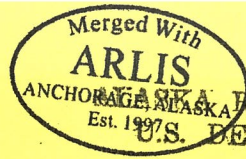


3 0455 0003 0467 5



BLM - ALASKA RESOURCES LIBRARY  
Alaska Power Authority response to agency



ALASKA RESOURCES LIBRARY  
U.S. DEPT. OF INTERIOR

ALASKA POWER AUTHORITY RESPONSE  
TO AGENCY COMMENTS ON LICENSE  
APPLICATION; REFERENCE TO  
COMMENT(S): 1. 99

DATA INDEX

by

HABITAT AREA

for

ADF&G Data Reports - Phase II, Vol.'s 2, 3 & 4

TK  
1425  
.S8  
F471  
no.2905-99



MAR 8 1994

ALASKA RESOURCES LIBRARY  
U.S. DEPT. OF INTERIOR

TK  
1425

.S8

F471

no. 2905-99

Specific Habitat Data

**ARLIS**

Alaska Resources

Library & Information Services

Anchorage, Alaska

**ARLIS**

Alaska Resources Library & Information Services

Library Building, Suite 111

3211 Providence Drive

Anchorage, AK 99502-4614

Mainstem Sites Below Talkeetna

\* Su Station

- Summer surface water temperature at Su Station R.M. - 25.8  
Appdx. Table 4-C-2 pg. 4-C-7
- Weekly Min., Max. &  $\bar{x}$  surface temps.  
Appdx. Table 4-C-26 pg. 4-C-95

Mainstem Sites Below Talkeetna

- \* Susitna River upstream of Yentna River - R.M. 29.5
- Summer surface water temperature R.M. - 25.8  
Appdx. Table 4-C-4                      pg. 4-C-14
- Weekly Min., Max. &  $\bar{x}$  surface temps.  
Appdx. Table 4-C-28                      pg. 4-C-97

Mainstem Sites Below Talkeetna

- \* Yentna Fishwheel Station - R.M. 30.1 pg. 89
- WSEL for Yentna Fishwheel Station vs. mean Q for mainstem  
Susitna at Su Station and Yentna River at Su Station  
Table 4I-3-7 pg. 90
- Summer surface water temperature R.M. - 30.1  
Appdx: Table 4-C-3 pg. 4-C-9
- Weekly Min., Max. &  $\bar{x}$  surface temps.  
Appdx. Table 4-C-27 pg. 4-C-96

Mainstem Sites Below Talkeetna

- \* Sunshine Fishwheel Station *RM 79.2* pg. 85
- WSEL for Sunshine Fishwheel Camp vs. mean Q for mainstem at  
Sunshine USGS station Table 4I-3-6 pg. 87
- H<sub>2</sub>O Quality Data during Ice Cover Appdx. 4-J-1 pg. 4-J-3

Sloughs Below Talkeetna

\* Chum Channel - R.M. 68.3

- Q measurements and WSEL during 1982  
Appdx. Table 4-A-1 pg. 4-A-46
- X-sect's of Chum Channel with WSEL at 3 discharges  
Fig. 4-A-41 pg. 4-A-45
- Velocities & Depths in Chum Channel with WSEL at three Q's  
Appdx. Table 4-B-1 pg. 4-B-2

Sloughs Below Talkeetna

\* Chum Channel - R.M. 68.3 (continued)

- Head pin elev's in Chum Channel - surveyed July 30, 1982		
	Appdx. Table 4-E-1	pg. 4-E-5
- Cross section elevations in Transect 1 - Chum Channel		
	Appdx. Table 4-E-2	pg. 4-E-6
- Cross section elevations in Transect 2 - Chum Channel		
	Appdx. Table 4-E-3	pg. 4-E-7
- Cross section elevations in Transect 3 - Chum Channel		
	Appdx. Table 4-E-4	pg. 4-E-8
- Cross section elevations in Transect 4 - Chum Channel		
	Appdx. Table 4-E-5	pg. 4-E-9
- Cross section elevations in Transect 5 - Chum Channel		
	Appdx. Table 4-E-6	pg. 4-E-10
- Cross section elevations in Transect 6		
- Chum Channel	Appdx. Table 4-E-7	pg. 4-E-11
- Cross section elevations in Transect 7		
- Chum Channel	Appdx. Table 4-E-8	pg. 4-E-12
- Cross section elevations in Transect 8		
- Chum Channel	Appdx. Table 4-E-9	pg. 4-E-13
- Chum Channel transects, 1982		
	Appdx. Table 4-F-13	pg. 4-F-14
- Water Depths and velocities of Chum Channel		
transects at three discharges	Fig. 4-II-3-2	pg. 260



Mainstem Sites Below Talkeetna

- \* Parks Highway Bridge West - R.M. 83.9
- Summer surface water temperature - R.M. 83.9  
Appdx. Table 4-C-5 pg. 4-C-19
- Weekly min., max. & x temps.  
Appdx. Table 4-C-29 pg. 4-C-98
- H<sub>2</sub>O Quality Data for Ice Covered Season  
Appdx. 4-J-1 pg. 4-J-3

Mainstem Sites Below Talkeetna

\* Parks Highway Bridge - East - R.M. 83.9

- Summer surface water temperature - R.M. 83.9

Appdx. Table 4-C-6

pg. 4-C-21

- Weekly min., max. & x temps.

Appdx. Table 4-C-30

pg. 4-C-99

## Sloughs Below Talkeetna

- \* Lower Goose 2 Slough (side channel) - R.M. 73.1 pg. 100
- Planimetric map of Lower Goose Slough  
Fig. 4I-3-27 pg. 91
- WSEL for Lower Goose Creek vs. Mainstem Q  
at Sunshine Appdx. Table 4-A-6 pg. 4-A-173
- Aggregate type II water surface at Goose Creek 2/Sidechannel  
vs. mainstem discharge at Sunshine Fig. 4I-3-53 pg. 140
- Q measurements and WSEL during 1982 Appdx. Table 4-A-1 pg. 4-A-46
- Surface area of aggregate Type II hydraulic zones at DFH sites  
and mainstem Susitna R. discharges Appdx. Table 4-A-7 pg. 4-A-182
- Site description Appdx. F pg. 4-F-98
- H<sub>2</sub>O Quality Data for DFH sites, 1982  
Appdx. I pg. 4-I-1
- Sampling effort by gear type Appdx. Table 3-A-1 pg. A-2

## Tributaries Below Talkeetna

* <u>Lower Goose Creek 2</u> - R.M. 73.1	pg. 89
- Planimetric map of Lower Goose 2/Slough	Fig. 4I-3-27 pg. 91
- Lower Goose Creek 2 rating - discharge curve	Fig. 4I-3-28 pg. 92
- WSEL in Lower Goose Creek 2 vs. Mainstem Q at Sunshine	Appdx. Table 4-A-6 pg. 4-A-173
- Water Quality Summary Table	Appdx. Table 4-D-5 pg. 4-D-44
- Q measurements and WSEL	Appdx. Table 4-A-1 pg. 4-A-47
- Catch of juvenile Chinook - 1982	Table 3-3-11 pg. 92
- Sampling effort by gear type	Appdx. Table 3-A-1 pg. A-2

## Sloughs Below Talkeetna

* <u>Whitefish Slough</u> - R.M. 78.7	pg. 101
- Planimetric map of Whitefish Slough	Fig. 4I-3-34 pg. 102
- WSEL for Whitefish Slough vs. Mainstem Q for Susitna River at Sunshine	Appdx. Table 4-A-6 pg. 4-A-144
- Whitefish Slough stage-discharge rating	Fig. 4-I-35 pg. 103
- Aggregate type II water surface at Whitefish Slough vs. mainstem Q at Sunshine	Fig. 4I-3-52 pg. 138
- Water Quality Summary Table	Appdx. Table 4-D-5 pg. 4-D-5
- Q measurements and WSEL during 1982	Appdx. Table 4-A-1 pg. 4-A-47
- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	Appdx. Table 4-A-7 pg. 4-A-182
- Site description	Appdx. F pg. 4-F-106
- H <sub>2</sub> O Quality Data for DFH sites, 1982	Appdx. I pg. 4-I-1
- Catch of juvenile Chinook - 1982	Table 3-3-11 pg. 92
- Sampling effort by gear type	Appdx. Table 3-A-1 pg. A-2

## Tributaries Below Talkeetna

* <u>Rabideux Creek (Slough) - R.M. 83.1 -85-7</u>		pg. 93
- Planimetric map of Rabideux Creek	Fig. 4I-3-29	pg. 94
- Rabideux Creek stage - discharge rating curve	Fig. 4I-3-30	pg. 95
- WSEL in Rabideux Creek vs. Mainstem Q at Sunshine station	Appdx. Table 4-A-6	pg. 4-A-175
- Aggregate type II water surface at Rabideux Creek/Slough vs. mainstem discharge at Sunshine	Fig. 4I-3-51	pg. 136
- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-46
- Q measurements and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-47
- X-sect's of Rabideux Slough at 2 discharges	Fig. 4-A-40	pg. 4-A-44
- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	Appdx. Table 4-A-7	pg. 4-A-182
- Velocities & Depths in Rabideux Slough - 3 Q's	Appdx. Table 4-B-2	pg. 4-B-3
- Water Depths and velocities of Rabideux Slough	Fig. 4-II-3-3	pg. 261
- Head pin elevations in Rabideux Slough - surveyed August 10, 1982	Appdx. Table 4-E-10	pg. 4-E-14
- Cross section elevations in Transect 0 of Rabideux Slough	Appdx. Table 4-E-11	pg. 4-E-15
- Cross section elevations in Transect 1 of Rabideux Slough	Appdx. Table 4-E-12	pg. 4-E-16
- Cross section elevations in Transect 2 of Rabideux Slough	Appdx. Table 4-E-13	pg. 4-E-17
- Cross section elevations in Transect 3 of Rabideux Slough	Appdx. Table 4-E-14	pg. 4-E-18
- Cross section elevations in Transect 4 of Rabideux Slough	Appdx. Table 4-E-15	pg. 4-E-19
- Cross section elevations in Transect 5 of Rabideux Slough	Appdx. Table 4-E-16	pg. 4-E-20
- Cross section elevations in Transect 6 of Rabideux Slough	Appdx. Table 4-E-17	pg. 4-E-21
- Cross section elevations in Transect 7 of Rabideux Slough	Appdx. Table 4-E-18	pg. 4-E-22
- Rabideux Slough transects, 1982	Appdx. Table 4-F-12	pg. 4-F-13
- Site description	Appdx. F	pg. 4-F-114
- H2O Quality Data for DFH sites, 1982	Appdx. I	pg. 4-I-1
- Catch of juvenile Chinook - 1982	Table 3-3-11	pg. 92
- Sampling effort by gear type	Appdx. Table 3-A-1	pg. A-3

## Tributaries Below Talkeetna

* <u>Sunshine Creek</u> - R.M. 85-7	pg. 93	
- <u>Planimetric map</u> of Sunshine Creek/Slough	Fig. 4I-3-31	pg. 96
- WSEL of Sunshine Creek vs. Mainstem Q at Sunshine station	Appdx. Table 4-A-6	pg. 4-A-175
- Sunshine Creek stage - discharge rating curve	Fig. 4I-3-30	pg. 95
- Aggregate type II water surface at Sunshine Creek Sidechannel vs. mainstem discharge at Sunshine	Fig. 4I-3-50	pg. 134
- Water Quality Sum. Tbl.	Appdx. Table 4-D-5	pg. 4-D-46
- Q measurements and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-48
- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	Appdx. Table 4-A-7	pg. 4-A-181
- Site description -	Appdx. F	pg. 4-F-121
- H <sub>2</sub> O Quality Data for DFH sites, 1982	Appdx. I	pg. 4-I-1
- H <sub>2</sub> O Quality Data during Ice Cover	Appdx. 4-J-1	pg. 4-J-3
- Catch of juvenile Chinook - 1982	Table 3-3-11	pg. 92

Sloughs Below Talkeetna

- \* Sunshine Slough - R.M. 85-7 pg. 104
- Planimetric map of Sunshine Slough
- WSEL of Sunshine Creek vs. Mainstem Q at Sunshine station Fig. 4I-3-31 pg. 96
- Q measurements and WSEL during 1982 Appdx. Table 4-A-6 pg. 4-A-175
- Appdx. Table 4-A-1 pg. 4-A-48



## Sloughs Below Talkeetna

* <u>Birch Creek Slough</u>	- R.M. 88-4 - 89.0	pg. 105
- Planimetric map of Birch Creek Slough	Fig. 4I-3-32	pg. 98
- WSEL at Birch Creek Slough vs. Mainstem Q at Sunshine station	Appdx. Table 4-A-6	pg. 4-A-176
- Birch Creek Slough stage - discharge rating curve	Fig. 4I-3-33	pg. 99
- Q measurements and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-48
- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	Appdx. Table 4-A-7	pg. 4-A-181
- Site description -	Appdx. F	pg. 4-F-128
- H <sub>2</sub> O Quality Data for DFH sites, 1982	Appdx. I	pg. 4-I-1
- H <sub>2</sub> O Quality Data during Ice Cover	Appdx. 4-J-1	pg. 4-J-3

### Tributaries Below Talkeetna

* <u>Birch Creek</u> - R.M. 89.2		pg. 97
- Birch Creek planimetric map	Fig. 4I-3-32	pg. 98
- WSEL for Birch Creek vs. Mainstem Q for Susitna R. at Sunshine	Appdx. Table 4-A-6	pg. 4-A-176
- Birch Creek stage - discharge rating curve	Fig. 4I-3-33	pg. 99
- Aggregate type II water surface at Birch Creek/Slough vs. mainstem Q at Sunshine	Fig. 4I-3-49	pg. 132
- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-47
- Q measurements and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-48
- H <sub>2</sub> O Quality Data during Ice Cover	Appdx. 4-J-1	pg. 4-J-3
- Catch of juvenile Chinook - 1982	Table 3-3-11	pg. 92

Mainstem Below Talkeetna

\* LRX - R.M. 97.0

- Summer surface water temperature at LRX-1  
Appdx. Table 4-C-7      pg. 4-C-24
- Weekly Min., Max. & x surface temps.  
Appdx. Table 4-C-31      pg. 4-C-100

Talkeetna River

\* Talkeetna River - R.M. 97.2

- Summer surface water temperature at Talkeetna R.

Appdx. Table 4-C-8

pg. 4-C-25

- Weekly Min., Max. & x surface temps.

Appdx. Table 4-C-32

pg. 4-C-101

Mainstem Susitna at Confluence

\* Chulitna River - R.M. 98.6

- Summer surface water temperature at Chulitna R.

Appdx. Table 4-C-9

pg. 4-C-30

- Weekly Min., Max. & x surface temps.

