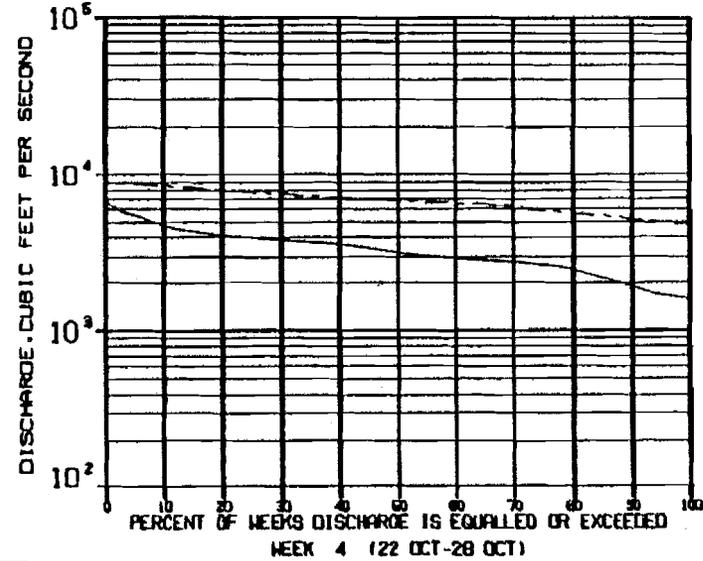
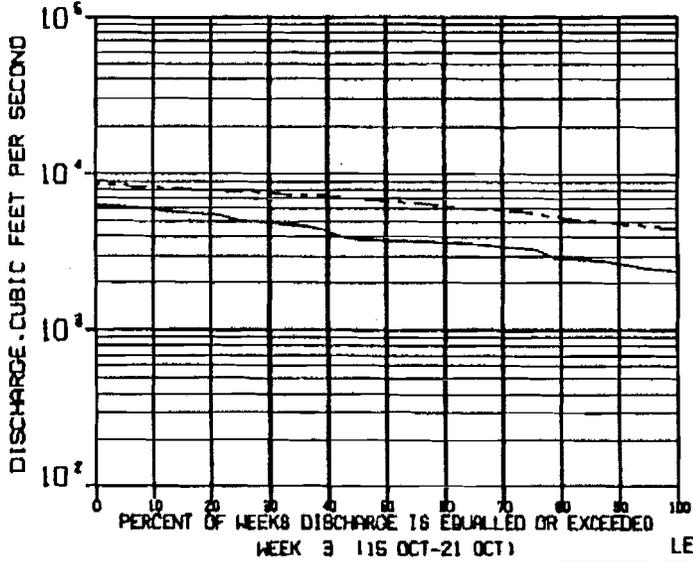
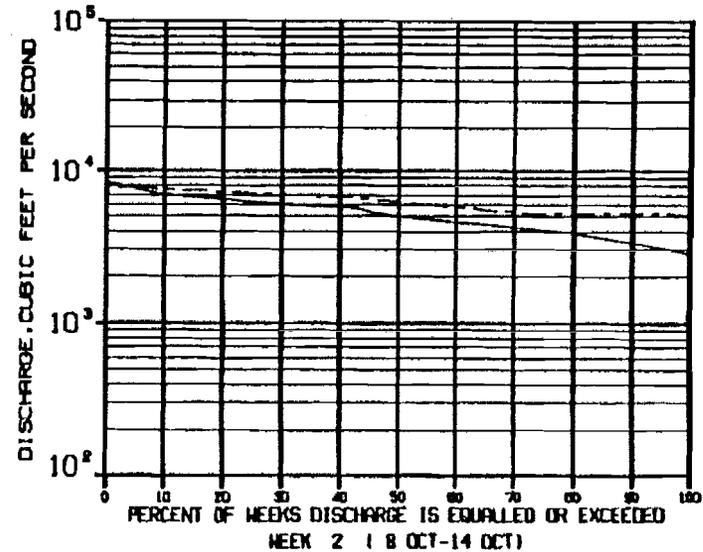
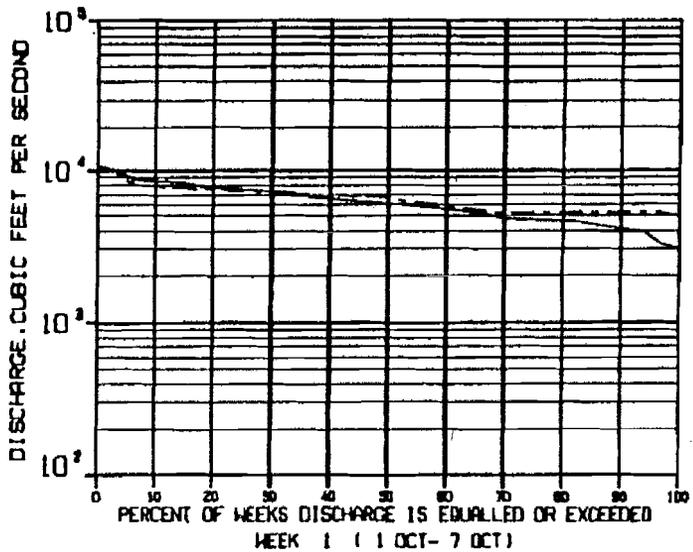
———— NATURAL  
 - - - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 1996  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION

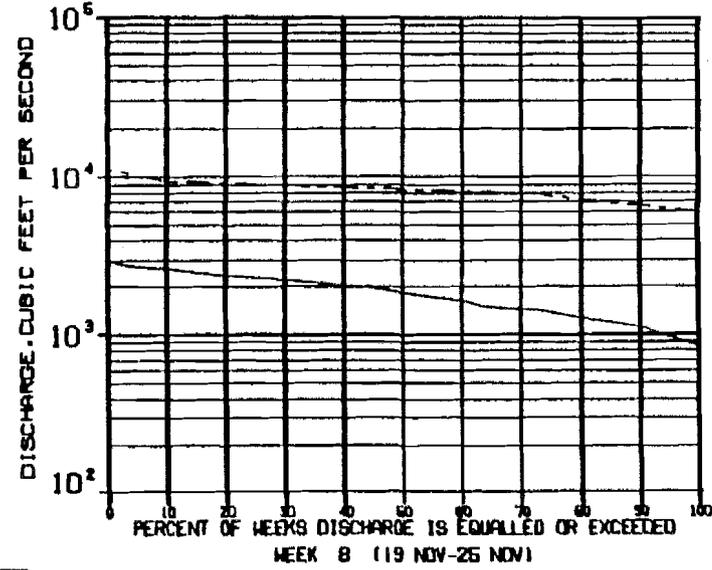
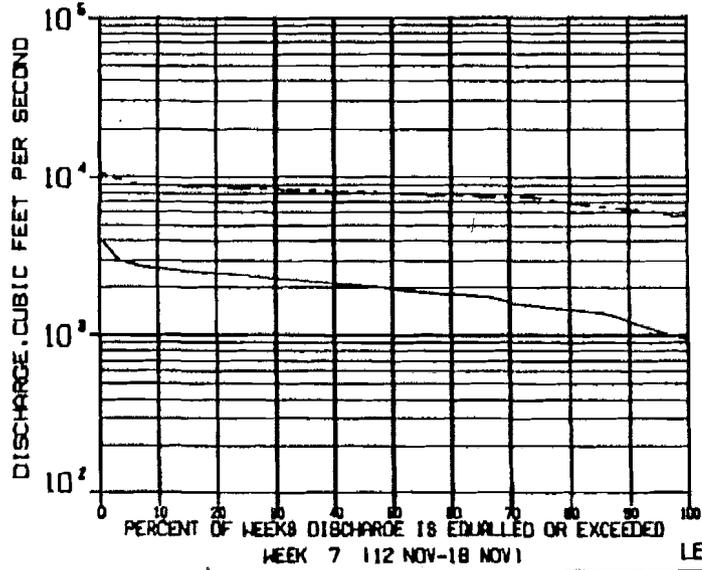
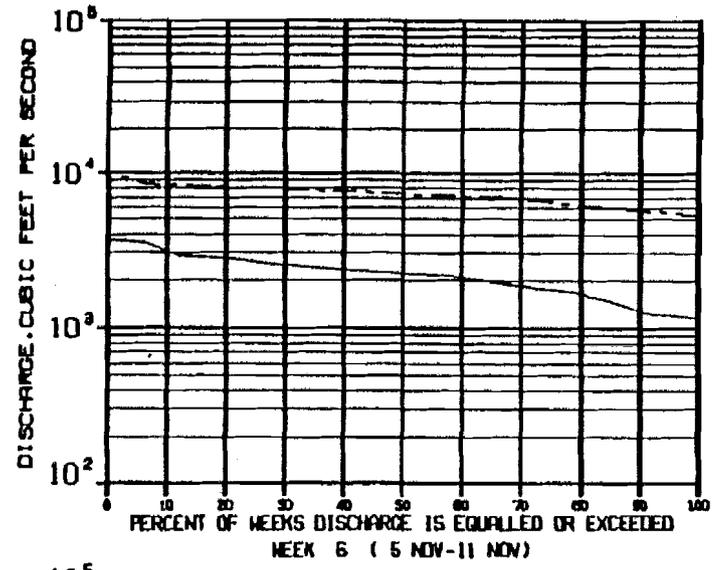
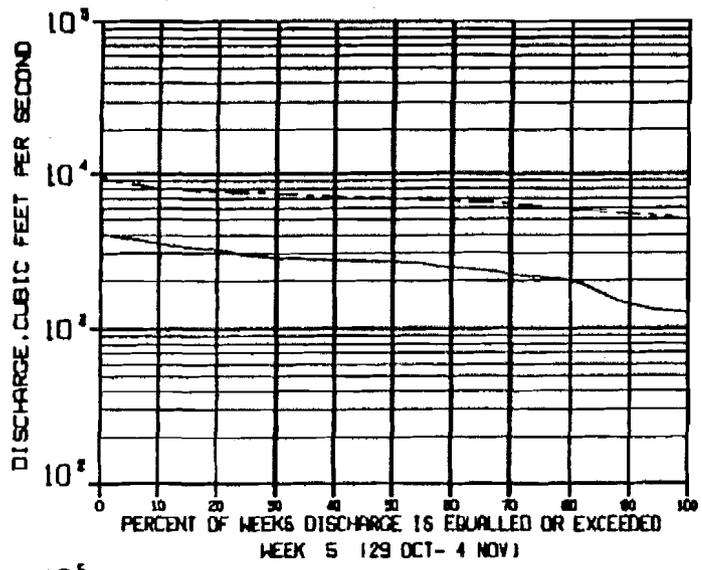
**EXHIBIT 6**



NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 65

LEGEND  
 — NATURAL  
 - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA



LEGEND

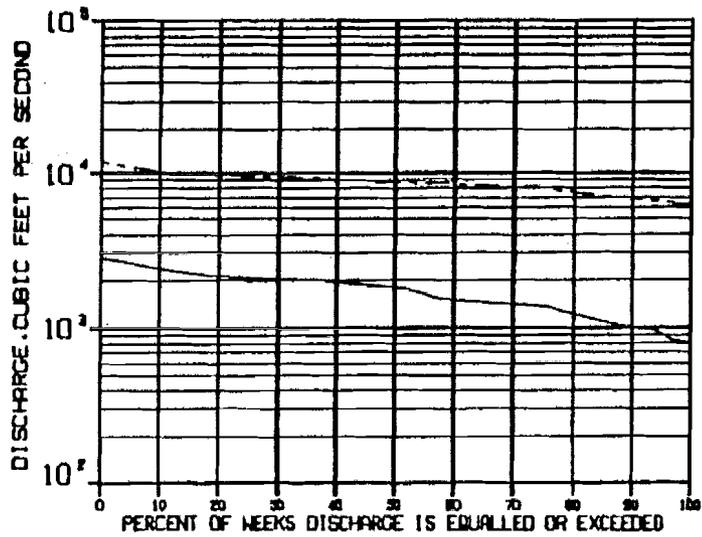
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 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1951-1983

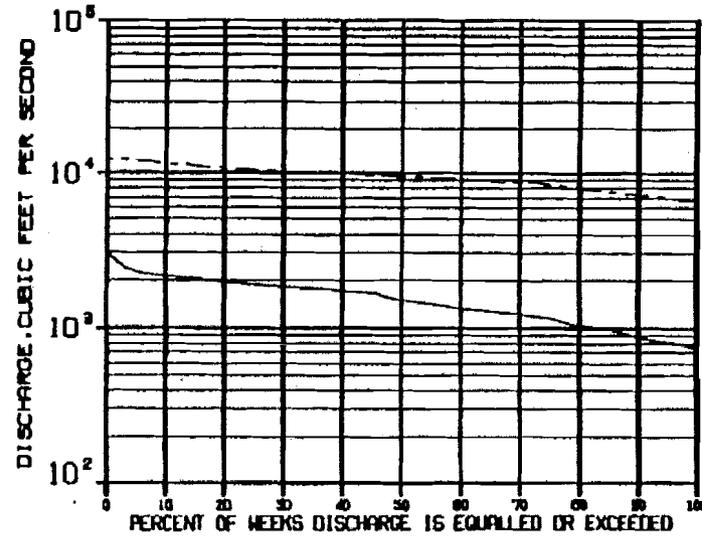
HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA

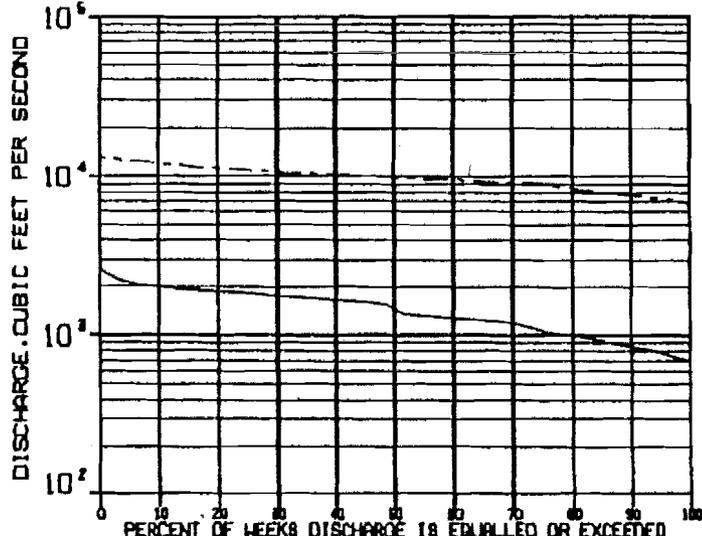
EXHIBIT 8  
 SHEET 2 OF 13



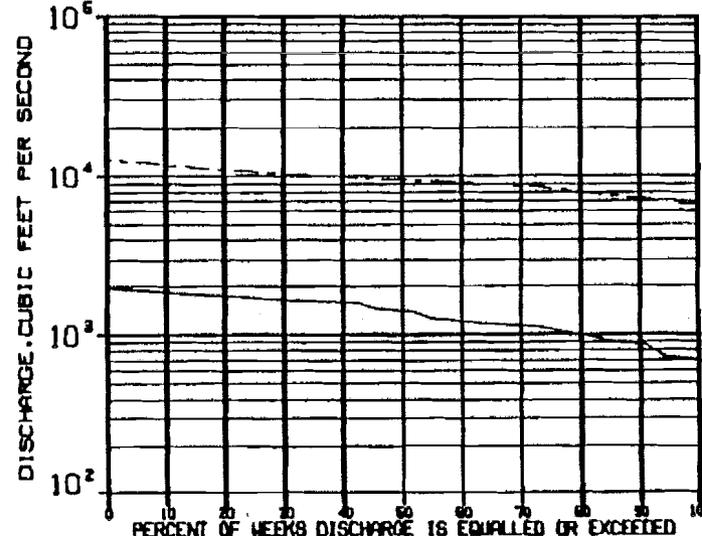
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WEEK 10 (3 DEC - 9 DEC)



WEEK 11 (110 DEC - 16 DEC)



WEEK 12 (117 DEC - 23 DEC)

LEGEND

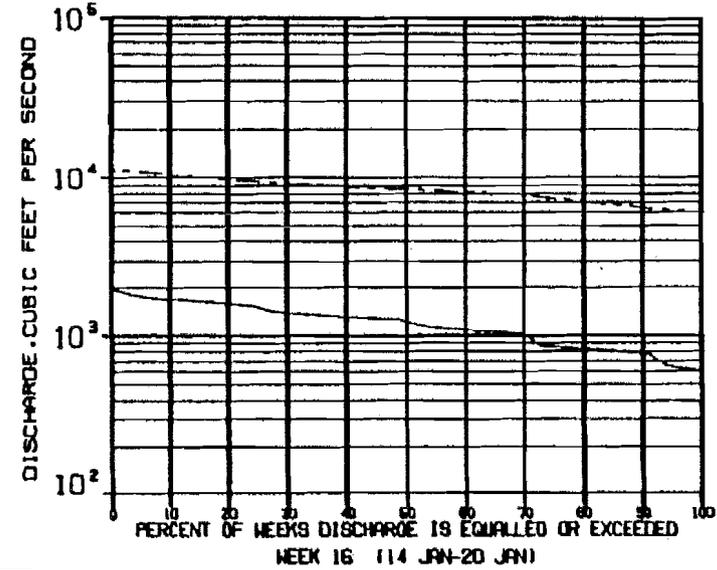
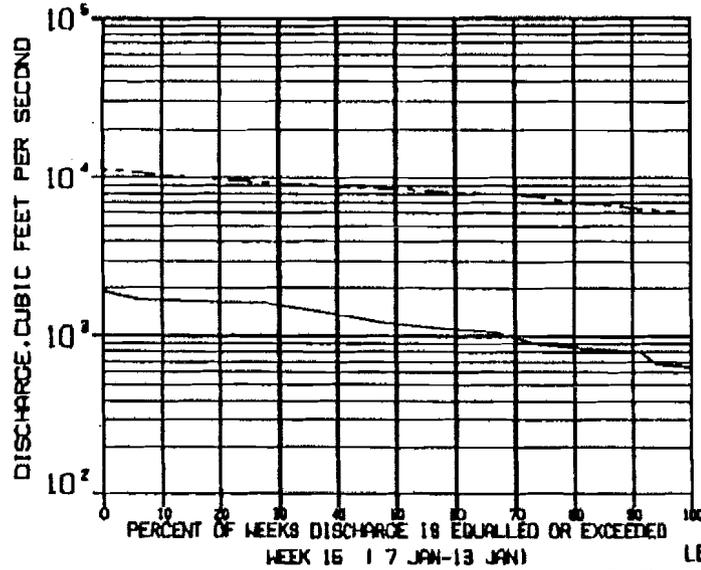
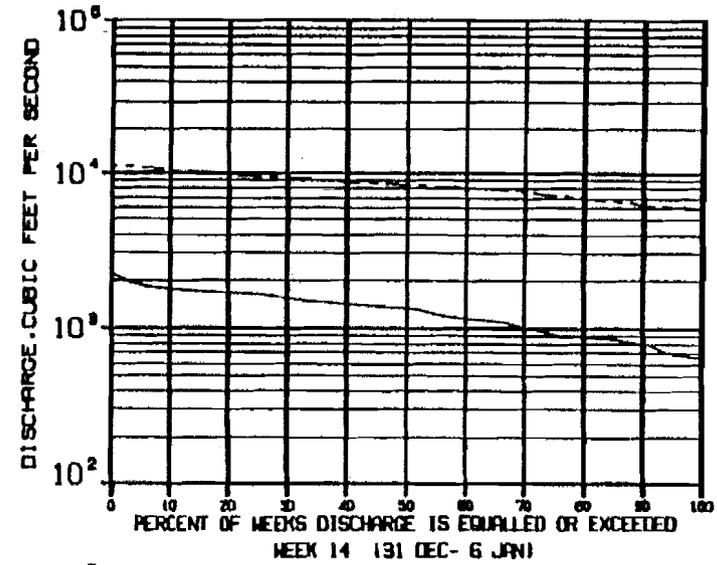
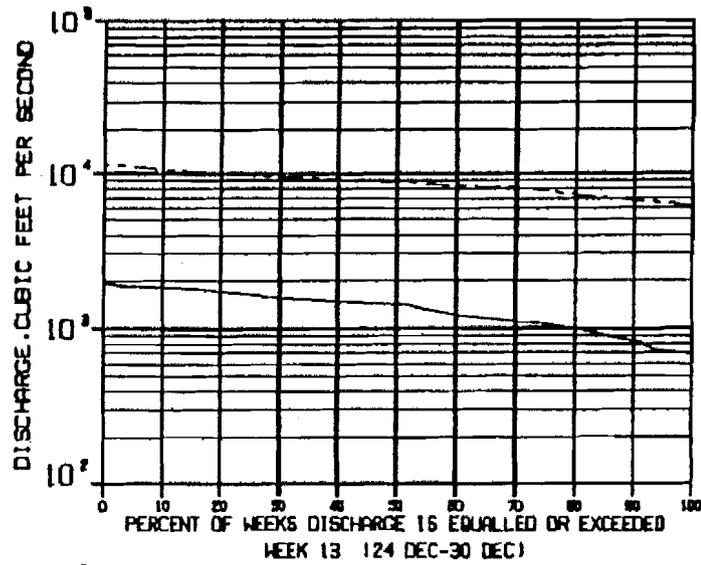
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 - - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBAGCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA

EXHIBIT 9  
 SHEET 9 OF 13

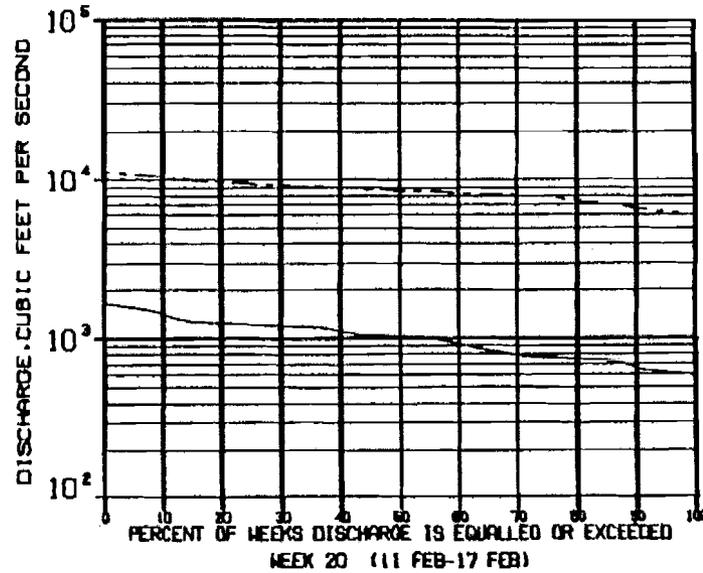
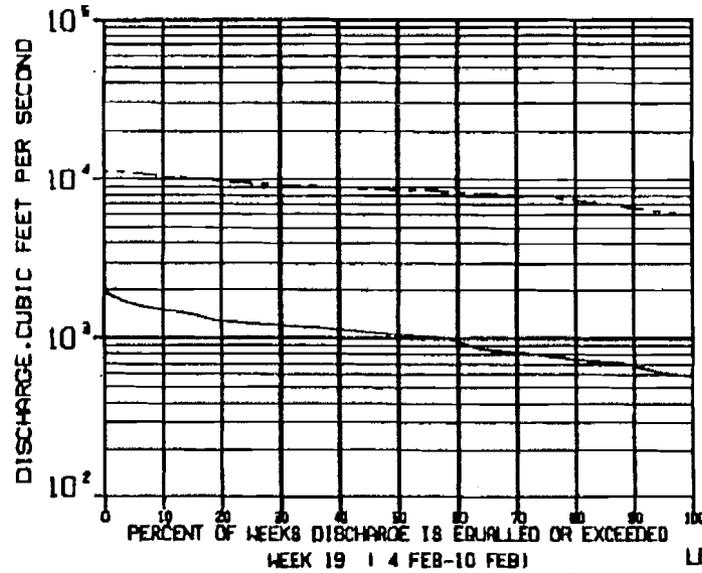
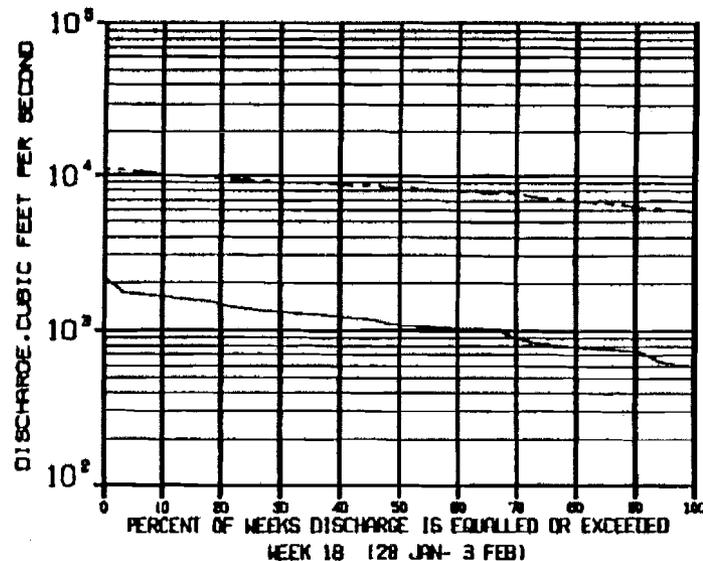
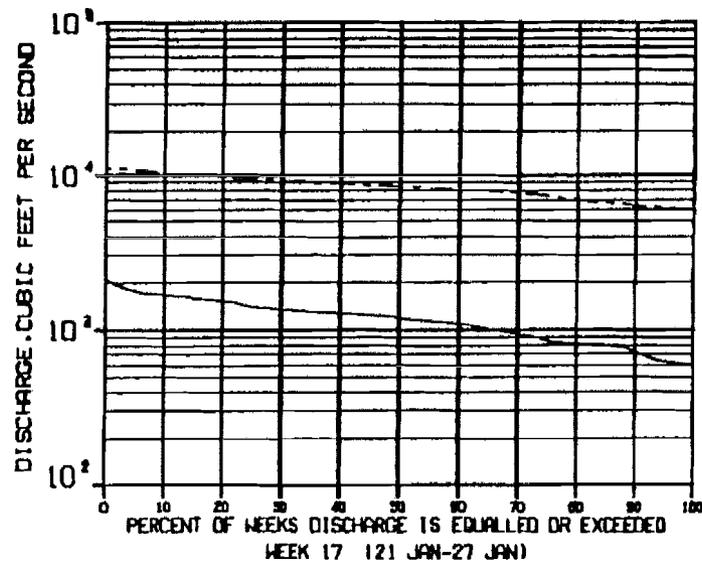


LEGEND

— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA



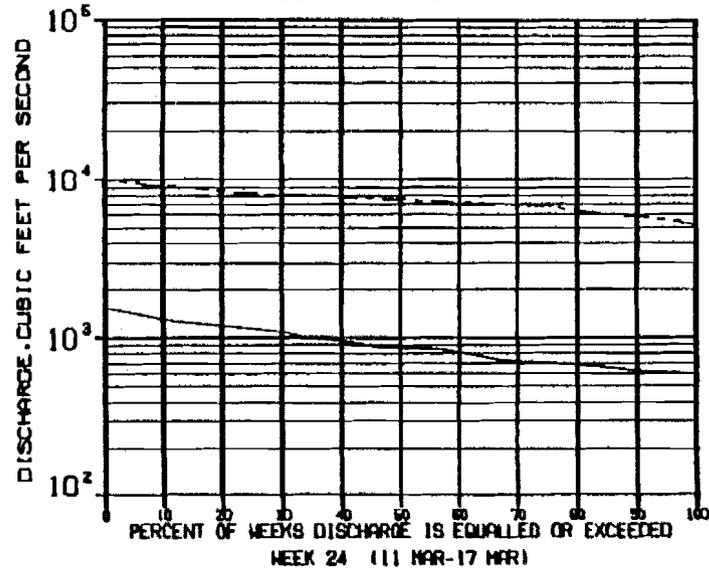
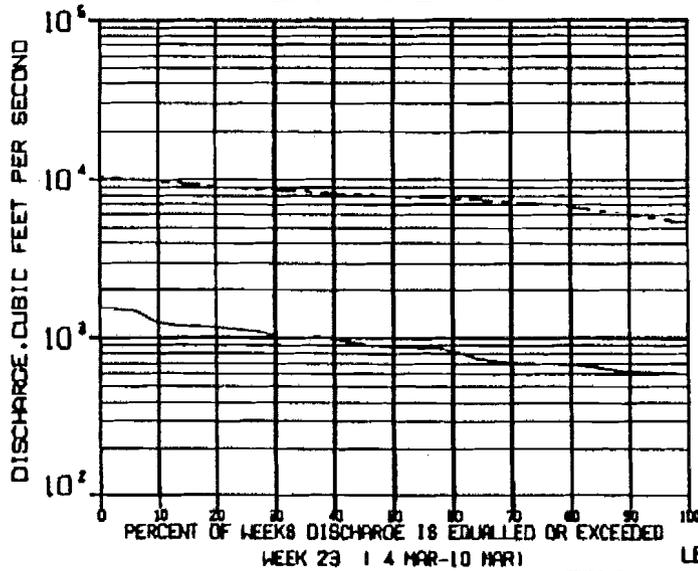
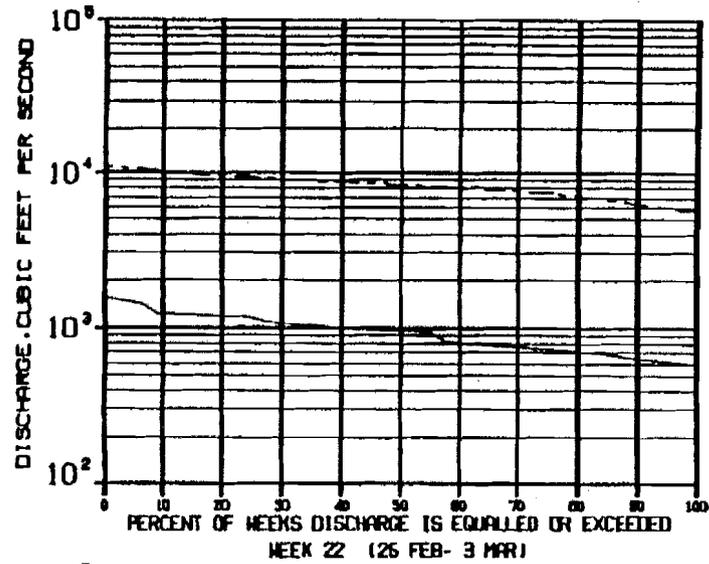
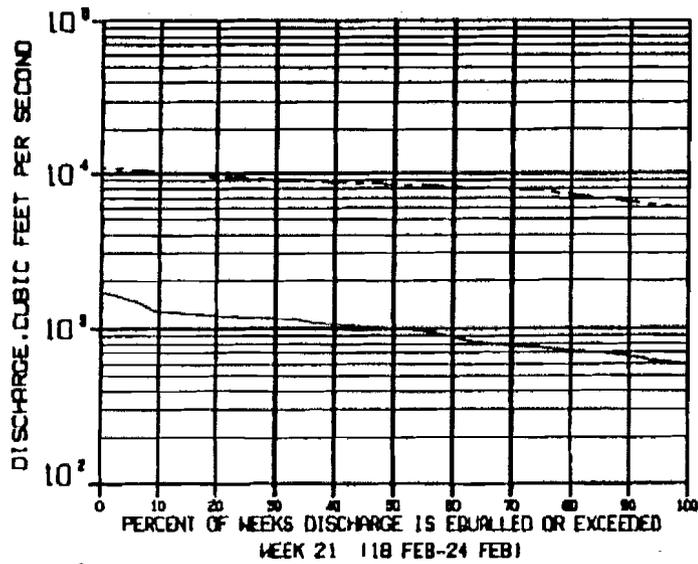
LEGEND

——— NATURAL  
 - - - WITH PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBRACCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA

EXHIBIT B  
 SHEET B OF 19

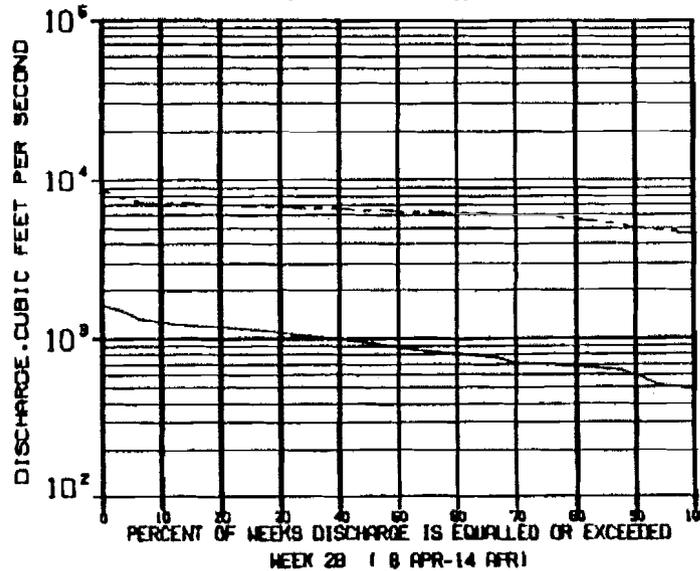
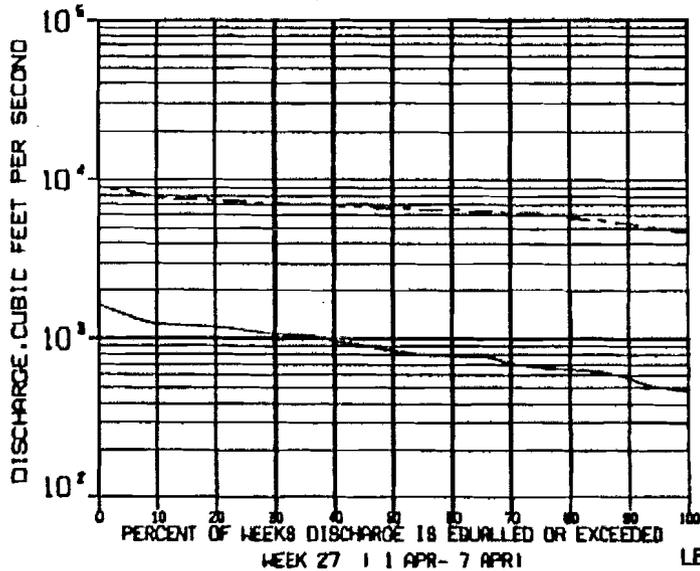
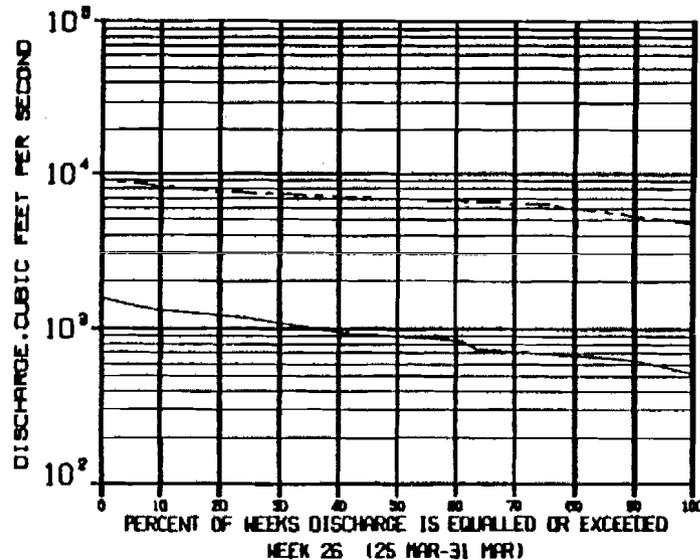
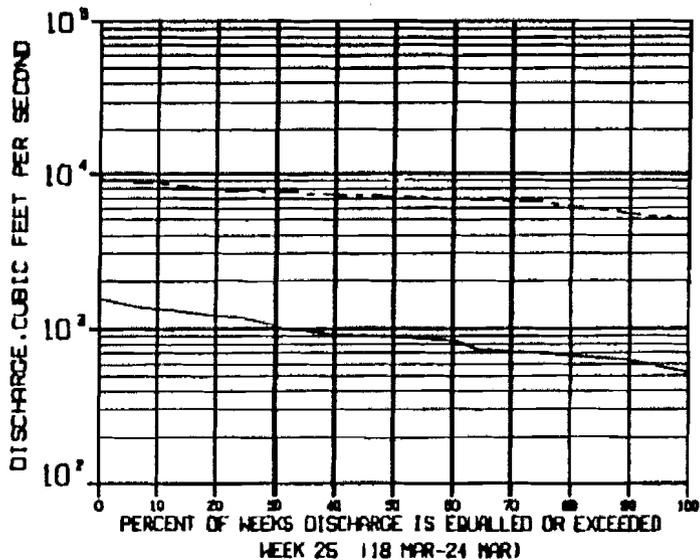


LEGEND  
 — NATURAL  
 - - - WITH PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 65

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA

EXHIBIT 9  
 SHEET 6 OF 13



LEGEND

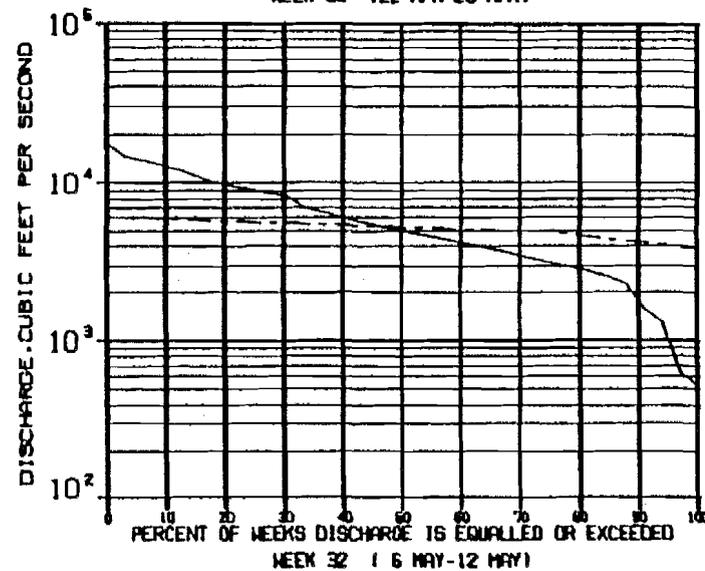
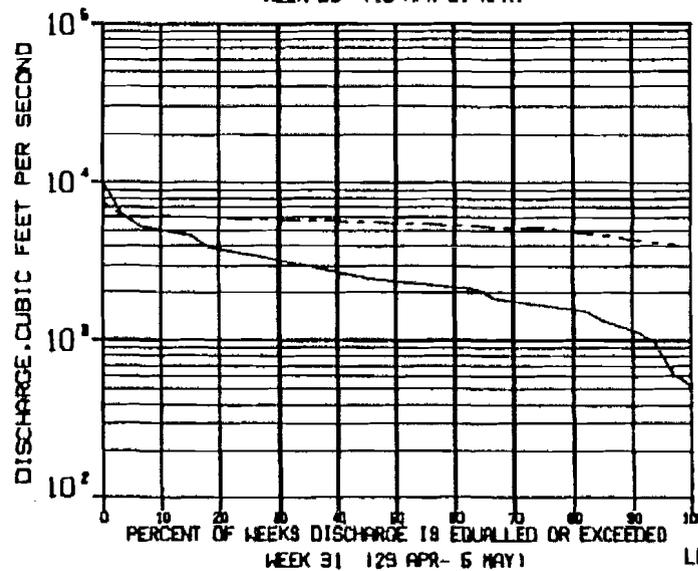
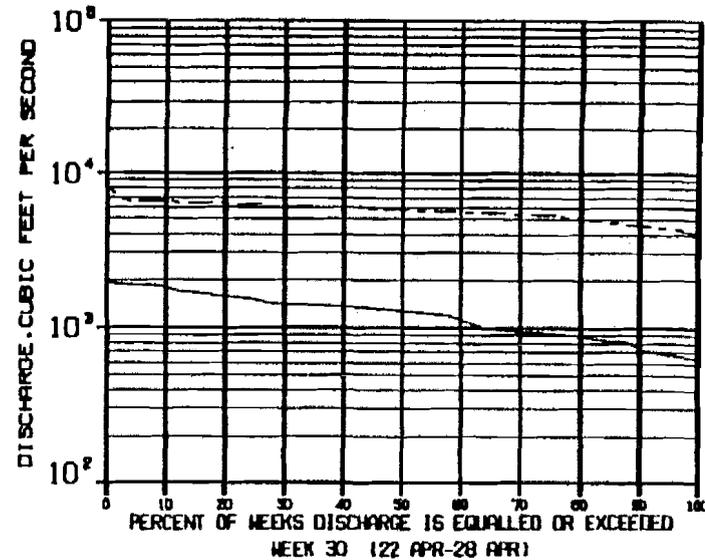
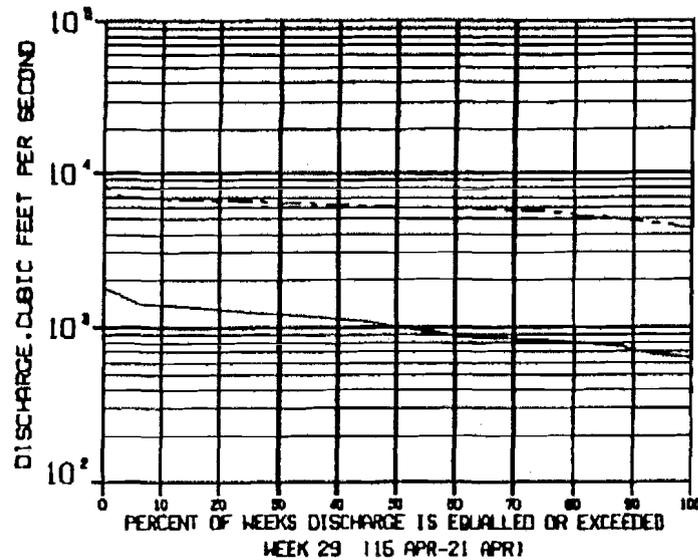
— NATURAL  
 - - - WITH-PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA

EXHIBIT 9  
 SHEET 7 OF 13



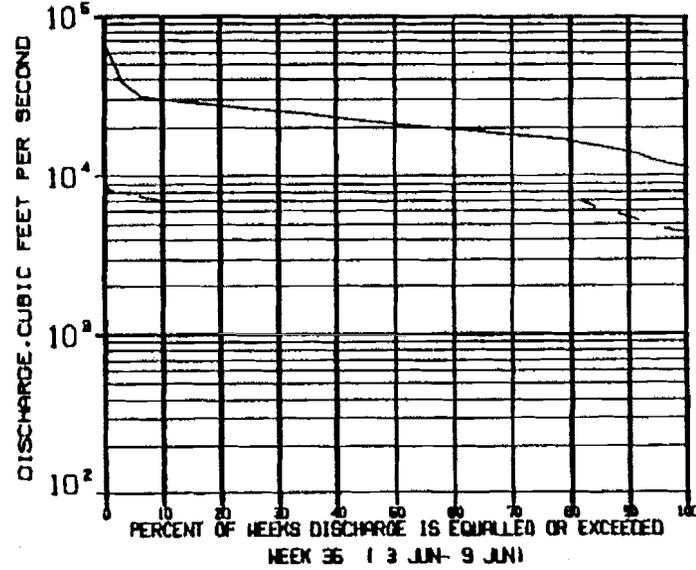
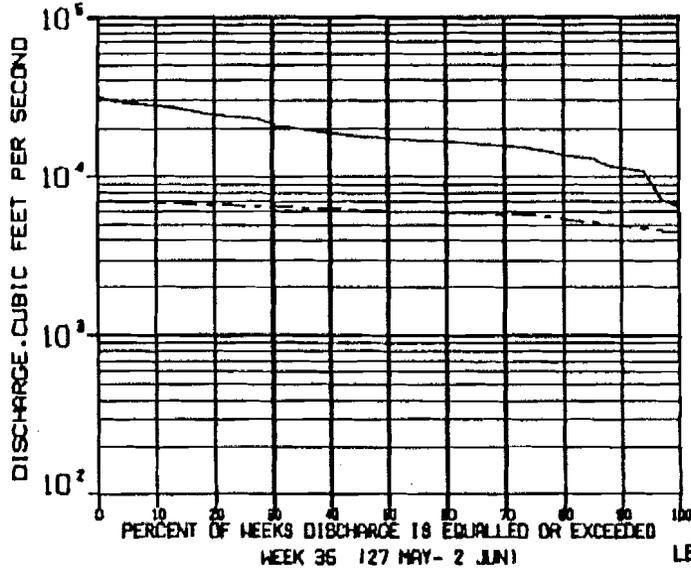
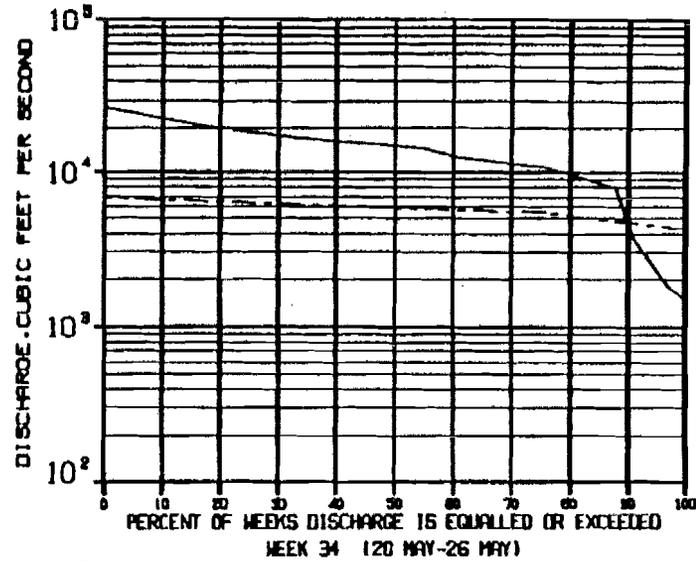
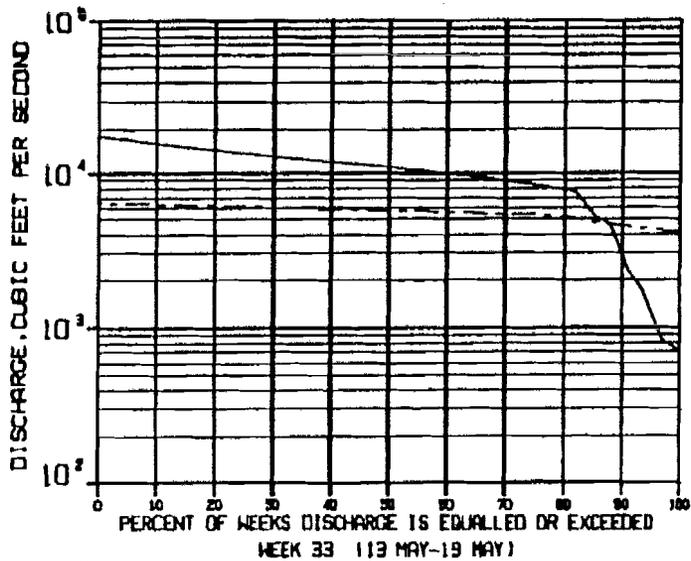
LEGEND

—— NATURAL  
 - - - - WITH PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA



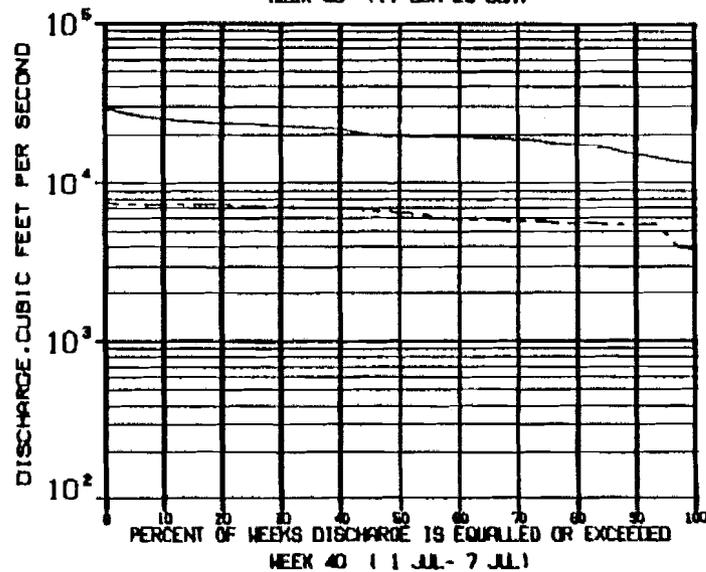
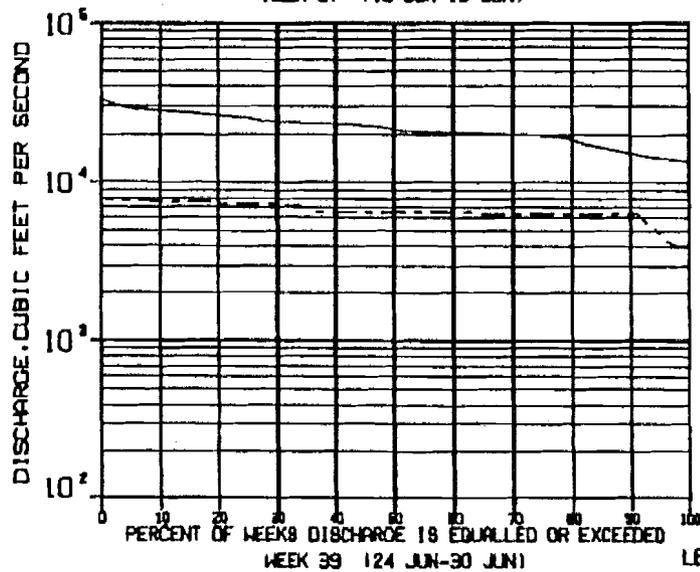
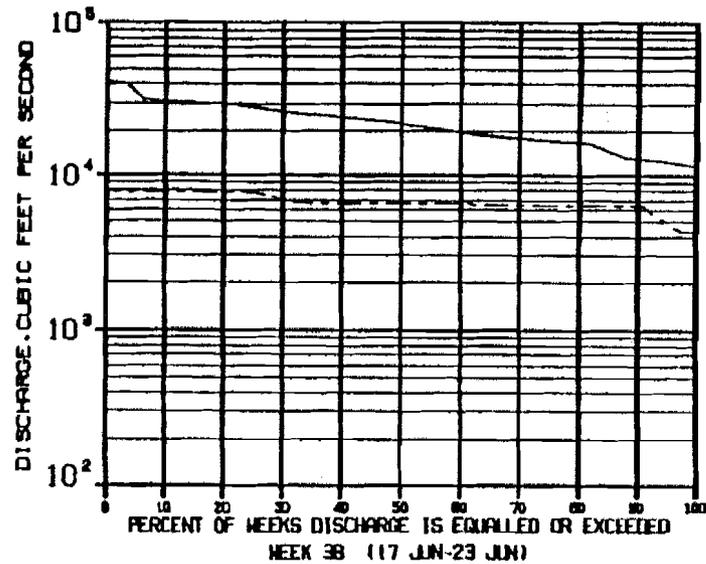
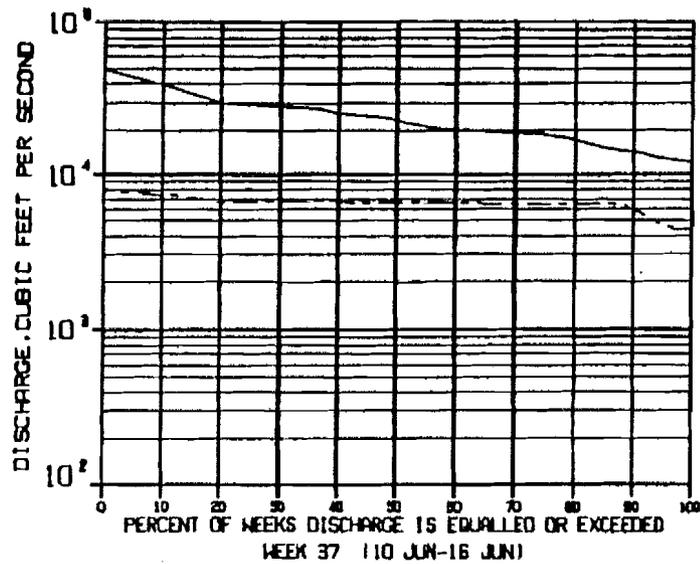
LEGEND

- NATURAL
  - - - - - WITH PROJECT
- CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 2001  
(WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBABCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT WATANA

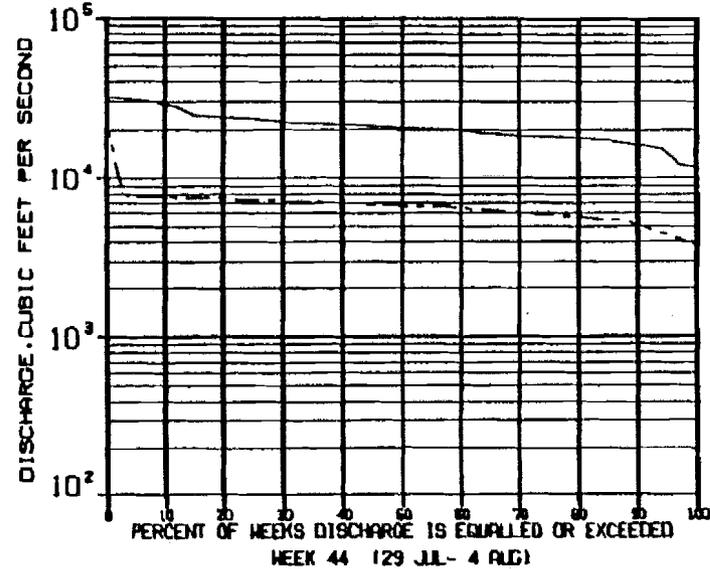
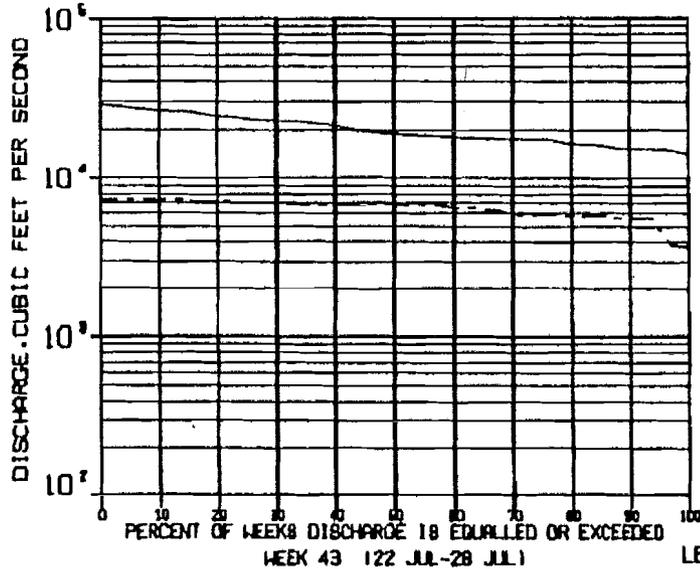
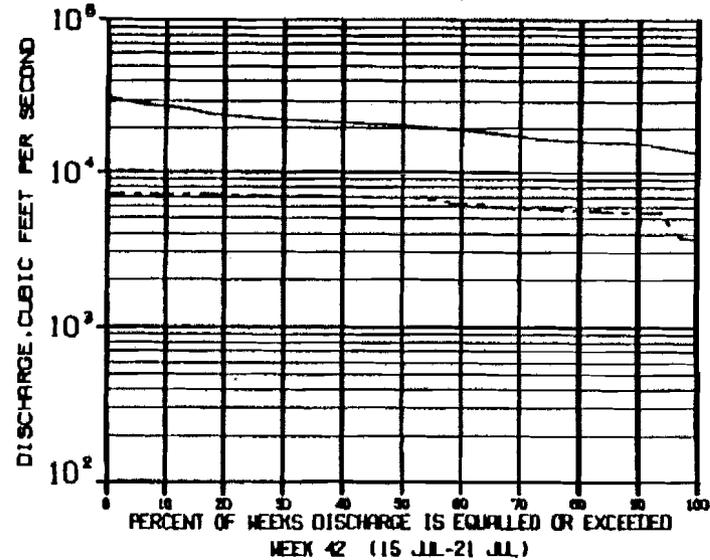
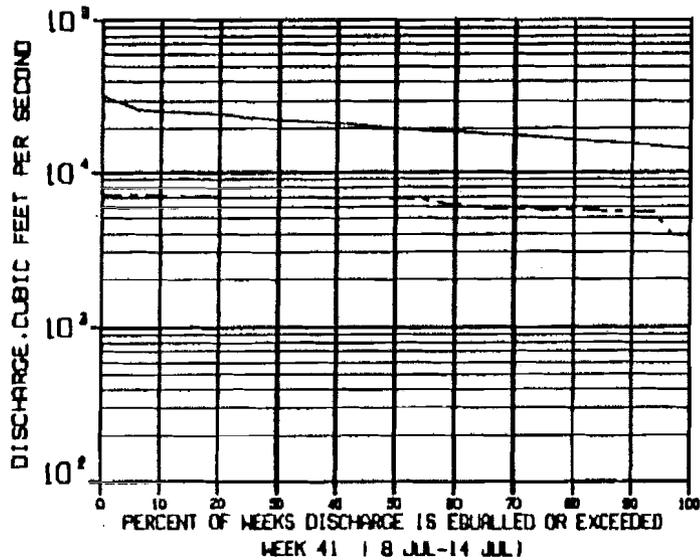


LEGEND

—— NATURAL  
 - - - - WITH-PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUBITNA JOINT VENTURE JAN 66

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUBITNA RIVER AT WATANA



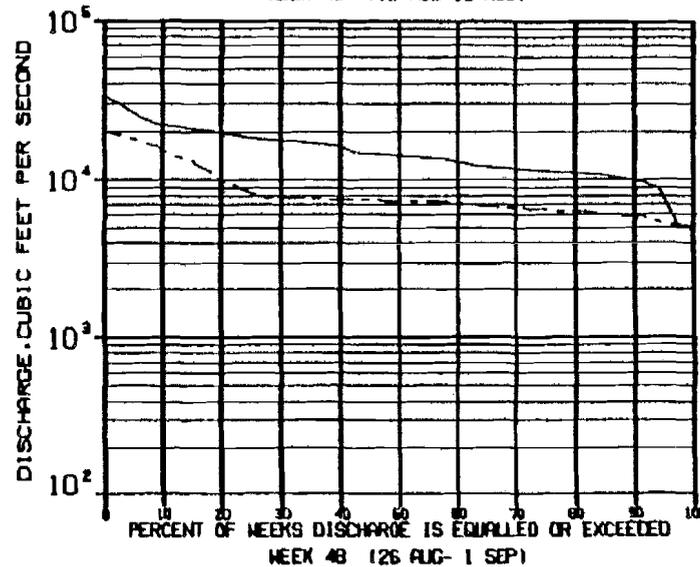
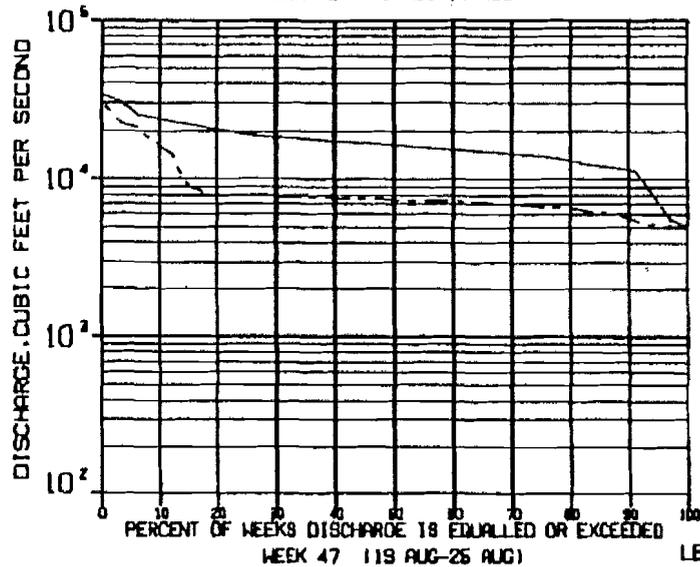
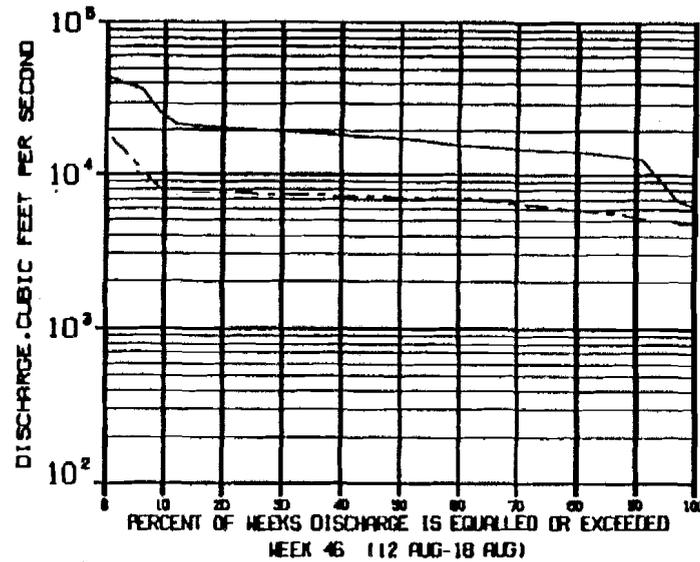
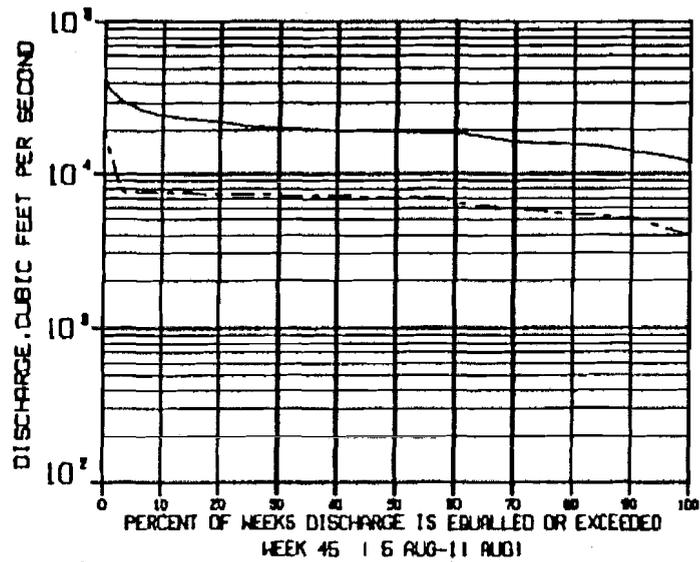
LEGEND

—— NATURAL  
 - - - - WITH-PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA



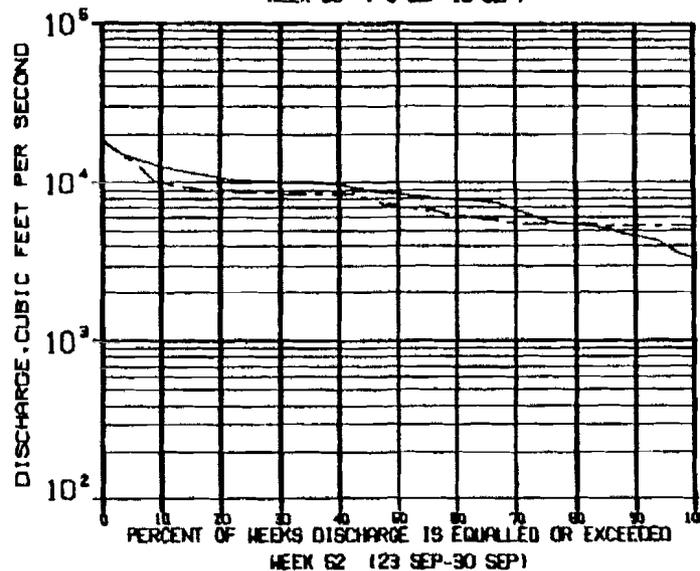
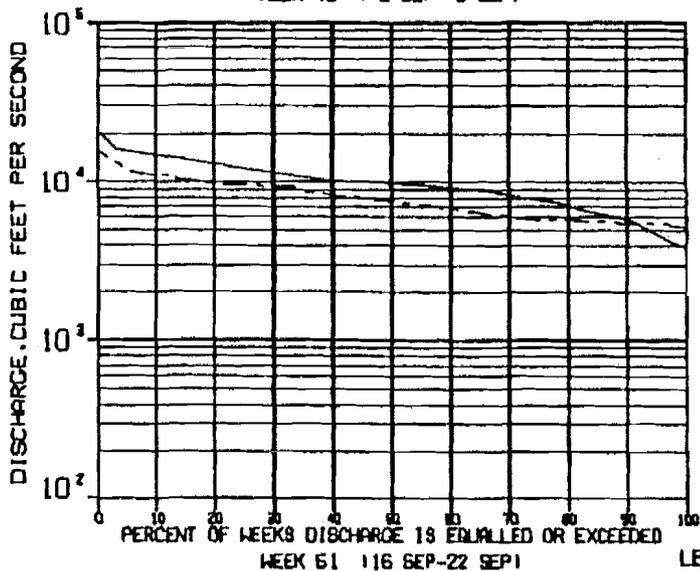
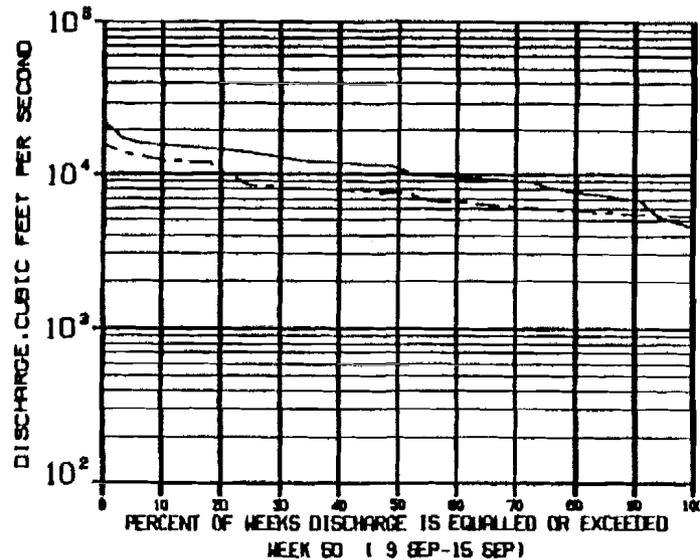
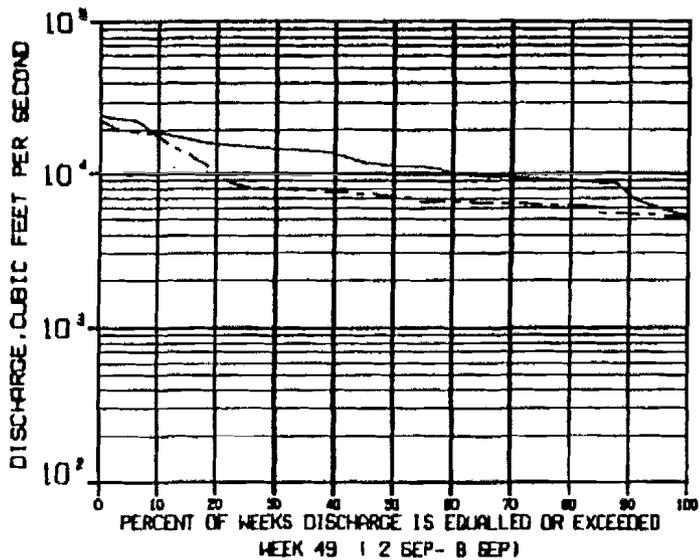
NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

LEGEND

———— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA



LEGEND

—— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

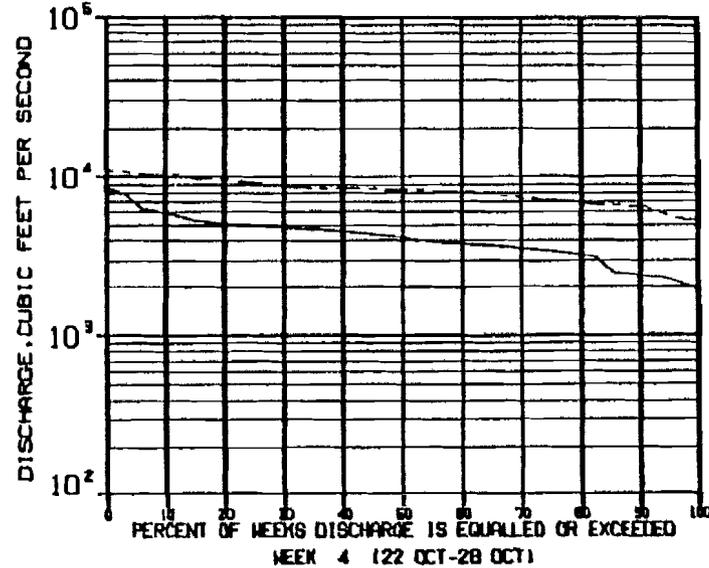
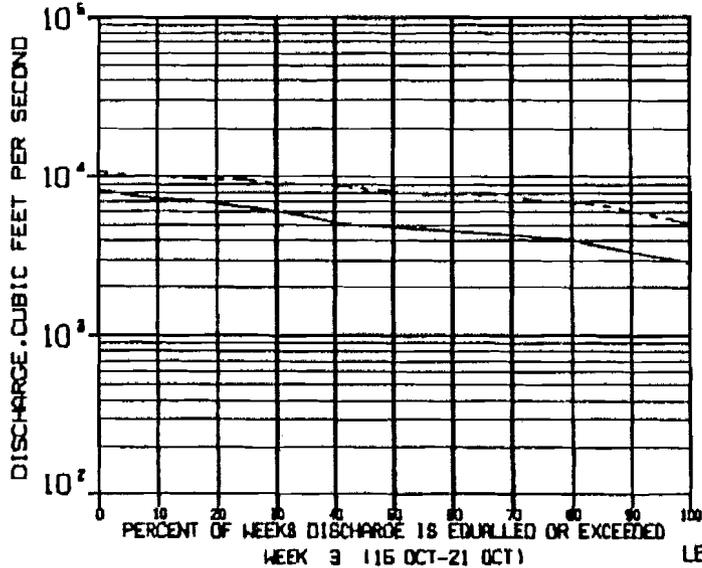
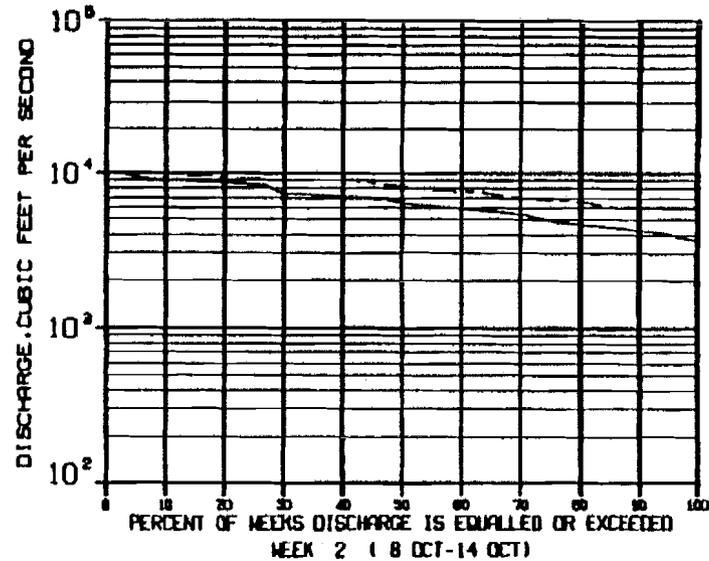
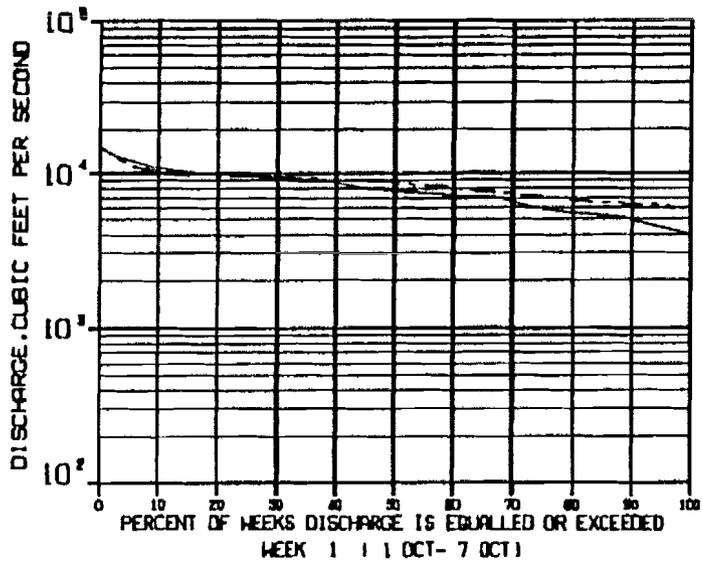
NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT WATANA

EXHIBIT 9  
 SHEET 19 OF 19

**EXHIBIT 7**



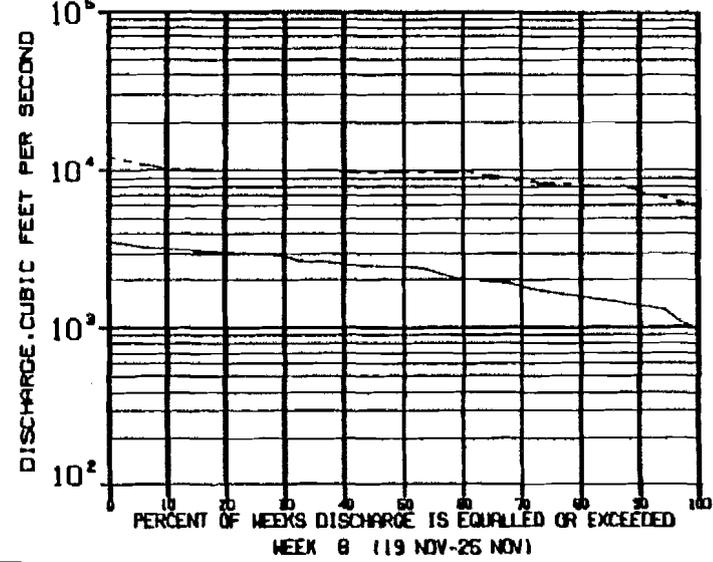
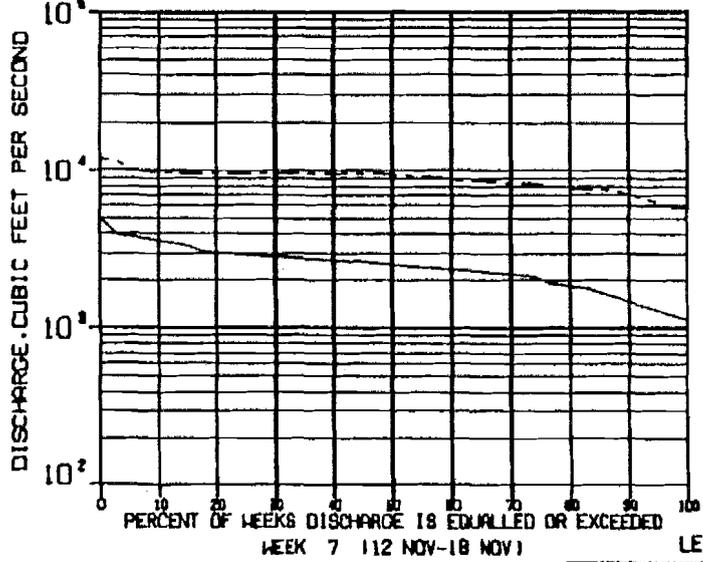
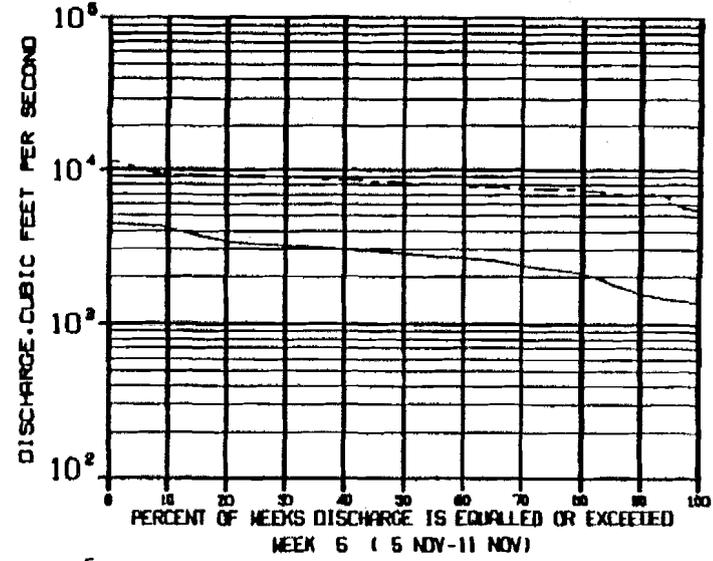
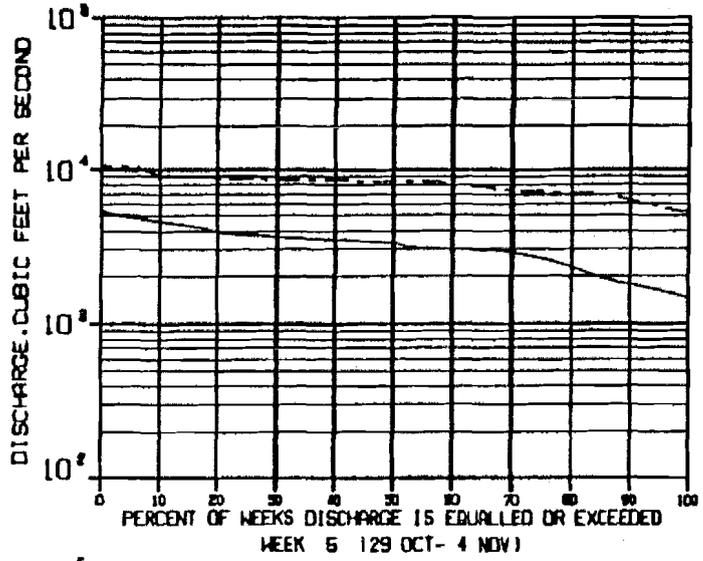
NOTE: FLOW PERIOD WATER YEAR 1961-1983

WARZA-EBRACO SUSITNA JOINT VENTURE JAN 85

\_\_\_\_\_ NATURAL  
 - - - - - WITH PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK

EXHIBIT 7  
 SHEET 1 OF 13



LEGEND

—— NATURAL

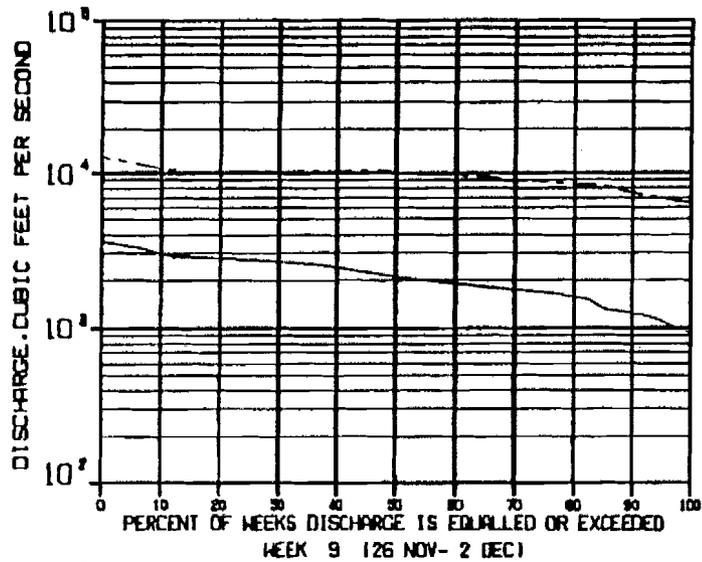
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CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 2001  
(NATANA ONLY)

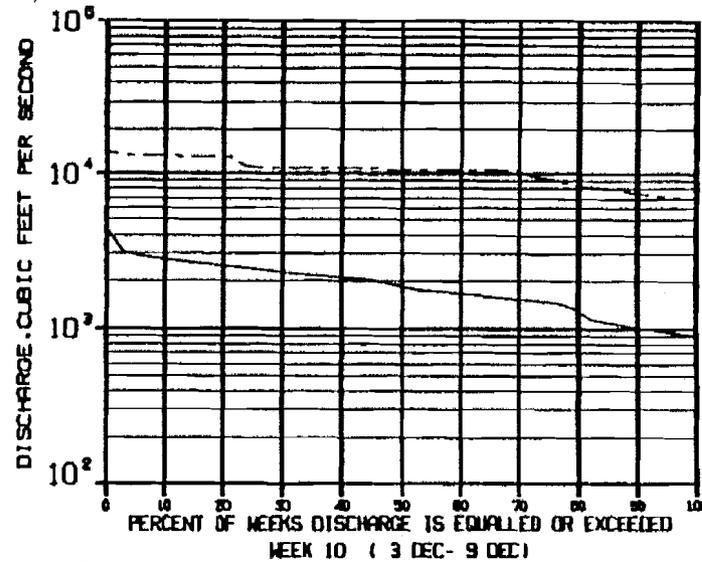
NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