Appdx. Table 4-C-33

pg. 4-C-102

## Side Sloughs: Between Talkeetna and Devils Canyon

* <u>Whiskers Creek Slough</u>	- R.M. 101.2	pg. 43
- Planimetric map of Whiskers Creek/Slough	Fig. 4I-3-4	pg. 44
- WSEL of Whiskers Creek Slough vs. Mainstem Q	Appdx. Table 4-A-3	pg. 4-A-66
- Whiskers Creek Slough Q vs. Mainstem Q at Gold Creek	Appdx. Table 4-I-3-1	pg. 41
- Whiskers Creek Slough WSEL vs. Mainstem Q	Appdx. Table 4-A-3	pg. 4-A-67
- Mainstem Q required to breach the upstream heads of selected side sloughs b/n Talkeetna and Devil's Canyon	Table 4I-3-2	pg. 45
- Whiskers Creek Slough stage - discharge rating curve	Fig. 4I-3-5	pg. 47
- Mainstem Surface Elevations vs. mean daily mainstem Q at Gold Creek	Appdx. Table 4-A-2	pg. 4-A-2
- Aggregate type II water surface at Whiskers Creek/ Sidechannel vs. mainstem discharge at Gold Creek	Fig. 4I-3-48	pg. 129
- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-48
- Q measurements and WSEL during 1982	Appdx. Table 4-A-48	pg. 4-A-48
- X-sect's of Chum Channel with WSEL at 3 discharges	Fig. 4-A-31	pg. 4-A-33
- Thermograph data summary, winter surface temps. at Whiskers Creek	Appdx. Table 4-C-66	pg. 4-C-222
- Weekly Min., Max. & x winter surface temps.	Appdx. Table 4-C-77	pg. 4-C-261
- Whiskers Creek Slough sampling sites, 1982	Appdx. Table 3-A-1	pg. A-2
- Whiskers Creek Slough substrate	Appdx. Table 4-F-15	pg. 4-F-16
- Whiskers Creek Slough ice-free areas, winter 1982-83	Appdx. Table 4-F-16	pg. 4-F-17
- Site description	Appdx. F	pg. 4-F-135
- H <sub>2</sub> O Quality Data for DFH site	Appdx. I	pg. 4-I-1
- H <sub>2</sub> O Quality Data during Ice Cover	Appdx. 4-J-1	pg. 4-J-3
- Cumulative catch of all species in 30 minnow traps during a 24 hr. period at Whiskers Creek & Slough, June 21-22, 1982	Appdx. 3-E-1	pg. E-6

Tributaries: Between Talkeetna and Devil's Canyon

* <u>Whiskers Creek</u>	- R.M. 101.2	pg. 66
- Planimetric map of Whiskers Creek/Slough	Fig. 4I-3-4	pg. 44
- WSEL for Whiskers Creek vs. Q for Mainstem at Gold Creek	Appdx. Table 4-I-3-3	pg. 68
- Whiskers Creek stage - discharge rating curve	Fig. 4I-3-18	pg. 70
- Q measurements and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-48
- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	Appdx. Table 4-A-7	pg. 4-A-181
- H <sub>2</sub> O Quality Data During Ice Cover	Appdx. 4-J-1	pg. 4-J-4
- Cumulative catch of all species in 30 minnow traps during a 24 hr. period at Whiskers Creek & Slough, June 21-22, 1982	Appdx. 3-E-1	pg. E-4
- Summary by zone, 10 minnow traps per zone, over 24 hrs. Whiskers Creek & Slough, June 21-22, 1982	Appdx. Table 3-E-2	pg. E-5

Mainstem Susitna - Talkeetna and Devil's Canyon

\* Talkeetna Fishwheel - R.M. 103.0

- Summer surface water temperature at Talkeetna Fishwheel  
Appdx. Table 4-C-10
- Weekly Min., Max. & x surface temps.  
Appdx. Table 4-C-34

pg. 4-C-34

pg. 4-C-103



Tributaries: Between Talkeetna and Devil's Canyon

* <u>Gash Creek</u>	- R.M. 111.5		pg. 71
-	Planimetric map of Gash Creek		
		Fig. 4I-3-19	pg. 72
-	WSEL of Gash Creek vs. Q for Mainstream at Gold Creek	Table 4I-3-20	pg. 73
-	Water Quality Summary Table		
		Appdx. Table 4-D-5	pg. 4-D-51
-	Q measurement and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-49

Upland Sloughs - Talkeetna and Devil's Canyon

* <u>Slough 6A</u> - R.M. 112.3		pg. 37-39
- Planimetric map of Slough 6A	Fig. 4I-3-2	pg. 38
- WSEL of Slough 6A vs. Mainstem Q at Gold Creek	Appdx. Table 4-A-3	pg. 4-A-66
- Mainstem Surface Elevations vs. Mean Daily Mainstem Q at Gold Creek	Appdx. Table 4-A-2	pg. 4-A-56
- Slough 6A Q	Table 4I-3-1	pg. 41
- Aggregate type II water surface at Slough 6A vs. mainstem discharge at Gold Creek	Fig. 4I-3-47	pg. 128
- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-51
- Q measurement and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-49
- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	Appdx. Table 4-A-7	pg. 4-A-180
- Slough 6A sampling sites, 1982	Appdx. Table 4-F-17	pg. 4-F-18
- Slough 6A substrate, 1982	Appdx. Table 4-F-18	pg. 4-F-19
- Slough 6A ice-free areas, winter 1982-83	Appdx. Table 4-F-19	pg. 4-F-20
- Site description -	Appdx. F	pg. 4-F-143
- H <sub>2</sub> O Quality Data for DFH site	Appdx. I	pg. 4-I-1
- H <sub>2</sub> O Quality Data during Ice Covered periods	Appdx. 4-J-1	pg. 4-J-4
- Catch of juvenile Chinook - 1982	Table 3-3-12	pg. 93

Mainstem Susitna - Talkeetna and Devil's Canyon

\* LRX-18 - R.M. 113.0

- Summer surface water temperature at LRX-18  
Appdx. Table 4-C-11 pg. 4-C-39
- Weekly Min., Max. & x surface temps.  
Appdx. Table 4-C-35 pg. 4-C-104

Side Sloughs: Between Talkeetna and Devils Canyon

* <u>Lane Creek Slough</u> - R.M. 113.6	pg. 46	
- Planimetric map of Lane Creek/Slough	Fig. 4I-3-6	pg. 48
- Mainstem discharge required to breach head of Lane Creek Slough	Table 4I-3-2	pg. 45
- WSEL of Lane Creek/Slough vs. Mainstem Q at Gold Creek	Appdx. Table 4-A-3	pg. 4-A-68
- Lane Creek/Slough Q vs. Mainstem Q at Gold Creek	Table 4I-3-1	pg. 41
- Lane Creek/Slough stage - discharge rating curve	Fig. 4I-3-7	pg. 50
- Aggregate type II water surface at Lane Creek/ vs. mainstem discharge at Gold Creek	Fig. 4I-3-46	pg. 126
- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-52
- Q measurement and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-49
- Lane Creek Slough sampling sites, 1982	Appdx. Table 4-F-20	pg. 4-F-21
- Lane Creek Slough substrate, 1982	Appdx. Table 4-F-21	pg. 4-F-22
- Lane Creek Slough upwelling/seepage, 1982	Appdx. Table 4-F-22	pg. 4-F-23
- Lane Creek Slough ice-free areas, winter 1982-83	Appdx. Table 4-F-23	pg. 4-F-24
- Site description	Appdx. F	pg. 4-F-150
- H <sub>2</sub> O Quality Data for DFH site	Appdx. I	pg. 4-I-1
- H <sub>2</sub> O Quality Data during Ice Cover	Appdx. 4-J-1	pg. 4-J-4
- Catch of juvenile Chinook - 1982	Table 3-3-12	pg. 93

Tributaries: Between Talkeetna and Devils Canyon

* <u>Lane Creek Slough</u>	- R.M. 113.6	pg. 71
- Planimetric map of Lane Creek/Slough	Fig. 4I-3-6	pg. 71
- WSEL of Lane Creek/Slough vs. Q for Mainstem at Gold Creek	Appdx. Table 4I-3-6	pg. 68
- Lane Creek/Slough stage - discharge rating curve	Fig. 4I-3-20	pg. 73
- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-52
- Q measurement and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-52
- X-sect's of Lane Creek Slough with WSEL at 3 discharges	Fig. 4-A-32	pg. 4-A-49
- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	Appdx. Table 4-A-7	pg. 4-A-180
- Catch of juvenile Chinook - 1982	Table 3-3-12	pg. 93

Mainstem Susitna - Talkeetna to Devil's Canyon

\* Curry Fishwheel - R.M. 120.7

- Summer surface water temperatures - Curry Fishwheel R.M. 120.7

Appdx. Table 4-C-12 pg. 4-C-43

- Weekly Min., Max. & x surface temps.

Appdx. Table 4-C-36 pg. 4-C-105

Sloughs: Between Talkeetna and Devils Canyon

\* Slough 8 - R.M. 113.6

- Electrofishing with a backpack electroshocker at Slough 8  
Plate 3-2-4

pg. 25

Sloughs: Between Talkeetna and Devils Canyon

\* Slough 8A - R.M. 125.2

- Thalweg Profile for Slough 8A  
Fig. 4I-3-36 pg. 107
- Aggregate type II water surface at Slough 8A vs. mainstem discharge at Gold Creek  
Fig. 4I-3-45 pg. 124
- Summary of Provisional Water Quality Data for Sloughs 8A, 9, 16B, 19 & 21 and Mainstem Susitna R. at Gold Creek June, July, Sept. 1981 and Jan. Feb. 1982. Appdx. Table 4-D-6 pg. 4-D-69
- Q measurement and WSEL during 1982  
Appdx. Table 4-A-1 pg. 4-D-49
- X-sect's of Slough 8A with WSEL at 3 mainstem discharges  
Fig. 4-A-37 pg. 4-A-39
- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges  
Appdx. Table 4-A-7 pg. 4-A-180
- Velocities & Depths in Slough 8A @ 3 Q's  
Appdx. Table 4-B-3 pg. 4-B-4
- Slough 8A: Transects, Depth, Velocity, Flow Substrate Type  
on 22 August, 1982 Appdx. Table 4-B-6 pg. 4-B-7
- on 26 August, 1982 Appdx. Table 4-B-7 pg. 4-B-16
- on 7 September, 1982 Appdx. Table 4-B-8 pg. 4-B-18
- on 19 September, 1982 Appdx. Table 4-B-9 pg. 4-B-28
- Depths & Velocities associated with Chum Salmon Redds at 3 discharges  
Appdx. Table 4-B-18 pg. 4-B-90
- Depths & Velocities associated with Pink & Sockeye Redds at 3 sloughs at 3 discharges  
Appdx. Table 4-B-19 pg. 4-B-91
- Hydraulic habitat variables collected at Chum Salmon Redds at 3 discharges  
Appdx. Table 4-B-20 pg. 4-B-92
- Hydraulic habitat variables collected at Sockeye Redds at 3 sloughs at 3 discharges  
Appdx. Table 4-B-21 pg. 4-B-98
- Summer surface water temperature at Talkeetna Fishwheel  
Appdx. Table 4-C-13 pg. 4-C-46
- Weekly Min., Max. & x surface temps.  
Appdx. Table 4-C-37 pg. 4-C-106
- Datapod intragravel and surface temps. for 8A-mouth of slough  
Appdx. Table 4-C-50 pg. 4-C-119
- Datapod intragravel and surface temps. for 8A-upper slough  
Appdx. Table 4-C-51 pg. 4-C-129
- Mean intragravel & surface water temps. - datapod summary at Slough 8A - mouth, R.M. 125.4 Appdx. Table 4-C-58 pg. 4-C-198
- Mean intragravel & surface water temps. - datapod summary at Slough 8A - upper 126.4 Appdx. Table 4-C-59 pg. 4-C-201
- Instantaneous intragravel water temps. obtained at salmon spawning spawning redds in Slough 8A  
Appdx. Table 4-C-88 pg. 4-C-272



Sloughs: Between Talkeetna and Devils Canyon

\* Slough 8A (continued) - R.M. 125.2

- Temp. (°C), specific conductance (umhos/cm) abd  
depth (ft.) collected at specified locations in  
Slough 8A, October 5, 1982  
Appdx. Table 4-D-7 pg. 4-D-85
- Surface & intragravel temps. (°C) & related data collected along  
study transects in Slough 8A, October 5, 1982  
Appdx. Table 4-D-12 pg. 4-D-93
- Head pin elev's in Slough 8A  
Appdx. Table 4-E-19 pg. 4-E-23
- Cross section elevations in transects 1-11 of Slough 8A  
Appdx. Table 4-E-20 pg. 4-E-24  
thru 4-E-30 thru 4-E-36
- Data (ft.) for streambed (thalweg) profile of Slough 8A  
Appdx. Table 4-E-31 pg. 4-E-37  
thru 4-E-40
- Water Quality sampling locations  
Appdx. Table 4-F-1 pg. 4-F-2
- Slough 8A sampling sites, 1982  
Appdx. Fig. 4-F-24 pg. 4-F-25
- Slough 8A substrate, 1982  
Appdx. Fig. 4-F-25 pg. 4-F-26
- Slough 8A upwelling/seepage, 1982  
Appdx. Fig. 4-F-26 pg. 4-F-27
- Slough 8A ice-free areas, winter 1982-83  
Appdx. Fig. 4-F-27 pg. 4-F-28
- Slough 8A spawning areas, 1982  
Appdx. Fig. 4-F-28 pg. 4-F-29
- Slough 8A redd locations, 1982  
Appdx. Fig. 4-F-29 pg. 4-F-30
- Data summary of intragravel temperatures at study  
transects for September -- Oct. 5, 1982  
Table 4II-3-3 pg. 4-C-250
- Data summary for surface temperatures -- Oct. 1-5, 1982  
Table 4II-3-4 pg. 4-C-251
- Data summary for substrate/water interface temps.  
for Oct. 1-5, 1982  
Table 4II-3-5 pg. 4-C-252
- Data summary of intragravel temperatures Oct. 1-5, 1982  
Table 4II-3-6 pg. 4-C-254
- Data summary for specific conductance -- Oct. 3-5, 1982  
Table 4II-3-7 pg. 4-C-256
- Water depths & velocities of Slough 8A at 3 discharges  
Fig. 4II-3-4 pg. 262
- Water depths & velocities available & utilized for chum salmon  
redds in three sloughs during Aug. 25-26 and Sept. 2-7, 1982  
Fig. 4II-3-7 pg. 266
- Numbers of salmon counted in Aug. & Sept. in sloughs  
in the Susitna Fig. 4II-4-1 pg. 297

Sloughs: Between Talkeetna and Devils Canyon

\*--Slough 8A (continued) - R.M. 125.2

-- Site description -	Appdx. F	pg. 4-F-157
-- H <sub>2</sub> O Quality Data for DFH sites, 1982	Appdx. I	pg. 4-I-1
-- H <sub>2</sub> O Quality Data during Ice Covered periods	Appdx. Table 4-J-1	pg. 4-J-4
-- Dates DFH sites were sampled by Food Habits Investigation Group	Table 3-2-3	pg. 39
-- Catch of juvenile Chinook - 1982	Table 3-3-12	pg. 93
-- Stomach contents of Chinook salmon juveniles collected in Slough 8A, 1982	Fig. 3-3-21	pg. 165
-- Stomach contents of Coho juveniles collected in Slough 8A, 1982	Fig. 3-3-26	pg. 170
-- Stomach contents of Sockeye juveniles collected in Slough 8A, 1982	Fig. 3-3-30	pg. 174
-- Comparison of food habits of co-occurring juvenile salmon collected in Slough 8A, 1982	Table 3-3-39	pg. 176
-- Percent Frequency of major invertebrate types in drift samples collected in Slough 8A, 1982	Fig. 3-3-32	pg. 180
-- Percent Frequency of major invertebrate types in kick screen samples from 8A, 1982	Fig. 3-3-38	pg. 186
-- Comparison of invertebrate composition of drift samples	Table 3-3-41	pg. 189
-- Electivity values for invertebrates found in stomach contents of sockeye juveniles at Slough 8A in August 1982	Appdx. Table 3-C-20	pg. C-20
-- Electivity values for invertebrates found in stomach contents of sockeye juveniles at Slough 8A in September 1982	Appdx. Table 3-C-21	pg. C-21
-- Electivity values for invertebrates found in stomach contents of coho juveniles at Slough 8A in August 1982	Appdx. Table 3-C-13	pg. C-13
-- Electivity values for invertebrates found in stomach contents of coho juveniles at Slough 8A in September 1982	Appdx. Table 3-C-14	pg. C-14
-- Electivity values for invertebrates found in stomach contents of chinook juveniles at Slough 8A in August 1982	Appdx. Table 3-C-4	pg. C-4

Mainstem Susitna - Talkeetna and Devil's Canyon

\*—LRX-29 - R.M. 126.1

- Summer surface water temperature at LRX-29  
Appdx. Table 4-C-14
- Weekly Min., Max. & x surface temps.  
Appdx. Table 4-C-38

pg. 4-C-50

pg. 4-C-107

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 9</u> - R.M. - 129.2	pg. 49
-- Slough 9 discharge measurements vs. mean daily Q of mainstem at Gold Crk.	pg. 41
-- Slough 9 Sampling Sites - Fig. 4-F-30	pg. 4-F-31
-- Slough 9 stage - discharge rating curve	
Fig. 4I-3-8	pg. 51
-- Thalweg Profile for Slough 9	
Fig. 4I-3-37	pg. 108
-- Aggregate type II water surface at Slough 9 vs. mainstem discharge at Gold Creek	pg. 122
-- Water Quality Summary Table	
Appdx. Table 4-D-5	pg. 4-D-55
-- Summary of Provisional Water Quality Data for sloughs 8A, 9, 16B, 19 & 21 and Mainstem Susitna R. at Gold Creek, June, July and Sept. 1981, Jan. Feb. 1982.	
Appdx Table 4-D-6	pg. 4-D-69
-- Q measurements and WSEL during 1982	
Appdx. Table 4-A-1	pg. 4-A-50
-- X-sects of Slough 9 with SWEL at 4 mainstem discharges	
Fig. 4-A-38	pg. 4-A-41
-- Surface area of aggregate type II hydraulic zones at DFH sites and mainstem Susitna R discharges	
Appdx. Table 4-A-7	pg. 4-A-180
-- Velocities & Depths in Slough 9 with WSEL a three Q's	
Appdx. Table 4-B-4	pg. 4-B-5
-- Transect, Depth, Velocity, Flow and Substrate for 12 Aug., 1982 - Slough 9	
Appdx. Table 4-B-10	pg. 4-4-B-37
-- Transect, Depth, Velocity, Flow and Substrate for 25 Aug., 1982 - Slough 9	
Appdx. Table 4-B-11	pg. 4-4-B-44
-- Transect, Depth, Velocity, Flow and Substrate for 4 Sept., 1982 - Slough 9	
Appdx. Table 4-B-12	pg. 4-4-B-52
-- Transect, Depth, Velocity, Flow and Substrate for 18 Sept., 1982 - Slough 9	
Appdx. Table 4-B-13	pg. 4-4-B-61
-- Transect, Depth, Velocity, Flow and Substrate for 20 Sept., 1982 - Slough 9	
Appdx. Table 4-B-14	pg. 4-4-B-67
-- Depths and Velocities associated with Chum Salmon Redds in 4 sloughs @ 3 discharges	
Appdx. Table 4-B-18	pg. 4-4-B-90
-- Depths and Velocities associated with Pink Salmon and Sockeye salmon in 3 sloughs @ 3 discharges	
Appdx. Table 4-B-18	pg. 4-B-90
-- Hydraulic habitat variables collected at Chum Redds	
Appdx. Table 4-B-19	pg. 4-B-91
-- Hydraulic habitat variables collected at Pink Redds	
Appdx. Table 4-B-20	pg. 4-B-93