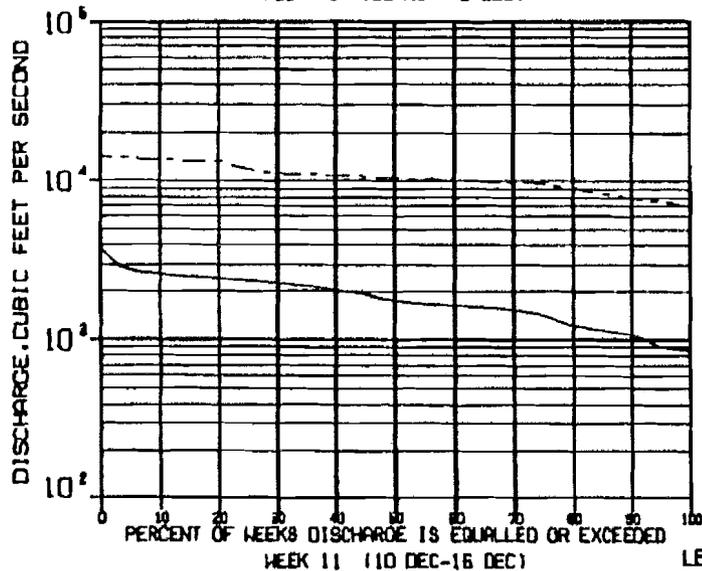
FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT GOLD CREEK



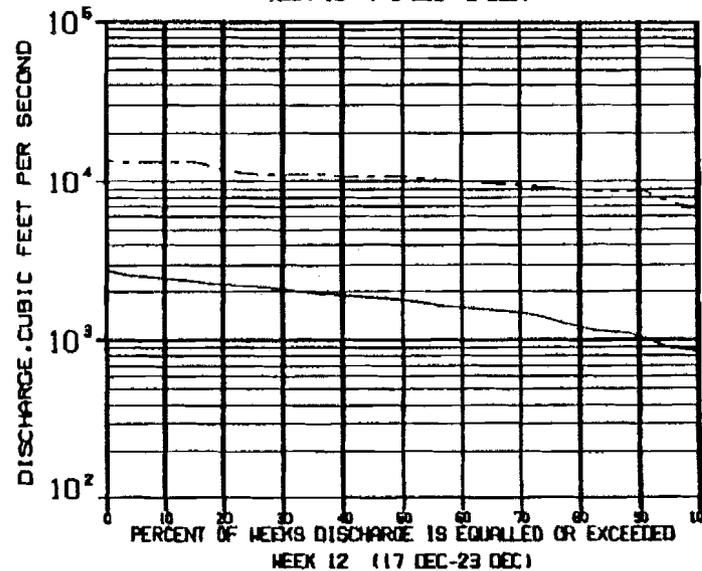
WEEK 9 (26 NOV- 2 DEC)



WEEK 10 ( 3 DEC- 9 DEC)



WEEK 11 (10 DEC-16 DEC)



WEEK 12 (17 DEC-23 DEC)

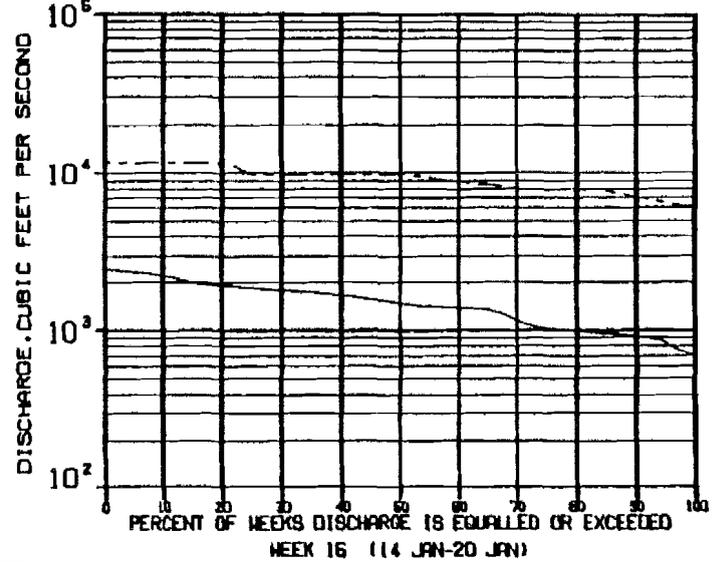
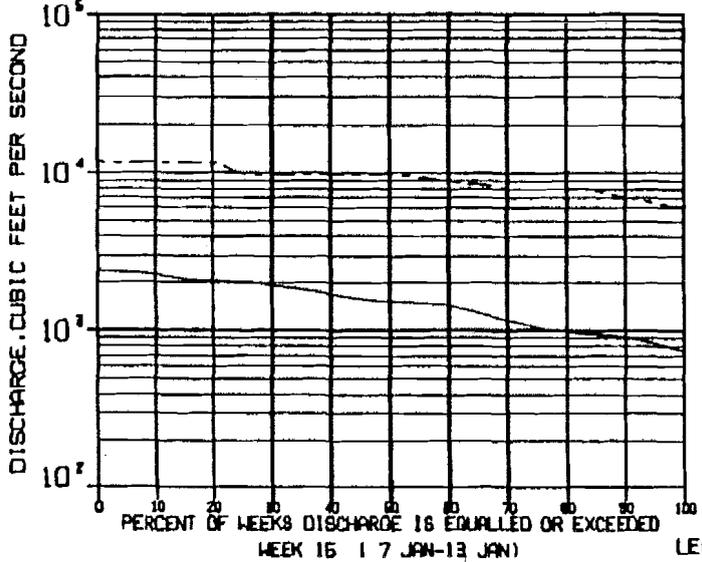
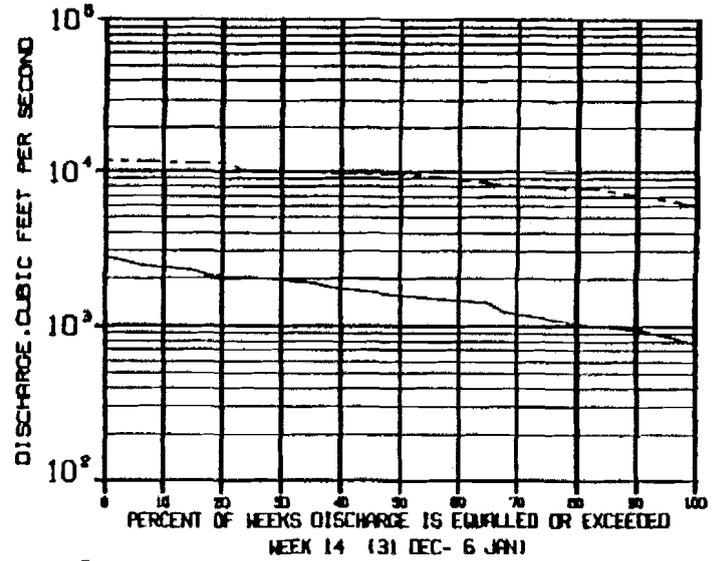
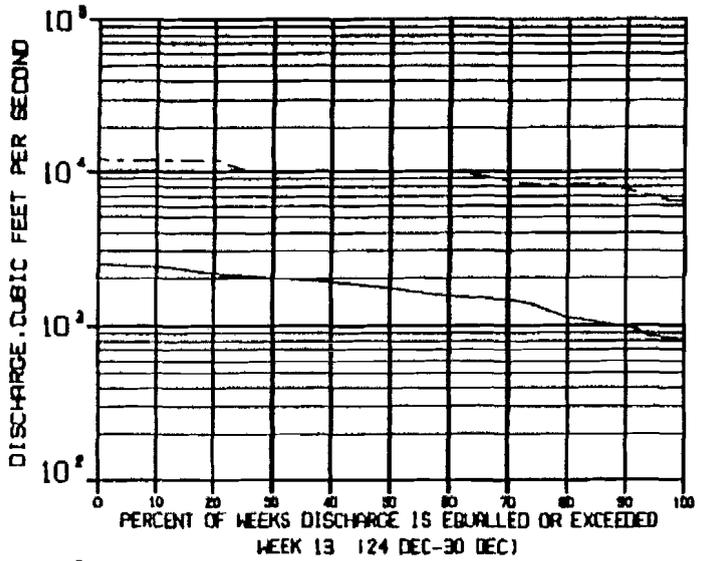
LEGEND

— NATURAL  
 - - - WITH-PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT COLD CREEK

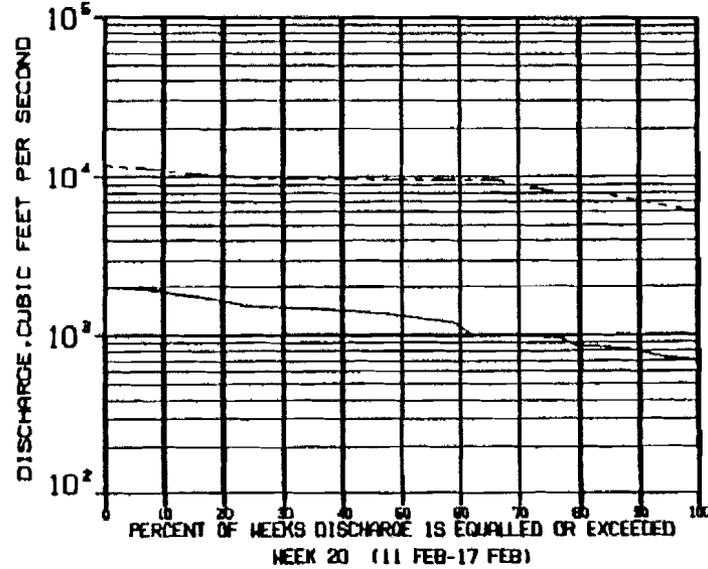
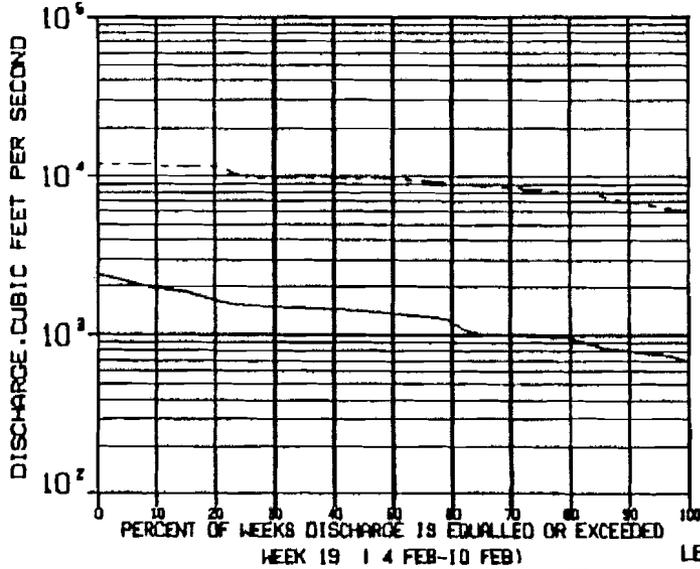
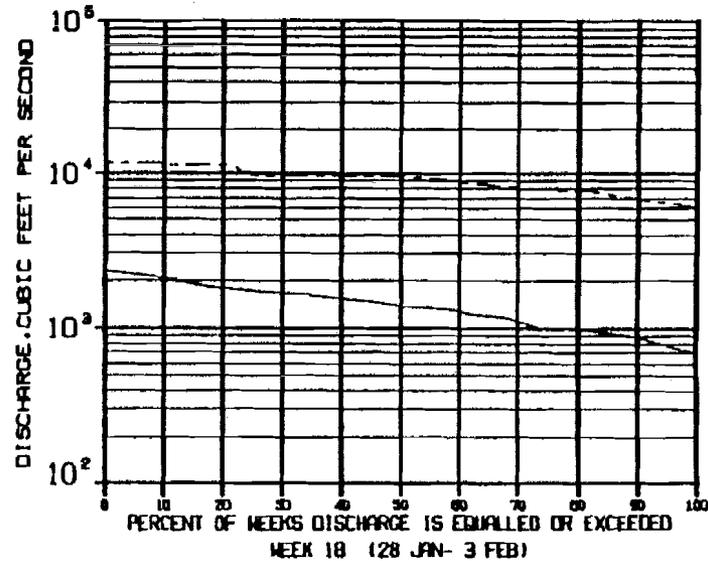
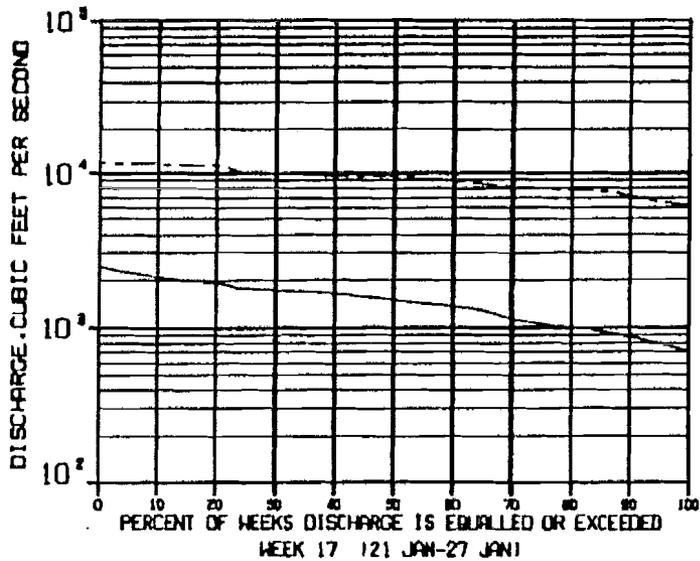


NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

LEGEND  
 ——— NATURAL  
 - - - WITH-PROJECT  
 - - - CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK

EXHIBIT 7  
 SHEET 4 OF 13



LEGEND

———— NATURAL

- - - - - WITH-PROJECT

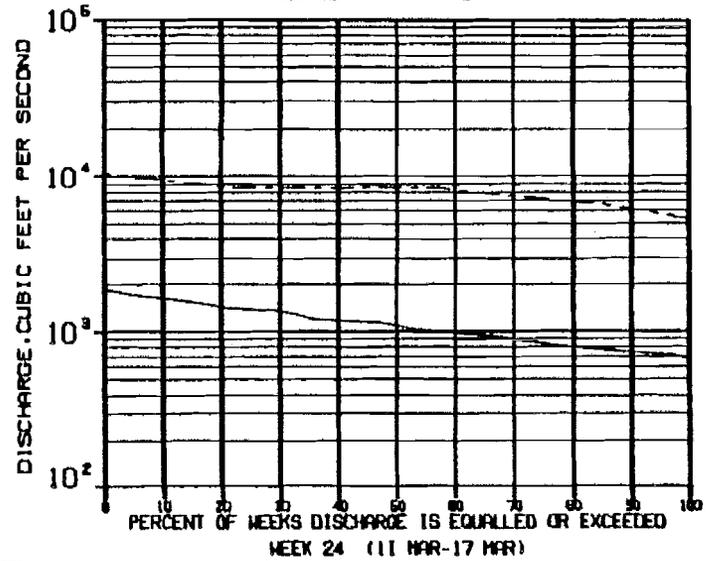
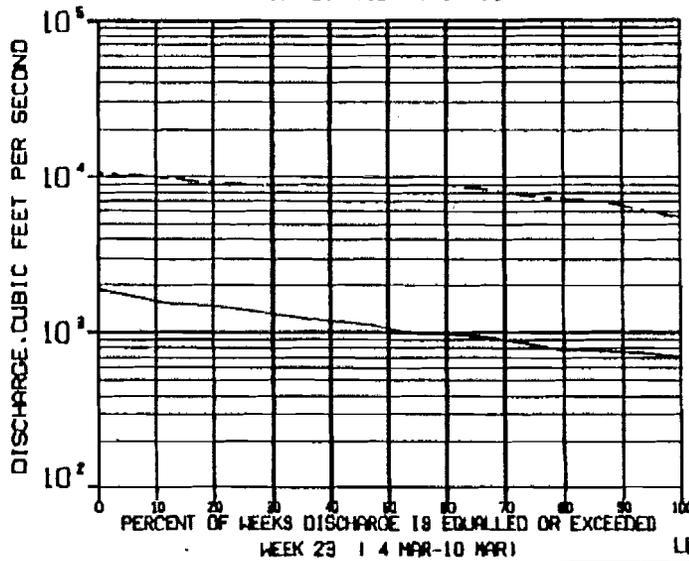
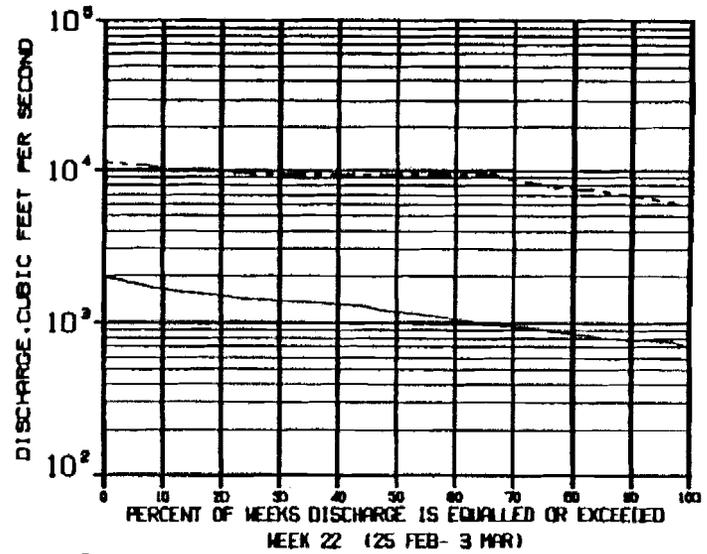
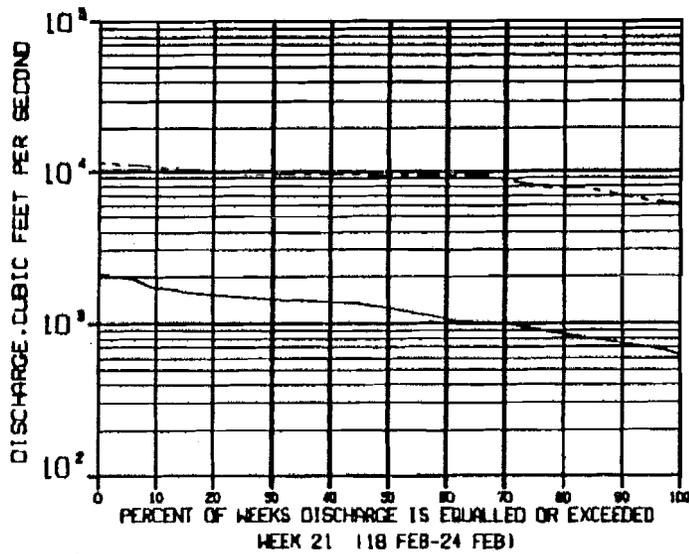
NOTE, FLOW PERIOD WATER YEAR 1951-1993

MARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES

BASED ON WEEKLY DISCHARGE

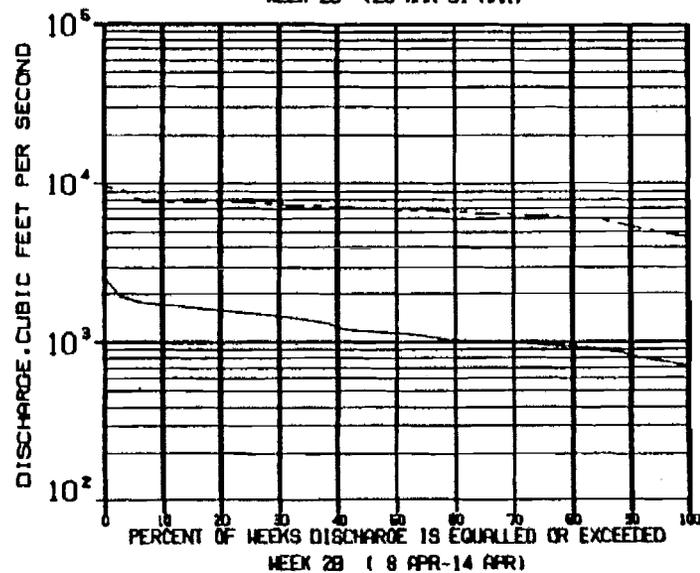
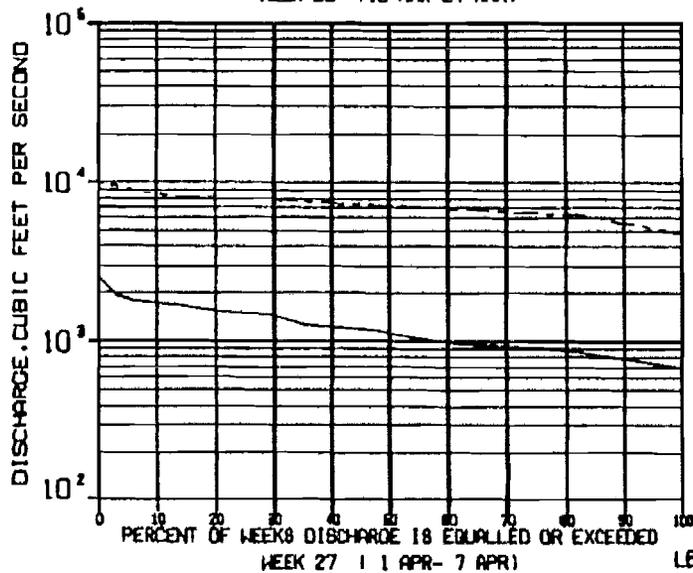
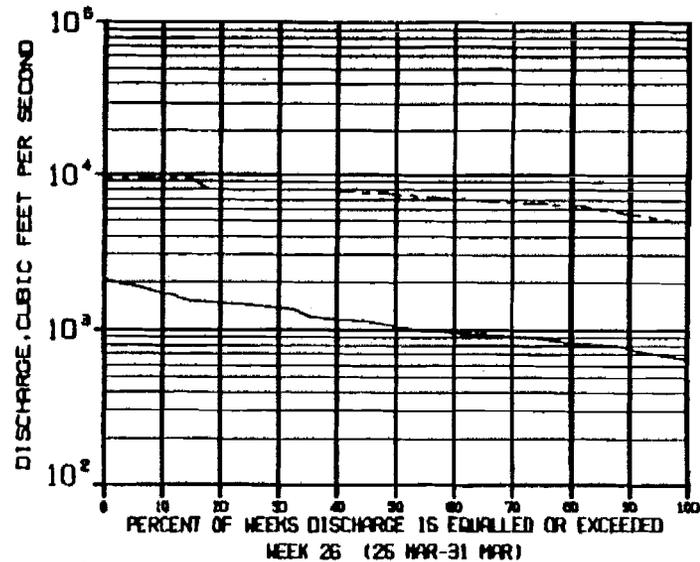
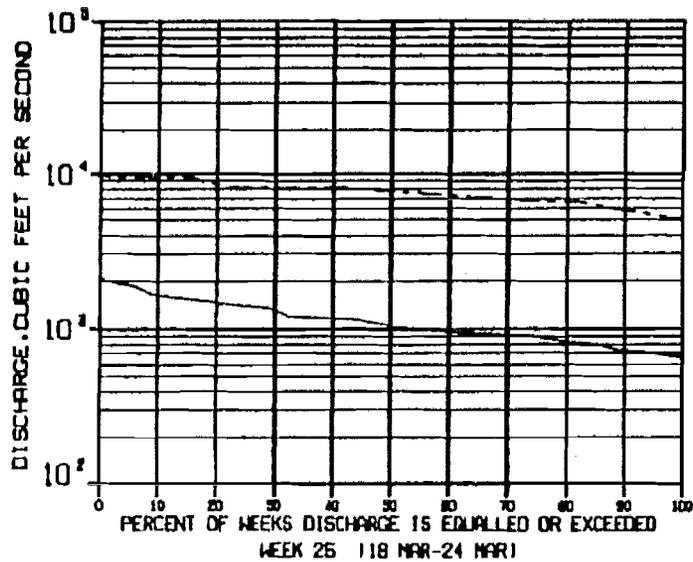
SUSITNA RIVER AT GOLD CREEK



NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

LEGEND  
 ——— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



LEGEND

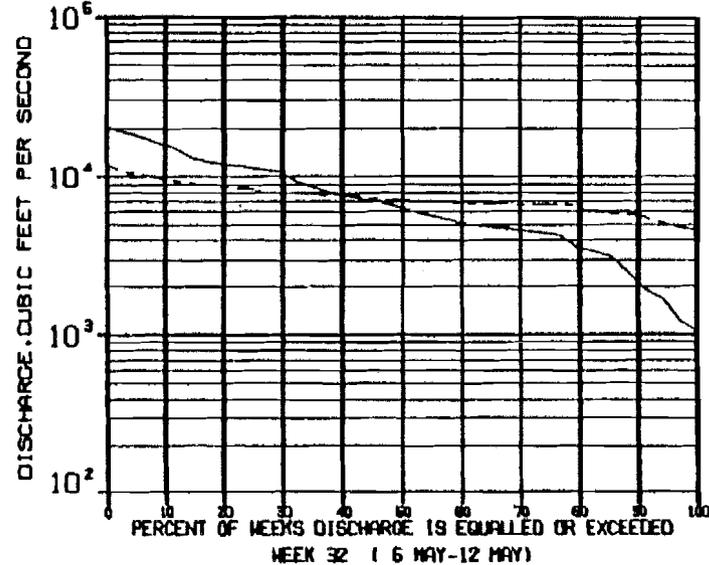
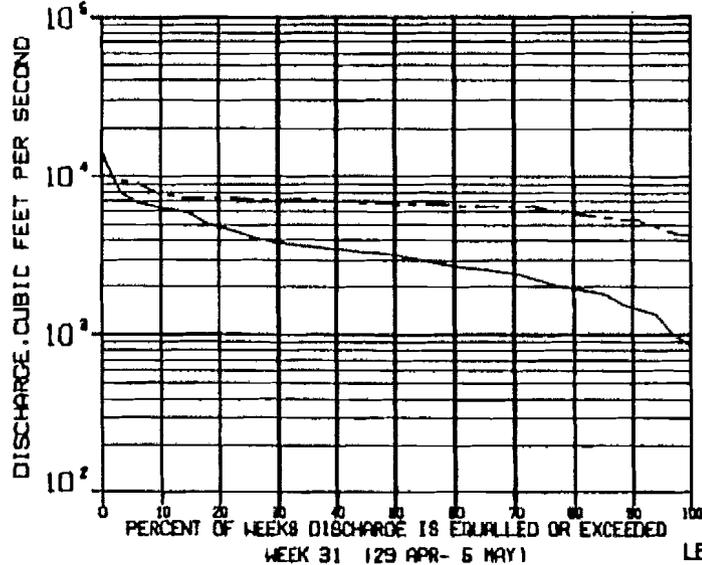
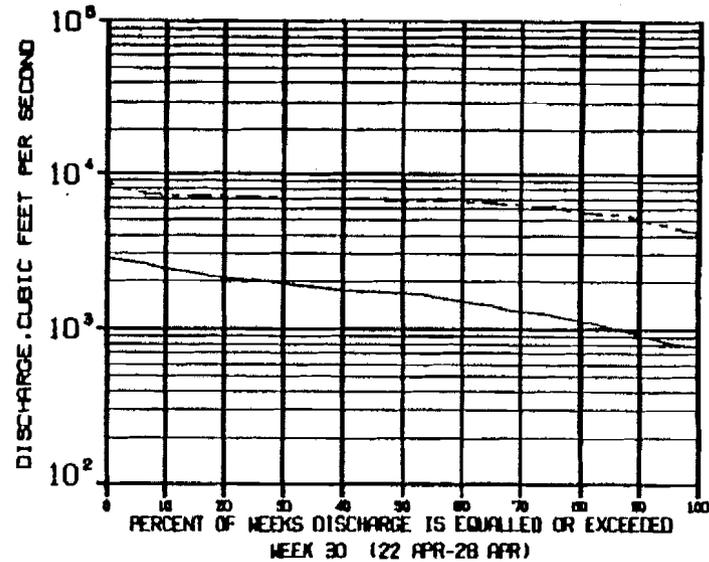
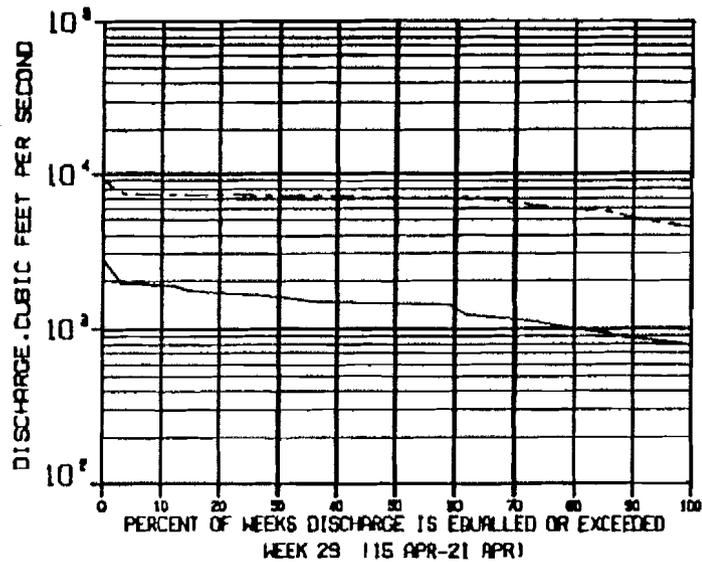
—— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK

EXHIBIT 7  
 SHEET 7 OF 13



LEGEND

———— NATURAL

----- WITH PROJECT

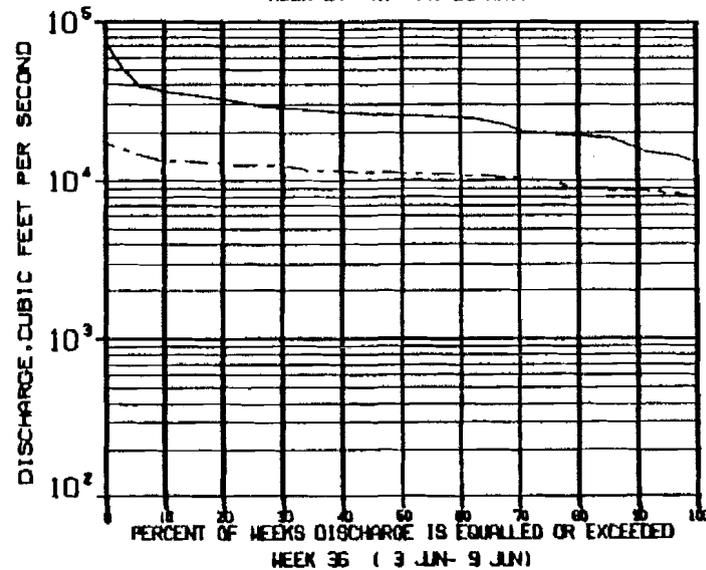
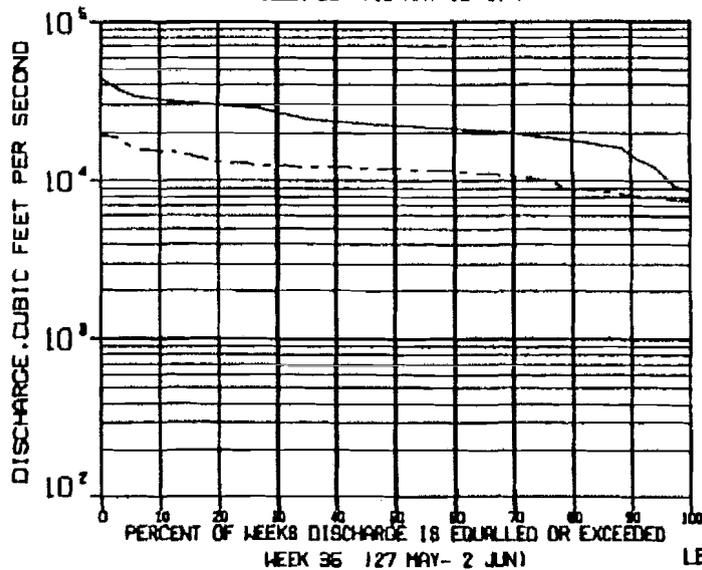
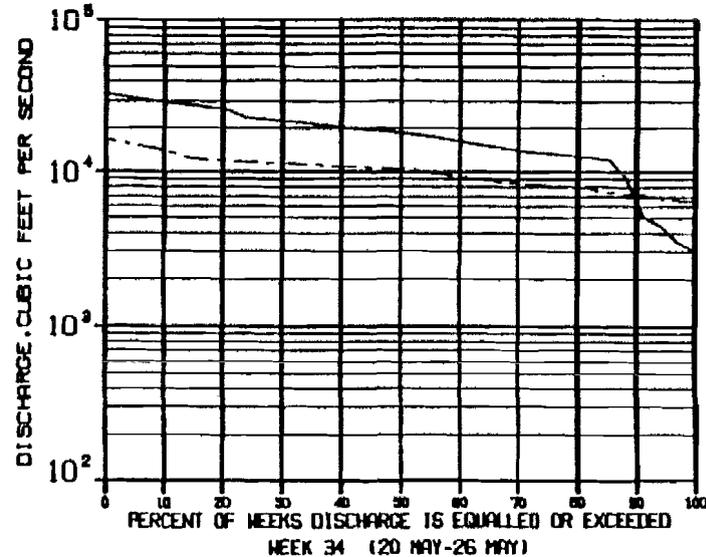
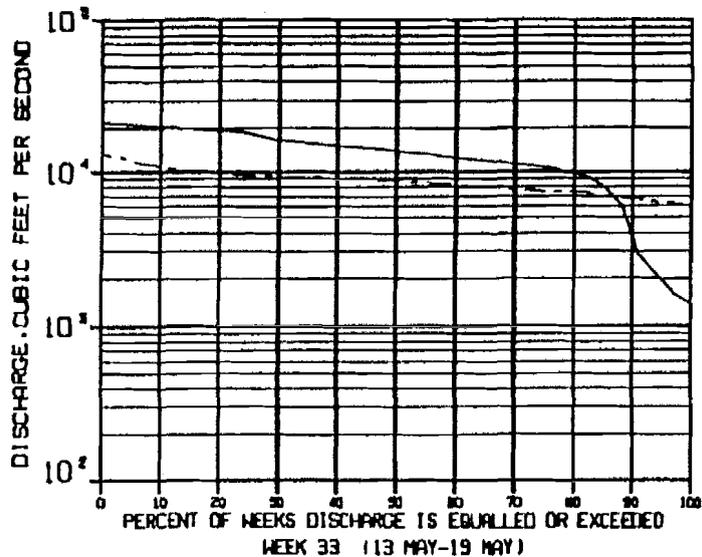
CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 2001  
(WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT GOLD CREEK

EXHIBIT 7  
SHEET 9 OF 13



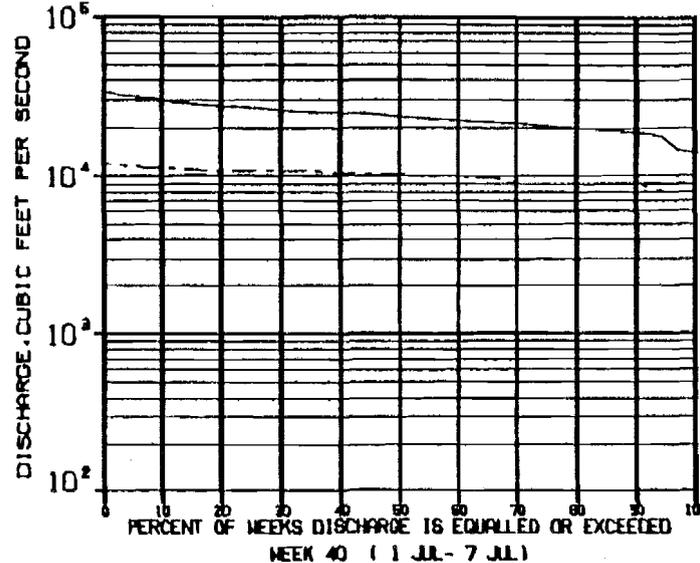
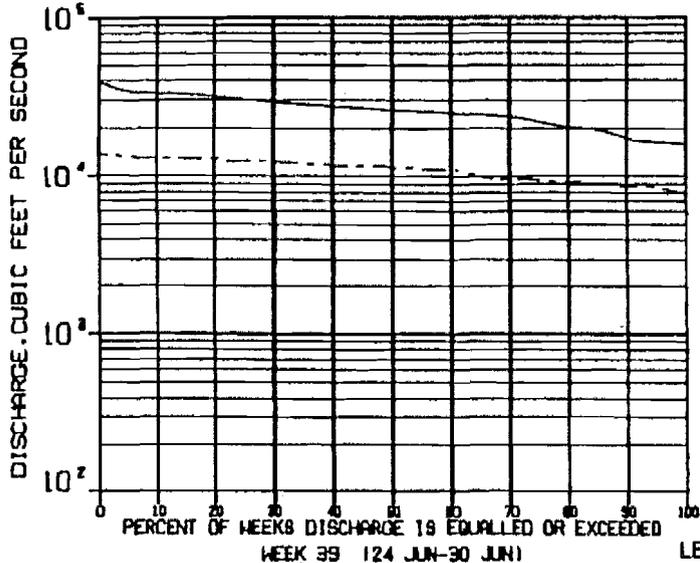
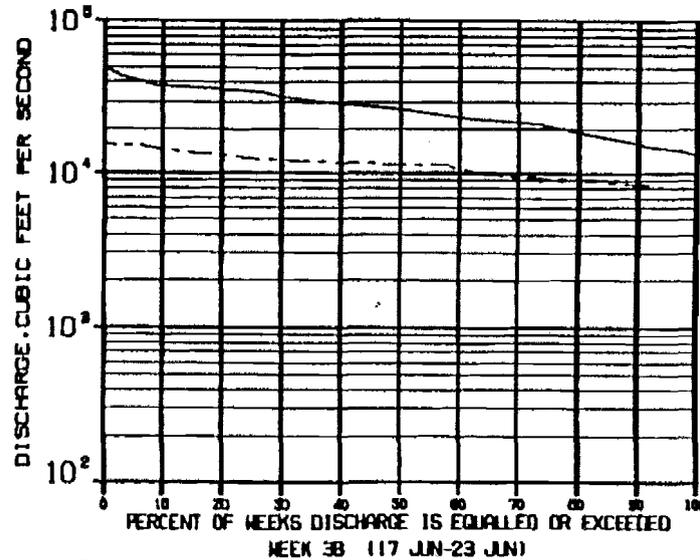
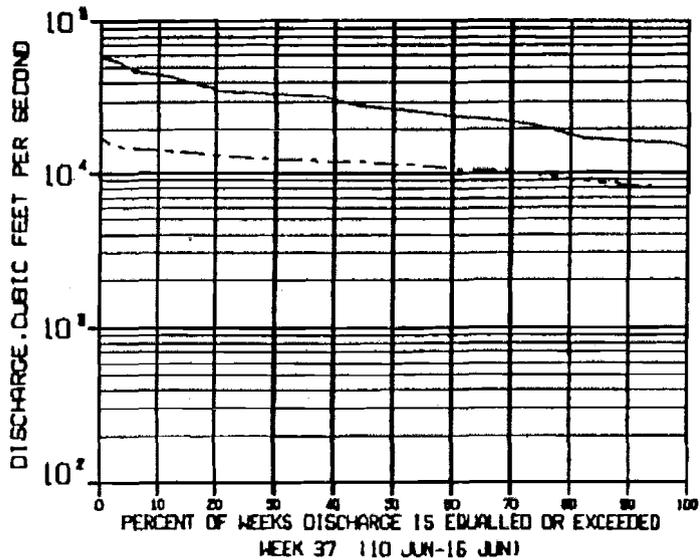
LEGEND