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 9</u> (continued)	- R.M. - 129.2	pg. 49
-- Summer surface water temperatures		
	Appdx. Table 4-C-15	pg. 4-C-54
-- Weekly Min., Max. & x surface temps.		
	Appdx. Table 4-C-39	pg. 4-C-108
-- Datapod intragravel and surface temps. for Slough 9 R.M. 128.7	Appdx. Table 4-C-52	pg. 4-C-139
-- Mean intragravel and surface temps. -- datapod summary at Slough 9 - R.M. 128.7	Appdx. Table 4-C-60	pg. 4-C-204
-- Mean data summary, winter surface water temps. at Slough 9 below tributary R.M. 129.	Appdx. Table 4-C-68	pg. 4-C-230
-- Thermograph data summary, winter intragravel water temps. at Slough 9 below tributary B, R.M. 129.0	Appdx. Table 4-C-73	pg. 4-C-247
-- Weekly Min., Max. & x surface temps. at Slough 9 below tributary B,	Appdx. Table 4-C-79	pg. 4-C-253
-- Weekly Min., Max. & x winter intragravel water temperature at Slough 9 - below Tributary B	Appdx. Table 4-C-84	pg. 4-C-268
-- Instantaneous intragravel water temps. obtained at salmon spawning redds in Slough 9	Appdx. Table 4-C-89	pg. 4-C-273
-- Temperature (°C), specific conductance (wmhos/cm) and depth (ft) collected at specified locations in Slough 9, Oct. 4 & 5, 1982	Appdx. Table 4-D-8	pg. 4-D-87
-- Surface & intragravel temperatures (°C) and related data collected along study transects in Slough 9, Oct. 4-5, 1982	Appdx. Table 4-3-13	pg. 4-D-94
-- Head pin elevations in Slough 9	Appdx. Table 4-E-32	pg. 4-E-41
-- Cross section elevations in Transect 1	Appdx. Table 4-E-33	pg. 4-E-42
-- Cross section elevations in Transect 2	Appdx. Table 4-E-34	pg. 4-E-43
-- Cross section elevations in Transect 3	Appdx. Table 4-E-35	pg. 4-E-44
-- Cross section elevations in Transect 4	Appdx. Table 4-E-36	pg. 4-E-45
-- Cross section elevations in Transect 5	Appdx. Table 4-E-37	pg. 4-E-46
-- Cross section elevations in Transect 6	Appdx. Table 4-E-38	pg. 4-E-47
-- Cross section elevations in Transect 7	Appdx. Table 4-E-39	pg. 4-E-48
-- Cross section elevations in Transect 8	Appdx. Table 4-E-40	pg. 4-E-49
-- Cross section elevations in Transect 9	Appdx. Table 4-E-41	pg. 4-E-50
-- Cross section elevations in Transect 10	Appdx. Table 4-E-42	pg. 4-E-51

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 9</u> (continued)	- R.M. - 129.2	pg. 49
-- Data (ft) for streambed (thalweg) profile of Slough 9	Appdx. Table 4-E-43	pg. 4-E-52 thru 4-E-54
-- Water Quality sampling locations in Lower Slough 9	Appdx. Table 4-F-2	pg. 4-F-3
-- Water Quality sampling locations in Upper Slough 9	Appdx. Table 4-F-3	pg. 4-F-4
-- Slough 9 sampling sites, 1982	Appdx. Table 4-F-30	pg. 4-F-31
-- Slough 9 substrate, 1982	Appdx. Table 4-F-31	pg. 4-F-32
-- Slough 9 upwelling/seepage, 1982	Appdx. Table 4-F-32	pg. 4-F-33
-- Slough 9 ice-free areas, winter 1982-83	Appdx. Table 4-F-33	pg. 4-F-34
-- Slough 9 spawning areas, 1982	Appdx. Table 4-F-34	pg. 4-F-35
-- Slough 9 redd locations, 1982	Appdx. Table 4-F-35	pg. 4-F-36
-- Data summary of intragravel temperatures at study transects for Sept. 30 -- Oct. 1-5, 1982	Table 4II-3-3	pg. 4-C-250
-- Data summary for surface temps.	Table 4II-3-4	pg. 4-C-251
-- Data summary for substrate/water interface temps.	Table 4II-3-5	pg. 4-C-252
-- Data summary of intragravel temperatures Oct. 1-5, 1982	Table 4II-3-6	pg. 4-C-254
-- Data summary for specific conductance -- Oct. 3-5, 1982	Table 4II-3-7	pg. 4-C-256
-- Water depths & velocities of Slough 9 transects at 3 discharges	Fig. 4II-3-5	pg. 263
-- Water depths & velocities available & utilized for chum salmon redds in three sloughs during Aug. 25-26 and Sept. 2-7, 1982	Fig. 4II-3-7	pg. 266
-- Numbers of live salmon counted in Aug. & Sept. in sloughs on Susitna	Fig. 4II-4-1	pg. 297
-- Comparison of Slough 9 Q with the average daily mainstem discharge at Gold Creek	Table 4II-4-1	pg. 305
-- Backwater profiles at the entrance to Slough 9 for selected mainstem	Fig. 4II-4-3	pg. 307
-- Comparison of water surface elevations at the entrance to Slough 9 & the average daily mainstem Q at Gold Creek, 1982	Table 4II-4-4	pg. 309
-- Entrance conditions at the mouth of Slough 9 at various mainstem Q's at Gold Creek when slough discharge was 3 cfs	Table 4II-4-3	pg. 311
-- Site description -	Appdx. F	pg. 4-F-164
-- H2O Quality Data for DFH sites, 1982	Appdx. I	pg. 4-I-1

Side Sloughs: between Talkeetna and Devils Canyon

- \* Slough 9 (continued) - R.M. - 129.2 pg. 49
- H<sub>2</sub>O Quality Data during Ice Covered periods  
Appdx. Table 4-J-1 pg. 4-J-4
- Dates when DFH sites were sampled by Food Habits  
Investigation Group Table 3-2-3 pg. 39
- Catch of juvenile Chinook - 1982  
Table 3-3-12 pg. 93

Side Sloughs: between Talkeetna and Devils Canyon

\* Slough 9A - R.M. - 133.5

-- Slough 9A sampling sites, 1982	Appdx. Table 4-F-36	pg. 4-F-37
-- Slough 9A substrate, 1982	Appdx. Table 4-F-37	pg. 4-F-38
-- Slough 9A upwelling/seepage, 1982	Appdx. Table 4-F-38	pg. 4-F-39
-- Slough 9A ice-free areas, winter 1982-83	Appdx. Table 4-F-39	pg. 4-F-40
-- H <sub>2</sub> O Quality Data during Ice Covered periods	Appdx. Table 4-J-1	pg. 4-J-4



Side Sloughs: between Talkeetna and Devils Canyon

\* Slough 9A - R.M. - 133.5

- Thermograph data summary, winter surface temps. at Slough B  
Appdx. Table 4-C-67 pg. 4-C-226
- Thermograph data summary, winter intragravel water temps  
- Slough 9B Appdx. Table 4-C-74 pg. 4-C-251
- Weekly Min., Max. & x surface temps. at Slough 9B  
Appdx. Table 4-C-85 pg. 4-C-269
- Temperature (°C), specific conductance (wmhos/cm) and  
depth (ft) collected at specific locations in Slough 9B,  
Oct. 4, 1982 Appdx. Table 4-D-9 pg. 4-D-90
- Data summary of intragravel temperatures  
Table 4II-3-3 pg. 4-C-250
- Data summary for surface temperatures  
Table 4II-3-4 pg. 4-C-251
- Data summary for substrate/water interface temps.  
Table 4II-3-5 pg. 4-C-252
- Data summary of intragravel temperatures Oct. 1-5, 1982  
Table 4II-3-6 pg. 4-C-254
- H<sub>2</sub>O Quality Data during Ice Cover periods  
Appdx. Table 4-J-1 pg. 4-J-4

Side Sloughs: between Talkeetna and Devils Canyon

\* Slough 10 - R.M. - 133.5

- Slough 10 sampling sites, 1982  
Appdx. Table 4-F-40 pg. 4-F-41
- Slough 10 substrate, 1982  
Appdx. Table 4-F-41 pg. 4-F-42
- Slough 10 ice-free areas, winter 1982-83  
Appdx. Table 4-F-42 pg. 4-F-43
- H<sub>2</sub>O Quality Data during Ice Covered periods  
Appdx. Table 4-J-1 pg. 4-J-4

Mainstem Susitna - Talkeetna and Devil's Canyon

\*—LRX-35 - R.M. 113.0

-- Summer surface water temperature

Appdx. Table 4-C-16

pg. 4-C-58

-- Weekly Min., Max. & x surface temps.

Appdx. Table 4-C-40

pg. 4-C-109

Tributaries: Between Talkeetna and Devil's Canyon

*— <u>Fourth of July Creek</u>	- R.M. 131.1	pg. 74
-- Planimetric map of Fourth of July Creek		
	Fig. 4I-3-21	pg. 75
-- WSEL for Fourth of July Creek vs. Q for Mainstem at Gold Creek	Table 4I-3-3	pg. 69
-- Water Quality Summary Table		
	Appdx. Table 4-D-5	pg. 4-D-56
-- Q measurements and WSEL during 1982		
	Appdx. Table 4-A-1	pg. 4-A-52
-- Site description -	Appdx. F	pg. 4-F-171
-- H <sub>2</sub> O Quality Data for DFH sites, 1982		
	Appdx. I	pg. 4-I-1
-- H <sub>2</sub> O Quality Data during Ice Covered season		
	Appdx. Table 4-J-1	pg. 4-J-4
-- Dates when DFH sites were sampled by Food Habits Investigation Group	Table 3-2-3	pg. 39
-- Catch of juvenile Chinook - 1982		
	Table 3-3-12	pg. 93
-- Stomach contents of Chinook salmon juveniles collected in Fourth of July Creek, 1982		
	Fig. 3-3-24	pg. 168
-- Stomach contents of Coho juveniles collected in Fourth of July Creek, 1982		
	Fig. 3-3-28	pg. 172
-- Comparison of food habits in co-occurring juvenile salmon collected from Fourth of July Creek, 1982		
	Table 3-3-39	pg. 176
-- Percent Frequency of invertebrate types in drift net samples taken in Fourth of July Creek, 1982		
	Fig. 3-3-36	pg. 184
-- Percent Frequency of major invertebrate types in kick net samples from Fourth of July Creek		
	Fig. 3-3-40	pg. 188
-- Comparison of invertebrate composition of drift nets		
	Table 3-3-41	pg. 189
-- Electivity values for invertebrates found in stomach contents of sockeye juveniles at Fourth of July Creek in August 1982		
	Appdx. Table 3-C-16	pg. C-16
-- Electivity values for invertebrates found in stomach contents of sockeye juveniles at Fourth of July Creek in September 1982		
	Appdx. Table 3-C-17	pg. C-17
-- Electivity values for invertebrates found in stomach contents of coho juveniles at Fourth of July Creek in September 1982		
	Appdx. Table 3-C-10	pg. C-10
-- Electivity values for invertebrates found in stomach contents of chinook juveniles at Fourth of July Creek in August 1982		
	Appdx. Table 3-C-4	pg. C-9

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 11</u> - R.M. - 135.3	pg. 52
-- Plan map of Slough 11	
Fig. 4I-3-9	pg. 53
-- WSEL for Slough 11 vs. corresponding average daily Mainstem Q at Gold Creek	
Appdx. Table 4-A-3	pg. 4-A-68
-- Slough 11 Q vs. corresponding mean daily mainstem discharge at Gold Creek	Table 4I-3-1
	pg. 41
-- Mainstem WSEL at Slough 11 mouth vs. mean daily mainstem Q at Gold Creek	Appdx. Table 4-A-2
	pg. 4-A-61
-- Thalweg Profile for Slough 11	
Fig. 4I-3-38	pg. 109
-- Aggregate type II water surface at Slough 11 vs. mainstem discharge at Gold Creek	
Fig. 4I-3-43	pg. 121
-- Water Quality Summary Table	
Appdx. Table 4-D-5	pg. 4-D-57
-- Q measurements and WSEL during 1982	
Appdx. Table 4-A-1	pg. 4-A-52
-- X-sect's of Slough 11 with WSEL corresponding to 2 slough & mainstem discharges	
Fig. 4-A-33	pg. 4-A-33
-- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	
Appdx. Table 4-A-7	pg. 4-A-179
-- Depth and Velocities associated with Chum Salmon Redds in 4 sloughs @ 3 discharges	
Appdx. Table 4-B-18	pg. 4-4-B-90
-- Depths and Velocities associated with Pink Salmon and Sockeye salmon redds in 3 sloughs @ 3 discharges	
Appdx. Table 4-B-19	pg. 4-B-91
-- Hydraulic habitat variables collected at Chum Redds	
Appdx. Table 4-B-20	pg. 4-B-95
-- Hydraulic habitat variables collected at Sockeye Redds	
Appdx. Table 4-B-21	pg. 4-B-98
-- Datapod intragravel and surface temps. for Slough 11 R.M. 135.7	Appdx. Table 4-C-53
	pg. 4-C-152
-- Mean intragravel and surface temps. -- datapod summary at Slough 11	Appdx. Table 4-C-61
	pg. 4-C-208
-- Thermograph data summary, winter surface temps. at Slough 11	
Appdx. Table 4-C-69	pg. 4-C-233
-- Weekly Min., Max. & x surface temps. at Slough 11	
Appdx. Table 4-C-80	pg. 4-C-264
-- Instantaneous intragravel water temps. obtained at salmon spawning redds in Slough 11	
Appdx. Table 4-C-90	pg. 4-C-275
-- Temperature (°C), specific conductance (wmhos/cm) and depth (ft) collected at specified locations in Slough 11, Oct. 3, 1982	Appdx. Table 4-D-10
	pg. 4-D-91
-- Data (ft) for streambed (thalweg) profile of Slough 11	
Appdx. Table 4-E-44	pg. 4-E-55 thru 4-E-56

Side Sloughs: between Talkeetna and Devils Canyon

\* Slough 11 - (continued) - R.M. - 135.3

-- Slough 11 sampling sites, 1982	Appdx. Fig. 4-F-43	pg. 4-F-44
-- Slough 11 substrate, 1982	Appdx. Fig. 4-F-44	pg. 4-F-45
-- Slough 11 upwelling/seepage, 1982	Appdx. Fig. 4-F-45	pg. 4-F-46
-- Slough 11 ice-free areas, winter 1982-83	Appdx. Fig. 4-F-46	pg. 4-F-47
-- Slough 11 spawning areas, 1982	Appdx. Fig. 4-F-47	pg. 4-F-48
-- Slough 11 redd locations, 1982	Appdx. Fig. 4-F-48	pg. 4-F-49
-- Data summary of intragravel temps	Table 4II-3-3	pg. 4-C-250
-- Data summary for surface temperatures	Table 4II-3-4	pg. 4-C-251
-- Data summary for substrate/water interface temps.	Table 4II-3-5	pg. 4-C-252
-- Data summary of intragravel temperatures Oct. 1-5, 1982	Table 4II-3-6	pg. 4-C-254
-- Numbers of live salmon counted in Aug. & Sept. in sloughs of Susitna	Fig. 4II-4-1	pg. 297
-- Site description -	Appdx. F	pg. 4-F-178
-- H <sub>2</sub> O Quality Data for DFH sites, 1982	Appdx. I	pg. 4-I-1
-- H <sub>2</sub> O Quality Data during Ice Covered season	Appdx. Table 4-J-1	pg. 4-J-4
-- Dates when DFH sites were sampled by Food Habits Investigation Group	Table 3-2-3	pg. 39
-- Catch of juvenile Chinook - 1982	Table 3-3-12	pg. 93
-- Stomach contents of Chinook salmon juveniles collected in Slough 11, 1982	Fig. 3-3-22	pg. 166
-- Stomach contents of Coho juveniles collected in Slough 11, 1982	Fig. 3-3-27	pg. 171
-- Stomach contents of Sockeye juveniles collected in Slough 11, 1982	Fig. 3-3-31	pg. 175
-- Comparison of food habits in co-occurring juvenile salmon in Slough 11	Table 3-3-39	pg. 176
-- Percent frequency of invertebrate types in drift net samples taken in Slough 11, 1982	Fig. 3-3-33	pg. 181
-- Percent Frequency of major invertebrate types in kick net samples from Slough 11	Fig. 3-3-38	pg. 186
-- Comparison of invertebrate composition of drift nets	Table 3-3-41	pg. 189
-- Electivity values for invertebrates found in stomach contents of sockeye juveniles at Slough 11 in August 1982	Appdx. Table 3-C-22	pg. C-22