——— NATURAL  
 - - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK

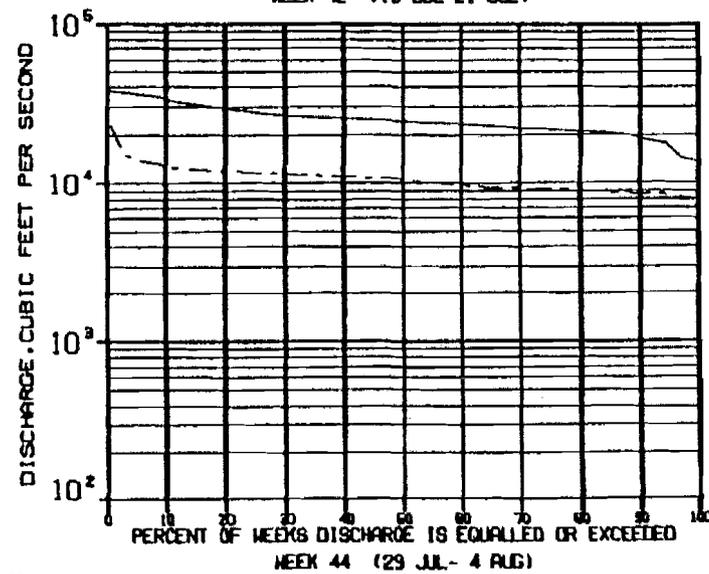
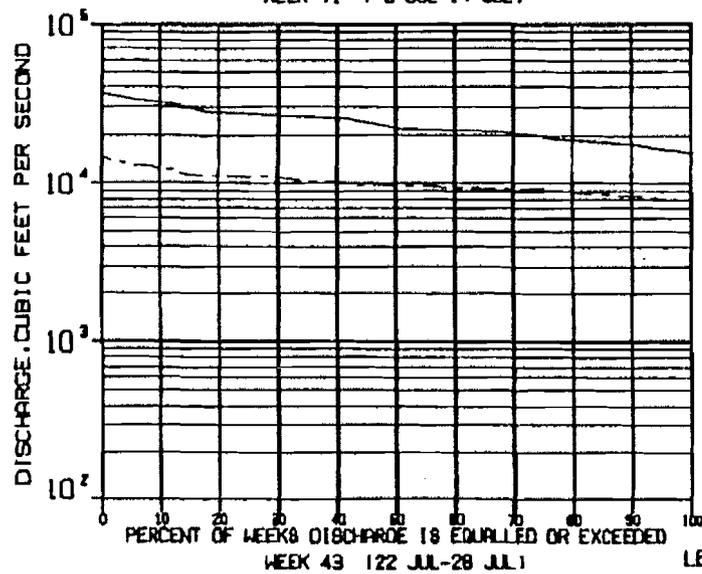
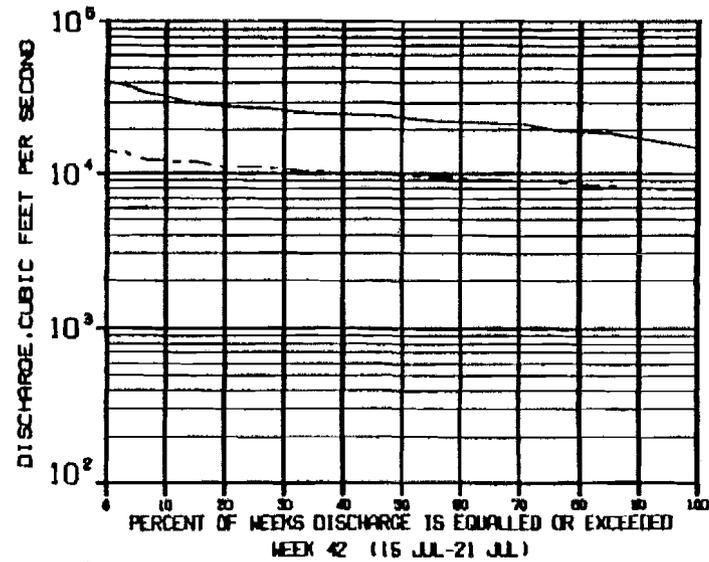
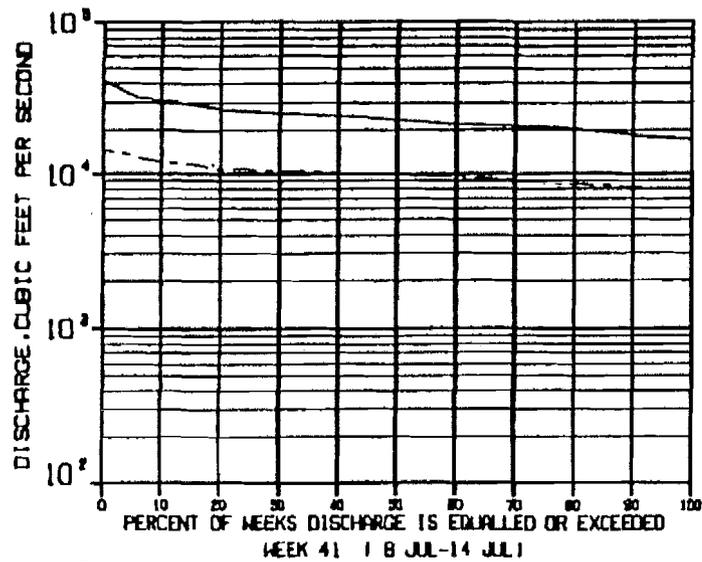


LEGEND

\_\_\_\_\_ NATURAL  
 - - - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1951-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



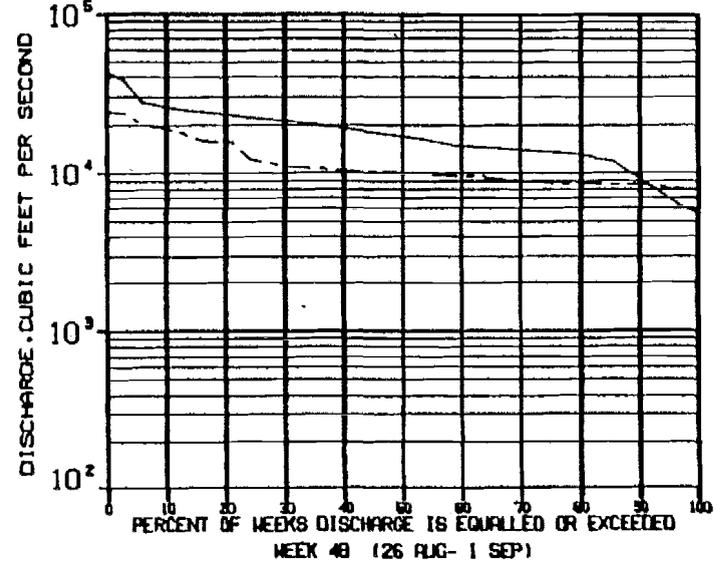
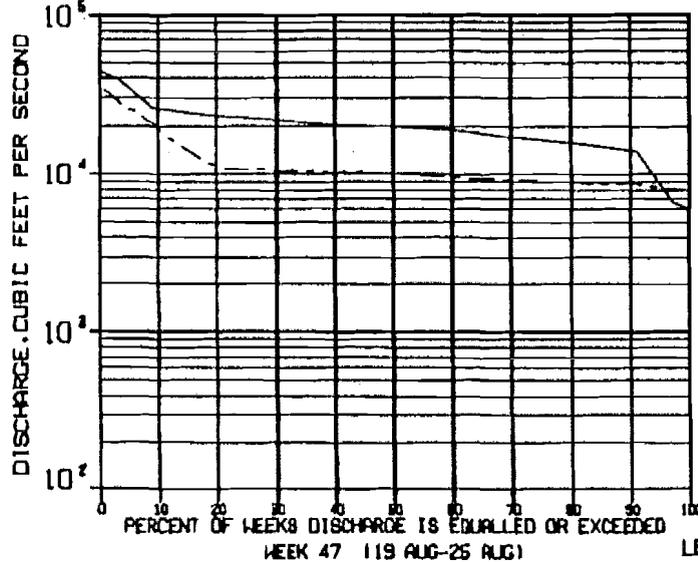
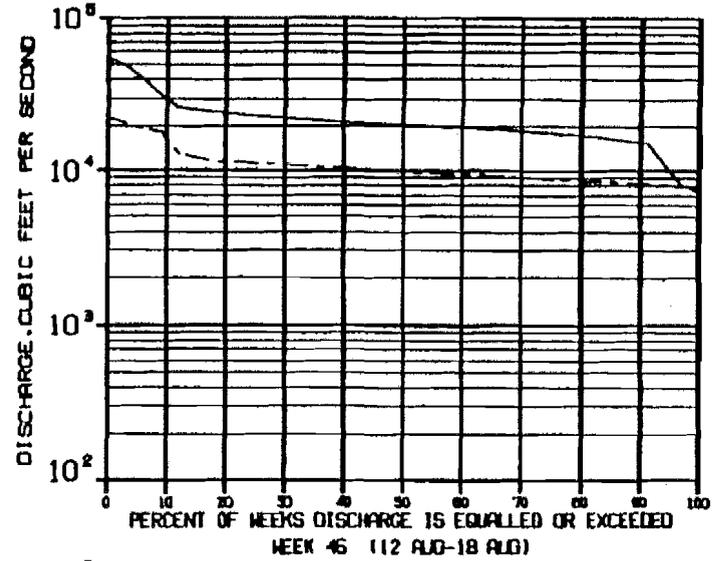
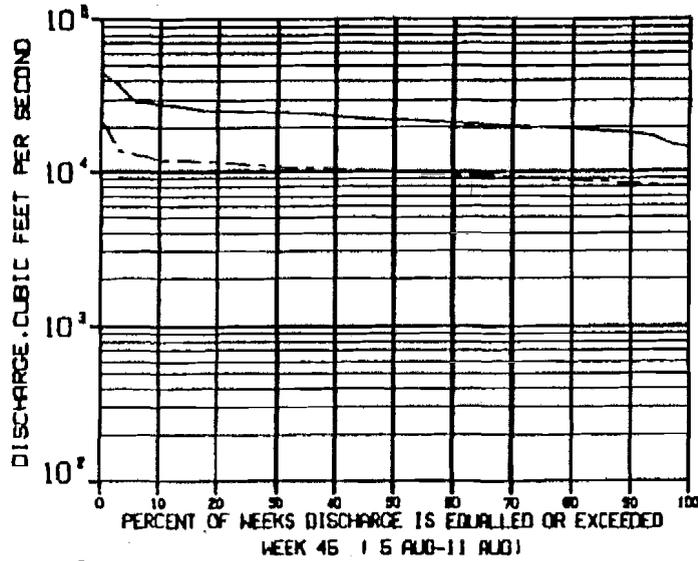
LEGEND

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 - - - - - WITH-PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (MATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK

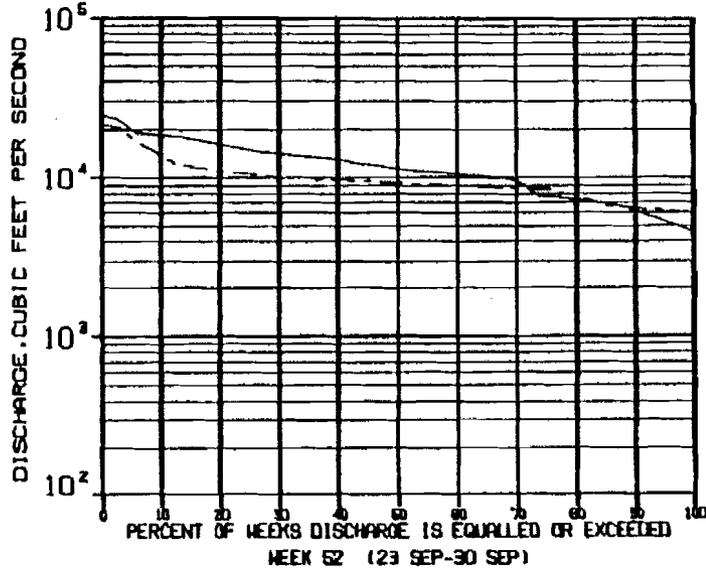
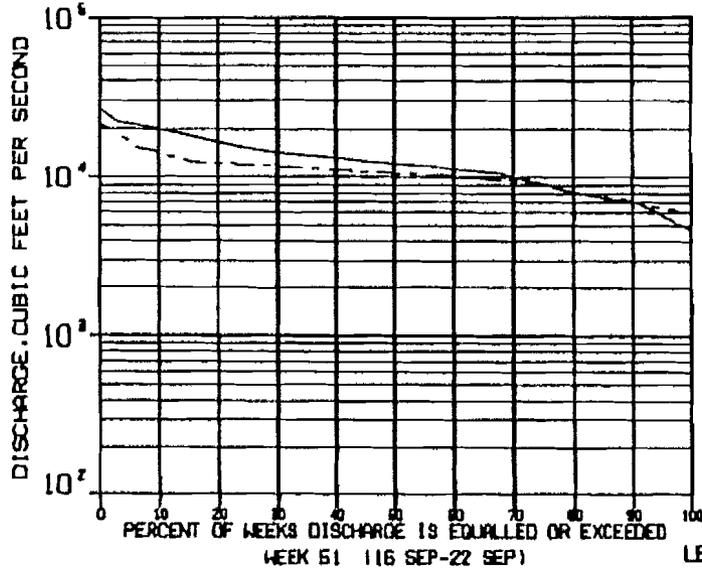
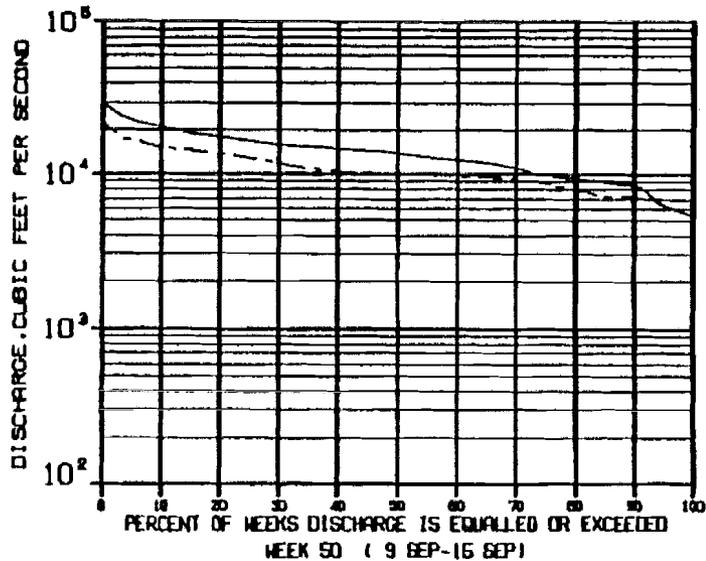
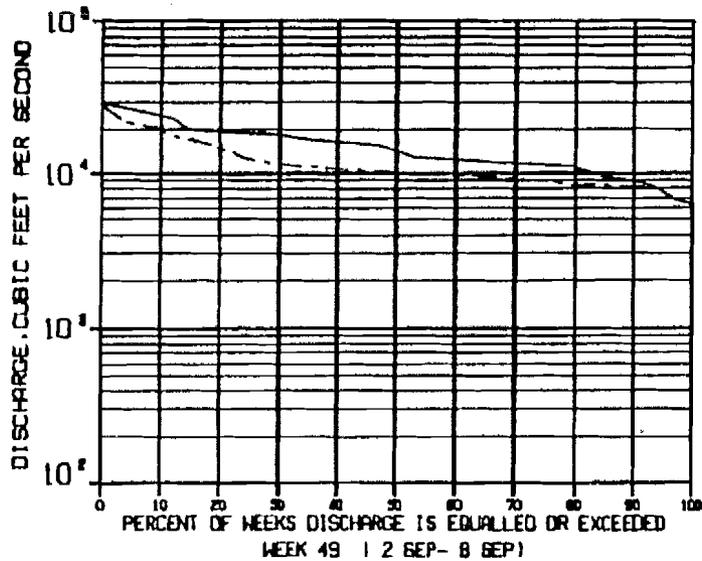
EXHIBIT 7  
 SHEET 11 OF 13



LEGEND  
 ——— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK



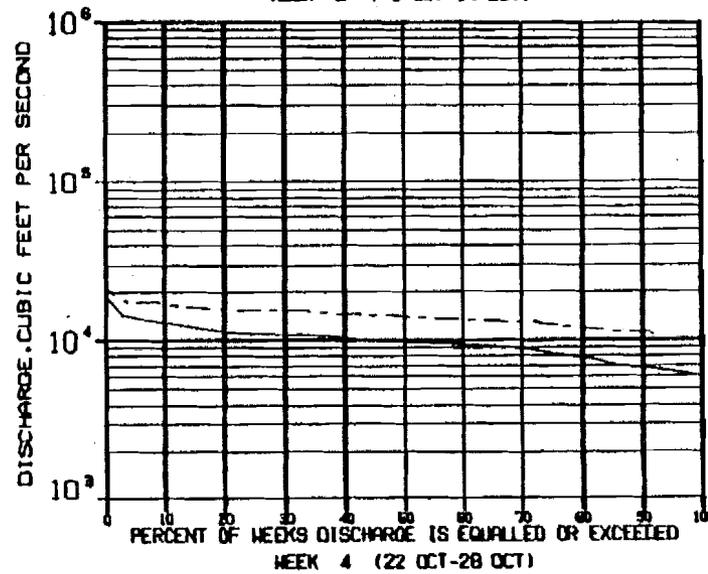
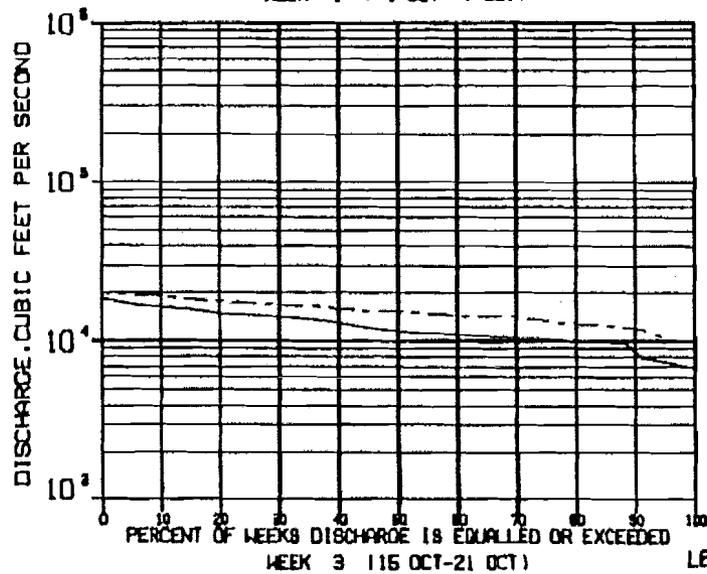
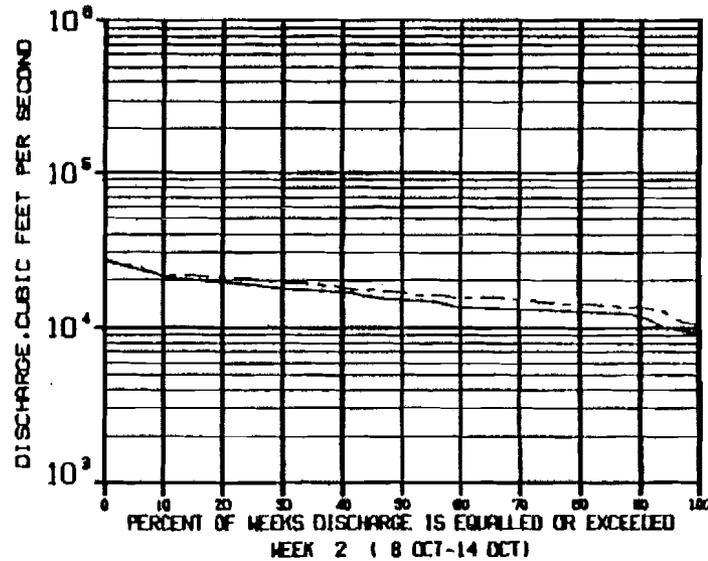
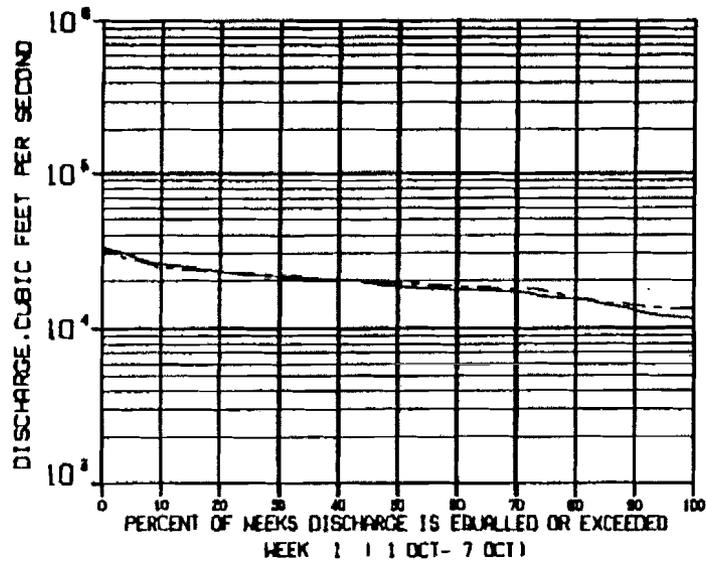
LEGEND  
 ——— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT GOLD CREEK

EXHIBIT 7  
 SHEET 19 OF 19

**EXHIBIT 8**



LEGEND

———— NATURAL

----- WITH-PROJECT

CASE E-VI TARGET FLOWS

FOR LOAD CONDITIONS 2001

(NATANA ONLY)

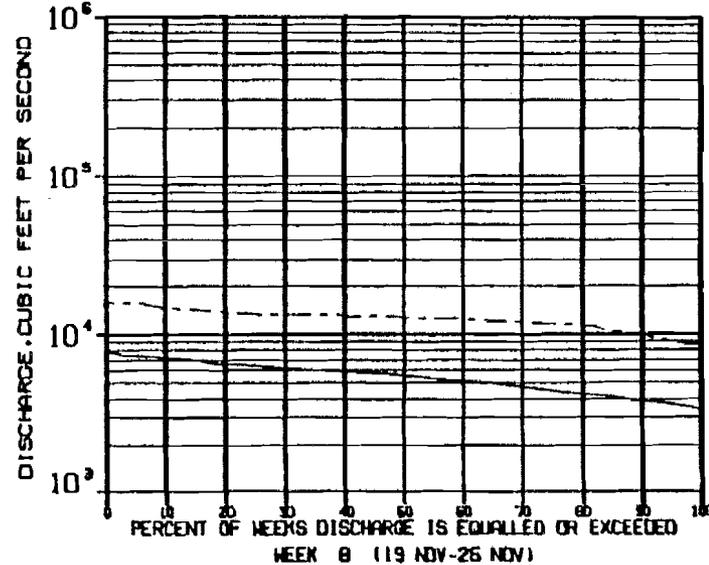
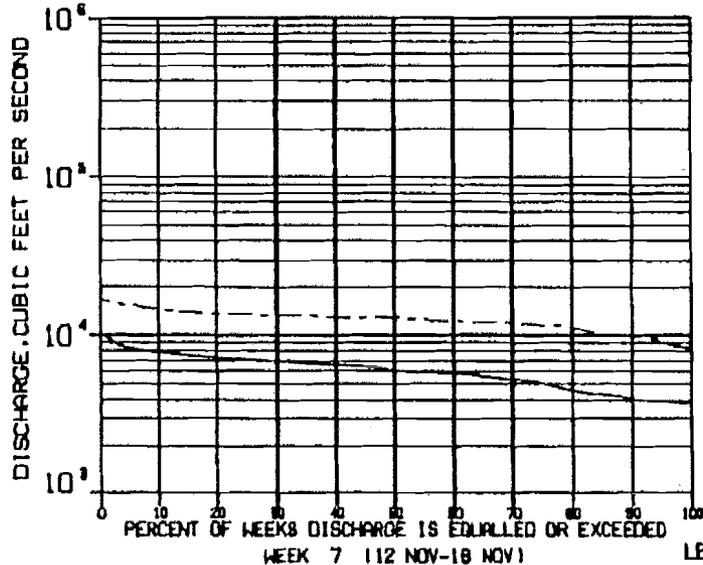
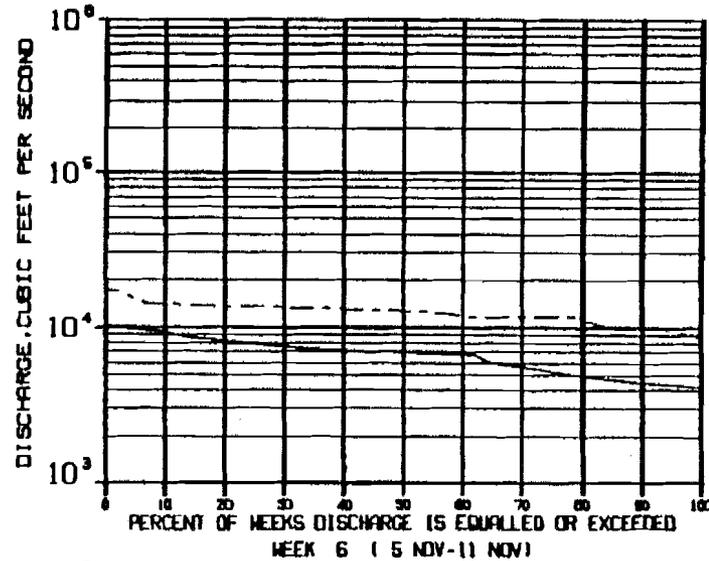
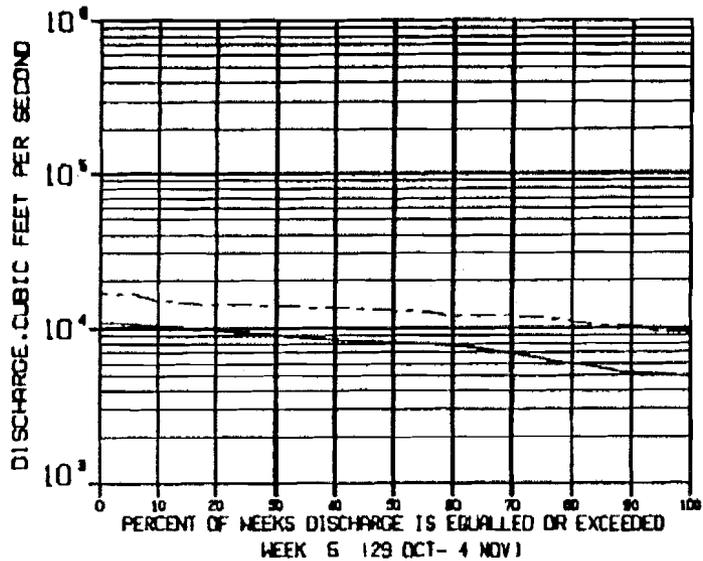
NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES

BASED ON WEEKLY DISCHARGE

SUSITNA RIVER AT SUNSHINE



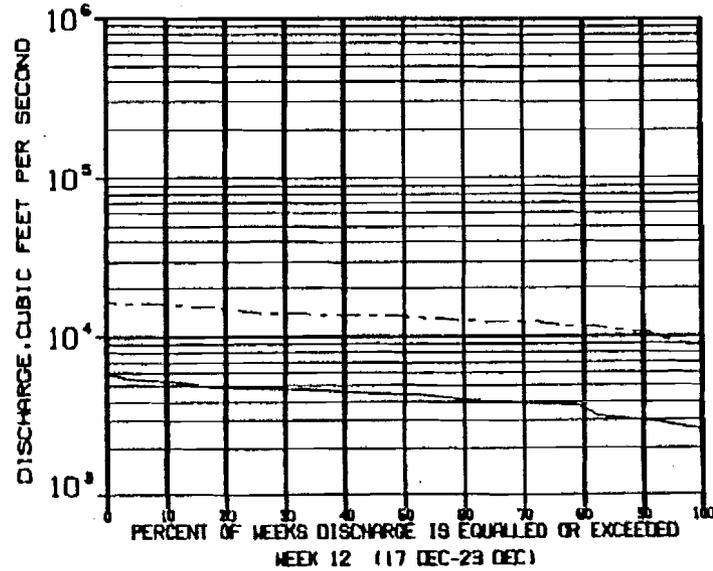
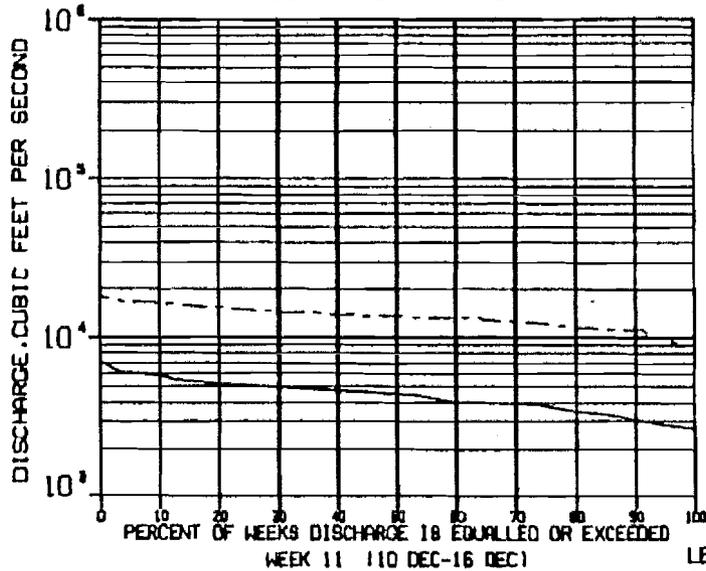
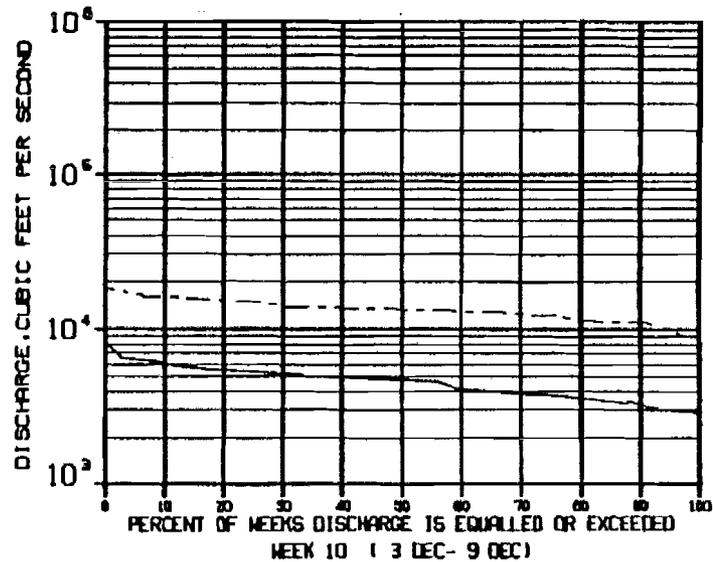
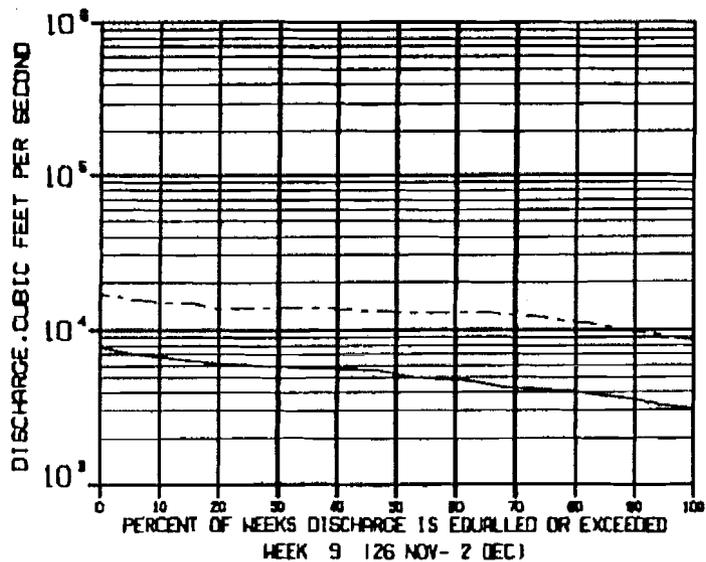
LEGEND

——— NATURAL  
 - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1951-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



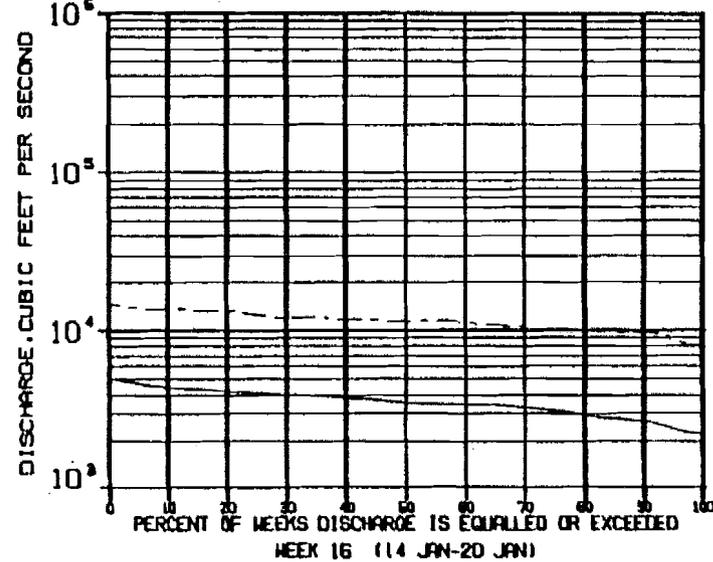
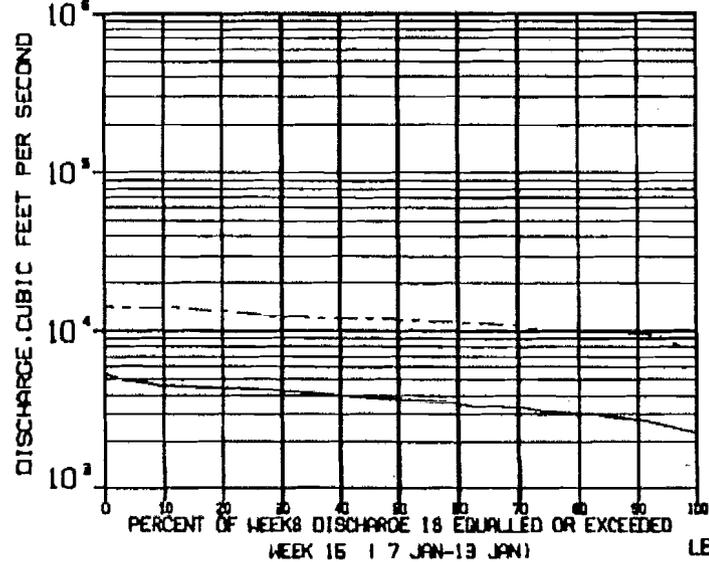
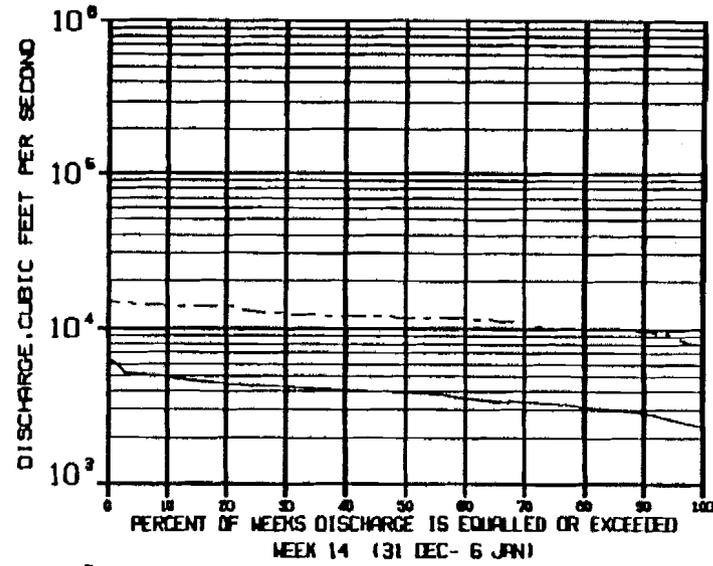
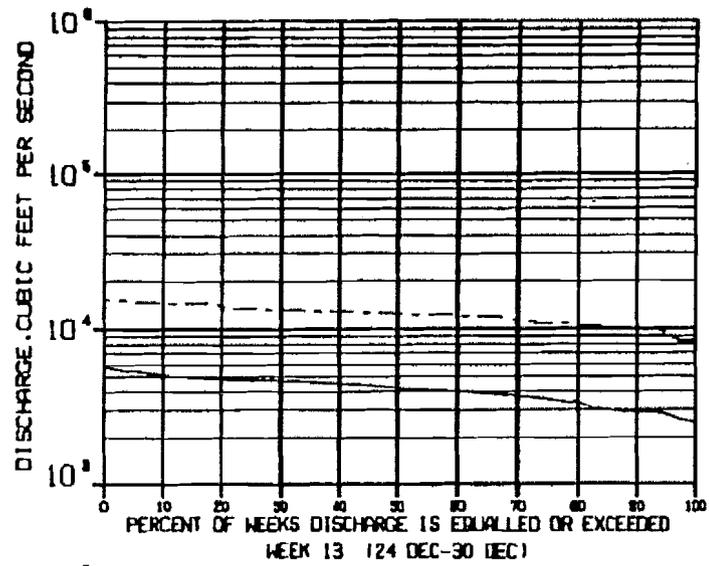
LEGEND

—— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUBITNA JOINT VENTURE JAN 86

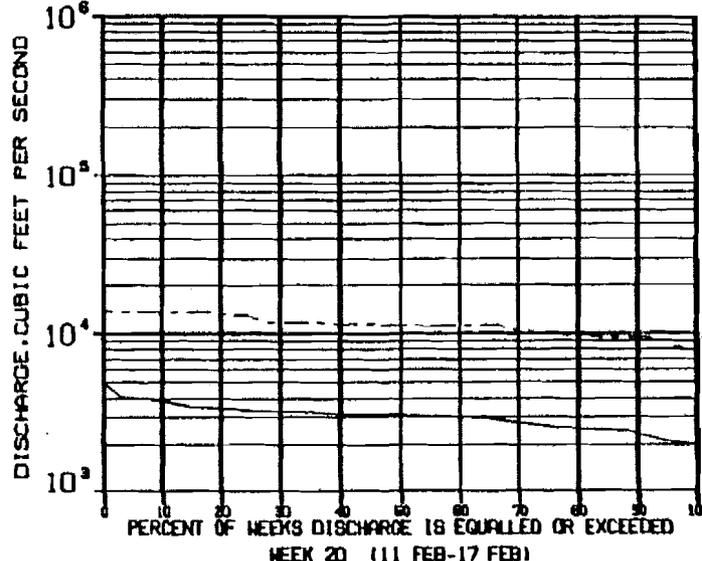
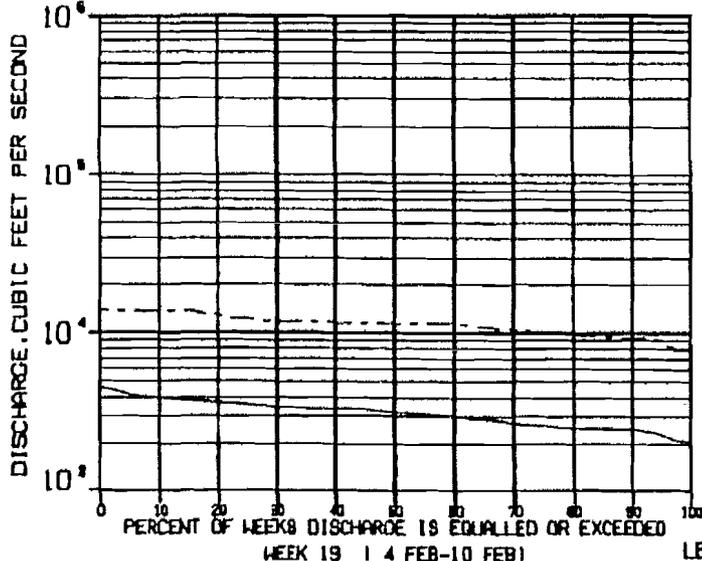
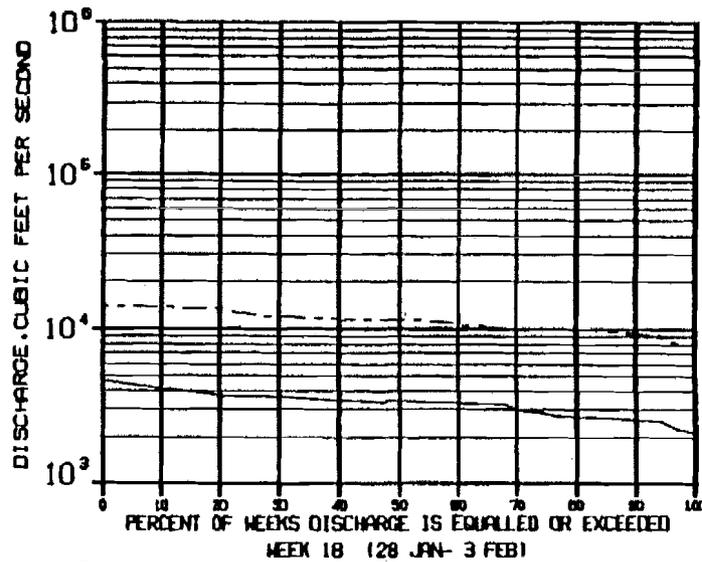
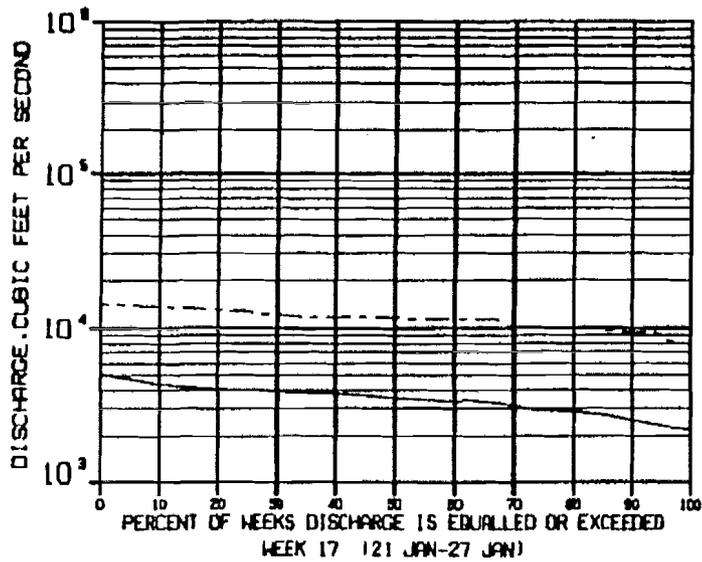
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUBITNA RIVER AT SUNSHINE



NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

LEGEND  
 ——— NATURAL  
 - - - WITH-PROJECT  
 CASE E-VI TARGET FLOW  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



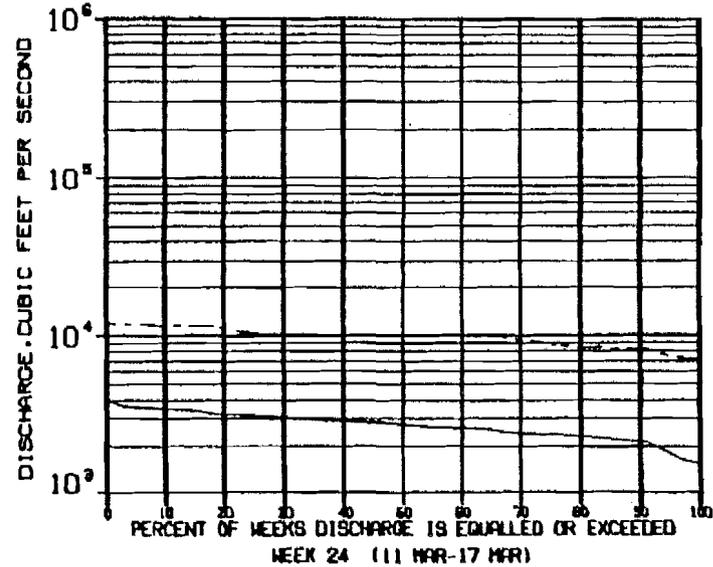
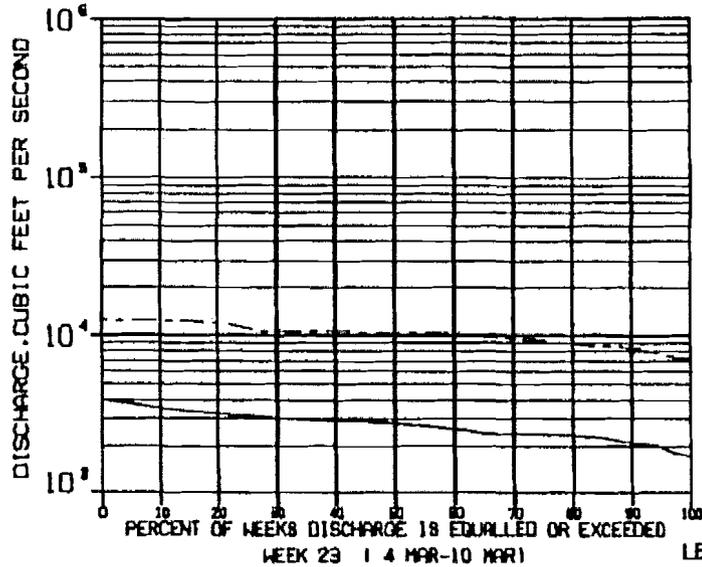
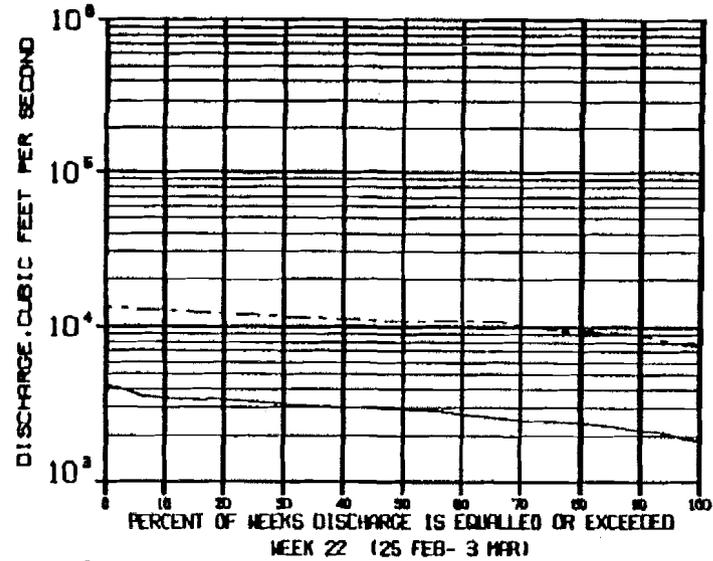
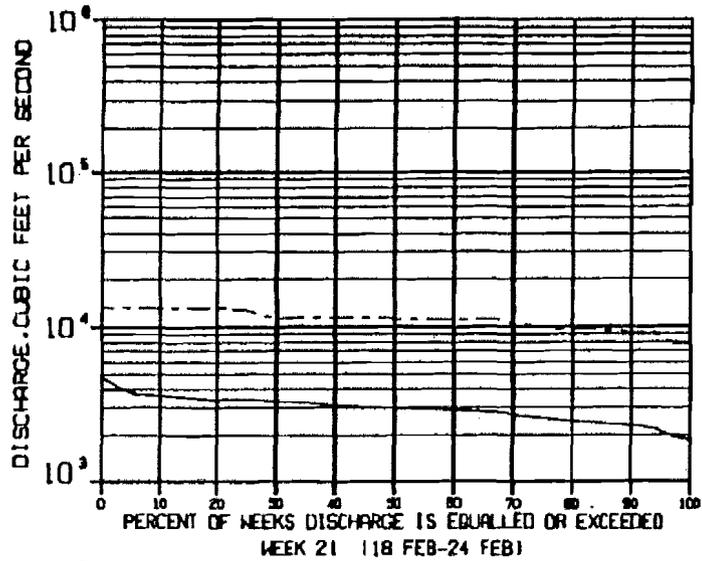
LEGEND

\_\_\_\_\_ NATURAL  
 - - - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 65

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE

EXHIBIT 9  
 SHEET 5 OF 13



LEGEND

———— NATURAL

----- WITH-PROJECT

CASE E-VI TARGET FLOWS

FOR LOAD CONDITIONS 2001

(WATANA ONLY)

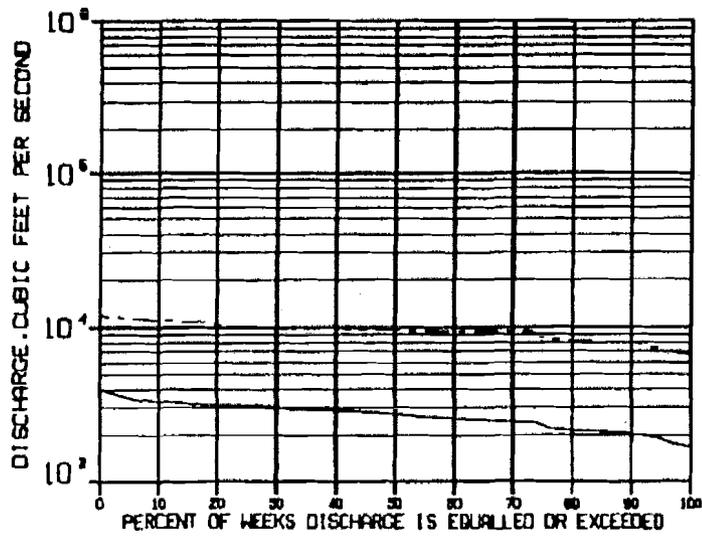
NOTE: FLOW PERIOD WATER YEAR 1961-1993

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

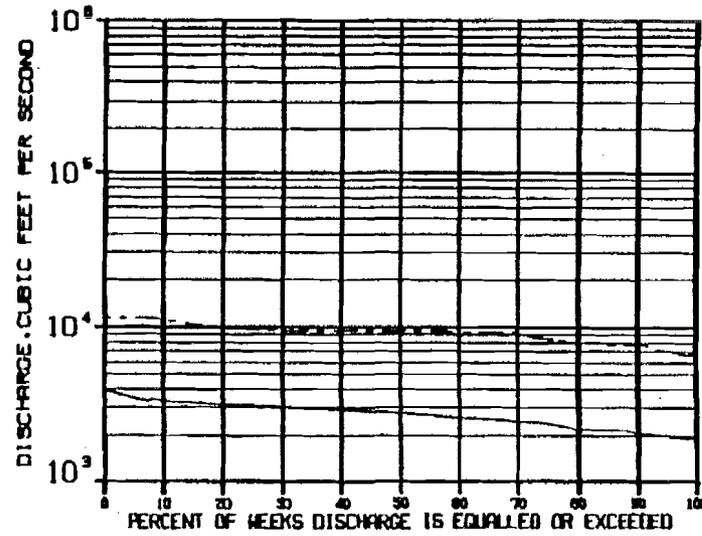
FLOW DURATION CURVES

BASED ON WEEKLY DISCHARGE

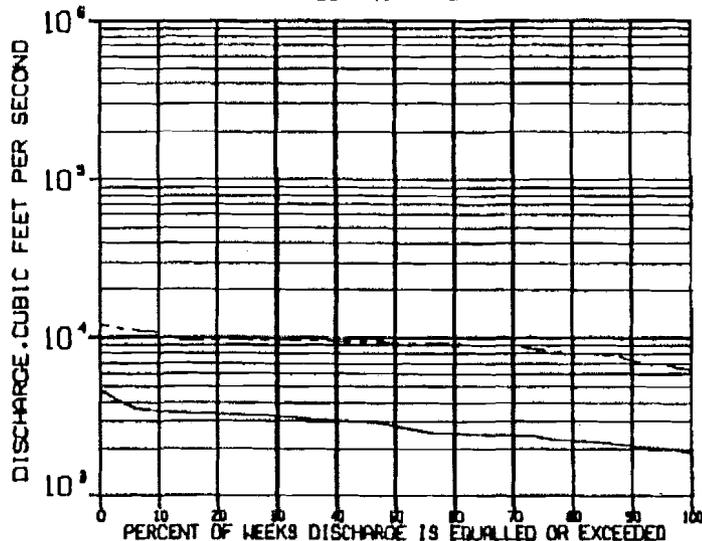
SUSITNA RIVER AT SUNSHINE



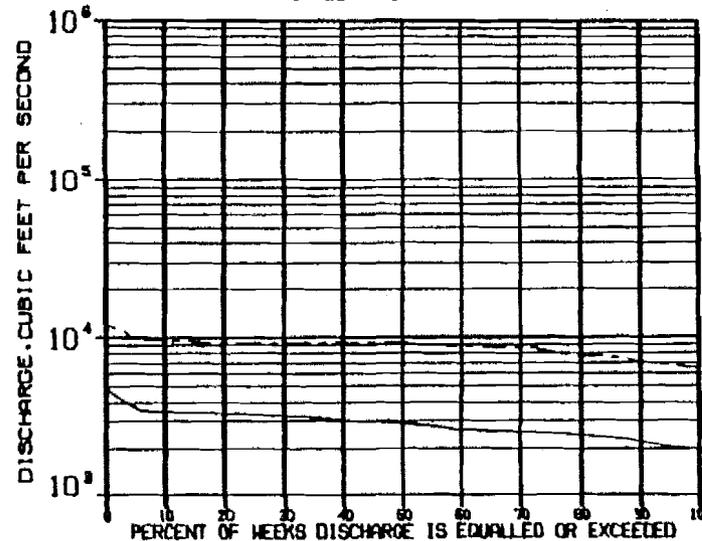
WEEK 26 (118 MAR-24 MAR)



WEEK 26 (125 MAR-31 MAR)



WEEK 27 (1 APR-7 APR)



WEEK 28 (8 APR-14 APR)

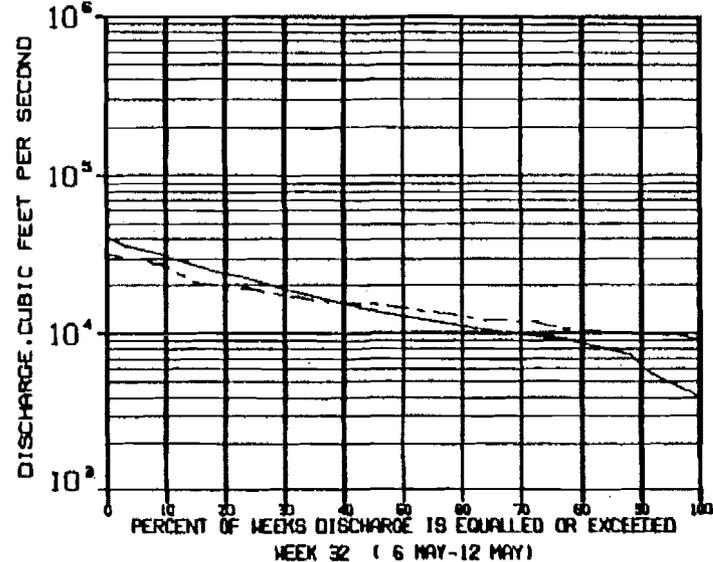
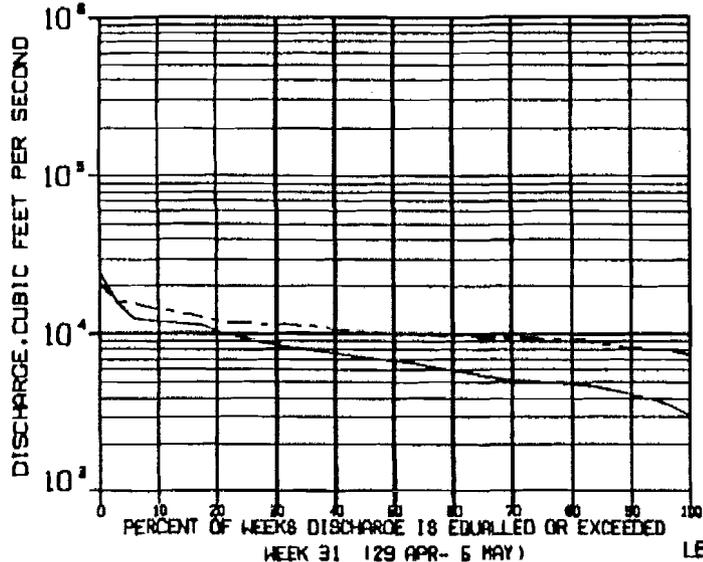
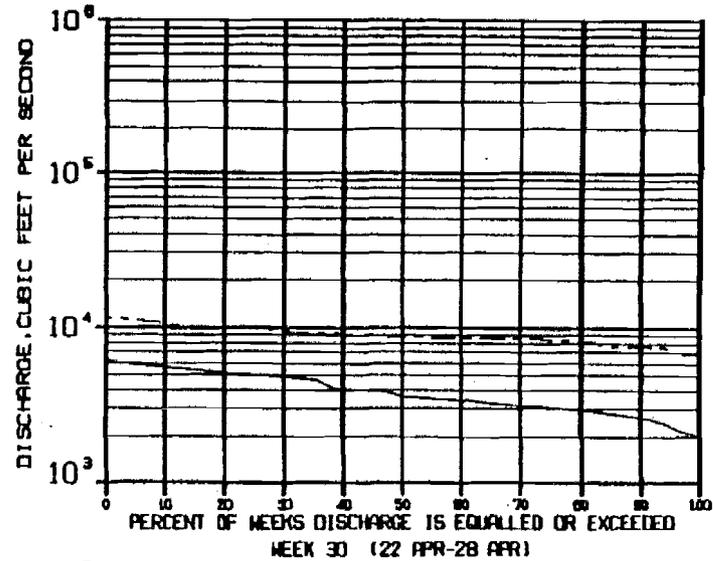
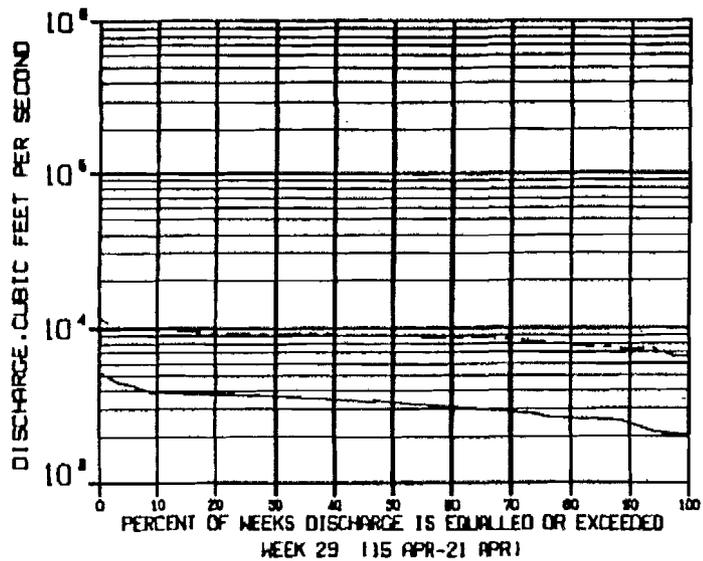
LEGEND

- NATURAL
- WITH-PROJECT
- CASE E-VI TARGET FLOWS
- FOR LOAD CONDITIONS 2001
- (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO BUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
BUSITNA RIVER AT SUNSHINE



LEGEND

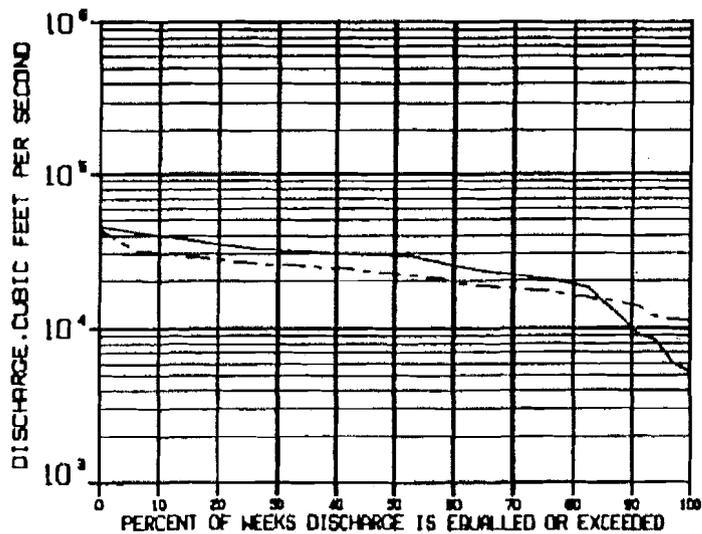
- NATURAL
  - - - - - WITH-PROJECT
- CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 2001  
(WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

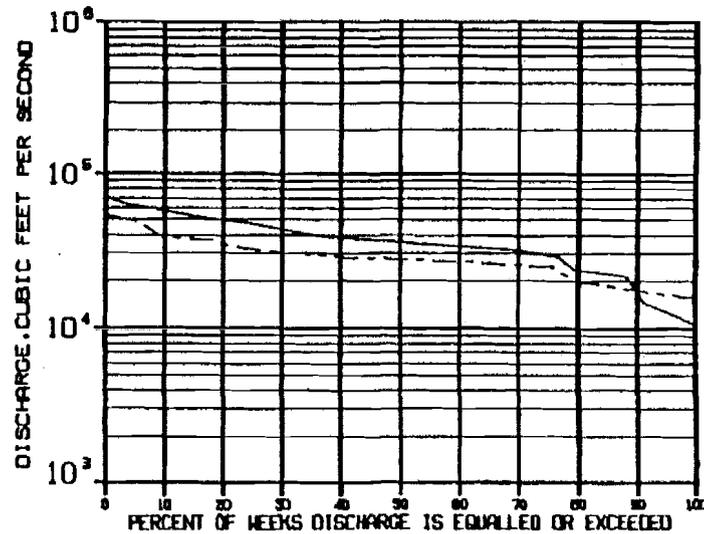
HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT SUNSHINE

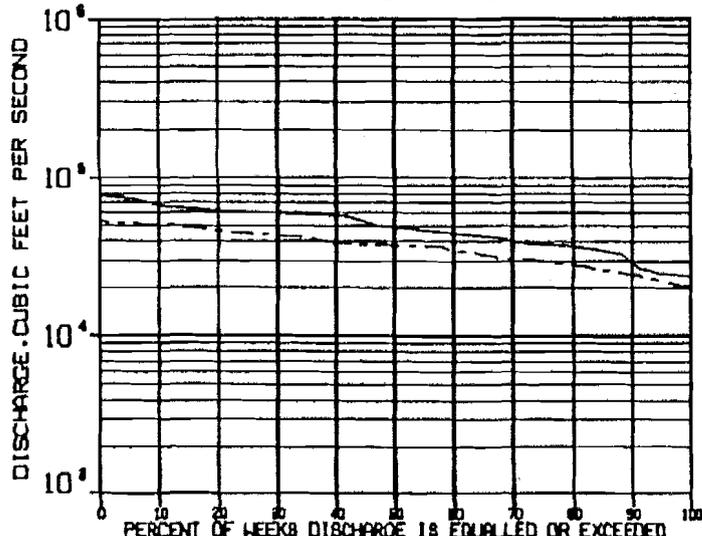
EXHIBIT B  
SHEET 9 OF 13



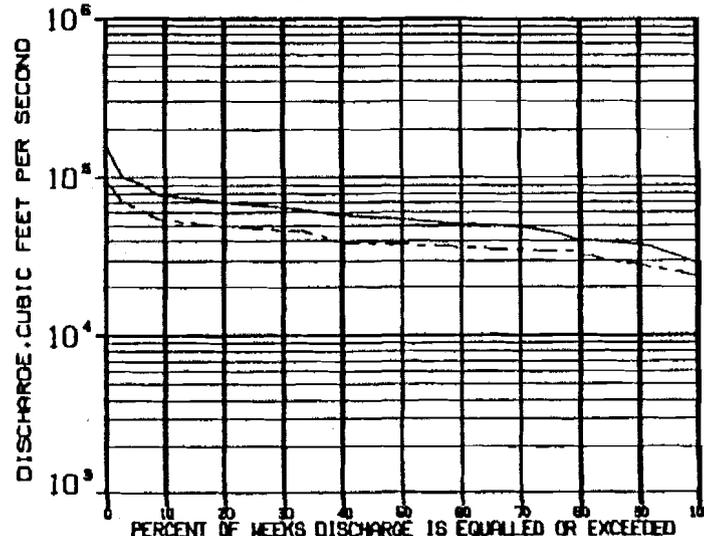
WEEK 33 (113 MAY-19 MAY)



WEEK 34 (120 MAY-26 MAY)



WEEK 35 (127 MAY- 2 JUN)



WEEK 36 ( 3 JUN- 9 JUN)

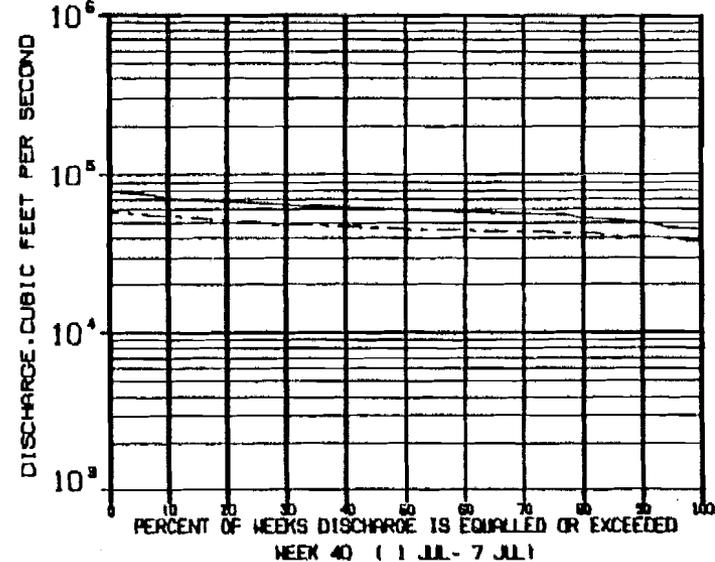
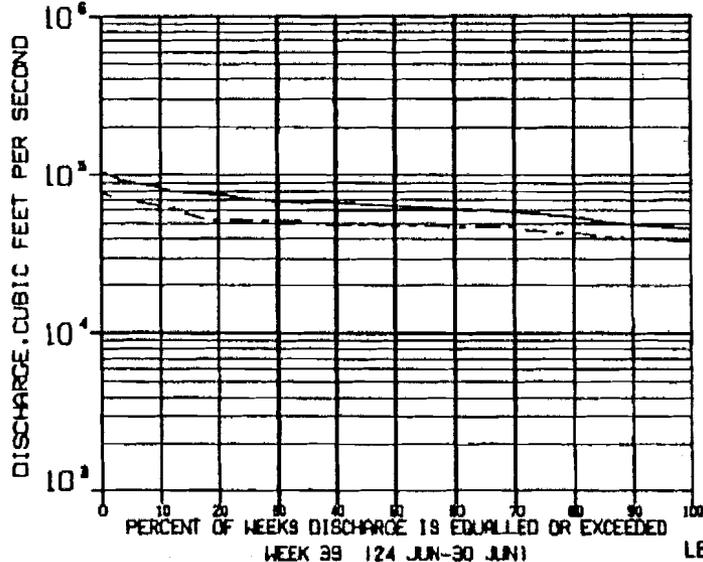
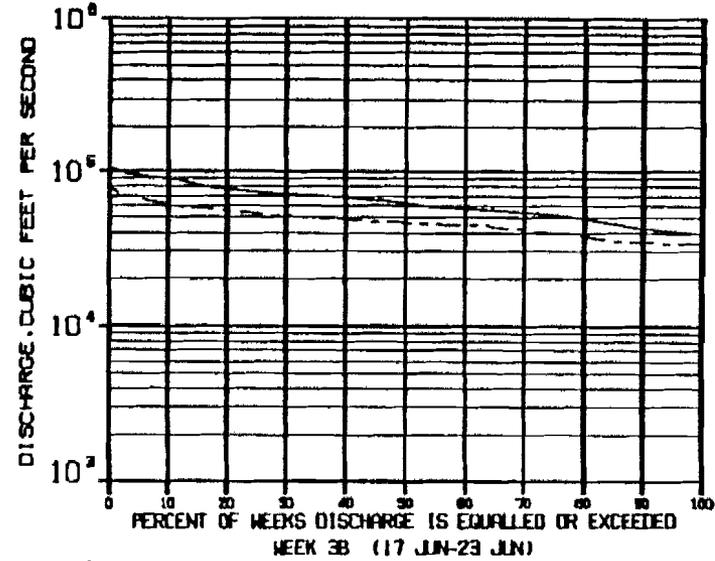
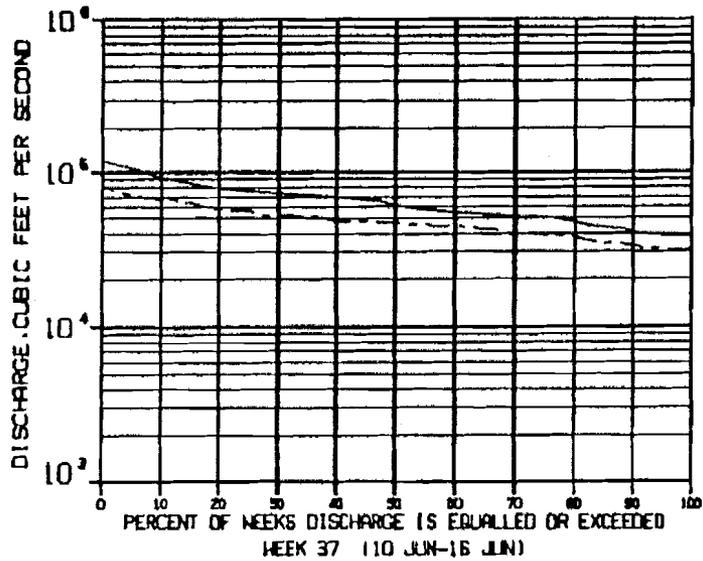
LEGEND

- NATURAL
  - - - - - WITH-PROJECT
- CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 2001  
(WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT SUNSHINE

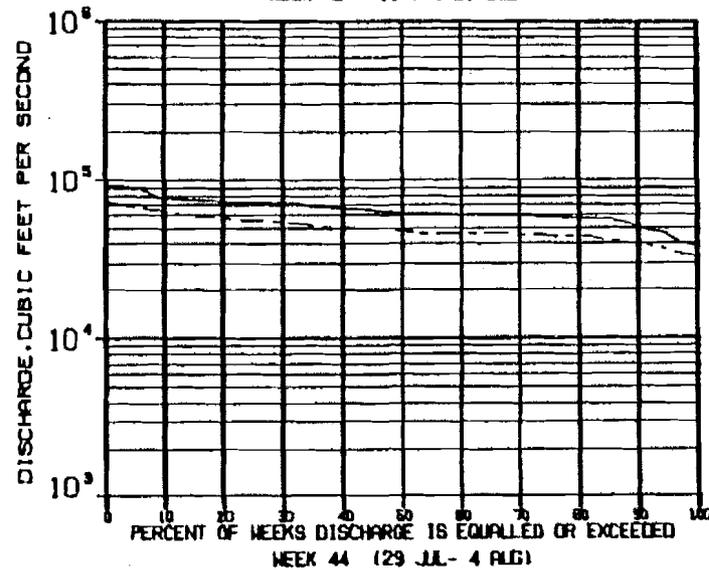
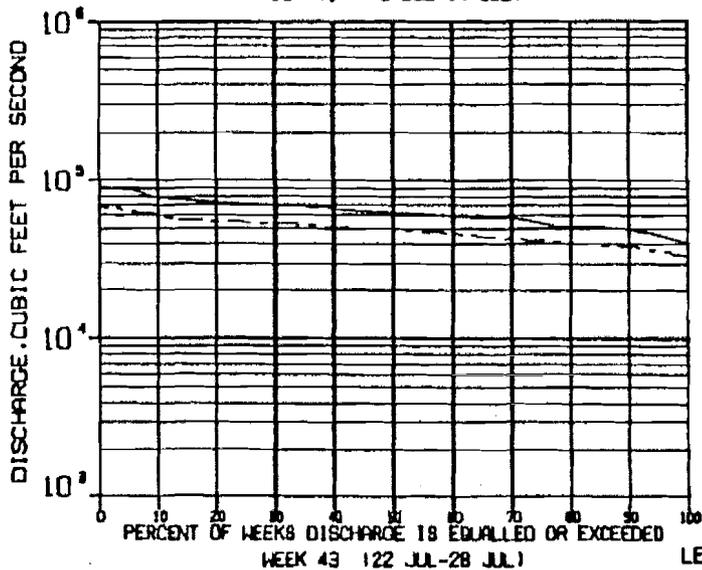
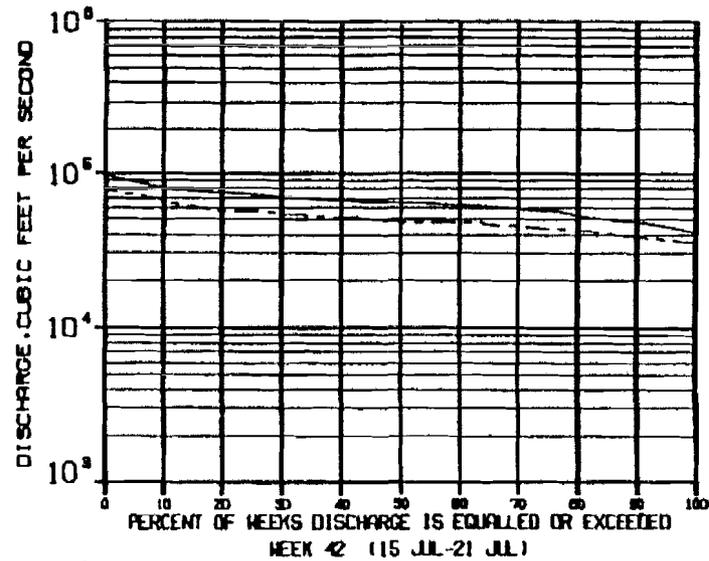
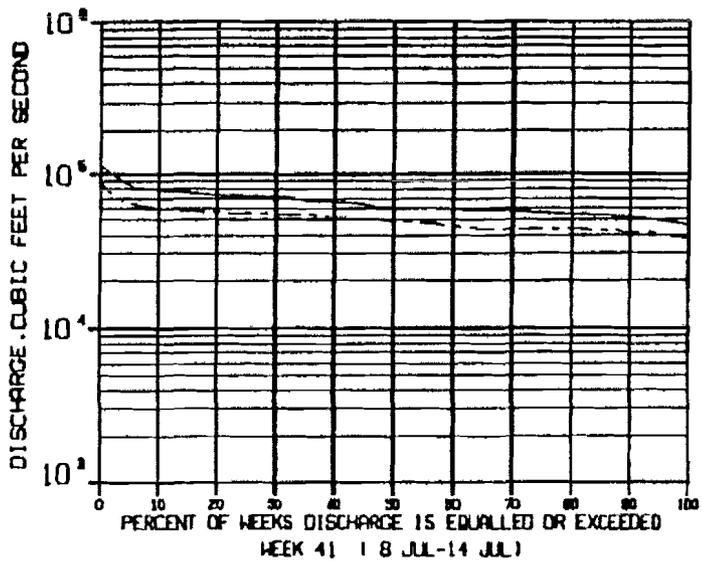


LEGEND

\_\_\_\_\_ NATURAL  
 - - - - - WITH-PROJECT,  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE



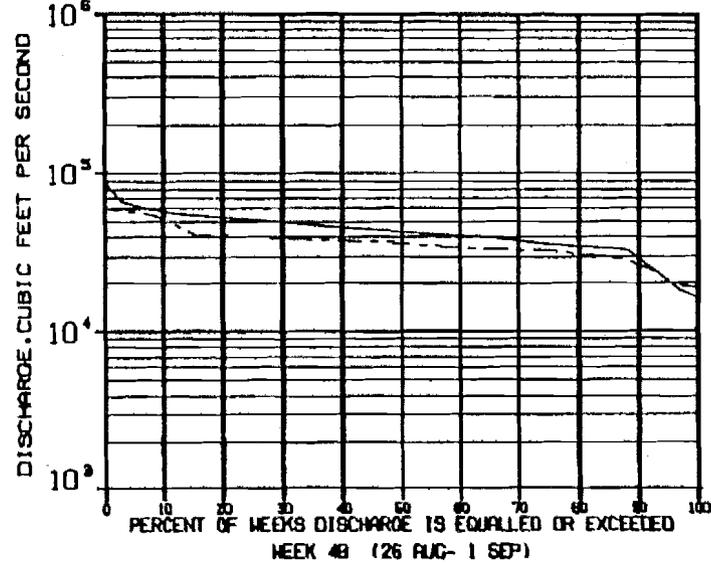
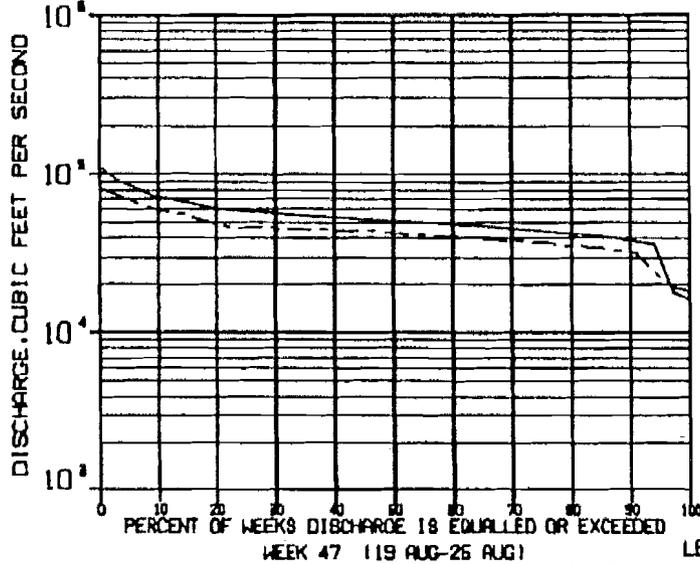
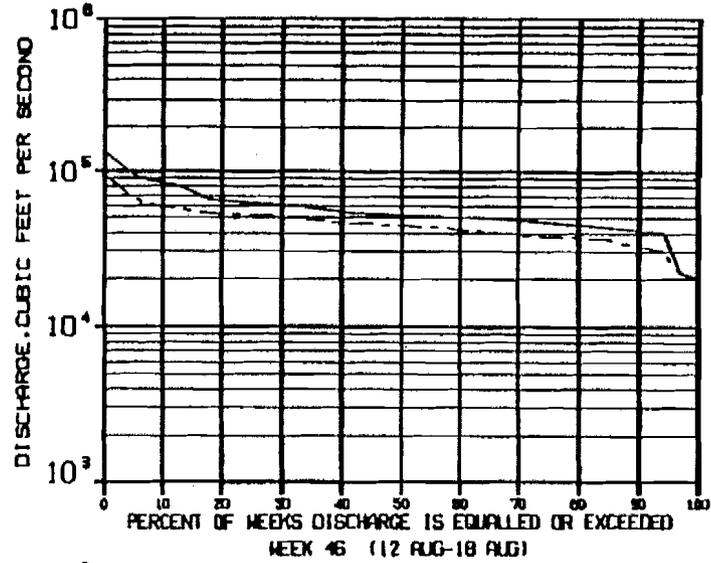
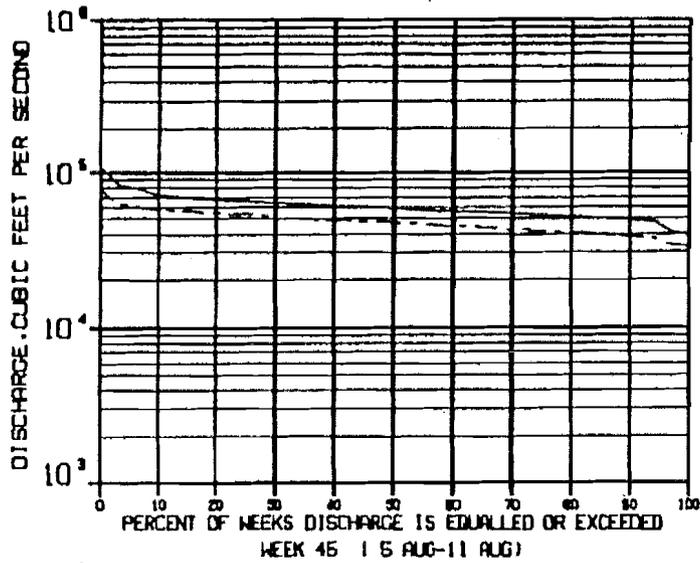
LEGEND

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 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (HATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983  
 HARZA-EBASCO BUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE

EXHIBIT 9  
 SHEET 11 OF 13



LEGEND

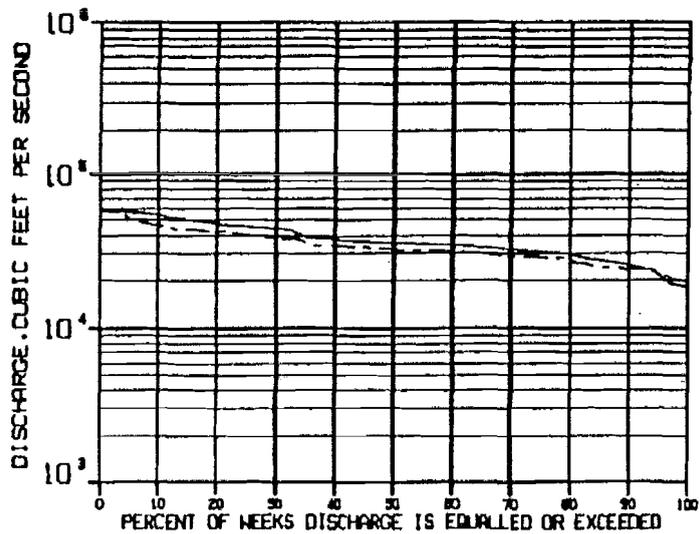
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 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

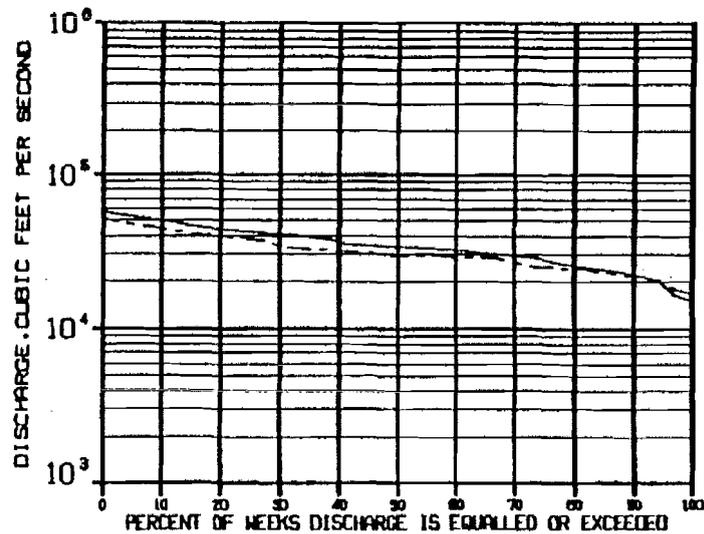
HARZA-EBASCO SUSITNA JOINT VENTURE JAN 85

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE

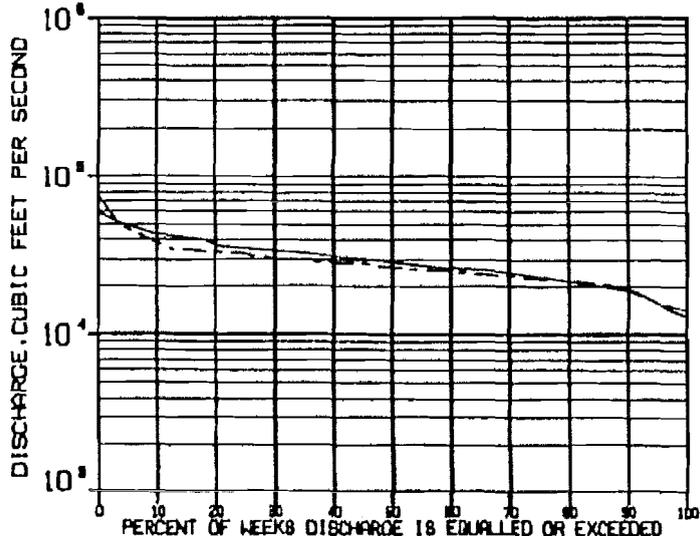
EXHIBIT 9  
 SHEET 12 OF 13



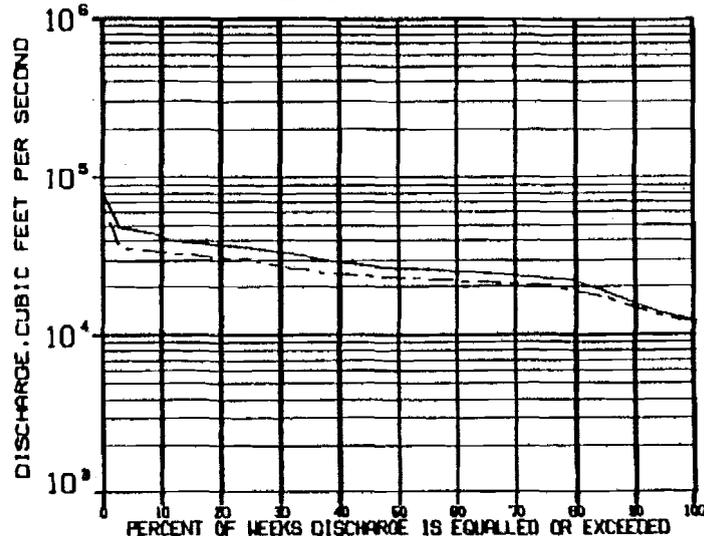
WEEK 49 ( 2 SEP - 8 SEP)



WEEK 50 ( 9 SEP - 15 SEP)



WEEK 51 ( 16 SEP - 22 SEP)



WEEK 52 ( 23 SEP - 30 SEP)

LEGEND

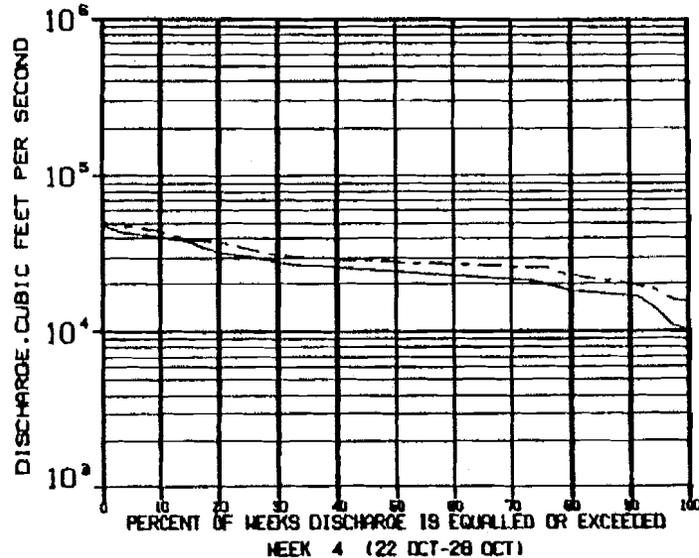
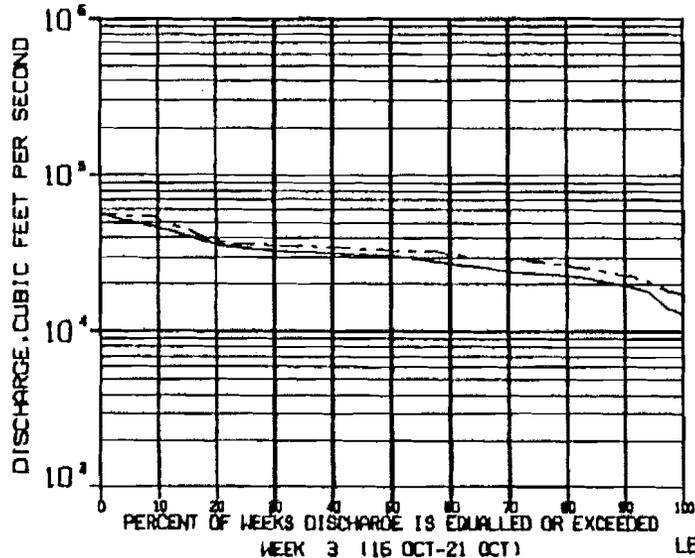
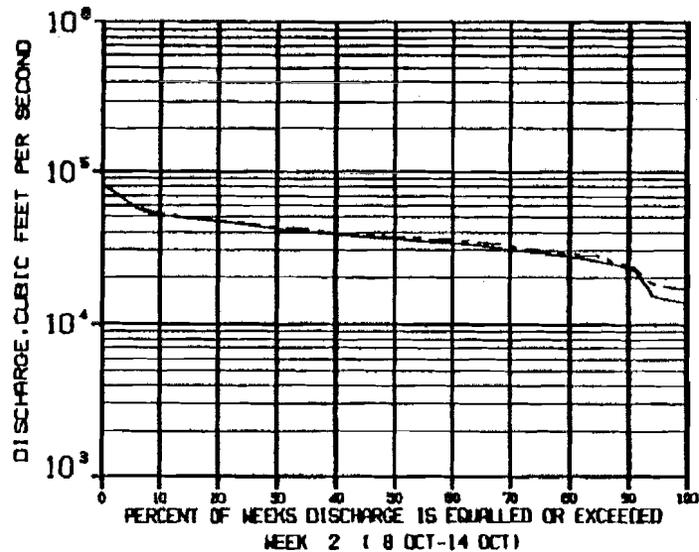
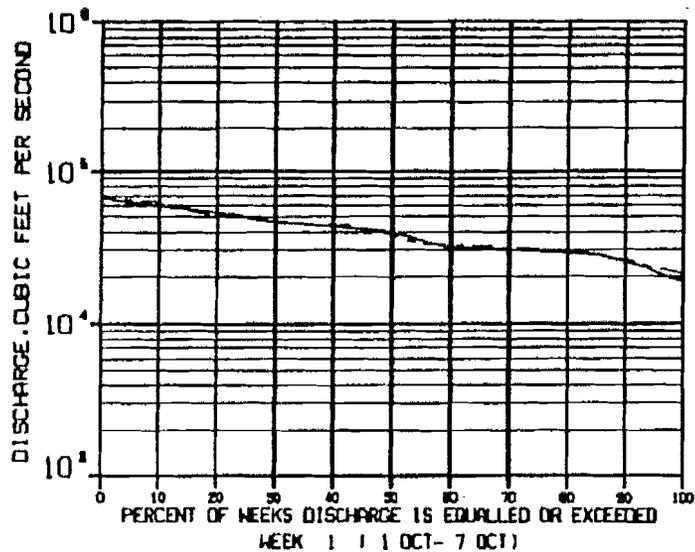
——— NATURAL  
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 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBASCO SUSITNA JOINT VENTURE JAN 86

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUNSHINE

**EXHIBIT 9**



LEGEND

———— NATURAL

----- WITH-PROJECT

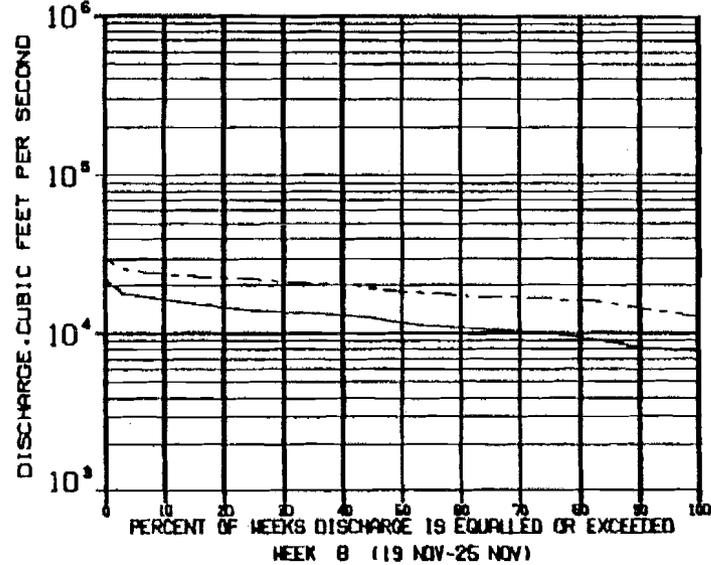
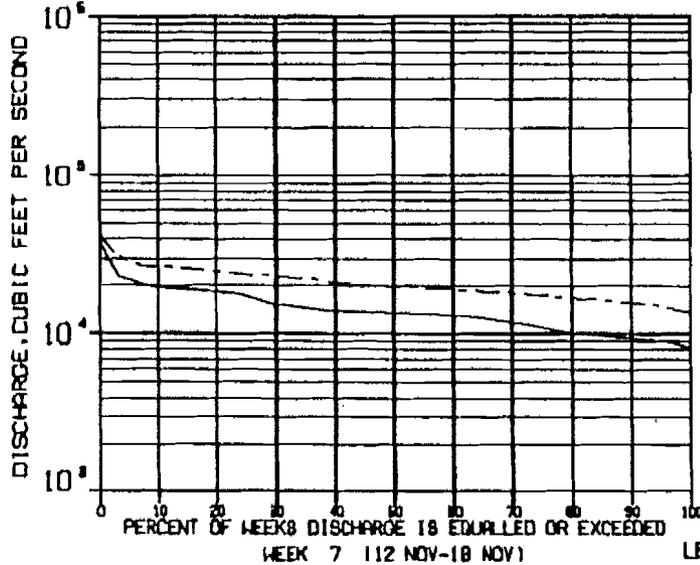
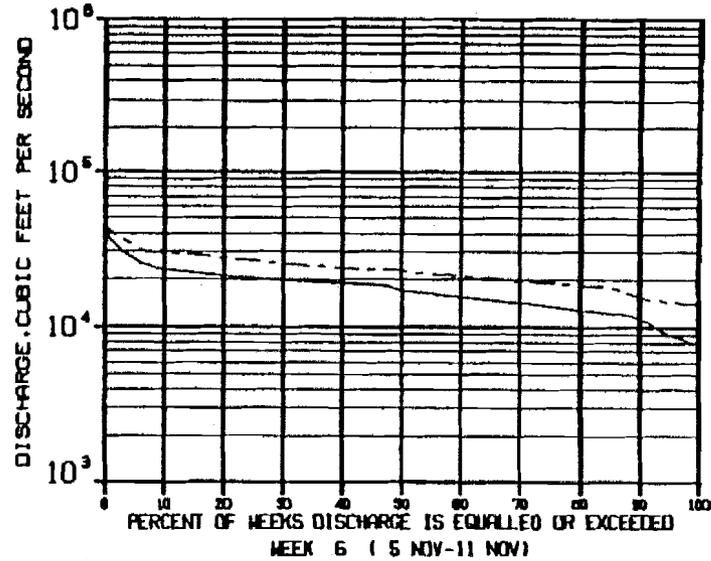
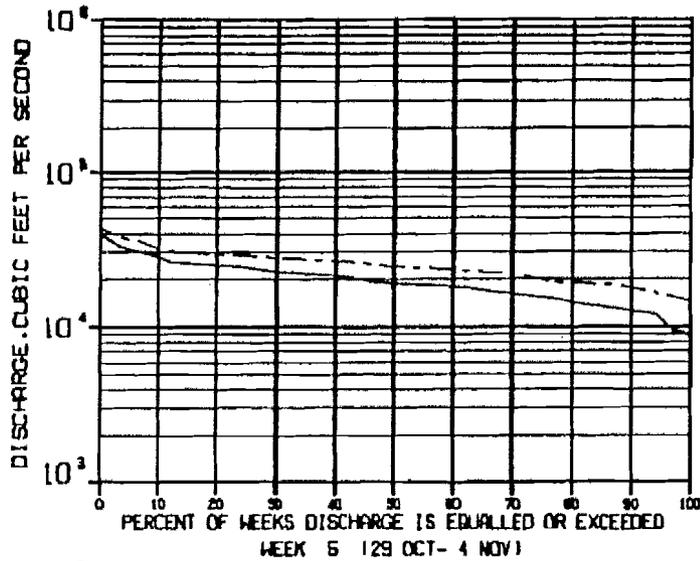
CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 2001  
(NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT SUSITNA STATION

EXHIBIT 9  
SHEET 1 OF 13



LEGEND

———— NATURAL

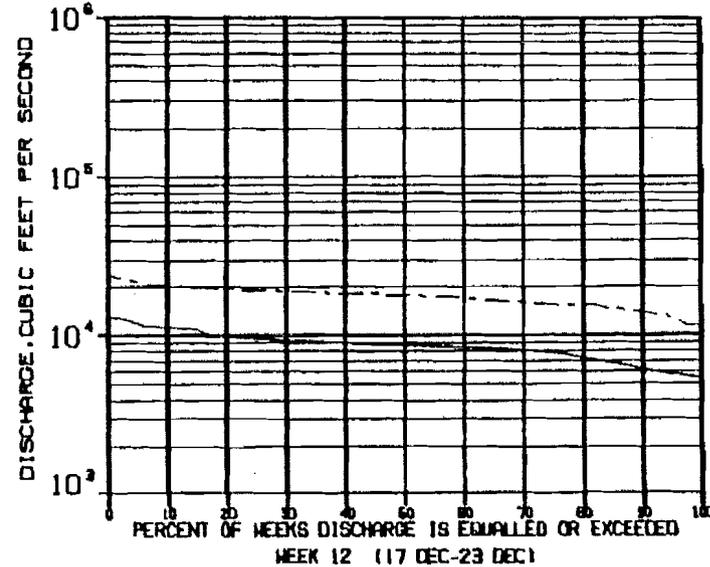
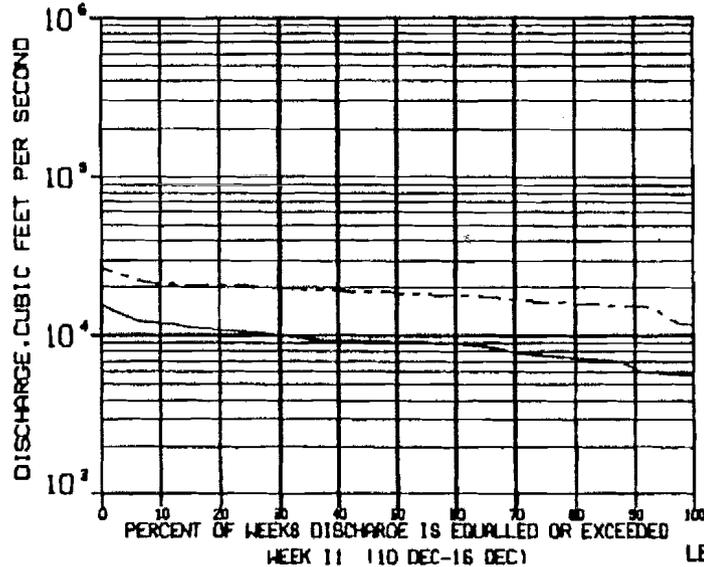
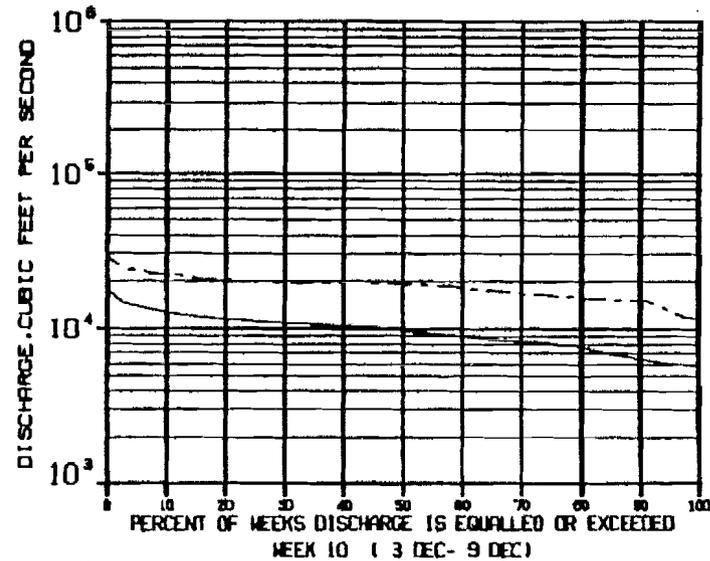
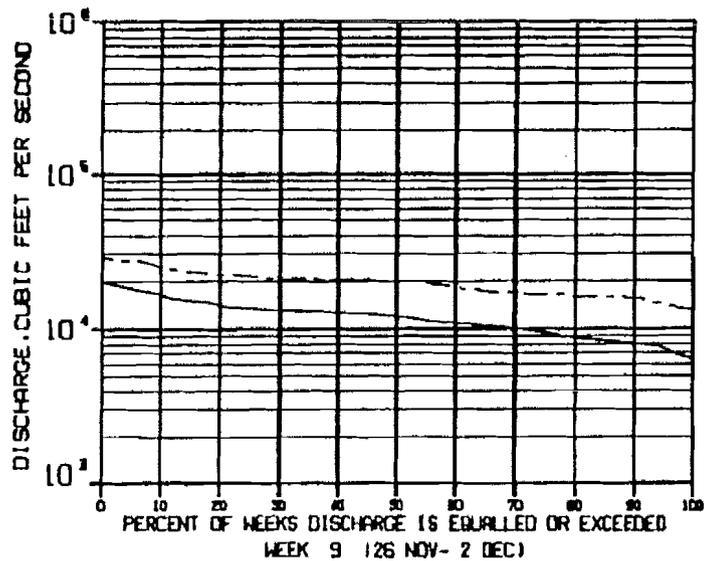
----- WITH PROJECT

CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 2001  
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NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
SUSITNA RIVER AT SUSITNA STATION



LEGEND

———— NATURAL

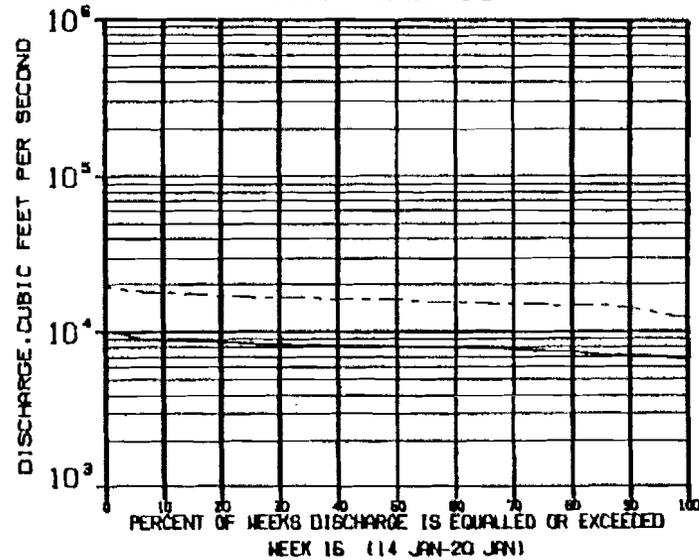
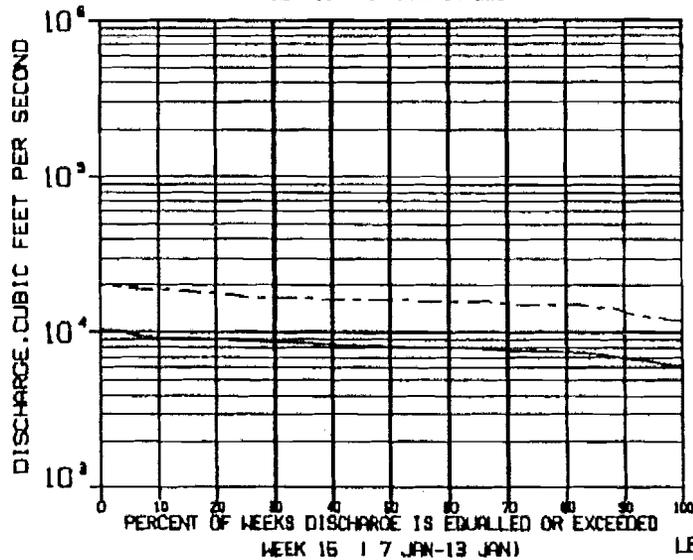
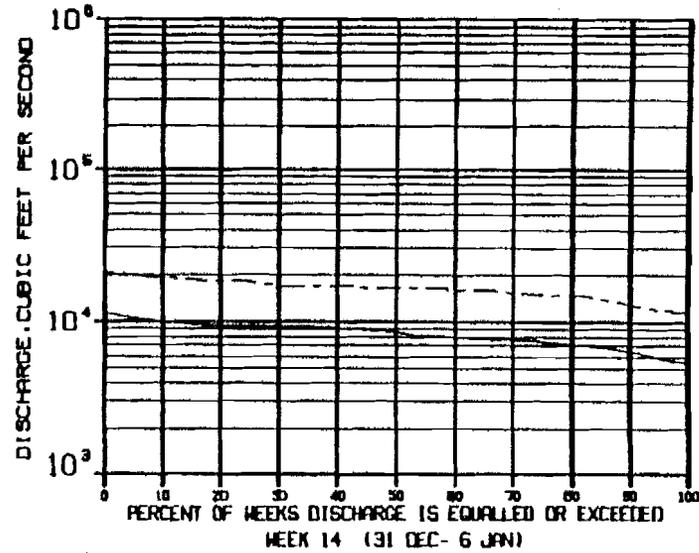
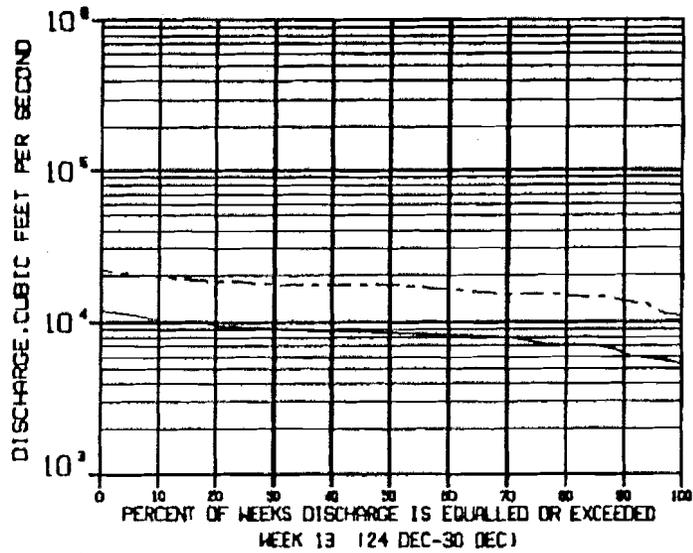
- - - - - WITH-PROJECT

CASE E-VI TARGET FLOWS  
FOR LOAD CONDITIONS 2001  
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NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
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SUSITNA RIVER AT SUSITNA STATION



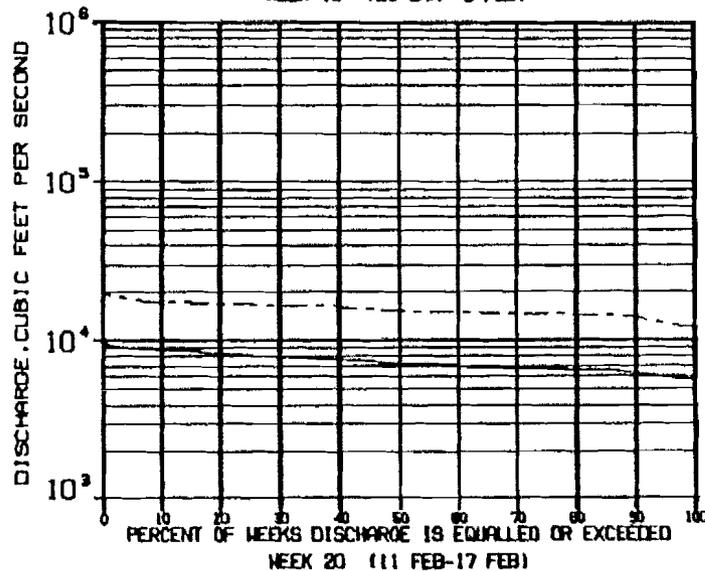
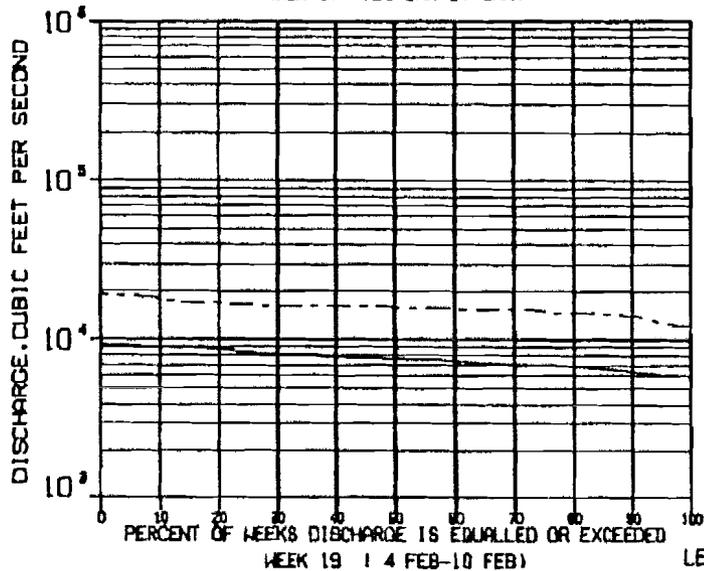
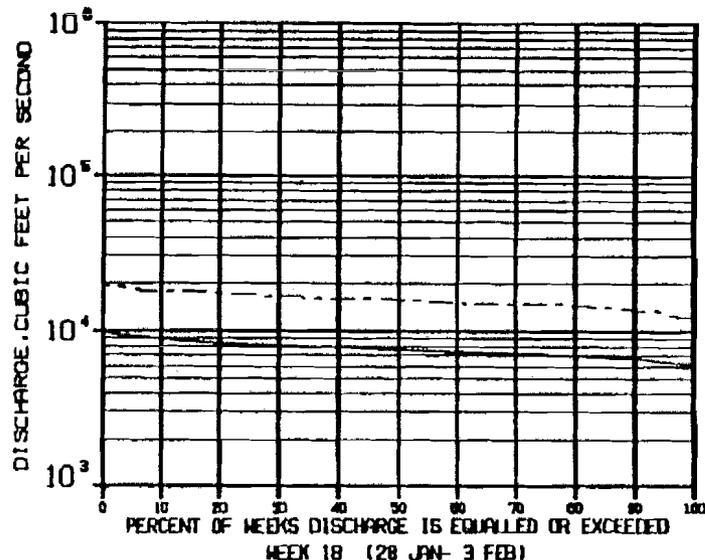
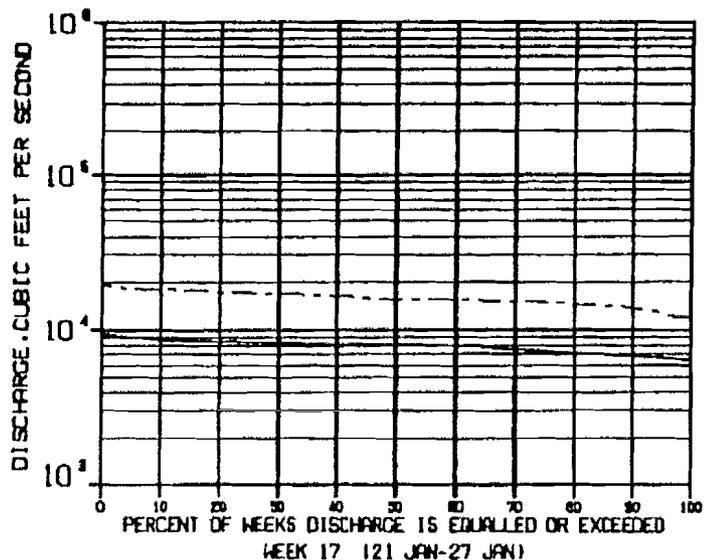
LEGEND

——— NATURAL  
 - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

MARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION



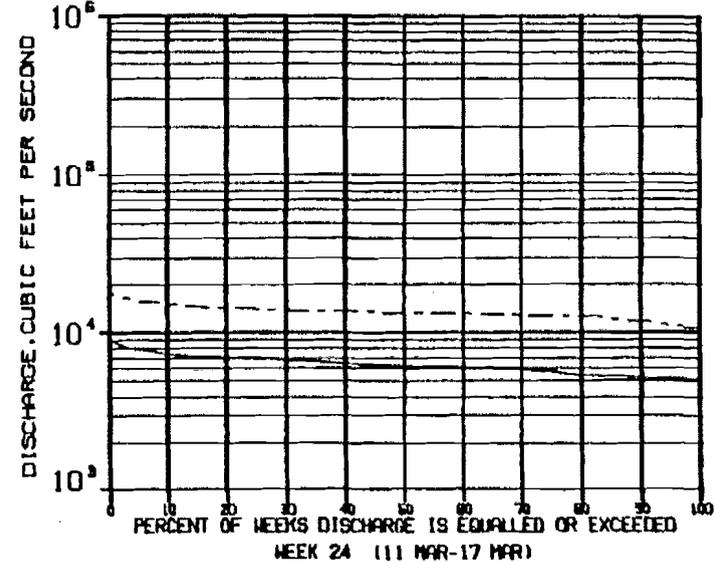
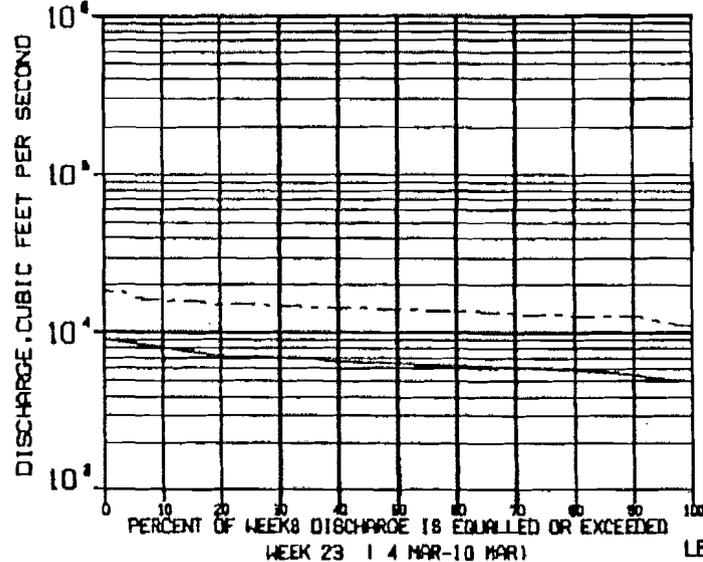
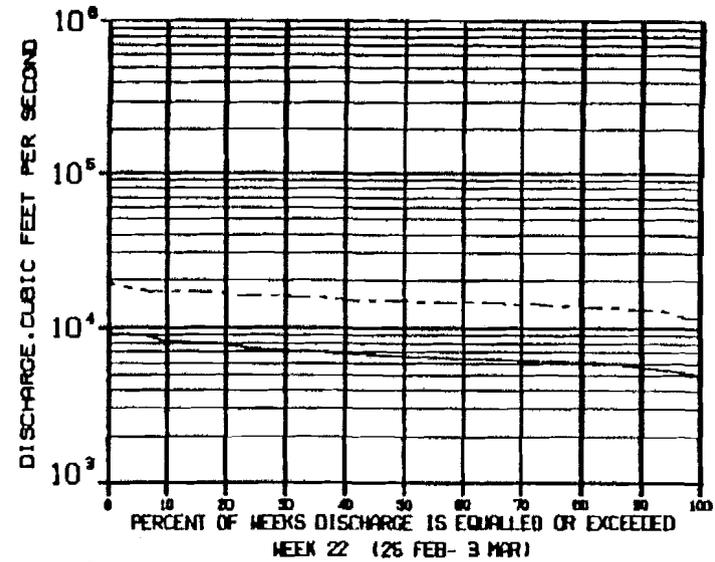
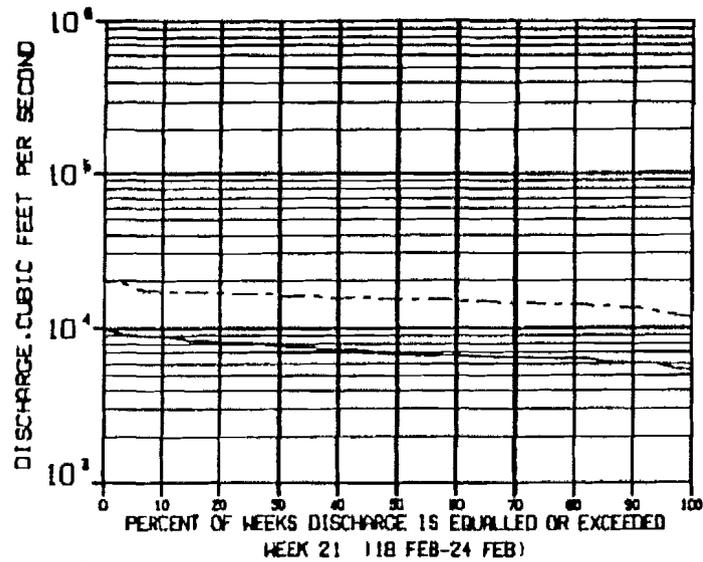
LEGEND

———— NATURAL  
 - - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION

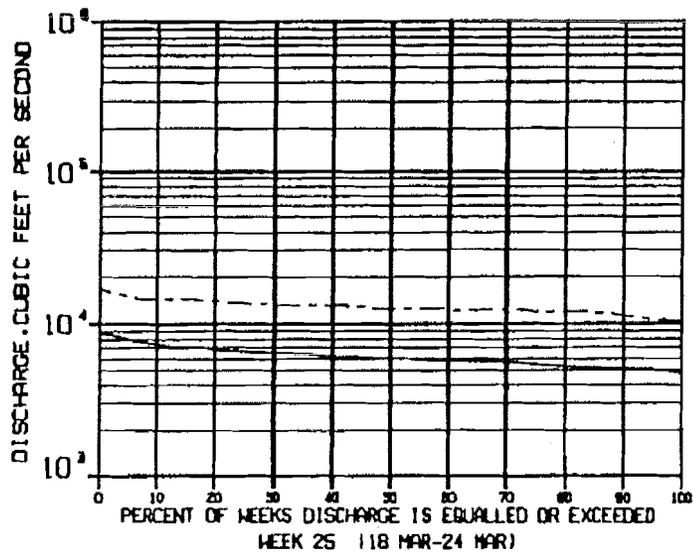


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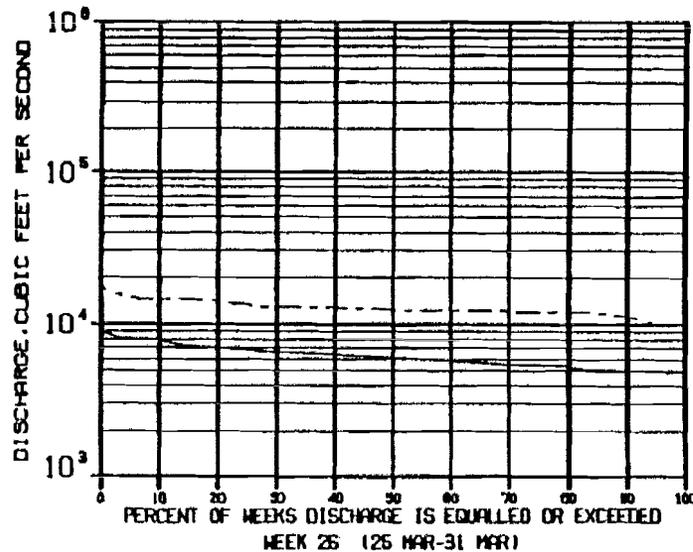
—— NATURAL  
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 (WATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1951-1963  
 HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

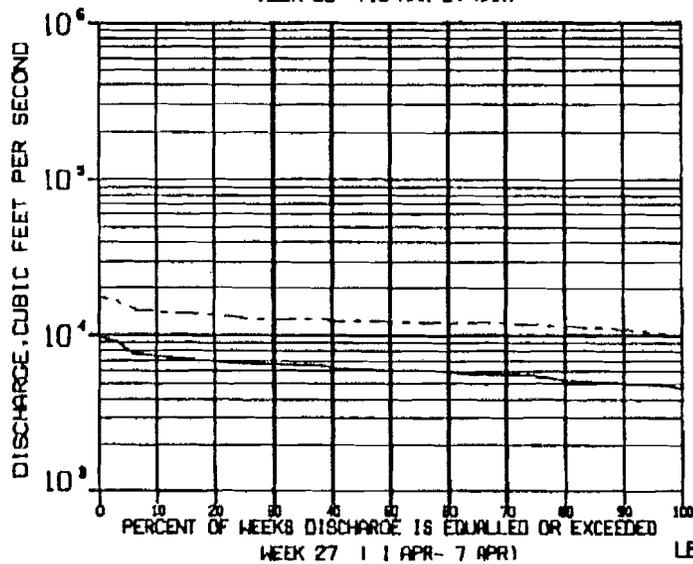
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION



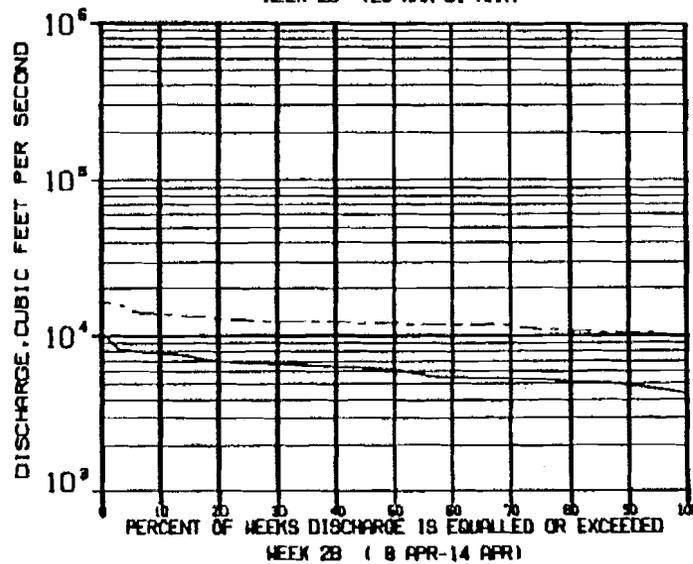
WEEK 25 (118 MAR-24 MAR)