Side Sloughs: between Talkeetna and Devils Canyon

\* Slough 11 - (continued) - R.M. - 135.3

-- Electivity values for invertebrates found in  
stomach contents of sockeye juveniles at  
Slough 11 in September 1982

Appdx. Table 3-C-23 pg. C-23

-- Electivity values for invertebrates found in stomach  
contents of chinook juveniles at Slough 11 in August 1982

Appdx. Table 3-C-5 pg. C-5

-- Electivity values for invertebrates found in stomach  
contents of chinook juveniles at Slough 11 in September 1982

Appdx. Table 3-C-6 pg. C-6

-- Electivity values for invertebrates found in stomach  
contents of coho juveniles at Slough 11 in September 1982

Appdx. Table 3-C-15 pg. C-15

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 16B</u> - R.M. - 137.7	pg. 54
-- Planimetric map of Slough 16B	
Fig. 4I-3-10	pg. 55
-- Mainstem Q required to breach the upstream heads of selected side sloughs b/n Talkeetna and Devil's Canyon	Table 4I-3-2
-- WSEL for Slough 16B vs. corresponding average daily Mainstem Q at Gold Creek	pg. 45
Appdx. Table 4-A-3	pg. 4-A-69
-- Slough 16B Q vs. mainstem Q at Gold Creek	
Table 4I-3-1	pg. 41
-- Slough 16B stage - discharge rating curve	
Fig. 4I-3-11	pg. 56
-- Water Quality Summary Table	
Appdx. Table 4-D-5	pg. 4-D-58
-- Summary of Provisional Water Quality Data for Sloughs 8A, 9, 16B, 19 & 21 and Mainstem Susitna R. at Gold Creek	Appdx. Table 4-D-6
-- Q measurements and WSEL during 1982	pg. 4-D-69
Appdx. Table 4-A-1	pg. 4-A-52
-- X-sect's of Slough 16B with WSEL corresponding to 2 slough & mainstem discharges	
Fig. 4-A-34	pg. 4-A-36
-- Datapod intragravel and surface temps. for Slough 16B R.M. 135.7	Appdx. Table 4-C-54
-- Mean intragravel and surface temps. -- datapod summary at Slough 16B, R.M. 138.0	pg. 4-C-162
Appdx. Table 4-C-62	pg. 4-C-211
-- Slough 16B sampling sites, 1982	
Appdx. Fig. 4-F-49	pg. 4-F-50
-- Slough 16B substrate, 1982	
Appdx. Fig. 4-F-50	pg. 4-F-51
-- Slough 16B ice-free areas, winter 1982-83	
Appdx. Fig. 4-F-51	pg. 4-F-52
-- Slough 16B spawning areas, 1982	
Appdx. Fig. 4-F-52	pg. 4-F-53



Tributaries: Between Talkeetna and Devil's Canyon

*-- <u>Indian River</u>	- R.M. 138.6	pg. 74
-- Planimetric map of Indian River	Fig. 4I-3-23	pg. 77
-- Indian River Continuous Discharge	Appdx. Table 4-A-4	pg. 4-A-75
-- Indian River: Water Surface Elevations, discharge & temperature	Table 4I-3-4	pg. 80
-- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-56
-- Weekly Min., Max. & x surface temps.	Appdx. Table 4-D-5	pg. 4-D-58
-- Site description -	Appdx. F	pg. 4-F-185
-- H <sub>2</sub> O Quality Data for DFH sites, 1982	Appdx. I	pg. 4-I-1
-- H <sub>2</sub> O Quality Data during Ice Covered season	Appdx. Table 4-J-1	pg. 4-J-5
-- Beach seining along a gravel bar at Indian River	Plate 3-2-3	pg. 24
-- Dates when DFH sites were sampled by Food Habits Investigation Group	Table 3-2-3	pg. 39
-- Catch of juvenile Chinook - 1982	Table 3-3-12	pg. 93
-- Stomach contents of Chinook salmon juveniles collected in Indian River, 1982	Fig. 3-3-25	pg. 169
-- Stomach contents of Coho juveniles collected in Indian River, 1982	Fig. 3-3-29	pg. 173
-- Comparison of food habits in co-occurring juvenile salmon collected from Indian River, 1982	Table 3-3-39	pg. 176
-- Percent Frequency of invertebrate types in drift net samples taken from Indian River, 1982	Fig. 3-3-37	pg. 185
-- Percent Frequency of major invertebrate types in kick net samples from Indian River	Fig. 3-3-40	pg. 188
-- Comparison of invertebrate composition of drift samples	Table 3-3-41	pg. 189
-- Month habitat data at SFH sites on Indian R. and Portage Creek, June - September, 1982	Appdx. Table 3-D-1	pg. D-3
-- Electivity values for invertebrates found in stomach contents of sockeye juveniles at Indian River in August 1982	Appdx. Table 3-C-18	pg. C-18
-- Electivity values for invertebrates found in stomach contents of sockeye juveniles at Indian River in September 1982	Appdx. Table 3-C-19	pg. C-19
-- Electivity values for invertebrates found in stomach contents of chinook juveniles at Indian River in August 1982	Appdx. Table 3-C-11	pg. C-11

Tributaries: Between Talkeetna and Devil's Canyon

\*—Indian River Continued) - R.M. 138.6

pg. 74

-- Electivity values for invertebrates found in stomach  
contents of chinook juveniles at Indian River in September 1982  
Appdx. Table 3-C-12 pg. C-12

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 19</u> - R.M. - 139.7	pg. 39
-- Planimetric map of Slough 19	
Fig. 4I-3-3	pg. 40
-- WSEL for Slough 19 vs. Mainstem Q at Gold Creek	
Appdx. Table 4-A-3	pg. 4-A-69
-- Mainstem Surface Elevation vs. Mainstem Q at Gold Creek	
Appdx. Table 4-A-2	pg. 4-A-63
-- A single Q for Slough 19	
Table 4I-3-1	pg. 41
-- Water Quality Summary Table	
Appdx. Table 4-D-5	pg. 4-D-60
-- Aggregate type II water surface at Slough 19 vs. Mainstem Q at Gold Creek	
Fig. 4I-3-42	pg. 119
-- Summary of Provisional Water Quality Data for sloughs 8A, 9, 16B, 19 & 21 and Mainstem Susitna R. at Gold Creek, June, July and Sept. 1981, Jan., Feb. 1982.	
Appdx. Table 4-D-6	pg. 4-D-69
-- Q measurements and WSEL during 1982	
Appdx. Table 4-A-1	pg. 4-A-52
-- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	
Appdx. Table 4-A-7	pg. 4-A-179
-- Datapod intragravel and surface temps. for Slough 19	
Appdx. Table 4-C-55	pg. 4-C-172
-- Mean intragravel and surface temps. -- datapod summary at Slough 19, R.M. 140.	
Appdx. Table 4-C-63	pg. 4-C-214
-- Thermograph data summary, winter surface temps. at Slough 19, R.M.140.0	
Appdx. Table 4-C-70	pg. 4-C-236
-- Thermograph data summary, winter intragravel water temps. - Slough 19, R.M.140.0	
Appdx. Table 4-C-75	pg. 4-C-255
-- Weekly Min., Max. & x winter surface water temps. at Slough 19	
Appdx. Table 4-C-81	pg. 4-C-265
-- Weekly Min., Max. & x winter intragravel water temps. - Slough 19	
Appdx. Table 4-C-86	pg. 4-C-270
-- Slough 19 sampling sites, 1982	
Appdx. Fig. 4-F-52	pg. 4-F-53
-- Slough 19 substrate, 1982	
Appdx. Fig. 4-F-53	pg. 4-F-54
-- Slough 19 upwelling/seepage, winter 1982-83	
Appdx. Fig. 4-F-54	pg. 4-F-55
-- Slough 19 ice-free areas, winter 1982-83	
Appdx. Fig. 4-F-55	pg. 4-F-56
-- Site description -	pg. 4-F-191
-- H <sub>2</sub> O Quality Data for DFH sites, 1982	
Appdx. I	pg. 4-I-1
-- Catch of juvenile Chinook - 1982	
Table 3-3-12	pg. 93

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 20</u> - R.M. - 140.1	pg. 57
-- Planimetric map of Slough 20	
Fig. 4I-3-12	pg. 58
-- WSEL for Slough 20 vs. Mainstem Q at Gold Creek	
Appdx. Table 4-A-3	pg. 4-A-70
-- Mainstem Q required to breach the upstream head of Slough 20	
Table 4I-3-2	pg. 45
-- Slough 20 Q vs. Mainstem Q at Gold Creek	
Appdx. Table 4-A-3	pg. 4-A-70
-- Slough 20 stage - discharge rating curve	
Fig. 4I-3-13	pg. 60
-- Slough 20 WSEL vs. Mainstem Q at at Gold Creek	
Appdx. Table 4-A-2	pg. 4-A-63
-- Aggregate type II water surface at Slough 20 vs. Mainstem Q at Gold Creek	
Fig. 4I-3-41	pg. 118
-- Water Quality Summary Table	
Appdx. Table 4-D-5	pg. 4-D-60
-- Q measurements and WSEL during 1982	
Appdx. Table 4-A-1	pg. 4-A-52
-- X-sect's of Slough 20 with WSEL at 3 mainstem discharges	
Appdx. Table 4-A-35	pg. 4-A-37
-- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	
Appdx. Table 4-A-7	pg. 4-A-179
-- Summer surface water temperature at LRX 53 - R.M. 140.1	
Appdx. Table 4-C-18	pg. 4-C-62
-- Weekly Min., Max. & x surface temps.	
Appdx. Table 4-C-42	pg. 4-C-11
-- Slough 20 sampling sites, 1982	
Appdx. Fig. 4-F-56	pg. 4-F-57
-- Slough 20 substrate, 1982	
Appdx. Fig. 4-F-57	pg. 4-F-58
-- Slough 20 ice-free areas, winter 1982-83	
Appdx. Fig. 4-F-58	pg. 4-F-59
-- Site description -	Appdx. F
pg. 4-F-197	
-- H <sub>2</sub> O Quality Data for DFH sites, 1982	
Appdx. I	pg. 4-I-1
-- H <sub>2</sub> O Quality Data during Ice Covered periods	
Appdx. Table 4-J-1	pg. 4-J-5
-- Dates when DFH sites were sampled by Food Habits Investigation Group	Table 3-2-3
pg. 39	
-- Catch of juvenile Chinook - 1982	
Table 3-3-12	pg. 93
-- Percent Frequency of invertebrate types in drift net samples taken in Slough 20, 1982	
Fig. 3-3-34	pg. 182
-- Percent Frequency of major invertebrate types in kick net samples from Slough 20	
Fig. 3-3-39	pg. 187
-- Comparison of invertebrate composition of drift nets	
Table 3-3-41	pg. 189

Tributaries: Between Talkeetna and Devil's Canyon

*-- <u>Unnamed Tributary at Head of Slough 20 R.M. 140.1</u>	pg. 74
-- Planimetric map of Unnamed Tributary	
Fig. 4I-3-12	pg. 58
-- WSEL for Unnamed Trib. vs. Mainstem Q at Gold Creek	
Table 4I-3-3	pg. 69
-- Unnamed Trib. stage - discharge rating curve	
Fig. 4I-3-22	pg. 76
-- Water Quality sampling locations	
Appdx. Table 4-D-5	pg. 4-D-61
-- Q measurements and WSEL during 1982	
Appdx. Table 4-A-1	pg. 4-A-52

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 21</u> - R.M. - 142.0	pg. 59
-- Planimetric map of Slough 21	
Fig. 4I-3-14	pg. 61
-- Mainstem Q required to breach the upstream head of Slough 21	
Table 4I-3-2	pg. 45
-- WSEL for Slough 21 vs. Mainstem Q at Gold Creek	
Appdx. Table 4-A-3	pg. 4-A-71
-- Slough 21 Q vs. Mainstem Q at Gold Creek	
Appdx. Table 4I-3-1	pg. 42
-- Slough 21 stage - discharge rating curve	
Fig. 4I-3-15	pg. 63
-- Thalweg Profile for Slough 21 Complex	
Fig. 4I-3-39	pg. 110
-- Aggregate type II water surface at Slough 21 vs. Mainstem Q at Gold Creek	
Fig. 4I-3-40	pg. 115
-- Water Quality Summary Table	
Appdx. Table 4-D-5	pg. 4-D-61
-- Summary of Provisional Water Quality Data for Sloughs 8A, 9, 16B, 19 & 21 and Mainstem Susitna R. at Gold Creek	
Appdx. Table 4-D-6	pg. 4-D-69
-- Q measurements and WSEL during 1982	
Appdx. Table 4-A-1	pg. 4-A-53
-- X-sect's of Slough 21 with WSEL at 3 slough discharges	
Appdx. Table 4-A-39	pg. 4-A-43
-- Surface area of aggregate Type II hydraulic zones at DFH sites and mainstem Susitna R. discharges	
Appdx. Table 4-A-7	pg. 4-A-179
-- Depths & Velocities associated with Chum Salmon Redds in 4 sloughs at 3 discharges	
Appdx. Table 4-B-18	pg. 4-B-90
-- Hydraulic habitat variables collected at Chum Redds	
Appdx. Table 4-B-20	pg. 4-B-95
-- Hydraulic habitat variables collected at Sockeye Redds	
Appdx. Table 4-B-21	pg. 4-B-99

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 21</u> (continued)	- R.M. - 142.0	
-- Summer surface water temperature at Slough 21	Appdx. Table 4-C-19	pg. 4-C-64
-- Weekly Min., Max. & x surface temps.	Appdx. Table 4-C-83	pg. 4-C-112
-- Datapod intragravel and surface temps. for Slough 21 - mouth	Appdx. Table 4-C-56	pg. 4-C-182
-- Datapod intragravel and surface temps. for Slough 21-upper area	Appdx. Table 4-C-57	pg. 4-C-188
-- Mean intragravel & surface water temps. - datapod summary at Slough 21 - mouth, R.M. 141.8	Appdx. Table 4-C-64	pg. 4-C-217
-- Mean intragravel & surface water temps. - datapod summary at Slough 21 - upper 142.	Appdx. Table 4-C-65	pg. 4-C-219
-- Thermograph data summary, winter surface temps. at Slough 21 - Mouth - R.M. 142.0	Appdx. Table 4-C-71	pg. 4-C-240
-- Thermograph data summary, winter surface temps. at Slough 21 - Middle - R.M. 142.0	Appdx. Table 4-C-72	pg. 4-C-244
-- Thermograph data summary, winter intragravel water temps. at Slough 21 - Mouth - R.M. 142.0		
-- Weekly Min., Max. & x surface temps. at Slough 21 - Mouth	Appdx. Table 4-C-82	pg. 4-C-266
-- Weekly Min., Max. & x surface temps. at Slough 21 - Middle	Appdx. Table 4-C-83	pg. 4-C-267
-- Weekly Min., Max. & x intragravel water temps at Slough 21 Mouth	Appdx. Table 4-C-87	pg. 4-C-271
-- Instantaneous intragravel water temps. obtained at salmon spawning spawning redds in Slough 21	Appdx. Table 4-C-91	pg. 4-C-276
-- Temp. (°C), specific conductance (umhos/cm) abd depth (ft.) collected at specified locations in Slough 21, October 5, 1982	Appdx. Table 4-D-11	pg. 4-D-92
-- Surface & intragravel temps. (°C) & related data (ft) collected along study transects in Slough 21, October 1-5, 1982	Appdx. Table 4-D-14	pg. 4-D-95
-- Head pin elevations in Slough 21	Appdx. Table 4-E-45	pg. 4-E-57
-- Cross section elevations in Transect 1	Appdx. Table 4-E-46	pg. 4-E-58
-- Cross section elevations in Transect 2	Appdx. Table 4-E-47	pg. 4-E-59
-- Cross section elevations in Transect 3	Appdx. Table 4-E-48	pg. 4-E-60
-- Cross section elevations in Transect 4	Appdx. Table 4-E-49	pg. 4-E-61

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 21</u> (continued)	- R.M. - 142.0	
-- Cross section elevations in Transect 5	Appdx. Table 4-E-50	pg. 4-E-62
-- Cross section elevations in Transect 6	Appdx. Table 4-E-51	pg. 4-E-63
-- Cross section elevations in Transect 7	Appdx. Table 4-E-52	pg. 4-E-64
-- Cross section elevations in Transect 8	Appdx. Table 4-E-53	pg. 4-E-65
-- Data (ft) for streambed (thalweg) profile of Slough 21	Appdx. Table 4-E-54	pg. 4-E-66 thru 4-E-69
-- Data (ft) for streambed (thalweg) profile of side-channel of Slough 21	Appdx. Table 4-E-55	pg. 4-E-70
-- Data (ft) for streambed (thalweg) profile of right fork of Slough 21	Appdx. Table 4-E-56	pg. 4-E-71
-- Slough 21 sampling sites, 1982	Appdx. Table 4-F-59	pg. 4-F-60
-- Slough 21 substrate, 1982	Appdx. Table 4-F-60	pg. 4-F-61
-- Slough 21 upwelling/seepage, 1982	Appdx. Table 4-F-61	pg. 4-F-62
-- Slough 21 ice-free areas, winter 1982-83	Appdx. Table 4-F-62	pg. 4-F-63
-- Slough 21 Complex ice-free areas, winter 1982-83	Appdx. Table 4-F-63	pg. 4-F-64
-- Slough 21 spawning areas, 1982	Appdx. Table 4-F-64	pg. 4-F-65
-- Slough 21 redd locations, 1982	Appdx. Table 4-F-65	pg. 4-F-66
-- Seepage of Ground Water sources into Slough 21	Plate 4II-3-3	pg. 246
-- Upwelling ground water in silted area of Slough 21	Plate 4II-3-4	pg. 247
-- Data summary of intragravel temps. at study transects - Sept. 30 - Oct. 5, 1982	Table 4II-3-3	pg. 250
-- Data summary of intragravel temps. Oct. 1-5, 1982		
-- Water depths & velocities of Slough 21 transects at 3 discharges	Fig. 4II-3-6	pg. 265
-- Water depths & velocities available & utilized for chum salmon redds in three sloughs during Aug. 25-26 & Sept. 2-7, 1982	Fig. 4II-3-7	pg. 266
-- Chum salmon spawning in silted area of Slough 21	Plate 4II-4-1	pg. 296
-- Numbers of live salmon counted in Aug. & Sept. in sloughs of Susitna	Fig. 4II-4-1	pg. 297
-- Site description -	Appdx. F	pg. 4-F-203
-- H <sub>2</sub> O Quality Data for DFH sites, 1982	Appdx. I	pg. 4-I-1



Side Sloughs: between Talkeetna and Devils Canyon

\* Slough 21 (continued) - R.M. - 142.0

-- H <sub>2</sub> O Quality Data during Ice Covered period	Appdx. Table 4-J-1	pg. 4-J-5
-- Dates when DFH sites were sampled by Food Habits Investigation Group	Table 3-2-3	pg. 39
-- Minnow trap set for Juvenile salmon	Plate 3-2-10	pg. 40
-- Invertebrate drift net sampling - Slough 21	Plate 3-2-12	pg. 44
-- Catch of juvenile Chinook - 1982	Table 3-3-12	pg. 93
-- Stomach contents of Chinook Salmon juveniles collected in Slough 21, 1982		pg. 167
-- Percent Frequency of invertebrate types in drift net samples taken in Slough 21, 1982	Fig. 3-3-35	pg. 183
-- Percent Frequency of major invertebrate types in kick net samples from Slough 21	Fig. 3-3-39	pg. 187
-- Comparison of invertebrate composition of drift nets	Table 3-3-41	pg. 189
-- Electivity values for invertebrates found in stomach contents of chinook juveniles at Slough 21 in August 1982	Appdx. Table 3-C-7	pg. C-7
-- Electivity values for invertebrates found in stomach contents of chinook juveniles at Slough 21 in September 1982	Appdx. Table 3-C-8	pg. C-8

Side Sloughs: between Talkeetna and Devils Canyon

* <u>Slough 22</u> - R.M. - 144.3	pg. 64
-- Planimetric map of Slough 22	
Fig. 4I-3-16	pg. 65
-- Mainstem Q required to breach the upstream head of Slough 22	Table 4I-3-2
	pg. 45
-- WSEL for Slough 22 vs. Mainstem Q at Gold Creek	Appdx. Table 4-A-3
	pg. 4-A-73
-- Slough 22 Q vs. Mainstem Q at Gold Creek	Appdx. Table 4I-3-1
	pg. 42
-- Slough 22 stage - discharge rating curve	Fig. 4I-3-17
	pg. 67
-- Aggregate type II water surface at Slough 22 vs. Mainstem Q at Gold Creek	Fig. 4I-3-41
	pg. 118
-- Water Quality Summary Table	Appdx. Table 4-D-5
	pg. 4-D-62
-- Q mainstem and WSEL during 1982	Appdx. Table 4-A-1
	pg. 4-A-52
-- X-sect's of Slough 22 with WSEL at 3 mainstem discharges	Appdx. Table 4-A-36
	pg. 4-A-38
-- Slough 22 sampling sites, 1982	Appdx. Table 4-F-66
	pg. 4-F-67
-- Slough 22 substrate, 1982	Appdx. Table 4-F-67
	pg. 4-F-68
-- Slough 22 upwelling/seepage, 1982	Appdx. Table 4-F-68
	pg. 4-F-69
-- Slough 22 ice-free areas, winter 1982-83	Appdx. Table 4-F-69
	pg. 4-F-70
-- H <sub>2</sub> O Quality Data during Ice Covered season	Appdx. Table 4-J-1
	pg. 4-J-5

Tributaries: Between Talkeetna and Devil's Canyon

*-- <u>Portage Creek</u>	- R.M. 148.8	pg. 74
-- Planimetric map of Portage Creek		
	Fig. 4I-3-24	pg. 78
-- Portage Creek Continuous Discharge		
	Appdx. Table 4-A-5	pg. 4-A-124
-- Portage Creek: Gage Height, Discharge and Surface Water Temperature	Table 4I-3-5	pg. 82
-- Portage Creek stage - discharge rating curve		
	Fig. 4I-3-25	pg. 84
-- Water Quality Summary Table		
	Appdx. Table 4-D-5	pg. 4-D-63
-- Summer surface water temperatures		
	Appdx. Table 4-C-20	pg. 4-C-68
-- Weekly Min., Max. & x surface temps.		
	Appdx. Table 4-C-44	pg. 4-C-113
-- Site description -	Appdx. F	pg. 4-F-210
-- H <sub>2</sub> O Quality Data for DFH sites, 1982		
	Appdx. I	pg. 4-I-1
-- H <sub>2</sub> O Quality Data during Ice Covered season		
	Appdx. Table 4-J-1	pg. 4-J-5
-- Catch of juvenile Chinook - 1982		
	Table 3-3-12	pg. 93
-- Upper Indian R. & Upper Portae Creek Studies		
	Appdx. Table 3-D-1	pg. D-1
-- Monthly habitat data at SFH sites on Indian R. & Poratge Creek, June - Sept., 1982		
	Appdx. Table 3-D-1	pg. D-3

Impoundment Studies

\*—Portage Creek - R.M. 152.4

-- Water Quality Summary Table

Appdx. Table 4-D-5

pg. 4-D-63

1057B

Impoundment Studies

\*—Devil Creek Mouth

-- Water Quality Summary Table

Appdx. Table 4-D-5

pg. 4-D-64

Impoundment Studies

\*—Fog Creek - R.M. 176.7

-- Water Quality Summary Table

Appdx. Table 4-D-5

pg. 4-D-63

-- Q measurements and WSEL during 1982

Appdx. Table 4-A-1

pg. 4-A-55

Impoundment Studies

\*—Tsusena Creek Mouth - R.M. 181.3

-- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-63
-- Q measurements and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-55
-- Summer surface water temperatures	Appdx. Table 4-C-21	pg. 4-C-71
-- Weekly Min., Max. & x surface temps.	Appdx. Table 4-C-45	pg. 4-C-114

Impoundment Studies

\*—Deadman Creek Mouth - R.M. 186.7

-- Water Quality Summary Table

Appdx. Table 4-D-5

pg. 4-D-64

-- Q measurements and WSEL during 1982

Appdx. Table 4-A-1

pg. 4-A-55



Impoundment Studies

\*--Watana Creek - R.M. 194.1

-- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-65
-- Q measurements and WSEL during 1982	Appdx. Table 4-A-1	pg. 4-A-55
-- Summer surface water temperatures	Appdx. Table 4-C-22	pg. 4-C-76
-- Weekly Min., Max. & x surface temps.	Appdx. Table 4-C-46	pg. 4-C-115

Impoundment Studies

\*—Kosina Creek - R.M. 206.8

-- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-66
-- Summer surface water temperatures	Appdx. Table 4-C-23	pg. 4-C-81
-- Weekly Min., Max. & x surface temps.	Appdx. Table 4-C-47	pg. 4-C-116

Impoundment Studies

\*—Jay Creek

- Water Quality Summary Table Appdx. Table 4-D-5 pg. 4-D-66
- Q measurements and WSEL during 1982 Appdx. Table 4-A-1 pg. 4-A-55

Impoundment Studies

\*—Goose Creek - R.M. 231.3

-- Summer surface water temperatures

Appdx. Table 4-C-24

pg. 4-C-86

-- Weekly Min., Max. & x surface temps.

Appdx. Table 4-C-48

pg. 4-C-117

Impoundment Studies

\*--Oshetna River - R.M. 233.4

-- Water Quality Summary Table	Appdx. Table 4-D-5	pg. 4-D-68
-- Summer surface water temperatures	Appdx. Table 4-C-25	pg. 4-C-91
-- Weekly Min., Max. & x surface temps.	Appdx. Table 4-C-49	pg. 4-C-118
-- H <sub>2</sub> O Quality Data during Ice Covered season	Appdx. Table 4-J-1	pg. 4-J-5

Index

to

Miscellaneous

Fishing Gear Data

ADFG Data Reports - Phase II, Vol.'s 2, 3 and 4

## Fishing Gear Data

--Top view of downstream migrant trap superstructure,  
1982

Appdx. Fig. 3-F-1

Pg. F-2

--Side view of the points of attachment for pontoon  
floats and the safety railing on the downstream  
migrant trap, 1982

Appdx. Fig. 3-F-2

Pg. F-3

--Side view of the incline plane on the downstream  
migrant trap, 1982

Appdx. Fig. 3-F-3

Pg. F-4

--Bottom profile of Susitna River at R.M. 103.3  
U.S.G.S. preliminary data, 37, 348 cfs. discharge  
on June 22, 1982

Appdx. Fig. 3-F-4

Pg. F-6

--Sampling effort by gear type at DFH sites between  
Goose Crk. 2 & Portage Creek

Appdx. Table 3-A-1

pg. A-2

--Sampling effort by gear type at SFH sites below  
Devil Canyon, 1982

Appdx. Table 3-A-2

pg. A-11

--Summary of radio telemetry studies of rainbow  
trout and burbot between Cook Inlet and  
Devil Canyon

Appdx. Table 3-A-3

pg. A-34

--Sampling effort by gear units of DFH site, 1982

Appdx. Table 3-A-4

pg. A-35

--Sampling effort by gear units of SFH site, 1982

Appdx. Table 3-A-5

pg. A-36

--Fishwheel effort in hours by 2-week sampling  
period, 1982

Appdx. Table 3-A-6

pg. A-37

--Downstream migrant trap daily catch by species for resident fish, 1982	Appdx. Table 3-B-1	pg. B-2
--Recorded measurements of turbidity taken at the downstream migrant trap (R.M. 103.0), 1982	Appdx. Table 3-F-1	pg. F-8
--The effect of fishing time on Minnow Trap Catch	Appdx. Table 3-E-1	pg. E-1
--Downstream migrant trap design, construction and placement	Appdx. Table 3-F-1	pg. F-1
--Invertebrate taxa present in Drift nets - 1982	Appdx. Table 3-C-24	pg. C-24
--Invertebrate taxa present in kick screens - 1982	Appdx. Table 3-C-25	pg. C-25
--Minnow traps - cumulative catch of all species in 30 traps over 24 hours., Whiskers Creek and Slough, June 21-22, 1982	Appdx. Table 3-E-1	pg. E-4
--Minnow traps - summary by zone - 10 traps per zone, over 24 hours., Whiskers Creek and Slough, June 21-22, 1982	Appdx. Table 3-E-2	pg. E-5



Appendix Figure 2-A-1	Susitna Station with sonar and fishwheel locations defined	pg. A1
Appendix Figure 2-A-2	Yentna Station with sonar and fishwheel locations defined	pg. A2
Appendix Figure 2-A-3	Sunshine Station with sonar and fishwheel locations defined	pg. A3
Appendix Figure 2-A-4	Talkeetna Station with sonar and fishwheel locations defined	pg. A4
Appendix Figure 2-A-5	Curry Station with sonar and fishwheel locations defined	pg. A5
Table 2-3-9	Summary of fishwheel catches of species and sampling locations	pg. 53
Appendix Figure 2-B-8	Bottom profile at Susitna and Yentna stations 1982 sonar sites	pg. A55
Appendix Figure 2-B-9	Bottom profile at Sunshine and Talkeetna stations 1982 sonar sites	pg. A56
Figure 2-3-10	Set gill net fishing locations on main channel Susitna River in lower Devil Canyon	pg. 72
Table 2-2-1	Anadromous adult salmon sampling location, gear type and operational dates on mainstem Susitna and Yentna rivers	pg. 9

Table 2-2-2	Tag type and color code used at Sunshine, Talkeetna and Curry Stations	pg. 13
Table 2-3-26	Apportioned sonar counts by species and sampling location	pg. 91
Table 2-3-18	Results of set gill netting in Susitna River mainstem between Devil Canyon and Portage Creek	pg. 73
Table 2-3-19	Electroshocking catch results in lower Devil Canyon	pg. 73
Appendix Table 2-F-2	Summary of mainstem Susitna River sampling using gill nets and visual inspection	pg. A246
Appendix Table 2-F-3	Evaluation of tag loss based on spawning surveys conducted between Sunshine Station and Devil Canyon	pg. A249
Appendix Table 2-B-7	Sector distribution of sonar counts, adjusted for debris, east bank, Susitna Station	pg. A29
Appendix Table 2-B-8	Sector distribution of sonar counts, adjusted for debris, west bank, Susitna Station	pg. A32
Appendix Table 2-B-9	Sector distribution of sonar counts, adjusted for debris, north bank, Yentna Station	pg. A35

Appendix Table 2-B-10	Sector distribution of sonar counts, adjusted for debris, south bank, Yentna Station	pg. A38
Appendix Table 2-B-11	Sector distribution of sonar counts, adjusted for debris, east bank, Sunshine Station	pg. A41
Appendix Table 2-B-12	Sector distribution of sonar counts, adjusted for debris, west bank, Sunshine Station	pg. A44
Appendix Table 2-B-13	Sector distribution of sonar counts, adjusted for debris, east bank, Talkeetna Station	pg. A47
Appendix Table 2-B-14	Sector distribution of sonar counts, adjusted for debris, west bank, Talkeetna Station	pg. A50

Data Index

By

Fish Species

For

ADFG Data Reports - Phase II, Vol.'s 2, 3 and 4

## Chum Salmon - Results

- Estuary to Talkeetna	Phase II, Vol. 2	pg. 121
Main Channel Escapement	Phase II, Vol. 2	pg. 121
Main Channel Spawning	Phase II, Vol. 2	pg. 130
- Talkeetna to Upper Devil Canyon	Phase II, Vol. 2	pg. 130
Main Channel Escapement	Phase II, Vol. 2	pg. 130
Radio Telemetry	Phase II, Vol. 2	pg. 135
Lower Devil Canyon Milling	Phase II, Vol. 2	pg. 138
Spawning	Phase II, Vol. 2	pg. 140
Main Channel	Phase II, Vol. 2	pg. 140
Sloughs & Streams	Phase II, Vol. 2	pg. 141

## Chum Salmon - Summary

- Chum Salmon	Phase II, Vol. 2	pg. 209
Estuary to Talkeetna	Phase II, Vol. 2	pg. 209
Main Channel Escapement	Phase II, Vol. 2	pg. 209
Main Channel Spawning	Phase II, Vol. 2	pg. 212
- Talkeetna to Upper Devil Canyon	Phase II, Vol. 2	pg. 213
Main Channel Escapement	Phase II, Vol. 2	pg. 213
Radio Telemetry	Phase II, Vol. 2	pg. 215
Lower Devil Canyon Milling	Phase II, Vol. 2	pg. 217
Spawning	Phase II, Vol. 2	pg. 218
Main Channel	Phase II, Vol. 2	pg. 218
Sloughs and Streams	Phase II, Vol. 2	pg. 218
- Mean hourly & cumulative percent catch of chum salmon by two periods at Susitna Station		pg. 123
- Mean hourly and cumulative percent catch of <u>chum</u> salmon by two periods at Yentna and Sunshine stations		pg. 124
- Age composition of fishwheel intercepted <u>chum</u> salmon at Susitna, Yentna, Sunshine, Talkeetna and Curry		pg. 129
- Mean hourly and cumulative percent fishwheel catch of <u>chum</u> salmon by two day periods at Talkeetna & Curry		pg. 132
- Migrational rates of <u>chum</u> salmon between (a) Sunshine & Talkeetna stations, (b) Talkeetna & Curry stations and (c) Sunshine & Curry stations based on fishwheel recaptures		pg. 133
- Movements of Talkeetna and Curry stations radio tagged <u>chum</u> salmon in the Susitna River		pg. 137
- Migrational timing of <u>chum</u> salmon at selected sampling locations in the Susitna River basin in 1981 & 1982		pg. 210
- <u>Chum</u> salmon live counts by date in (a) Sloughs #9, & 9B and (b) Slough No. 11 for 1981 and 1982		pg. 220
- <u>Chum</u> salmon live counts by date in (a) Slough #21 and (b) Lane Creek for 1981 and 1982		pg. 221
- Daily sonar counts of <u>chum</u> salmon at Susitna, Yentna, Sunshine & Talkeetna stations	Phase II, Vol. 2 Part B Appdx. Fig. 2-B-3	pg. A8
- Length frequencies of <u>chum</u> salmon sampled from fishwheel catches at Susitna Station		pg. A 102