WEEK 26 (126 MAR-31 MAR)



WEEK 27 (1 APR-7 APR)



WEEK 28 (8 APR-14 APR)

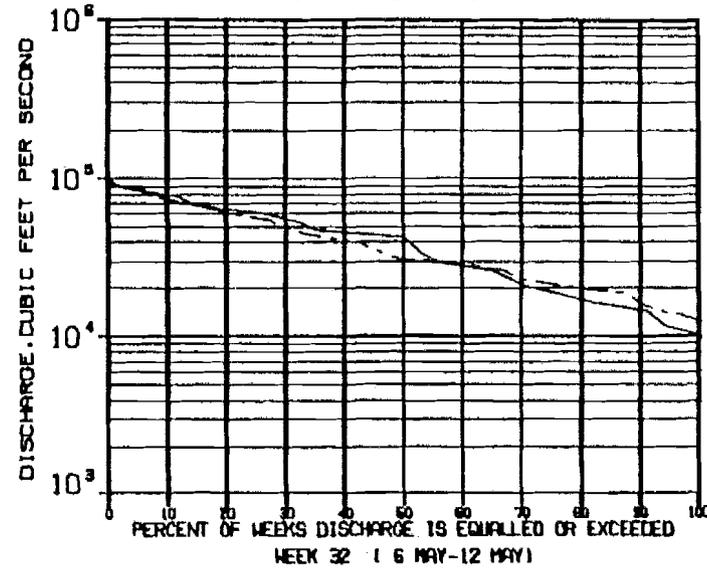
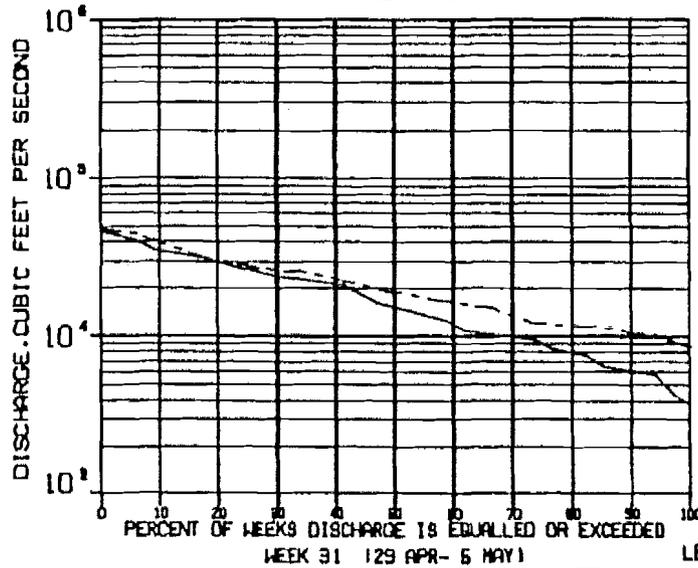
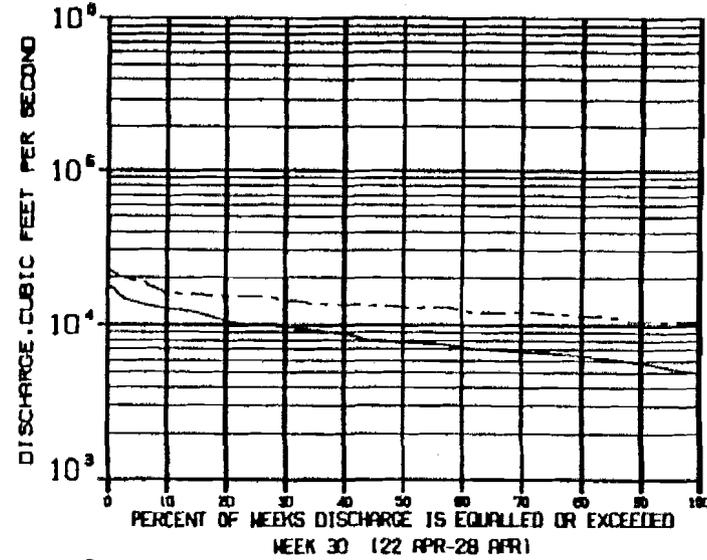
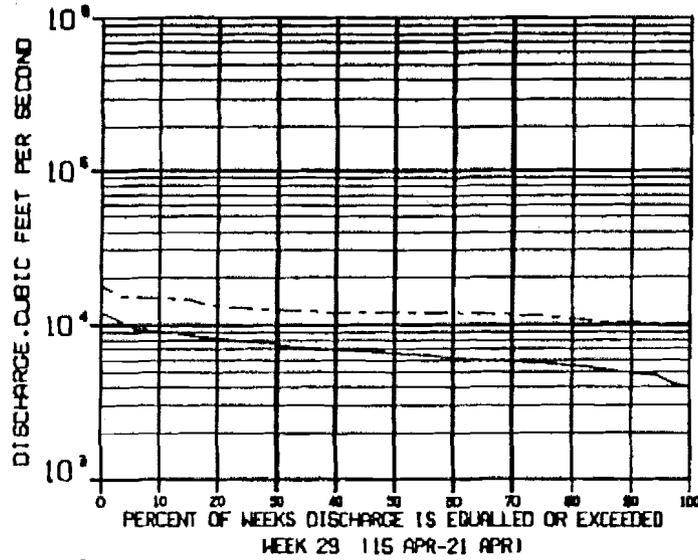
LEGEND

——— NATURAL  
 - - - WITH-PROJECT;  
 CASE E-VI TARGET FLOWS  
 FOR LOAD CONDITIONS 2001  
 (NATANA ONLY)

NOTE: FLOW PERIOD WATER YEAR 1961-1963

HARZA-EBABCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
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 SUSITNA RIVER AT SUSITNA STATION



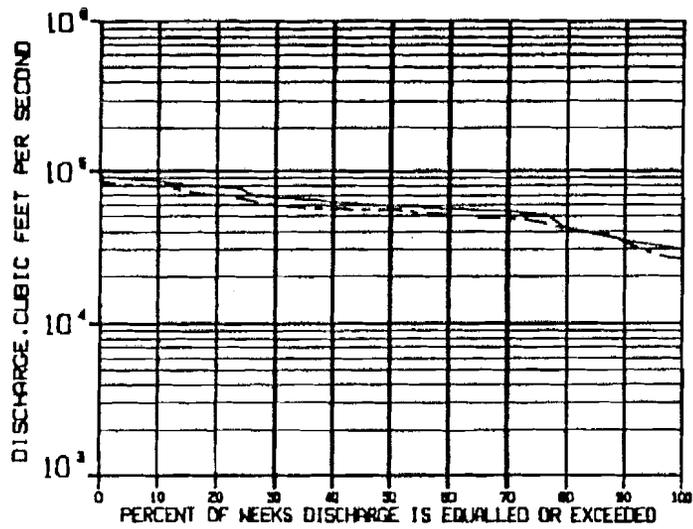
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 - - - WITH-PROJECT  
 CASE E-VI TARGET FLOWS  
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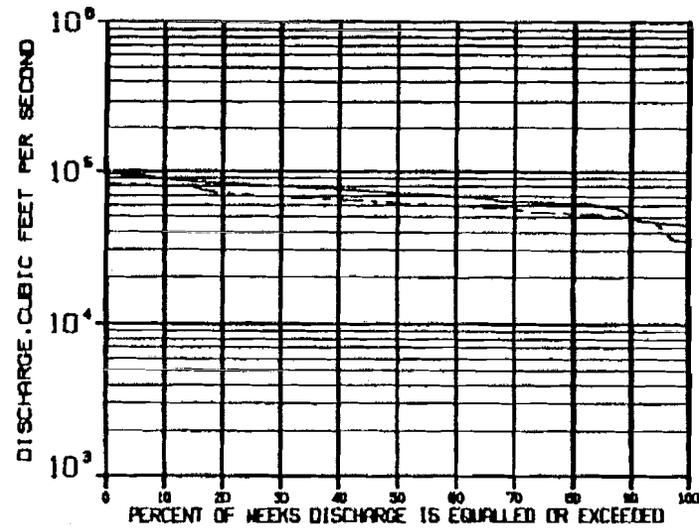
NOTE: FLOW PERIOD WATER YEAR 1951-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

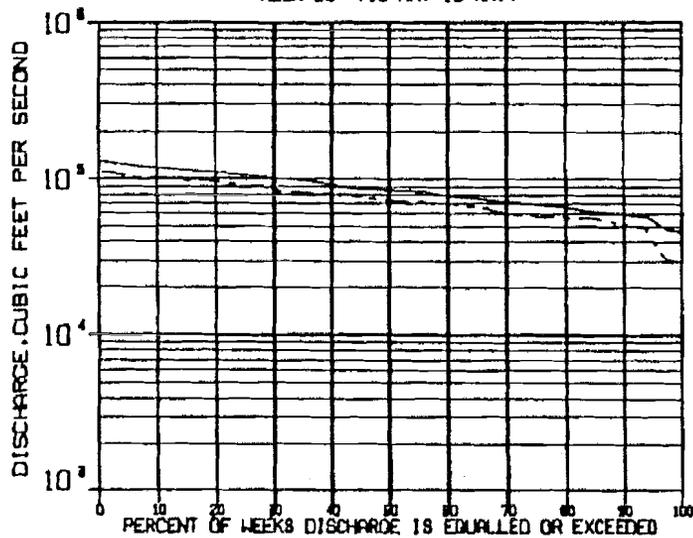
FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION



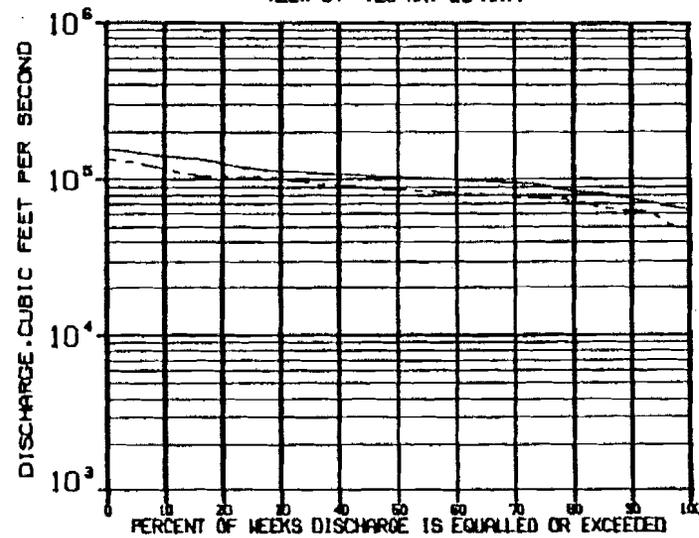
WEEK 33 (113 MAY - 19 MAY)



WEEK 34 (120 MAY - 26 MAY)



WEEK 35 (127 MAY - 2 JUN)



WEEK 36 (3 JUN - 9 JUN)

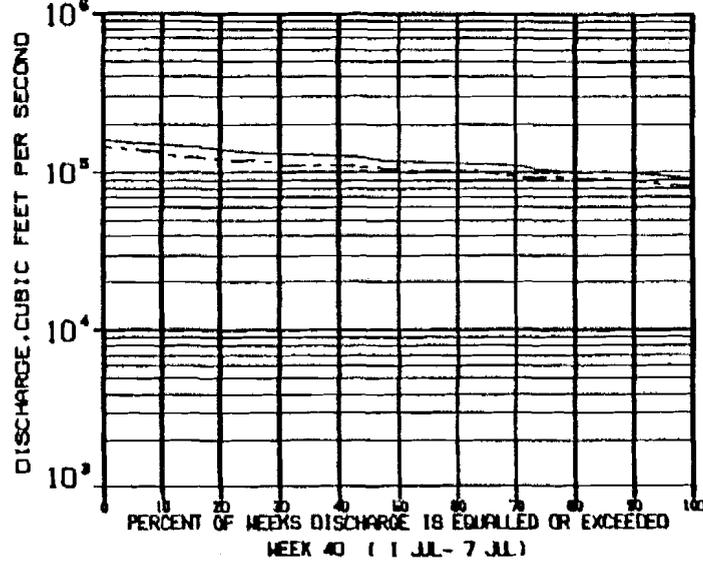
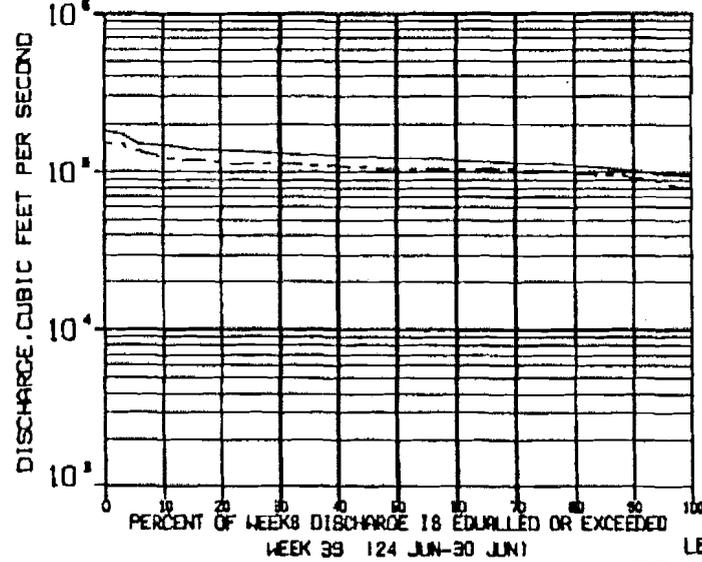
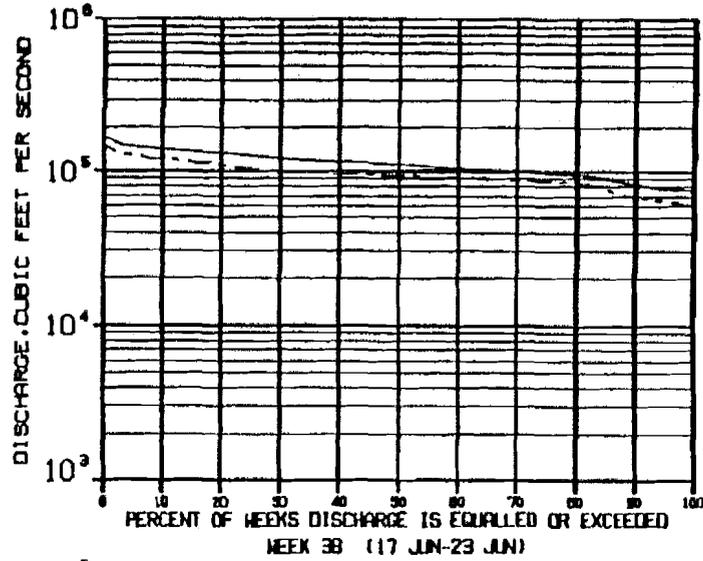
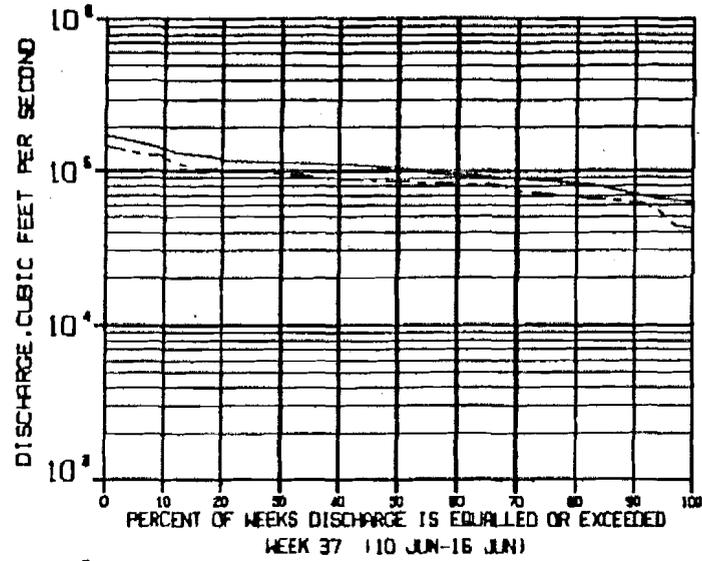
LEGEND

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 - - - WITH-PROJECT;  
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NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
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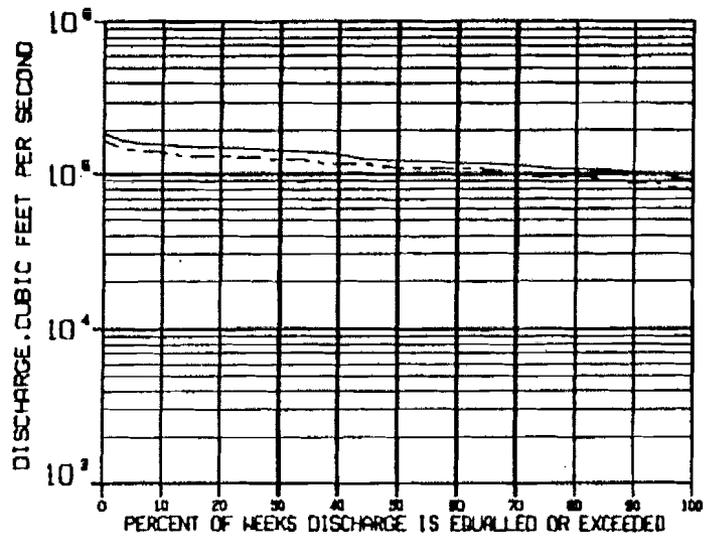
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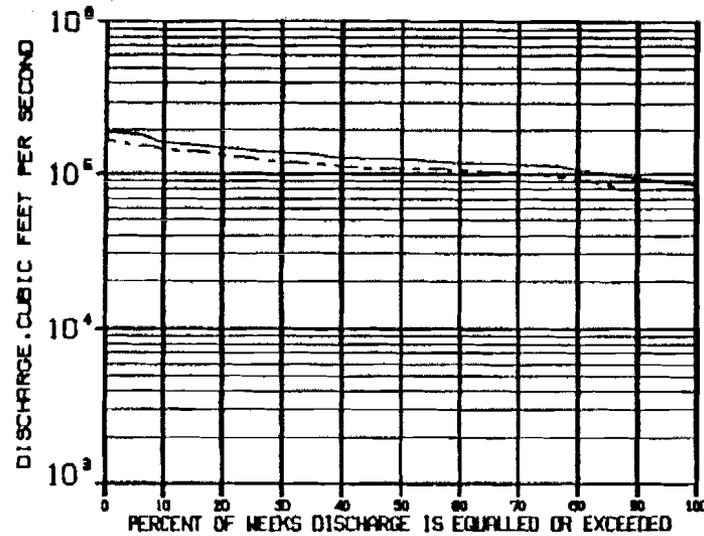
NOTE: FLOW PERIOD WATER YEAR 1961-1983  
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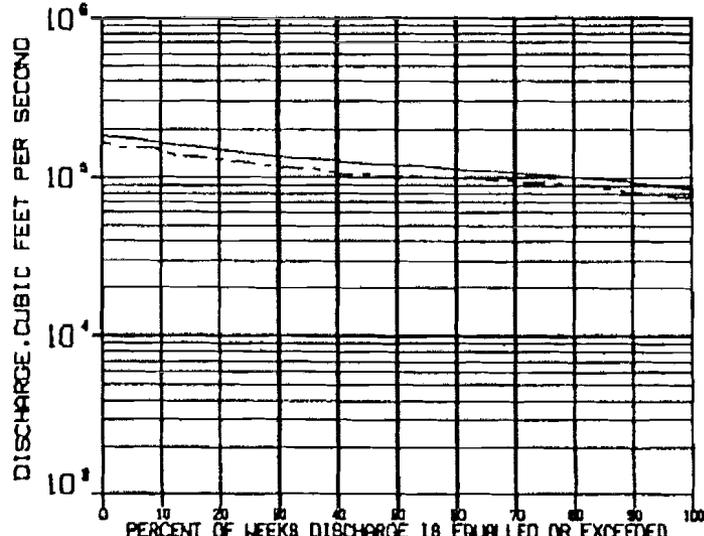
EXHIBIT 9  
 SHEET 10 OF 13



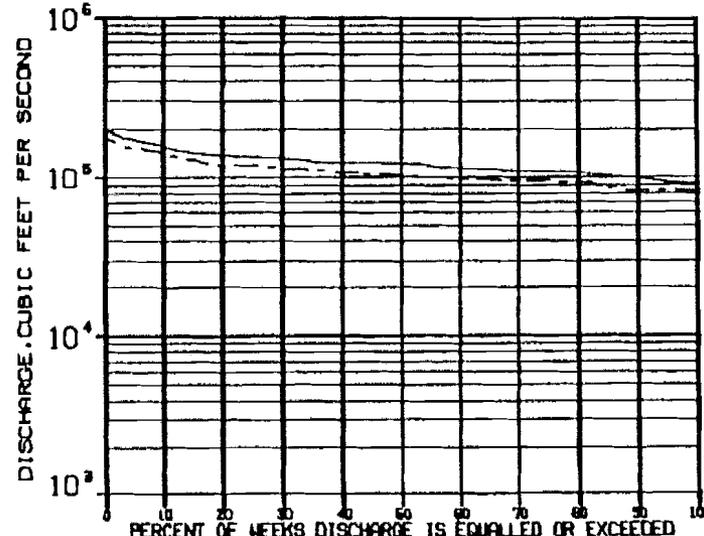
WEEK 41 (18 JUL-14 JUL)



WEEK 42 (15 JUL-21 JUL)



WEEK 43 (12 JUL-28 JUL)



WEEK 44 (29 JUL-4 AUG)

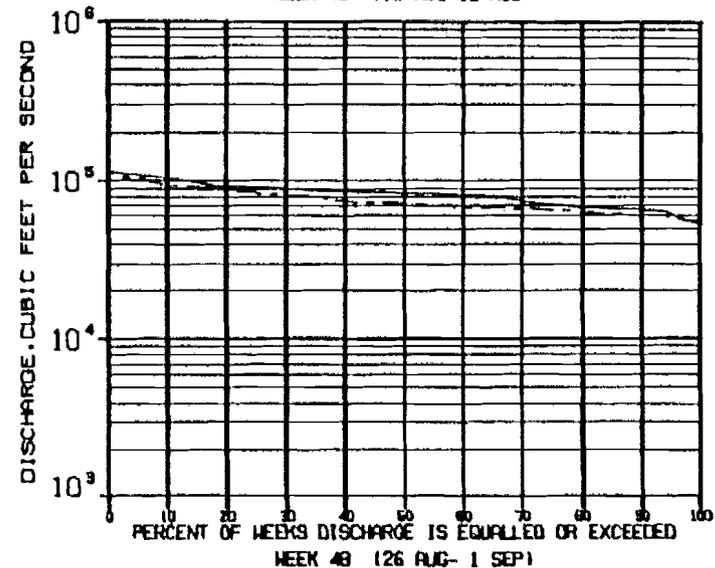
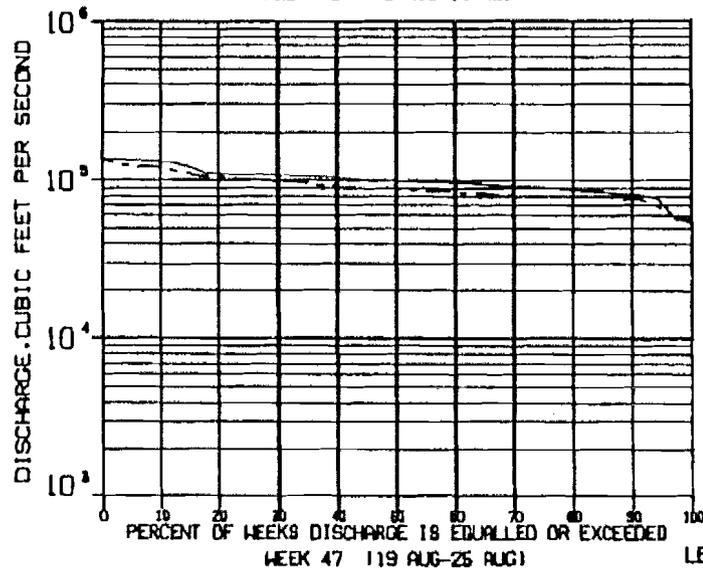
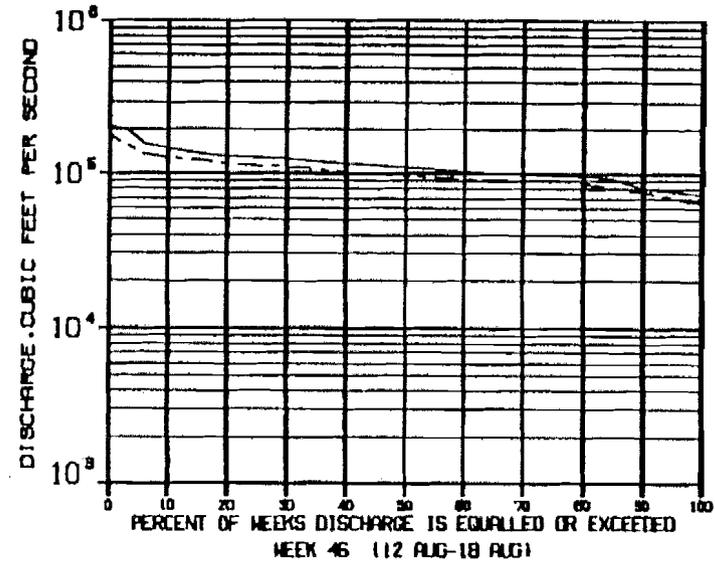
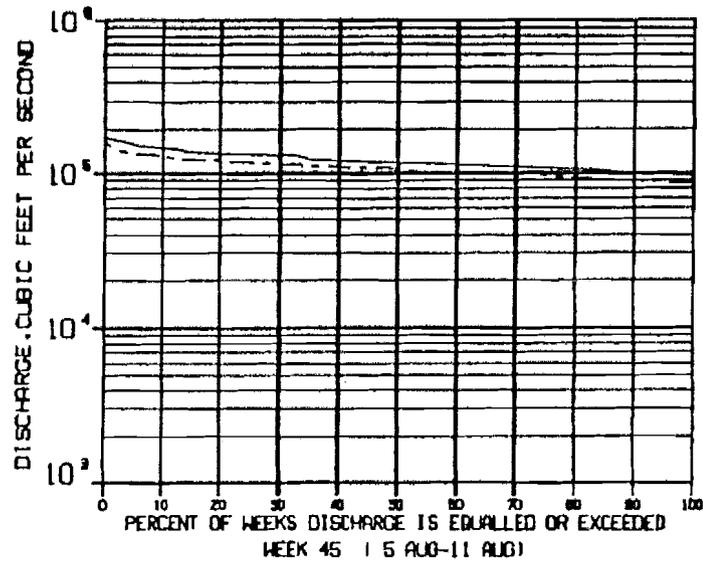
LEGEND

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NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
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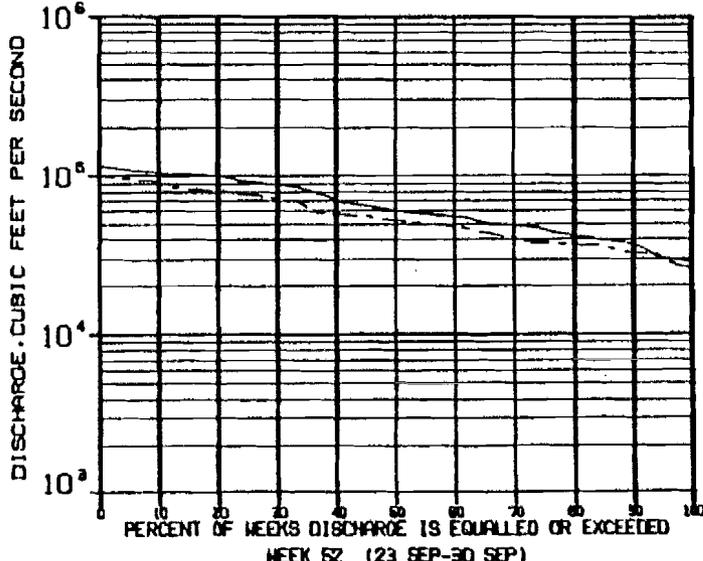
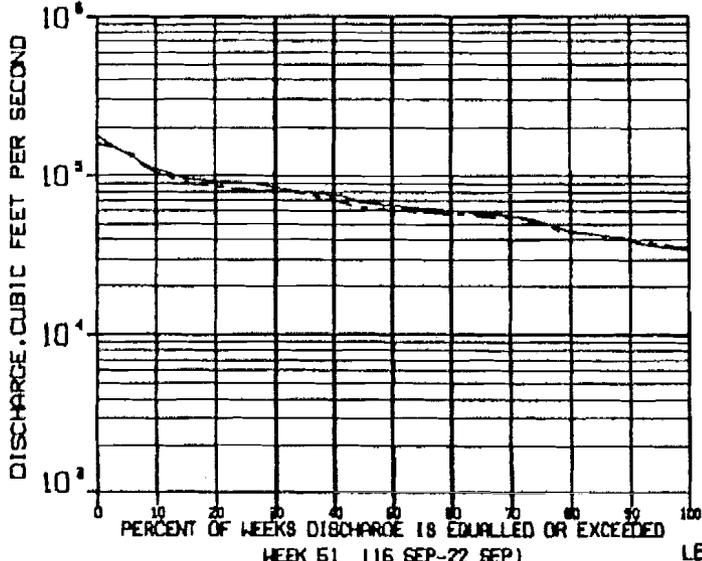
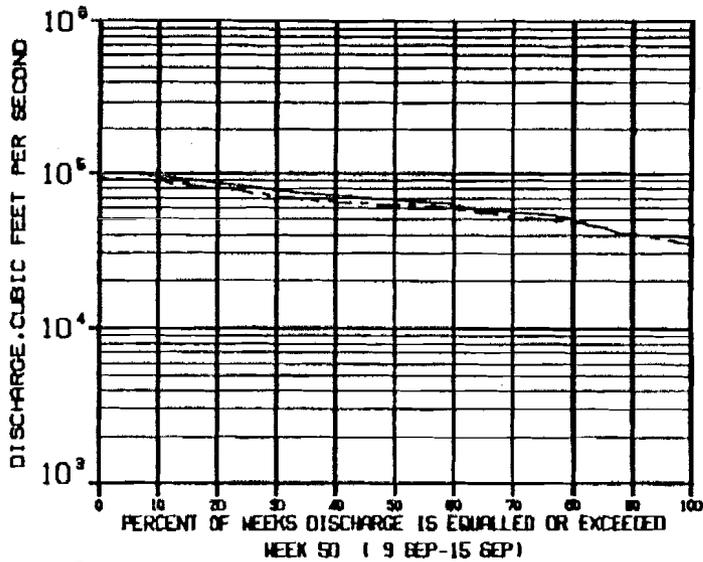
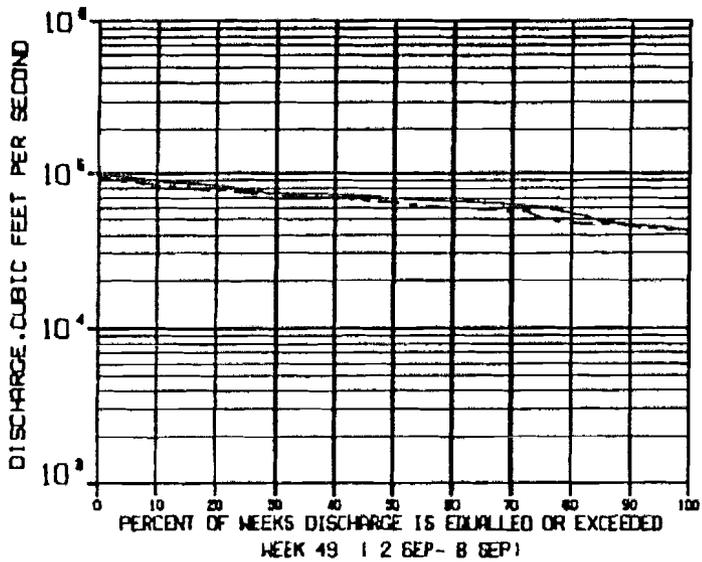
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—— NATURAL  
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HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

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LEGEND

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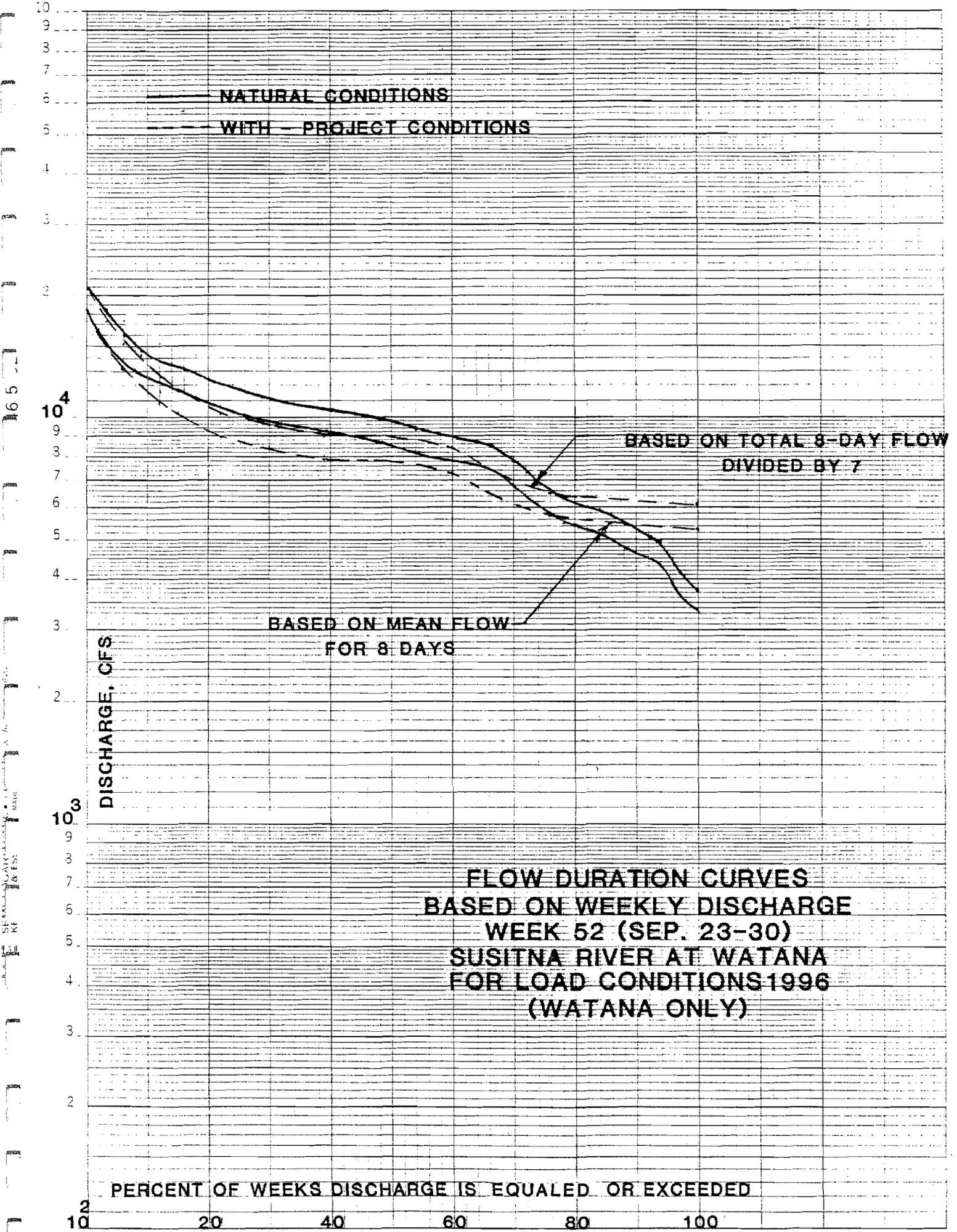
NOTE: FLOW PERIOD WATER YEAR 1961-1983