## Chum Salmon

- Length frequencies of chum salmon sampled from fishwheel catches at Yentna Station  
Appdx. Fig. 2-D-19 pg. A 103
- Length frequencies of chum salmon sampled from fishwheel catches from Sunshine Station pg. A 104
- Length frequencies of chum salmon sampled from fishwheel catches at Talkeetna Station pg. A 105
- Length frequencies of chum salmon sampled from fishwheel catches at Curry Station pg. A 106
- Movements of radio tagged chum salmon #600-3  
Phase II, Vol. 2 Part B  
Appdx. Fig. 2-E-17 pg. A 141
- Movements of radio tagged chum salmon #610-3 pg. A 143
- Movements of radio tagged chum salmon #620-2 pg. A 144
- Movements of radio tagged chum salmon #620-3 pg. A 146
- Movements of radio tagged chum salmon #630-2 pg. A 148
- Movements of radio tagged chum salmon #630-3A pg. A 149
- Movements of radio tagged chum salmon #630-3B pg. A 151
- Movements of radio tagged chum salmon #640-2 pg. A 153
- Movements of radio tagged chum salmon #650-2 pg. A 154
- Movements of radio tagged chum salmon #660-1 pg. A 156
- Movements of radio tagged chum salmon #660-2 pg. A 157
- Movements of radio tagged chum salmon #670-2A pg. A 159
- Movements of radio tagged chum salmon #670-2B pg. A 161
- Movements of radio tagged chum salmon #670-3 pg. A 162
- Movements of radio tagged chum salmon #680-2 pg. A.164
- Movements of radio tagged chum salmon #700-2 pg. A 165
- Movements of radio tagged chum salmon #700-3 pg. A 167
- Movements of radio tagged chum salmon #710-2 pg. A 169
- Movements of radio tagged chum salmon #710-3 pg. A 170
- Movements of radio tagged chum salmon #720-1 pg. A 172

Chum Salmon (continued)

- Mainstem Susitna River chum salmon spawning area at RM 114.4 approximately  
Phase II, Vol. 2, Part B  
Appdx. Fig. 2-G-4 pg. A 257
- Mainstem Susitna River chum salmon area at -RM 128.6 pg. A 258
- Mainstem Susitna River chum salmon area at -RM 129.8 pg. A 259
- Mainstem Susitna River chum salmon area at -RM 131.3 pg. A 260
- Mainstem Susitna River chum salmon area at -RM 136.0 pg. A 261
- Mainstem Susitna River chum salmon area at -RM 137.4-138.2 pg. A 262
- Mainstem Susitna River chum salmon area at -RM 138.9 pg. A 263
- Mainstem Susitna River chum salmon area at -RM 143.3 pg. A 264
- Mainstem Susitna River chum salmon area at -RM 148.2 pg. A 265
  
- Chum salmon spawning ground surveys of selected spawning areas and resultant tagged to untagged ratios  
Appendix 2-G-5 pg. 288
- Depths and Velocities associated with Chum Salmon redds at 4 sloughs (8A, 9, 11 & 21) at 3 discharges  
Appendix 4-B-18 pg. 4-B-90
- Hydraulic habitat variables collected at Chum redds  
Appdx. Table 4-B-20 pg. 4-B-92
- Location of the mainstem chum salmon spawning sites on the upper Susitna  
Fig. 4II-3-1 pg. 235
- Chum Salmon spawning area on the Susitna at R.M. 114.4  
Plate 4II-3-1 pg. 237
- Chum Salmon spawning area on the Susitna River at R.M 128.6  
Sept. 7, 1982 Plate 4II-3-2 pg. 238
- Water Quality at Chum Salmon spawning sites on the Susitna  
Sept. 4-14, 1982 Table 4II-3-1 pg. 239
- Water Depths, velocities, and substrates at Chum Salmon spawning sites on Susitna Sept. 4-14, 1982  
Table 4II-3-2 pg. 240

Chum Salmon (continued)

- Chum Salmon spawning areas at R.M. 114.4	Appdx. Fig. 4-F-4	pg. 4-F-5
- Chum Salmon spawning areas at R.M. 136.0	Appdx. Fig. 4-F-5	pg. 4-F-6
- Chum Salmon spawning area at R.M. 148.2	Appdx. Fig. 4-F-6	pg. 4-F-7
- Chum Salmon spawning area at R.M. 138.9	Appdx. Fig. 4-F-7	pg. 4-F-8
- Chum Salmon spawning areas at R.M. 137.4	Appdx. Fig. 4-F-8	pg. 4-F-9
- Chum Salmon spawning areas at R.M. 128.6	Appdx. Fig. 4-F-9	pg. 4-F-10
- Chum Salmon spawning area at R.M. 131.3	Appdx. Fig. 4-F-10	pg. 4-F-11
- Chum Salmon spawning area at R.M. 129.8	Appdx. Fig. 4-F-12	pg. 4-F-12
- Chum Salmon spawning in silted area of Slough 21		
	Plate 4II-4-1	pg. 296
- Numbers of live salmon counted in Aug. and Sept. in 1982 in Sloughs in Susitna	Fig. 4II-4-1	pg. 297
- Chum salmon stranded in riffle during low flow in Slough 9		
	Plate 4II-4-1	pg. 312
- Chum salmon spawning ground surveys of selected spawning areas and resultant tagged to untagged ratios.		
	Appdx. Table 2-G-5	pg. 288
- Catch Data for DFH sites, 1982	Appdx. G	pg. 4-G-1
- CPUE Data, 1982	Appdx. H	pg. 4-H-1
- Seasonal variation in distribution and relative abundance of chum salmon juveniles at DFH sites - 1982		
	Fig. 3-3-9	pg. 112
- Total catch of juvenile Chum by all gear types at DFH sites between Goose Creek and Chulitna River - 1982.		
	Table 3-3-21	pg. 113
- Total catch of juvenile Chum by all gear types at DFH sites between Chulitna R and Portage Creek -1982		
	Table 3-3-22	pg. 115



Chum Salmon (continued)

- Catch of juvenile Chums by two week period for Goose Creek -  
Chulitna R. reach, and Chulitna R. - Portage Creek  
reach - 1982 Fig. 3-3-10 pg. 116
- Percentages of juvenile Chum caught in two reaches of  
Susitna R. - 1982 Fig. 3-3-11 pg. 117
- Percent of total catch, by all gear types, of juvenile Chum  
salmon between Cook Inlet and Devil Canyon, 1982  
Fig. 3-3-18 pg. 148
- Downstream migrant trap catch of juvenile Coho Salmon - 1982  
Fig. 3-3-19 pg. 149
- Lengths of Chum fry by river reach - 1982  
3-3-33 Fig. pg. 152
- Adjusted cumulative catch data by species for juvenile  
salmon captured in downstream migrant trap. Fig. 3-4-9  
pg. 255
- Percent length frequency distribution of juvenile Chum, by  
two week period, above the Chulitna R. confluence,  
June - Aug. 1982. Appdx. Fig. 3-B-5 pg. B-42
- Percent length frequency distribution of juvenile Chum, by  
two week period, below the Chulitna R. Confluence, June, 1982.  
Appdx. Fig. 3-B-6 pg. B-45
- Catch of juvenile Chum at DFH sites, between Moose Creek 2  
and Portage Creek, by gear type, May - Oct. 1982  
Appdx. Table 3-A-80, pg. A-226
- Catch of juvenile Chum at SFH, by gear type, below Devil  
Canyon, May - Oct., 1982 Appdx. Table 3-A-81, pg. A-228
- Downstream migrant trap, daily and cumulative catch and  
catch per hour of juvenile Chum, June - Oct.  
Appdx. Table 3-B-4 pg. B-14

## Coho Salmon - Results

- Estuary to Talkeetna	Phase II, Vol. 2	pg. 144
Main Channel Escapement	Phase II, Vol. 2	pg. 144
Main Channel Spawning	Phase II, Vol. 2	pg. 152
- Talkeetna to Upper Devel Canyon	Phase II, Vol. 2	pg. 152
Main Channel Escapement	Phase II, Vol. 2	pg. 152
Radio Telemetry	Phase II, Vol. 2	pg. 155
Lower Devil Canyon Milling	Phase II, Vol. 2	pg. 161
Spawning	Phase II, Vol. 2	pg. 164
Main Channel	Phase II, Vol. 2	pg. 164
Sloughs & Streams	Phase II, Vol. 2	pg. 164

## Coho Salmon - Summary

- Estuary to Talkeetna	Phase II, Vol. 2	pg. 222
Main Channel Escapement	Phase II, Vol. 2	pg. 222
Main Channel Spawning	Phase II, Vol. 2	pg. 227
- Talkeetna to Upper Devil Canyon	Phase II, Vol. 2	pg. 227
Main Channel Escapement	Phase II, Vol. 2	pg. 227
Radio Telemetry	Phase II, Vol. 2	pg. 230
Lower Devil Canyon Milling	Phase II, Vol. 2	pg. 231
Spawning	Phase II, Vol. 2	pg. 231
Main Channel	Phase II, Vol. 2	pg. 211
Sloughs and Streams	Phase II, Vol. 2	pg. 232

- Daily sonar counts of Coho Salmon at Susitna, Yentna, Sunshine and Talkeetna Stations	Phase II, Vol. 2, Part B Appdx. Fig 2-B-4	pg. A9
--	--	--------

## Coho Salmon

- Length frequencies of coho salmon sampled from fishwheel catches at Susitna Station Phase II Vol. 2, Part B  
Appendix Fig. 2-D-23 pg. A 107
- Length frequencies of coho salmon from Yentna  
Appendix Fig. 2-D-24 pg. A 108
- Length frequencies of coho salmon from Sunshine  
Appendix Fig. 2-D-25 pg. A 109
- Length frequencies of coho salmon from Talkeetna  
Appendix Fig. 2-D-26 pg. A 110
- Length frequencies of coho salmon from Curry  
Appendix Fig. 2-D-27 pg. A 111
- Movements of radio tagged coho salmon #600-1 Appdx. Fig. 2-D-27 pg. A 174
- Movements of radio tagged coho salmon #600-2 Appdx. Fig. 2-D-27 pg. A 175
- Movements of radio tagged coho salmon #610-1 Appdx. Fig. 2-D-27 pg. A 178
- Movements of radio tagged coho salmon #610-3 Appdx. Fig. 2-D-27 pg. A 179
- Movements of radio tagged coho salmon #620-3A Appdx. Fig. 2-D-27 pg. A 181
- Movements of radio tagged coho salmon #630-1 Appdx. Fig. 2-D-27 pg. A 183
- Movements of radio tagged coho salmon #640-1 Appdx. Fig. 2-D-27 pg. A 184
- Movements of radio tagged coho salmon #640-3 Appdx. Fig. 2-D-27 pg. A 186
- Movements of radio tagged coho salmon #650-1 Appdx. Fig. 2-D-27 pg. A 188
- Movements of radio tagged coho salmon #650-3 Appdx. Fig. 2-D-27 pg. A 190
- Movements of radio tagged coho salmon #660-3A Appdx. Fig. 2-D-27 pg. A 192
- Movements of radio tagged coho salmon #680-3 Appdx. Fig. 2-D-27 pg. A 193
- Movements of radio tagged coho salmon #700-1 Appdx. Fig. 2-D-27 pg. A 195
- Movements of radio tagged coho salmon #710-2 Appdx. Fig. 2-E-50 pg. A 197
- Movements of radio tagged coho salmon #710-2, Appdx. Fig. 2-E-50 pg. A 198

# Coho Salamon (Continued)

- Coho salmon spawning ground surveys of selected spawning areas and resultant tagged to untagged ratios  
Phase II, Vol. 2, Part B,  
Appdx. Table 2-G-6 pg. A292
- Coho salmon spawning ground surveys of selected spawning areas and resultant tagged to untagged ratios  
Appdx. Table 2-G-6, pg. 292
- Catch Data for DFH sites, 1982 Appdx. G pg. 4-G-1
- CPUE for 1982 Appdx. H pg. 4-H-1
- Seasonal distribution and relative abundance of Coho juveniles at DFH sites - 1982 Fig. 3-3-6 pg. 102
- Catch of juvenile Coho at DFH sites between Goose Creek 2 and Chulitna R. - 1982 Table 3-3-16 pg. 103
- Catch of juvenile Coho at DFH sites between Chulitna R. and Portage Crk. - 1982 Table 3-3-17 pg. 104
- Catch of juvenile Coho by two-week periods for two reaches on the Susitna R. - 1982 Fig. 3-3-7 pg. 106
- Minnow trap catches of juvenile Coho at DFH sites between Goose Crk. 2 and Chulitna R. - 1982 Table 3-3-18 pg. 107
- Minnow trap catches of juvenile Coho at DFH sites between the Chulitna R. and Portage Creek - 1982 Table 3-3-19 pg. 108
- Minnow trap catches of juvenile Coho at DFH sites between Goose Crk. 2 and Portage Crk. - 1982 Table 3-3-20 pg. 109
- Mean minnow trap catch of juvenile Coho at DFHk sites by reach between Goose Creek 2 and Portage Creek - 1982  
Fig. 3-3-8 pg. 110
- Downstream migrant trap catch rates of juvenile Cohos - 1982  
Fig. 3-3-17 pg. 139
- Lengths by age class of juvenile Cohos - 1982  
Table 3-3-29 pg. 141

Coho Salamon (Continued)

- Scale analyses of age class composition of juvenile Cohos - 1982                      Table 3-3-30                      pg. 142
- Lengths of 0+ and 1+ juvenile Cohos between Chulitna R. confluence and Devil Canyon - 1982                      Table 3-3-31                      pg. 144
- Lengths of 0+ and 1+ juvenile Cohos between Cook Inlet and Chulitna R. confluence - 1982                      Table 3-3-32                      pg. 146
- Stomach contents of Coho juveniles collected in Slough 8A - 1982                      Fig. 3-3-26                      pg. 170
- Stomach contents of Coho juveniles collected in Slough 11 - 1982                      Fig. 3-3-27                      pg. 171
- Stomach contents of Coho juveniles collected in Fourth of July Creek - 1982                      Fig. 3-3-28                      pg. 172
- Stomach contents of Coho juveniles collected in Indian River - 1982                      Fig. 3-3-29                      pg. 173
- Comparison of food habits of co-occurring juvenile salmon, 1982                      Table 3-3-39                      pg. 176
- Adjusted cumulative catch data by species for juvenile salmon captured in downstream migrant trap.                      Fig. 3-4-9                      pg. 255
- Percent length frequency distribution for juvenile Chinook by two-week period, above the Chulitna R. confluence, June-Oct. 1982                      Appdx. Fig. 3-B-3                      pg. B-33
- Percent length frequency distribution for juvenile Chinook by two-week period, below the Chulitna R. confluence, June-Oct. 1982                      Appdx. Fig. 3-B-4                      pg. B-38
- Coho salmon juvenile catch at DFH sites by gear type; between Goose Crk. 2 and Portage Crk., May-Oct. 1982                      Appdx. Table 3-A-75                      pg. A-218
- CPUE of juvenile Coho at DFH sites between Goose Crk. 2 and Portage Crk by gear type, May-Oct. 1982                      Appdx. Table 3-A-75                      pg. A-218
- Catch of juvenile Coho at SFH sites, by gear type, below Devil Canyon, May-Oct. 1982                      Appdx. Table 3-A-76                      pg. A-220
- CPUE of juvenile Coho at DFH sites, by gear type, below Devil Canyon, May-Oct. 1982                      Appdx. Table 3-A-77                      pg. A-222

Coho Salamon (Continued)

- Catch by age class of juvenile Coho at DFH sites, between  
Goose Crk 2 and Slough 22, Feb-Apr 1982  
Appdx. Table 3-A-78 pg. A-224
- Total catch by age class of Coho salmon at SFH sites between  
the Deshka R. and Slough 22, Feb-Apr 1982  
Appdx. Table 3-A-79 pg. A-225
- Coho juveniles, downstream migrant trap daily cumulative  
catch and catch per hour, June-Oct 1982  
Appdx. Table 3-B-3 pg. B-10
- Invertebrate taxa present in stomach contents of Coho juveniles,  
1982 Appdx. Table 3-C-2 pg. C-2
- Electivity values for invertebrates in stomachs of Coho  
juveniles at Fourth of July Crk, Sept. 1982  
Appdx. Table 3-C-10 pg. C-10
- Electivity values for invertebrates in stomachs of juvenile  
Coho at Slough 8A, Aug 1982  
Appdx. Table 3-C-13 pg. C-13
- Electivity values for invertebrates in stomachs of juvenile  
Coho at Slough 8A, Sept 1982  
Appdx. Table 3-C-14 pg. C-14
- Electivity values for invertebrates in stomachs of juvenile  
Coho at Slough 11, Sept 1982  
Appdx. Table 3-C-15 pg. C-15
- Electivity values for invertebrates in stomachs of juvenile  
Coho at Fourth of July Crk, Aug 1982  
Appdx. Table 3-C-15 pg. C-16
- Electivity values for invertebrates in stomachs of juvenile  
Coho at Fourth of July Crk, Sept 1982  
Appdx. Table 3-C-17 pg. C-17
- Electivity values for invertebrates in stomachs of juvenile  
Coho at Indian R., Aug 1982  
Appdx. Table 3-C-18 pg. C-18
- Electivity values for invertebrates in stomachs of juvenile  
Coho at Indian R., Sept 1982  
Appdx. Table 3-C-19 pg. C-19