HARZA-EBASCO SUSITNA JOINT VENTURE JUNE 84

FLOW DURATION CURVES  
 BASED ON WEEKLY DISCHARGE  
 SUSITNA RIVER AT SUSITNA STATION

EXHIBIT 9  
 SHEET 13 OF 13

**EXHIBIT 10**



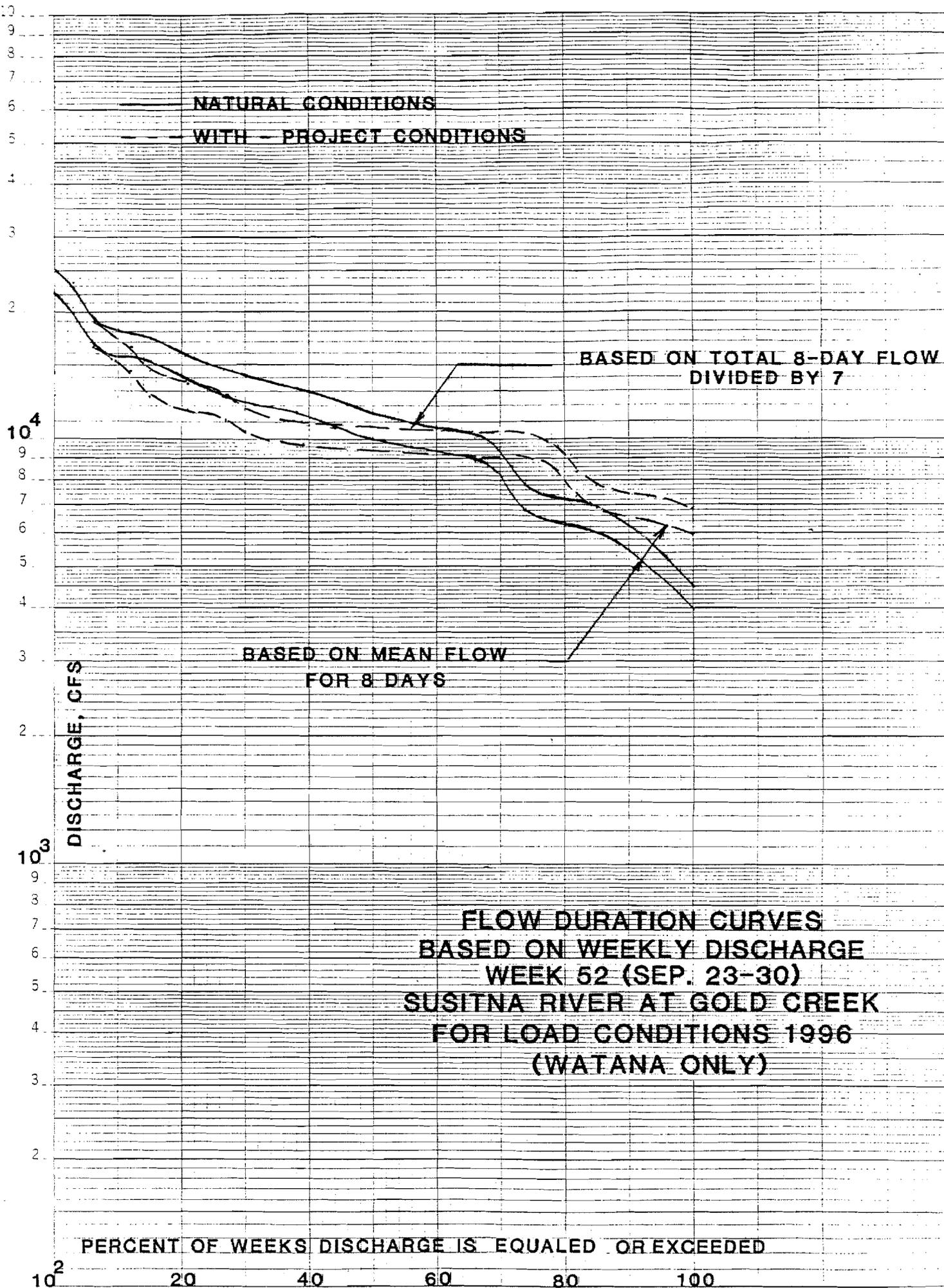
165

STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
SUSITNA RIVER

**EXHIBIT 11**

54

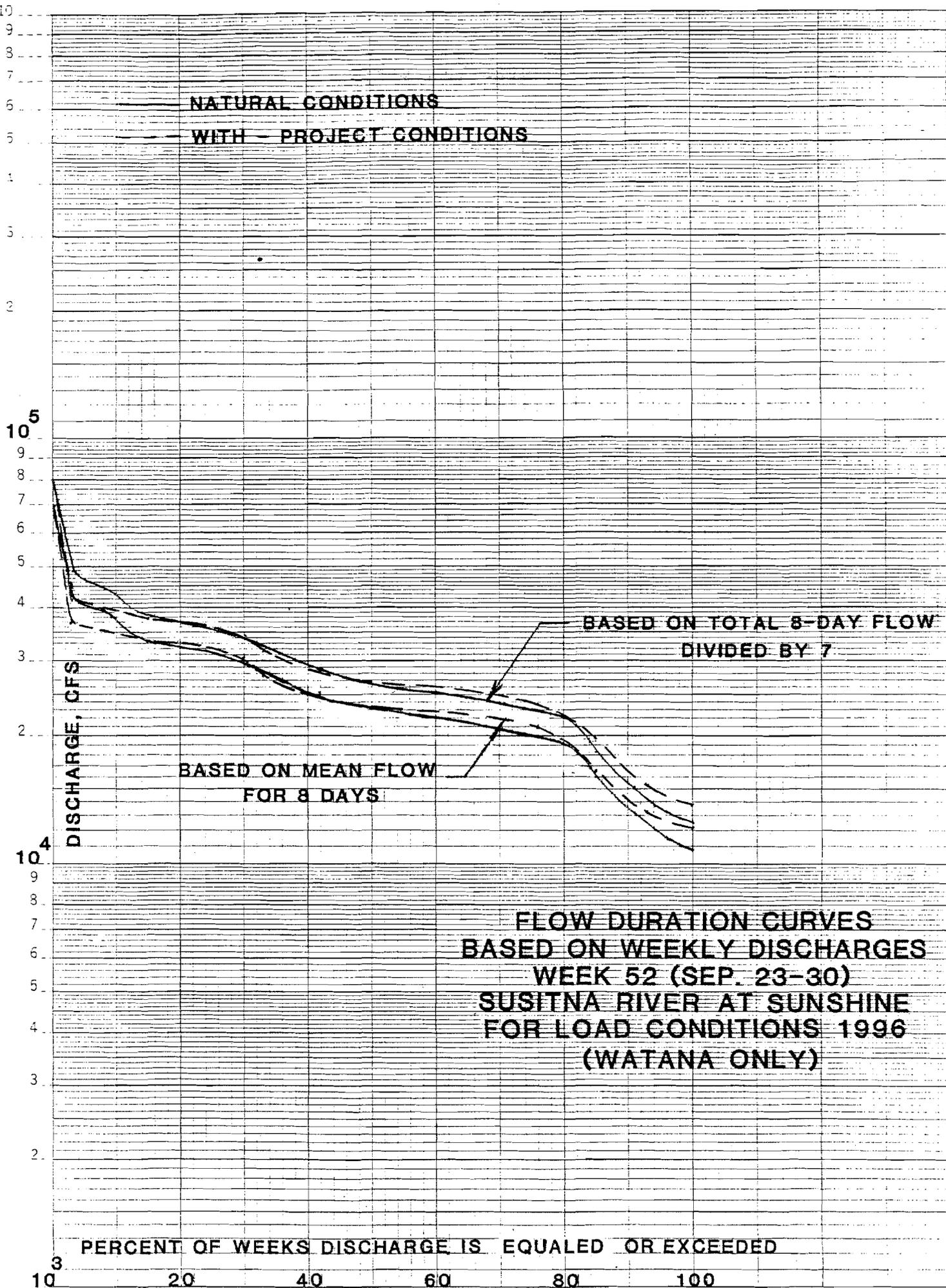
SEMI-LOG GRAPHIC SCALE  
KUD  
LESS



**EXHIBIT 12**

6 54

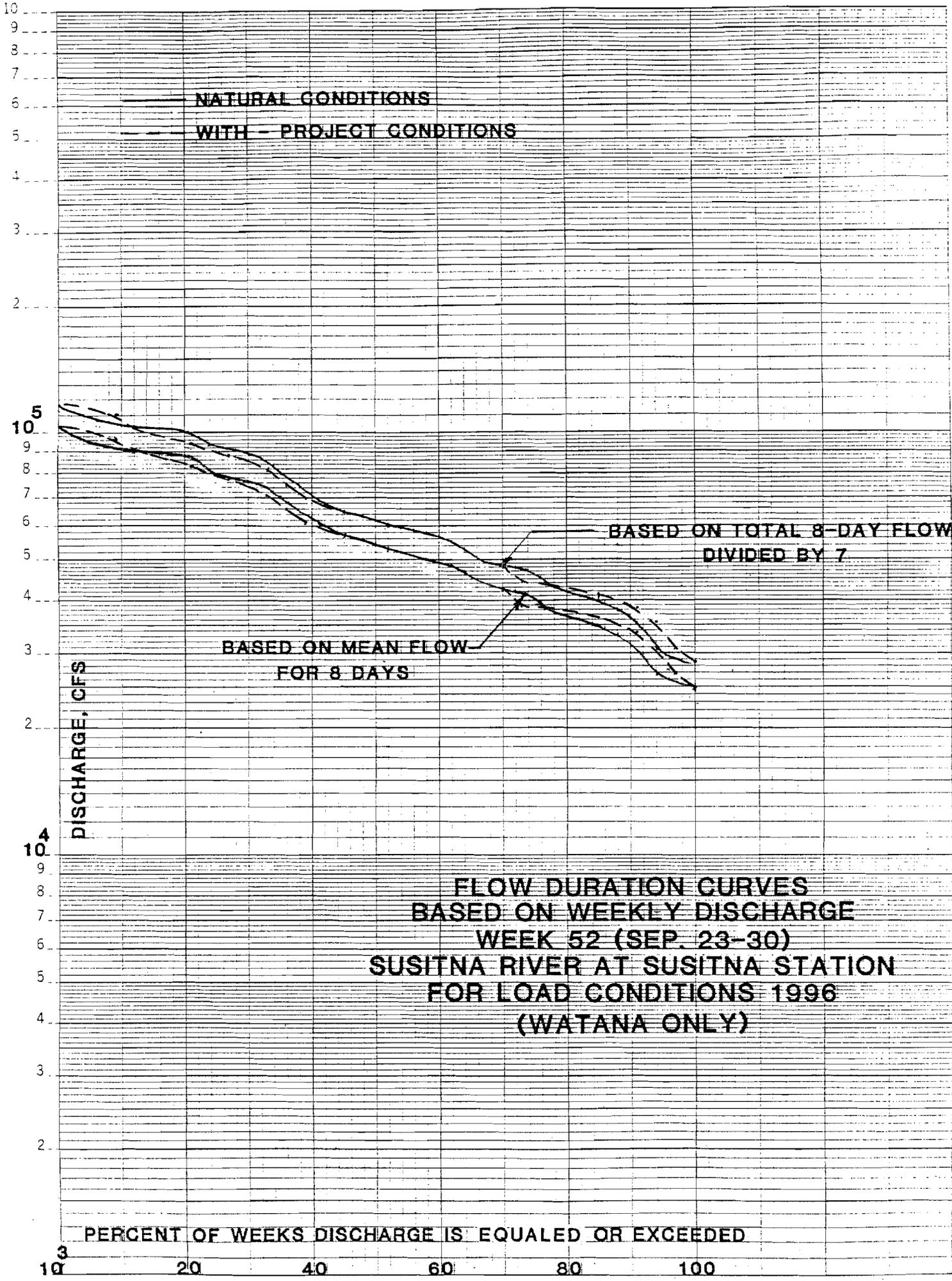
SEMI-COARDED PAPER  
30 DIVISIONS  
ESSE



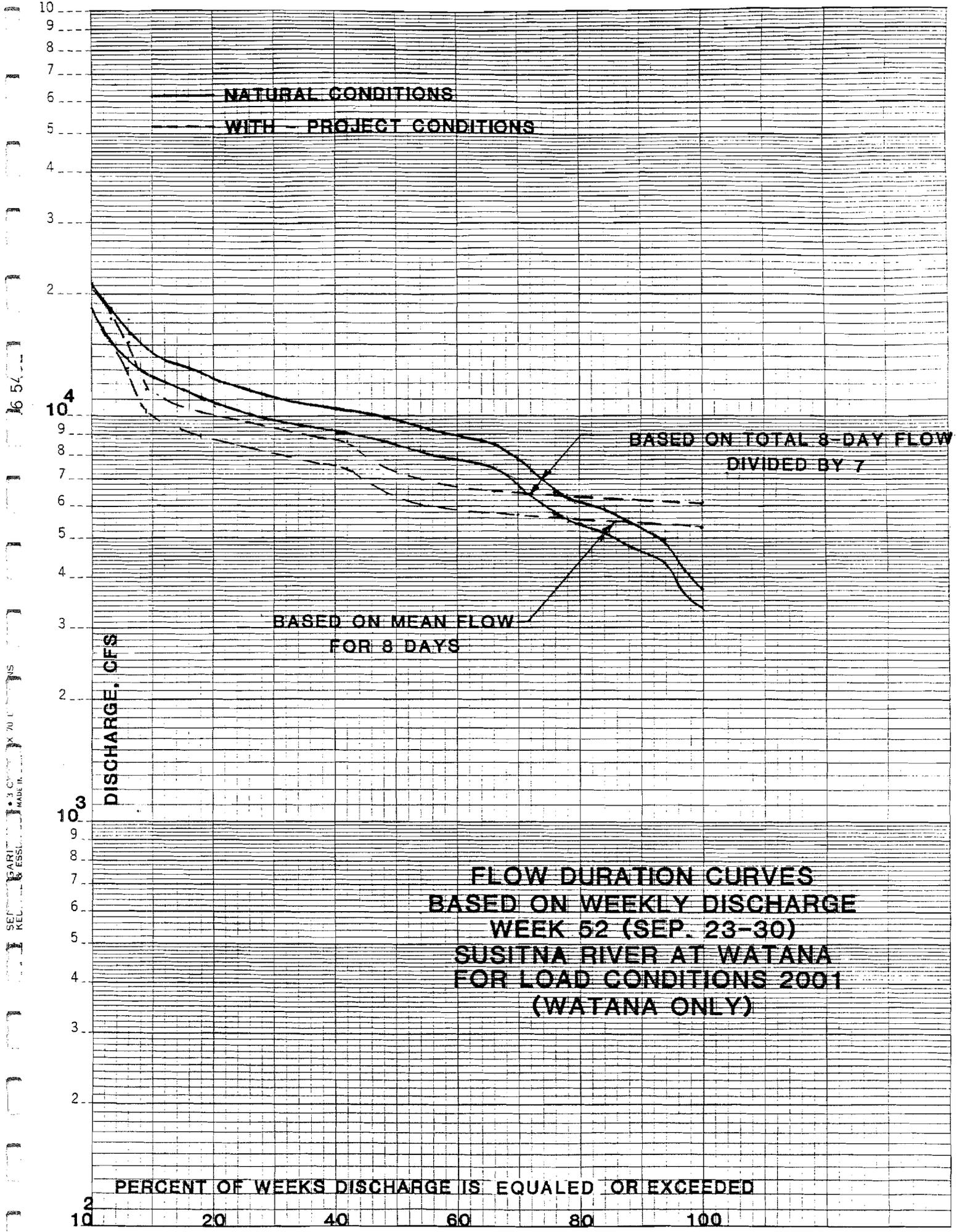
**EXHIBIT 13**

54

SEMI-COASTAL FLOODING CYCLES IN DIVISION 10  
KUPESSE LAKE IN



**EXHIBIT 14**



6 54

SEI  
KEL  
3  
ESSE  
X 70  
MADE IN

NATURAL CONDITIONS

WITH - PROJECT CONDITIONS

BASED ON TOTAL 8-DAY FLOW  
DIVIDED BY 7

BASED ON MEAN FLOW  
FOR 8 DAYS

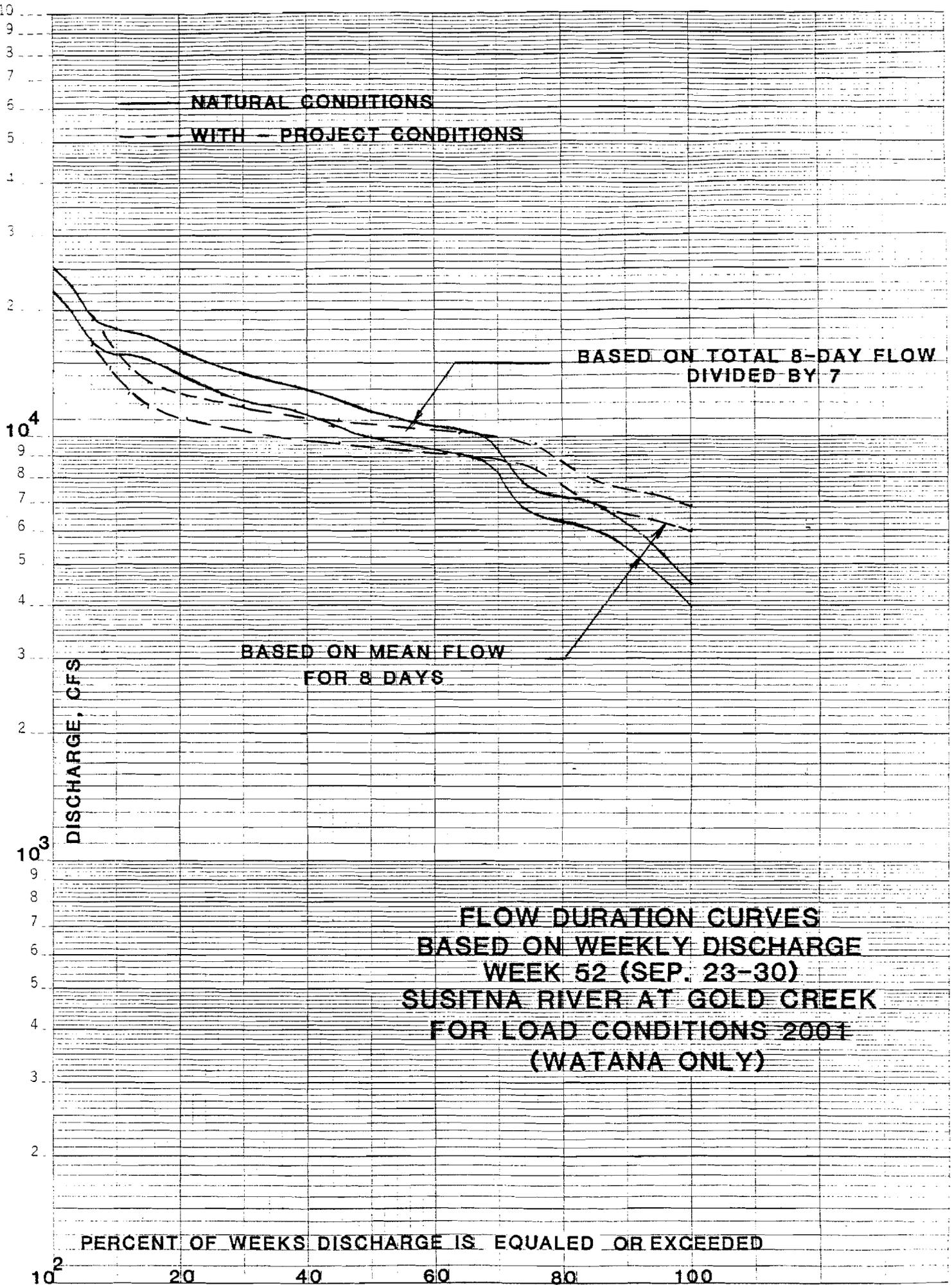
FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
WEEK 52 (SEP. 23-30)  
SUSITNA RIVER AT WATANA  
FOR LOAD CONDITIONS 2001  
(WATANA ONLY)

PERCENT OF WEEKS DISCHARGE IS EQUALED OR EXCEEDED

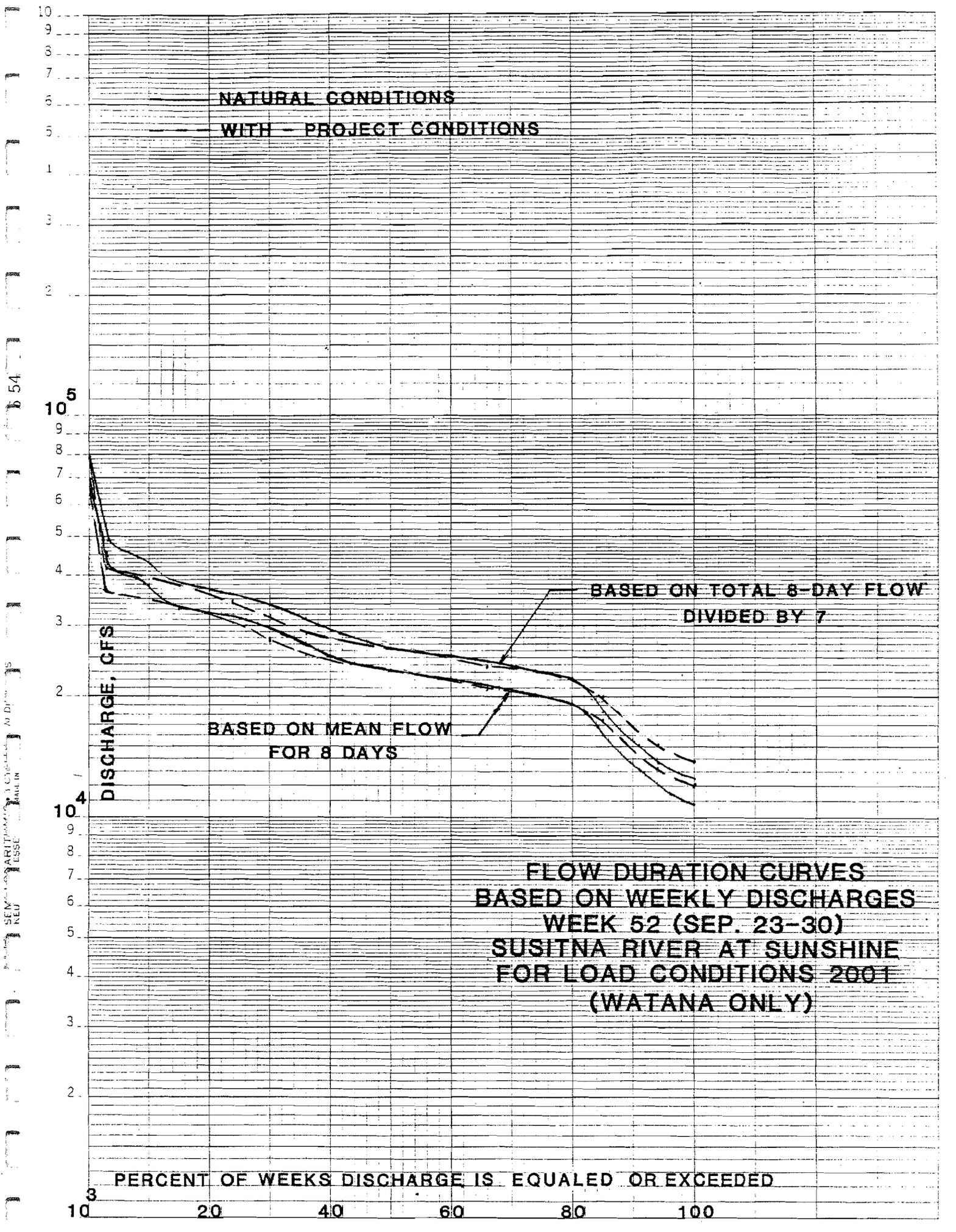
**EXHIBIT 15**

54

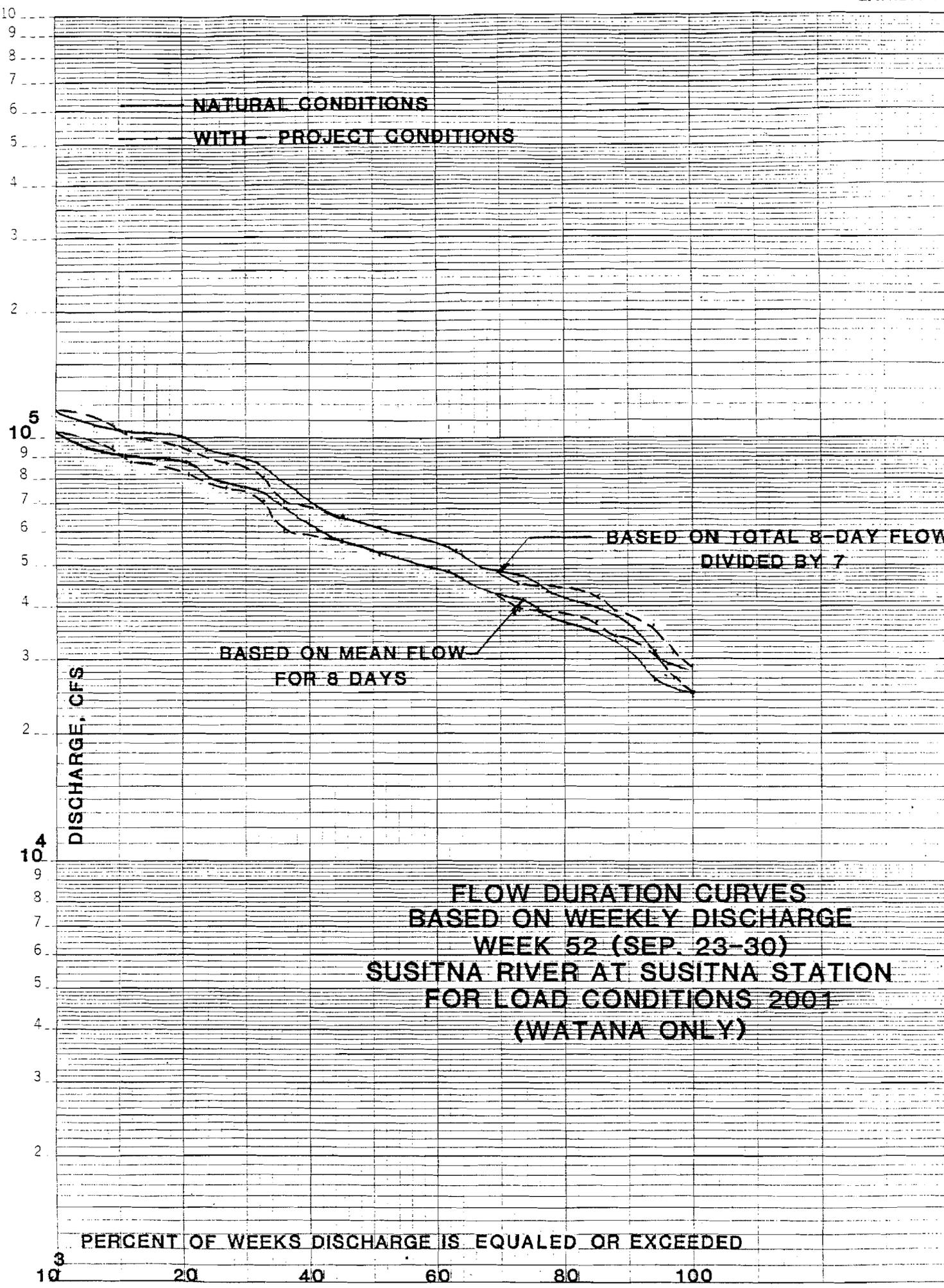
SEMMLON AKUTIMMICK, J. COY. U.S. 40 HINCHLIFFS  
KUP. LESSE



**EXHIBIT 16**



**EXHIBIT 17**



NATURAL CONDITIONS

WITH - PROJECT CONDITIONS

BASED ON TOTAL 8-DAY FLOW DIVIDED BY 7

BASED ON MEAN FLOW FOR 8 DAYS

FLOW DURATION CURVES  
BASED ON WEEKLY DISCHARGE  
WEEK 52 (SEP. 23-30)  
SUSITNA RIVER AT SUSITNA STATION  
FOR LOAD CONDITIONS 2001  
(WATANA ONLY)

PERCENT OF WEEKS DISCHARGE IS EQUALED OR EXCEEDED

SEMI-LOGARITHMIC PLOTTER MADE IN U.S.A.

p 54

**EXHIBIT 18**

**LEGEND:**

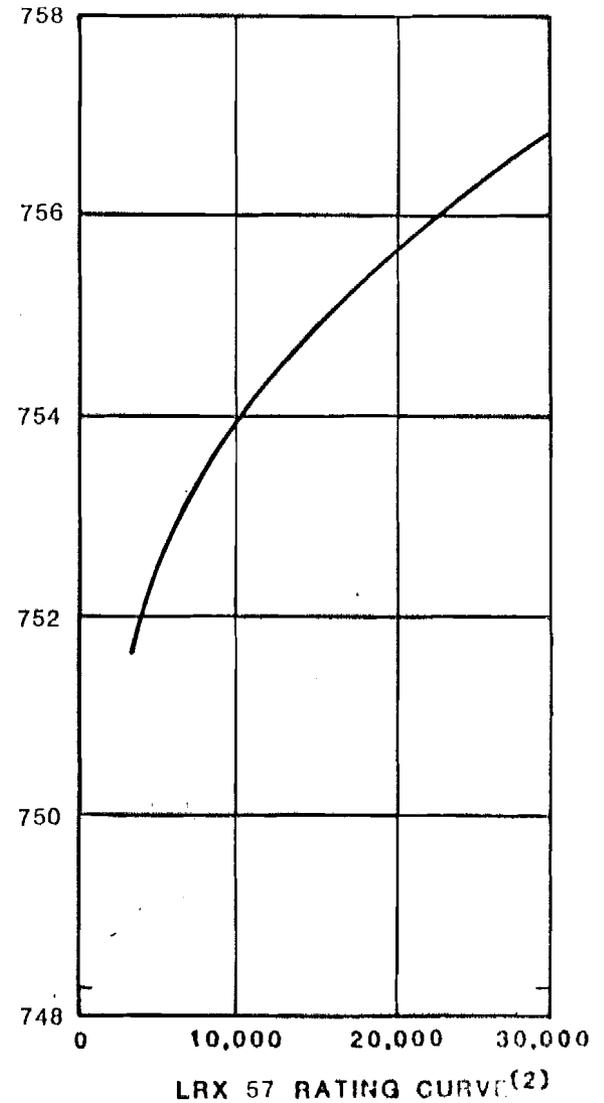
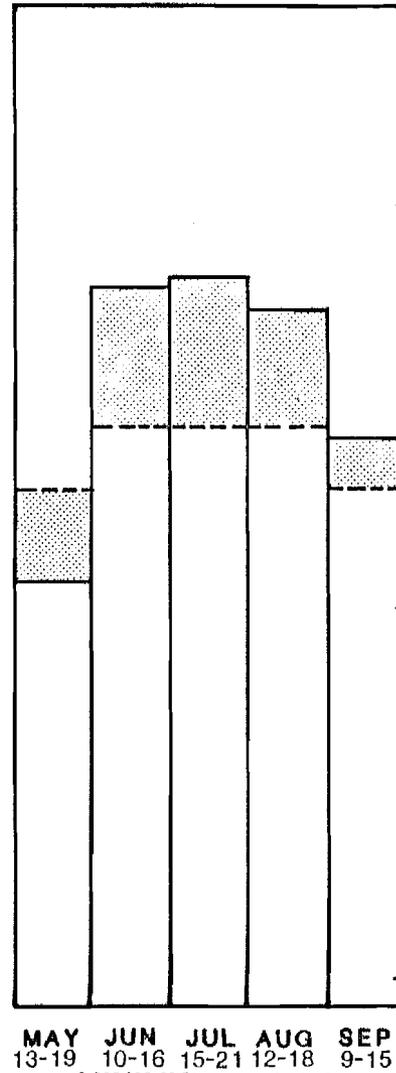
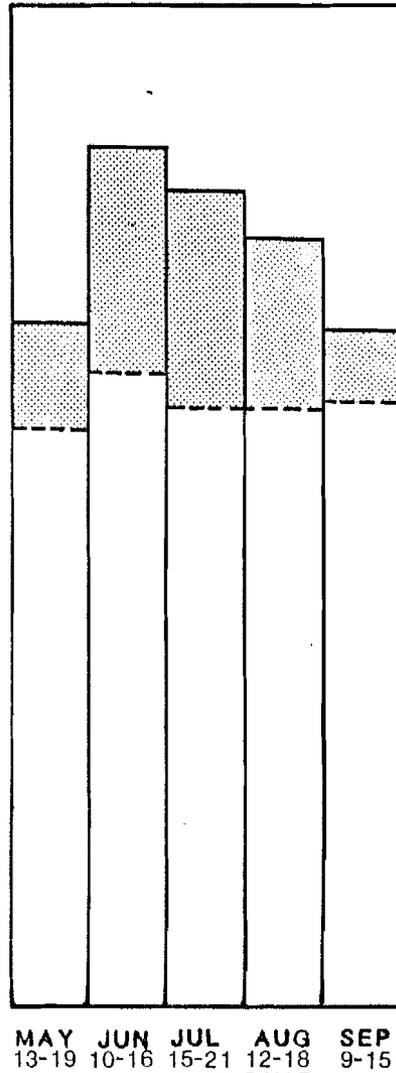
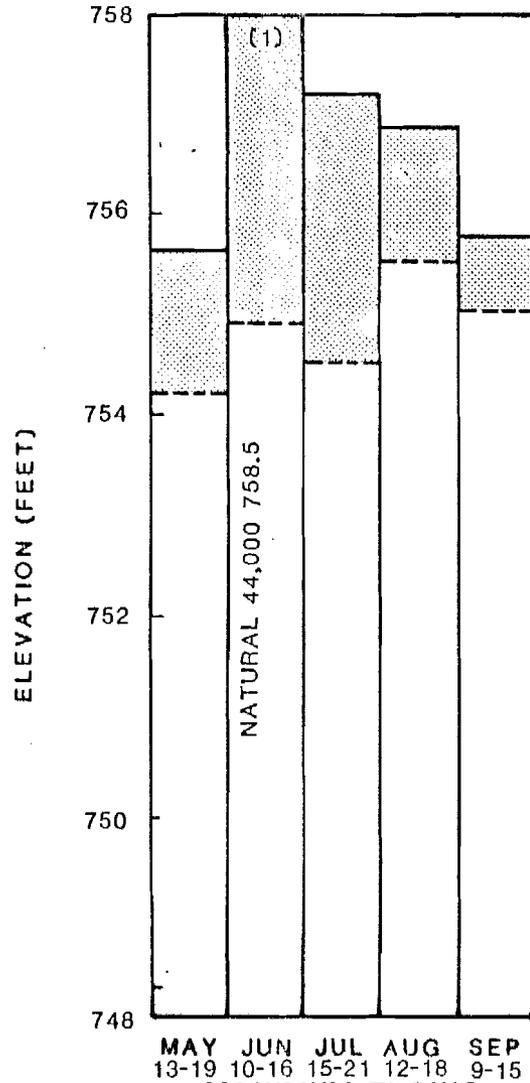
— PRE-PROJECT

- - - OPERATION



ELEVATION CHANGE

..... EXTRAPOLATED



- NOTES:**
1. WATER SURFACE ELEVATION ABOVE RATING CURVE
  2. RATING CURVE BASED ON COMPUTATIONS AND OBSERVATIONS (HE, 1984-) MIDDLE AND LOWER RIVER WATER SURFACE PROFILES AND DISCHARGE RATING CURVES

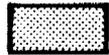
**2001 ENERGY DEMAND  
WATANA OPERATION: WEEKLY AVERAGE  
WATER SURFACE ELEVATIONS AT RIVER MILE 142.3**

REPLACES FIG. E.2.151

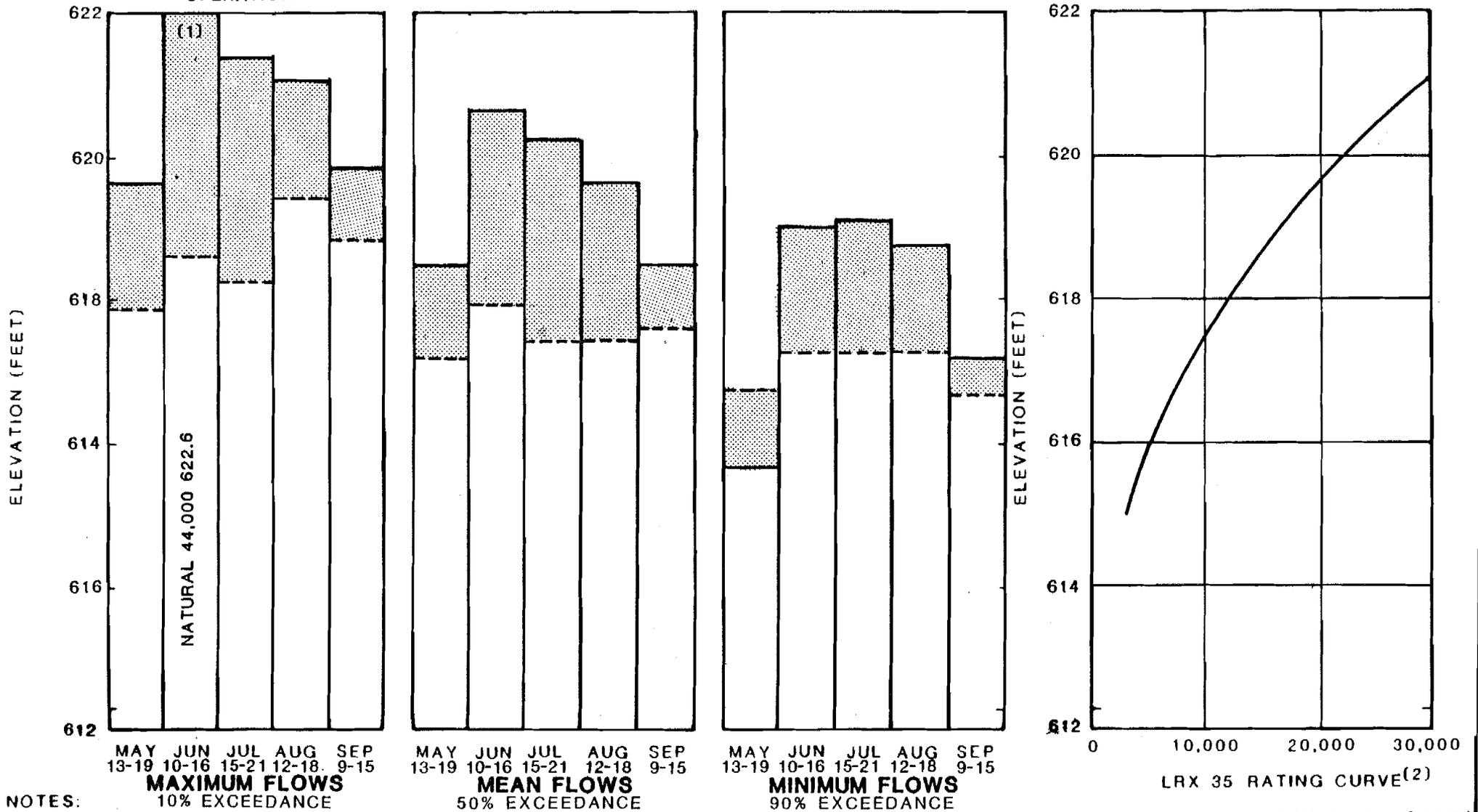
**EXHIBIT 19**

LEGEND:

— PRE-PROJECT  
 - - - OPERATION

 ELEVATION CHANGE

..... EXTRAPOLATED



NOTES: 10% EXCEEDANCE

1. WATER SURFACE ELEVATION ABOVE RATING CURVE
2. RATING CURVE BASED ON COMPUTATIONS AND OBSERVATIONS (HE, 1984-) MIDDLE AND LOWER RIVER WATER SURFACE PROFILES AND DISCHARGE RATING CURVES

**2001 ENERGY DEMAND  
 WATANA OPERATION: WEEKLY AVERAGE  
 WATER SURFACE ELEVATIONS AT RIVER MILE 130.9**

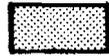
**GOLD CREEK DISCHARGE (CFS)**

**EXHIBIT 20**

LEGEND:

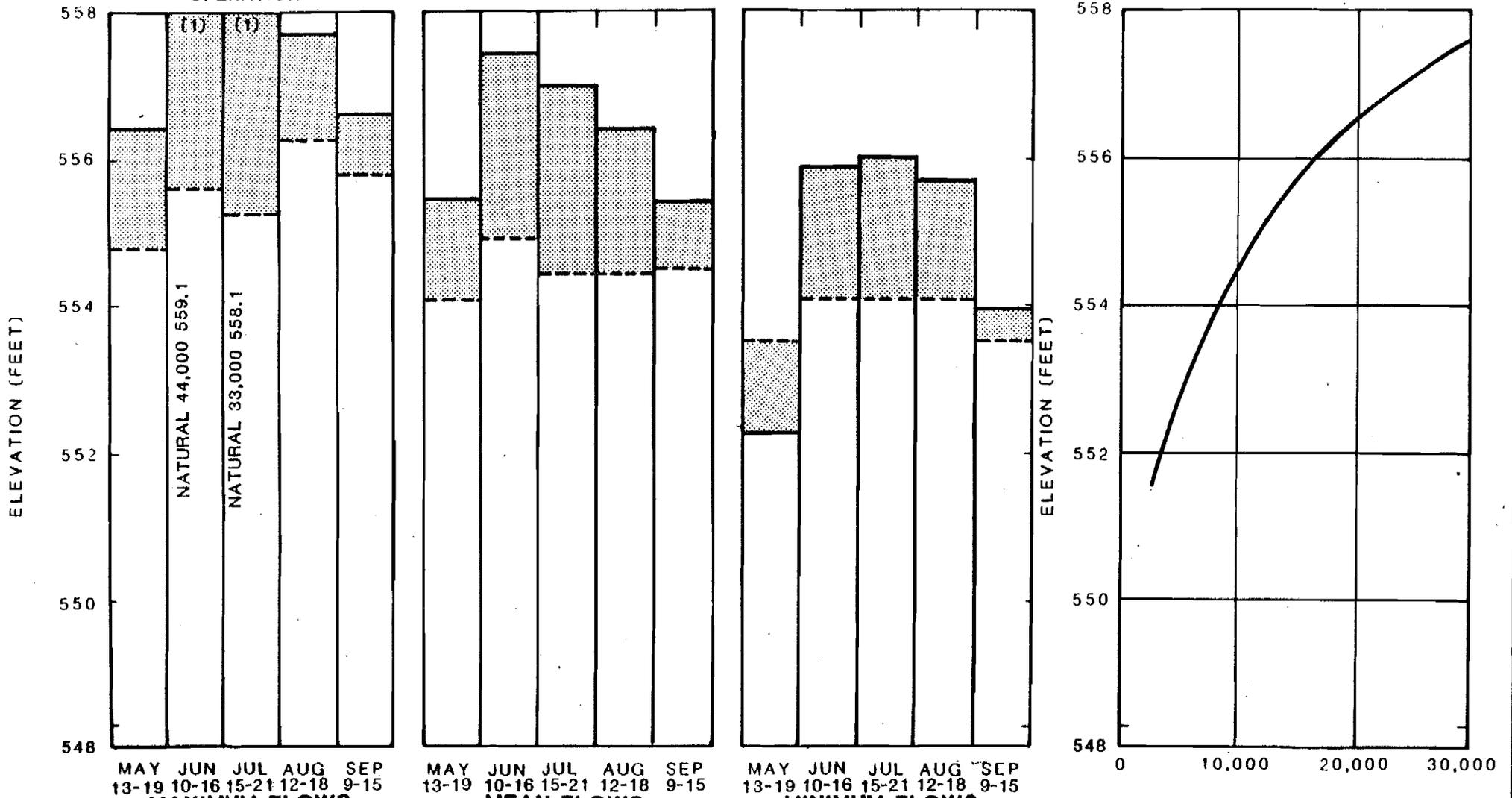
— PRE-PROJECT

- - - OPERATION



ELEVATION CHANGE

..... EXTRAPOLATED



NOTES:

1. WATER SURFACE ELEVATION ABOVE RATING CURVE
2. RATING CURVE BASED ON COMPUTATIONS AND OBSERVATIONS (HE, 1984-) MIDDLE AND LOWER RIVER WATER SURFACE PROFILES AND DISCHARGE RATING CURVES

**2001 ENERGY DEMANDS  
WATANA OPERATION: WEEKLY AVERAGE  
WATER SURFACE ELEVATIONS AT RIVER MILE 124.4**