## Coho Salmon (Continued)

- Separation of Coho juveniles by age class at DFH sites,  
June-Sept 1982 Appdx. Table 3-H-2 pg. H-3

## Sockeye Salmon - Results

- Estuary to Talkeetna Phase II, Vol. 2 pg. 84
  - Main Channel Escapement Phase II, Vol. 2 pg. 84
    - 1st Run Phase II, Vol. 2 pg. 84
    - 2nd Run Phase II, Vol. 2 pg. 86
  - Spawning Phase II, Vol. 2 pg. 96
    - Main Channel Phase II, Vol. 2 pg. 96
    - Sloughs and Streams Phase II, Vol. 2 pg. 96
      - 1st Run Phase II, Vol. 2 pg. 96
      - 2nd Run Phase II, Vol. 2 pg. 98
- Talkeetna to Upper Devil Canyon Phase II, Vol. 2 pg. 100
  - Main Channel Escapement Phase II, Vol. 2 pg. 100
    - 1st Run Phase II, Vol. 2 pg. 100
    - 2nd Run Phase II, Vol. 2 pg. 100
  - Lower Devil Canyon Milling Phase II, Vol. 2 pg. 105
    - Spawning Phase II, Vol. 2 pg. 106
    - Main Channel Phase II, Vol. 2 pg. 106
    - Sloughs and Streams Phase II, Vol. 2 pg. 106
  - Stock Separation Phase II, Vol. 2 pg. 108
- Daily sonar counts of sockeye salmon at Susitna, Yentna,  
Sunshine and Talkeetna stations Phase II, Vol. 2 Part B  
Appdx. Fig. 2-B-1 pg. A-6
- Sector distribution of sockeye and pink salmon passing over  
SSS station Phase II, Vol. 2 Part B  
Appdx Fig. 2-B-7 pg. A-54
- Length frequencies of sockeyes at Susitna Station  
Appdx. Fig. 2-D-6 pg. A-90

## Sockeye Salmon (Continued)

- Length frequencies of sockeyes at Yentna Station  
Appdx. Fig. 2-D-8 pg. A-91
- Length frequencies of sockeyes at Sunshine Station  
Appdx. Fig. 2-D-8 pg. A-92
- Length frequencies of 1st Run Sockeyes at Sunshine station  
Appdx. Fig. 2-D-9 pg. A-93
- Length frequencies of 2nd run Sockeyes at Sunshine Station  
Phase II, Vol. 2, Part B  
Appdx. Fig. 2-D-10 pg. A-94
- Length frequencies of Sockeye salmon at Talkeetna Station  
Phase II, Vol. 2, Part B  
Appdx. Fig. 2-D-11 pg. A-95
- Length frequencies of Sockeye salmon from Curry Station  
Phase II, Vol. 2, Part B  
Appdx. Fig. 2-D-12 pg. A-96
- Sockeye salmon spawning ground surveys of selected spawning  
areas and resultant tagged to untagged ratios  
Phase II, Vol. 2, Part B  
Appdx. Table 2-G-3 pg. A-283

## Sockeye Salmon - Summary

- Estuary to Talkeetna  
Phase II, Vol. 2 pg. 187
  - Main Channel Escapement  
Phase II, Vol. 2 pg. 187
    - 1st Run  
Phase II, Vol. 2 pg. 187
    - 2nd Run  
Phase II, Vol. 2 pg. 188
  - Spawning  
Phase II, Vol. 2 pg. 193
    - Main Channel  
Phase II, Vol. 2 pg. 193
    - Sloughs and Streams  
Phase II, Vol. 2 pg. 193
      - 1st Run  
Phase II, Vol. 2 pg. 193
      - 2nd Run  
Phase II, Vol. 2 pg. 193
- Talkeetna to Upper Devil Canyon  
Phase II, Vol. 2 pg. 193
  - Main Channel Escapement  
Phase II, Vol. 2 pg. 193
    - 1st Run  
Phase II, Vol. 2 pg. 194
    - 2nd Run  
Phase II, Vol. 2 pg. 194



## Sockeye Salmon (Continued)

Lower Devil Canyon Milling	Phase II, Vol. 2	pg. 194
Spawning Phase II, Vol. 2,	pg. 197	
Main Channel	Phase II, Vol. 2	pg. 197
Sloughs and Streams	Phase II, Vol. 2	pg. 198
Stock Separation	Phase II, Vol. 2	pg. 200
- Depths and Velocities associated with Pink salmon and Sockeye salmon in three sloughs at three discharges	Appdx. Table 4-B-19	pg. 4-B-91
- Hydraulic habitat variables collected at Sockeye Redds	Appdx. Table 4-B-21	pg. 4-B-98
- Numbers of live salmon counted in Aug and Sept 1982 in sloughs of Susitna	Fig. 4 II-4-1	pg. 297
- Sockeye salmon spawning ground surveys of selected spawning areas and resultant tagged to untagged ratios	Appdx. Table 2-G-3	pg. 283
- Catch data for DFH, 1982	Appdx. G	pg. 4-G-1
- CPUE Data for 1982	Appdx. H	pg. 4-H-1
- Seasonal variation in distribution and relative abundance of Sockeye salmon juveniles at DFH sites, 1982	Fig. 3-3-12	pg. 120
- Catch of juvenile Sockeye by all gear types at DFH sites between Goose Crk 2 and Chulitna R., 1982	Table 3-3-23	pg. 121
- Catch of juvenile Sockeye by all gear types at DFH sites between Chulitna R. and Portage Crk, 1982	Table 3-3-24	pg. 122
- Total catch of juvenile Sockeye by two-week periods for two reaches of Susitna R., 1982	Fig. 3-3-13	pg. 123
- Percentages of total catch of juvenile Sockeye caught in two reaches of the Susitna R., 1982	Fig. 3-3-14	pg. 124
- Downstream migrant trap catch rates for 3-day periods - Sockeye salmon, 1982	Fig. 3-3-20	pg. 155

Sockeye Salmon (Continued)

- Scale analyses of age class for Sockeye salmon, 1982  
Table 3-3-34 pg. 157
- Lengths of 0+ and 1+ age classes by survey period between  
Chulitna R. and Devil Canyon Sockeye salmon, 1982  
Table 3-3-35 pg. 158
- Lengths of 0+ and 1+ Sockeye salmon by survey period below  
the Chulitna R. confluence Table 3-3-36 pg. 160
- Stomach contents of Sockeye juveniles collected in Slough 8A  
Fig. 3-3-30 pg. 174
- Stomach contents of Sockeye juveniles collected in Slough 11  
Fig. 3-3-31 pg. 175
- Comparison of food habits of co-occurring juvenile salmon  
Table 3-3-39 pg. 176
- Adjusted cumulative catch data by species for juvenile salmon  
caught in downstream migrant trap.  
Fig. 3-4-9 pg. 255
- Percent length frequency distribution of juvenile Sockeye,  
by two-week period, above the Chulitna R. confluence,  
June-Oct 1982 Appdx. Fig. 3-B-7 pg. B-46
- Percent length frequency distribution, by two-week period,  
of juvenile Sockeye below the Chulitna R. confluence,  
June-Sept 1982 Appdx. Fig. 3-B-8 pg. B-51
- Catch of juvenile Sockeye at DFH sites, by gear type, between  
Goose Crk 2 and Portage Crk, May-Oct 1982  
Appdx Table 3-A-82 pg A-229
- Catch of juvenile Sockeye at SFH sites, by gear type, below  
Devil Canyon, May-Oct 1982  
Appdx Table 3-A-83 pg. A-231
- Downstream migrant trap daily and cumulative catch of juvenile  
Sockeye, June-Oct 1982  
Appdx. Table 3-B-5 pg. B-17
- Invertebrate taxa in stomachs of juvenile Sockeye, 1982  
Appdx. Table 3-C-3 pg. C-3

## Sockeye Salmon (Continued)

- Electivity values for invertebrates found in stomachs of juvenile Sockeyes at Slough 8A, Aug 1982  
Appdx. Table 3-C-20 pg. C-20
- Electivity values for invertebrates found in stomachs of juvenile Sockeye at Slough 8A, Sept 1982  
Appdx. Table 3-C-21 pg. C-21
- Electivity values for invertebrates found in stomachs of juvenile Sockeye at Slough 11, Aug 1982  
Appdx. Table 3-C-22 pg. C-22
- Electivity values for invertebrates found in stomachs of juvenile Sockeye at Slough 11, Sept 1982  
Appdx. Table 3-C-23 pg. C-23
- Separation of juvenile Sockeye by age class at DFH sites, June-Sept 1982  
Appdx. Table 3-H-3 pg. H-5

## Pink Salmon

- Daily sonar counts of Sockeye salmon at Susitna, Yentna, Sunshine and Talkeetna stations  
Appdx. Fig. 2-B-2, pg. A-7
- Length frequencies of pink salmon sampled from fishwheel catches at Susitna Station  
Appdx. Fig. 2-D-13, pg. A-97
- Length frequencies of pink salmon sampled from fishwheel catches at Yentna Station,  
Appdx. Fig. 2-D-14 pg. A-98
- Length frequencies of pink salmon sampled from fishwheel catches at Sunshine Station  
Appdx. Fig. 2-D-15, pg. A-99
- Length frequencies of pink salmon sampled from fishwheel catches at Talkeetna Station  
Appdx. Fig. 2-D-16, pg. A-100
- Length frequencies of pink salmon sampled from fishwheel catches at Curry Station  
Appdx. Fig. 2-D-17 pg. A-101
- Pink salmon spawning ground surveys of selected spawning areas and resultant tagged to untagged ratios  
Appdx. Table 2-G-4, pg. A-285

## Pink Salmon (Continued)

- Depths and Velocities associated with Pink salmon and Sockeye salmon in three sloughs at three discharges  
Appdx. Table 4-B-19, pg. 4-B-91
- Hydraulic habitat variables collected at Pink Redds  
Appdx. Table 4-B-22, pg. 4-B-100
- Numbers of live salmon counted in Aug and Sept 1982, in sloughs on Susitna R.  
Fig. 4II-4-I pg. 197
- Pink salmon spawning ground surveys of selected spawning areas and resultant tagged to untagged ratios  
Appdx. Table 2-G-4, pg. 285
- Catch Data for DFH, 1982  
Appdx. G pg. 4-G-1
- CPUE Data for 1982  
Appdx. H pg. 4-H-1
- Pink salmon fry collection by site  
Table 3-3-37 pg. 162
- Numbers of juvenile salmon captured and/or retained from six DFH sites  
Table 3-3-38 pg. 163
- Downstream migrant trap catch and catch per hour of juvenile Pink salmon, June-Oct 1982  
Appdx. Table 3-B-6 pg. B-21

## Pink Salmon - Results

- Estuary to Talkeetna  
Phase II, Vol. 2 pg. 108
  - Main Channel Escapement  
Phase II, Vol. 2 pg. 108
  - Main Channel Spawning  
Phase II, Vol. 2 pg. 113
- Talkeetna to Upper Devil Canyon  
Phase II, Vol. 2 pg. 113
  - Main Channel Escapement  
Phase II, Vol. 2 pg. 113
  - Lower Devil Canyon Milling  
Phase II, Vol. 2 pg. 117
  - Spawning  
Phase II, Vol. 2 pg. 119
    - Main Channel  
Phase II, Vol. 2 pg. 119
    - Sloughs and Streams  
Phase II, Vol. 2 pg. 119

## Pink Salmon Summary

- Estuary to Talkeetna	Phase II, Vol. 2	pg. 200
Main Channel Escapement	Phase II, Vol. 2	pg. 200
Main Channel Spawning	Phase II, Vol. 2	pg. 204
- Talkeetna to Upper Devil Canyon	Phase II, Vol. 2	pg. 204
Main Channel Escapement	Phase II, Vol. 2	pg. 204
Lower Devil Canyon Milling	Phase II, Vol. 2	pg. 206
Spawning	Phase II, Vol. 2	pg. 206
Main Channel	Phase II, Vol. 2	pg. 206
Sloughs and Streams	Phase II, Vol. 2	pg. 207
- Mean hourly and cumulative percent fishwheel catch of Pink salmon by two-day periods at Susitna Station	Phase II, Vol. 2 Fig. 2-3-19,	pg. 111
- Mean hourly and cumulative percent fishwheel catch of Pink salmon by two-day periods at Yentna and Sunshine	Phase II, Vol. 2 Fig. 2-3-20	pg. 112
- Mean hourly and cumulative percent fishwheel catch of Pink salmon by two-day periods at Talkeetna and Curry stations	Phase II, Vol. 2 Fig. 2-3-21	pg. 116
- Migrational rates of Pink salmon between (a) Sunshine and Talkeetna stations, (b) Talkeetna and Curry stations, and (c) Sunshine and Curry stations, based on fishwheel recaptures	Phase II, Vol. 2 Fig 2-3-22	pg 118
- Migrational timing of Pink salmon at selected sampling locations in the Susitna R. basin, 1981 and 1982	Phase II, Vol. 2 Fig 2-4-4	pg. 203
- Pink salmon live counts by date in Lane Crk, 1981 and 1982	Phase II, Vol. 2 Fig 2-4-5	pg. 208

### Pink Salmon Summary

- Analysis of Pink salmon lengths in millimeters from escapement samples collected at Susitna, Yentna, Sunshine, Talkeetna and Curry stations

Phase II, Vol. 2

Table 2-3-28

pg. 114

### Chinook Salmon - Results

- |                                   |                  |        |
|-----------------------------------|------------------|--------|
| - Estuary to Talkeetna            | Phase II, Vol. 2 | pg. 51 |
| - Main Channel Escapement         | Phase II, Vol. 2 | pg. 51 |
| - Main Channel Spawning           | Phase II, Vol. 2 | pg. 57 |
| - Talkeetna to Upper Devil Canyon | Phase II, Vol. 2 | pg. 57 |
| - Main Channel Escapement         | Phase II, Vol. 2 | pg. 57 |
| - Radio Telemetry                 | Phase II, Vol. 2 | pg. 66 |
| - Lower Devil Canyon Milling      | Phase II, Vol. 2 | pg. 71 |
| - Spawning                        | Phase II, Vol. 2 | pg. 74 |
| - Main Channel                    | Phase II, Vol. 2 | pg. 74 |
| - Sloughs & Streams               | Phase II, Vol. 2 | pg. 79 |

### Chinook Salmon - Summary

- |                                   |                  |         |
|-----------------------------------|------------------|---------|
| - Chinook Salmon                  | Phase II, Vol. 2 | pg. 175 |
| - Estuary to Talkeetna            | Phase II, Vol. 2 | pg. 175 |
| - Main Channel Escapement         | Phase II, Vol. 2 | pg. 175 |
| - Main Channel Spawning           | Phase II, Vol. 2 | pg. 178 |
| - Talkeetna to Upper Devil Canyon | Phase II, Vol. 2 | pg. 178 |
| - Main Channel Escapement         | Phase II, Vol. 2 | pg. 178 |
| - Radio Telemetry                 | Phase II, Vol. 2 | pg. 182 |
| - Lower Devil Canyon Milling      | Phase II, Vol. 2 | pg. 184 |
| - Spawning                        | Phase II, Vol. 2 | pg. 185 |
| - Main Channel                    | Phase II, Vol. 2 | pg. 185 |
| - Sloughs and Streams             | Phase II, Vol. 2 | pg. 185 |
| - Escapement Index Surveys        | Phase II, Vol. 2 | pg. 186 |

## Chinook Salmon (Continued)

- Mean hourly & cumulative percent fishwheel catch of Chinook salmon by two-day periods at Yentna and Sunshine stations pg. 52
- Age composition of fishwheel intercepted Chinook salmon at Sunshine, Talkeetna and Curry pg. 60
- Mean hourly and cumulative percent fishwheel catch of Chinook salmon by two day periods at Talkeetna & Curry pg. 62
- Migrational rates of Chinook salmon between (a) Sunshine & Talkeetna stations, (b) Talkeetna & Curry stations and (c) Sunshine & Curry stations based on fishwheel recaptures pg. 64
- Movements of Talkeetna and Curry stations radio tagged Chinook salmon in the Susitna River during June & July pg. 68
- Set gill net fishing locations on main channel Susitna R. in lower Devil Canyon pg. 72
- Map illustrating location of Cheechako Crk. and Chinook Crk. in relationships to Susitna R. Devil Canyon Reach pg. 76
- Susitna R. basin with Chinook salmon index streams defined Fig. pg. 82
- Migrational timing of Chinook salmon at selected sampling locations in the Susitna R. basin, 1981 and 1982 Fig. pg. 180
- Apportioned sonar counts of Chinook salmon by sampling station Table 2-3-8 pg. 51
- Estimated escapement of Chinook salmon 350mm or less in length at Sunshine, Talkeetna and Curry stations Table 2-3-12 pg. 56
- Analysis of Chinook salmon age data by percent from escapement samples collected at Susitna, Yentna, Sunshine, Talkeetna and Curry stations pg. 56
- Analysis of Chinook salmon lengths, in millimeters, by age class from escapement samples collected at Susitna, Yentna, Sunshine, Talkeetna and Curry pg. 58

Chinook Salmon (Continued)

- Sex ration of male and female Chinook salmon by age from escapement samples collected at Yentna, Sunshine, Talkeetna and Curry stations pg. 68
- Tagging location, transmitter frequency and physical characteristics of radio-tagged Chinook salmon pg. 67
- Twenty fastest radio-tagged Chinook salmon movements pg. 70
- Results of set gill netting in Susitna R. mainstem between Devil Canyon and Portage Crk. pg. 73
- Electroshocking catch results in lower Devil Canyon pg. 74
- 1982 Chinook salmon escapement surveys of Susitna R. basin streams from 1976-1982 pg. 83
- Catch Data for DFH, 1982 Appdx. G pg. 4-G-1
- CPUE Data for 1982 Appdx. H pg. 4-H-1
- Sector distribution of Chinooks passing SSS stations Phase II, Vol. 2, Part B Appdx. Fig. 2-B-6 pg. A-53
- Length frequencies of Chinook salmon sampled from fishwheel catches at Susitna Station Phase II, Vol. 2, Part B Appdx. Fig. 2-D-1 pg. A-53
- Length frequencies of Chinook sampled from fishwheel catches at Yentna Station Phase II, Vol. 2, Part B Appdx. Fig. 2-D-2, pg. A-86
- Length frequencies of Chinook sampled from fishwheel catches from Sunshine Station Phase II, Vol. 2, Part B Appdx. Fig. 2-D-3 pg. A-87
- Length frequencies of Chinook sampled from fishwheel catches at Talkeetna Station Phase II, Vol. 2, Part B Appdx. Fig. 2-D-3 pg. A-88
- Length frequencies of Chinook salmon sampled from fishwheel catches at Curry Station Phase II, Vol. 2, Part B Appdx. Fig. 2-D-5 pg. A-89
- Movements of radio tagged Chinook #600-2 Phase II, Vol. 2, Part B Appdx. Fig. 2-E-1 pg. A 114



## Chinook Salmon (Continued)

- Movements of radio tagged Chinook	#620-1	pg. A 118
- Movements of radio tagged Chinook	#660-1	pg. A 119
- Movements of radio tagged Chinook	#670-1	pg. A 121
- Movements of radio tagged Chinook	#680-1	pg. A 123
- Movements of radio tagged Chinook	#700-1	pg. A 125
- Movements of radio tagged Chinook	#710-3	pg. A 126
- Movements of radio tagged Chinook	#720-1	pg. A 128
- Movements of radio tagged Chinook	#720-3A	pg. A 129
- Movements of radio tagged Chinook	#720-3B	pg. A 131
- Movements of radio tagged Chinook	#730-1	pg. A 133
- Movements of radio tagged Chinook	#730-2	pg. A 135
- Movements of radio tagged Chinook	#730-3	pg. A 136
- Movements of radio tagged Chinook	#740-2	pg. A 138
- Movements of radio tagged Chinook	#740-3	pg. A.139
- Seasonal variation of distribution and relative abundance of Chinook salmon juveniles at DFH sites, 1982	Fig. 3-3-3	pg. 90
- Total catch of juvenile Chinook at DFH sites between Goose Crk. and Chulitna R., 1982	Table 3-3-11	pg. 92
- Total catch of juvenile Chinook at DFH sites between Chulitna R. and Portage Crk., 1982	Table 3-3-12	pg. 93
- Total catch of juvenile Chinook by two-week periods for two reaches on the Susitna R: Goose Crk. to Chulitna R. and Chulitna R. to Portage Crk., 1982	Fig. 3-3-4	pg. 94
- Minnow trap catches of juvenile Chinook at DFH sites between Goose Crk. and Chulitna R., 1982	Table 3-3-13	pg. 96
- Minnow trap catches of juvenile Chinook at DFH sites between Chulitna R. and Portage Crk., 1982	Table 3-3-14	pg. 97
- Minnow trap catches of juvenile Chinook at DFH sites between Goose Crk. 2 and Portage Crk., 1982	Table 3-3-15	pg. 98

## Chinook Salmon (Continued)

- Minnow trap catches of juvenile Chinook at DFH sites by reach, between Goose Crk. 2 and Portage Crk., 1982	Fig. 3-3-5	pg. 99
- Downstream migrant trap catches of juvenile Chinooks, 1982	Fig. 3-3-15	pg. 129
- Scale analysis of juvenile Chinooks	Table 3-3-25	pg. 132
- Lengths of juvenile Chinook, 1982	Table 3-3-26	pg. 133
- Lengths by age classes of juvenile Chinooks, 1982	Table 3-3-27	pg. 134
- Lengths by age class of juvenile Chinooks, 1982	Table 3-3-28	pg. 136
- Stomach contents of Chinook juveniles collected in Slough 8A, 1982	Fig. 3-3-21	pg. 165
- Stomach contents of Chinook juveniles collected in Slough 11, 1982	Fig. 3-3-22	pg. 166
- Stomach contents of Chinook juveniles collected in Slough 21, 1982	Fig. 3-3-23	pg. 167
- Stomach contents of Chinook juveniles collected in Fourth of July Crk., 1982	Fig. 3-3-24	pg. 168
- Stomach contents of Chinook juveniles collected in Indian R, 1982	Fig. 3-3-25	pg. 169
- Comparison of food habits of co-occurring juvenile salmon, 1982	Table 3-3-39	pg. 176
- Adjusted cumulative catch data by species for juveniles caught in downstream migrant trap	Fig. 3-4-9	pg. 255
- Length frequency distribution of juveniles by two-week periods, below Chulitna R. confluence, May-Oct 1982	Appdx. Fig. 3-B-1	pg. B-24
- Length frequency distribution of juveniles by two-week periods, below Chulitna R. confluence, May-Oct 1982	Appdx. Fig. 3-B-2	pg. B-28
- Chinook juvenile catch at DFH sites by gear type between Goose Crk. 2 and Portage Crk, May-Oct 1982	Appdx. Table 3-A-68	pg. A-198

## Chinook Salmon (Continued)

- CPUE of juvenile Chinook at DfH sites by gear type  
between Goose Crk. 2 and Portage Crk., May-Oct 1982  
Appdx. Table 3-A-69 pg. A-201
- Chinook juvenile catch at SFH sites below Devil Canyon  
by gear type, May-Oct 1982 Appdx. Table 3-A-70 pg. A-204
- CPUE of juvenile Chinook at DFH sites, by gear type  
below Devil Canyon, May-Oct 1982 Appdx. Table 3-A-71 pg. A-209
- Total catch of juvenile Chinook at DFH sites, between  
Goose Crk. 2 and Slough 21, Feb-Apr 1982  
Appdx. Table 3-A-72 pg. A-214
- Total catch of juvenile Chinook by age class at SFH  
sites between Deshka R. and Slough 22, Feb-Apr 1982  
Appdx. Table 3-A-73 pg. A-215
- Cumulative catch and catch per hour of juvenile Chinook  
by downstream migrant trap, 1982 Appdx. Table 3-B-2 pg. B-6
- Invertebrate taxa in stomachs of juvenile Chinook  
in 1982 Appdx. Table 3-C-1 pg. C-1
- Electivity values for invertebrates found in stomachs of  
juvenile Chinook at Slough 8A, 1982 Appdx. Table 3-C-4 pg. C-4
- Electivity values for invertebrates found in stomachs of  
juvenile Chinook at Slough 11, Aug 1982  
Appdx. Table 3-C-5 pg. C-5
- Electivity values for invertebrates found in stomachs of  
juvenile Chinook at Slough 11, Sept 1982  
Appdx. Table 3-C-6 pg. C-6
- Electivity values for invertebrates found in stomachs of  
juvenile Chinook at Slough 21, Aug 1982  
Appdx. Table 3-C-7 pg. C-7
- Electivity values for invertebrates found in stomachs of  
juvenile Chinook at Slough 21, Sept 1982  
Appdx. Table 3-C-8 pg. C-8

Chinook Salmon (Continued)

- Electivity values for invertebrates found in stomachs of  
juvenile Chinook at Fourth of July Crk, Aug 1982  
Appdx. Table 3-C-9 pg. C-9
- Electivity values for invertebrates found in stomachs of  
juvenile Chinook at Indian R., Aug 1982  
Appdx. Table 3-C-11 pg. C-11
- Electivity values for invertebrates found in stomachs of  
juvenile Chinook at Indian R, Sept 1982  
Appdx. Table 3-C-12 pg. C-12
- Separation of Chinook salmon juvenile subsample by  
age class at DFH sites, 1982 Appdx. Table 3-H-1 pg. H-1

## Arctic Grayling

- Arctic grayling catch by study site type  
Table 3-3-2 pg. 56
- Arctic Grayling CPUE at tributary and mainstem sites: Cook Inlet to Devil Canyon, 1982  
Fig 3-4-2 pg. 199
- Length percent frequencies of Arctic grayling in Susitna R. below Devil Canyon  
Fig. 3-4-3 pg. 201
- Length frequency composition of Arctic grayling captured between Cook Inlet and Devil Canyon, May to Oct 1982  
Appdx. Fig. 3-G-3 pg. G-16
- Age and length relationships for Arctic grayling captured between Cook Inlet and Devil Canyon, May-Oct 1982  
Appdx. Fig. 3-G-4 pg. G-17
- Arctic grayling at DFH sites, by gear type, between Goose Crk. 2 and Portage Crk., May-Oct 1982  
Appdx. Table 3-A-14 pg. A-53
- Arctic grayling CPUE at DFH sites, by gear type, between Goose Crk. 2 and Portage Crk., May-Oct 1982  
Appdx. Table 3-A-15 pg. A-55
- Arctic grayling catch at SFH sites, by gear type, below Devil Canyon, May-Oct 1982  
Appdx. Table 3-A-16 pg. A-57
- Arctic grayling CPUE at SFH sites, by gear types, below Devil Canyon, May-Oct 1982  
Appdx. Table 3-A-17 pg. A-63
- Arctic grayling catches at fishwheels located on Susitna R. by two-week sampling period, June-Sept 1982  
Appdx. Table 3-A-18 pg. A-69
- Arctic grayling recaptured in Susitna R. below Devil Canyon, 1982  
Appdx. Table 3-A-19 pg. A-70
- Relative spawning maturity of Arctic grayling captured between Cook Inlet and Devil Canyon, May-June 1982  
Appdx. Table 3-A-20 pg. A-74
- Arctic grayling age-length relationships on Susitna R. between Cook Inlet and Devil Canyon, May-Sept 1982  
Appdx. Table 3-G-2 pg. G-9
- Length, age and sex summaries for resident fish  
Appdx. Report 3-G-1 pg. G-1

## Arctic Lamprey

- Spawning site habitat evaluations for longnose sucker  
and Arctic lamprey Table 4II-3-14 pg. 291
- Catch Data for DFH, 1982 Appdx. G pg. 4-G-1
- CPUE Data for 1982 Appdx. H pg. 4-H-1
- Arctic lamprey catch by study site type  
Table 3-3-10 pg. 88
- Arctic lamprey catch at DFH sites in Susitna R. between  
Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx. Table 3-A-64 pg. A-194
- Arctic lamprey CPUE at DFH sites in Susitna R. between  
Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx. Table 3-A-65 pg. A-195
- Arctic lamprey catch at SFH sites in Susitna R. below  
Devil Canyon by gear type, May-Oct 1982  
Appdx. Table 3-A-66 pg. A-196
- Arctic lamprey CPUE at DFH sites in Susitna R. below Devil  
Canyon by gear type, May-Oct 1982  
Appdx Table 3-A-67 pg. A-197

BERING CISCO

- Bering cisco spawning site habitat evaluations for RM 76.8-77.6	Table 4II-3-10	pg. 281
- Water temp's and discharges at Bering cisco spawning sites	Table 4II-3-11	pg. 282
- Bering cisco catch per day at Sunshine fishwheel compared with daily surface water temperatures of the Susitna at Sunshine and provisional discharge at Sunshine	Fig. 4II-3-13	pg. 283
- Bering cisco catch per day at Sunshine fishwheel compared with daily mean surface temp. of Susitna R. above Montana Crk. and provisional discharge at Sunshine	Fig. 4II-3-14	pg. 284
- Analysis of Bering cisco age data by percent from escapement samples collected at all sampling locations	Table 2-3-40	pg. 168
- Analysis of Bering cisco lengths, in millimeters, by age class from all escapement samples	Table 2-3-41	pg. 168
- Sex ratios of Bering cisco collected during mainstem spawning surveys	Table 2-3-42	pg. 170
- Analysis of Bering cisco age data by percent from escapement samples collected at all sampling locations in 1982	Table 2-4-3	pg. 235
- Length frequencies of Bering cisco sampled from fishwheel catches at Susitna, Yentna, Sunshine and Talkeetna stations.	Appdx. Table 2-d-28	pg. 112
- Mainstem Susitna R. Bering cisco spawning area at RM 76.8	Appdx. Table 2-G-13	pg. 266
- Mainstem Susitna R. Bering cisco spawning area at RM 80.8	Appdx. Table 2-G-14	pg. 267
- Lower Montana Bering cisco spawning area on Susitna R. at RM 76.8-77.3, Oct 14, 1982	Appdx. Fig. 4-F-90	pg. 4-F-91
- Upper Montana Bering cisco spawning area on Susitna R. at RM 77.3-77.6, Oct 14, 1982	Appdx. Fig. 4-F-91	pg. 4-F-92
- Catch Data for DFH, 1982	Appdx. G	pg. 4-G-1
- CPUE Data for 1982	Appdx. H	pg. 4-H-1

## Burbot

- Movement of five radio-tagged Burbot in Susitna R., Oct 1981 through Apr. 1982 Fig. 4II-3-16 pg. 289
- Water quality and quantity data at overwintering areas utilized by radio-tagged Burbot in 1981 Table 4II-3-13 pg. 290
- Burbot catch per unit of trotline effort by aggregate water source zones at DFH sites between Goose Crk. 2 and Portage Crk. Fig. 4II-4-16 pg. 350
- Catch Data for DFH, 1982 Appdx. G pg. 4-G-1
- CPUE Data for 1982 Appdx. H pg. 4-H-1
- Surgical implantation of a radio transmitter into a Burbot Plate 3-2-2 pg. 13
- Tagging Burbot with Floy anchor tags at Whitefish Slough Plate 3-2-5 pg. 27
- Necropsying a Burbot to determine its sex and relative maturity at Portage Crk. mouth Plate 3-2-6 pg. 28
- Burbot catch by study site type Table 3-3-3 pg. 60
- Movement of radio-tagged Burbot Fig. 3-3-2 pg. 63
- Length, age and sex summaries for resident fish Appdx. Report 3-G-1 pg. G-1
- Length frequency composition of Burbot captured between Cook Inlet and Devil Canyon, May-Oct. 1982 Appdx. Fig. 3-G-5 pg. G-18
- Age and length relationship for Burbot captured between Cook Inlet and Devil Canyon, Feb-Oct. 1982 Appdx. Fig. 3-G-6 pg. G-19
- Age and length relationship for Burbot captured between Cook Inlet and Devil Canyon, Feb-Sept. 1982 Appdx. Table 3-G-3 pg. G-10
- Length, age and sex summaries for resident fish Appdx. Report 3-G-1 pg. G-1
- Burbot catch during ice-covered months, 1982 Appdx. Table 3-A-21 pg. A-75
- Burbot catch at DFH sites between Goose Crk. 2 and Portage Crk. by gear type Appdx. Table 3-A-22 pg. A-76



Burbot (Continued)

- Burbot CPUE at DFH sites in Susitna R. between Goose Crk.  
2 and Portage Crk. by gear type, May-Oct. 1982  
Appdx. Table 3-A-23 pg. A-78
- Burbot catch at SFH sites in Susitna R. below Devil Canyon  
by gear type, May-Oct 1982 Appdx. Table 3-A-24 pg. A-80
- Burbot CPUE at SFH sites in Susitna R. below Devil Canyon  
by gear type, May-Oct 1982 Appdx. Table 3-A-25 pg. A-86
- Burbot catches at fishwheels located on Susitna R. by  
two-week sampling period, June-Sept. 1982  
Appdx. Table 3-A-26 pg. A-92
- Adult Burbot recaptured in Susitna R. below Devil Canyon, 1982  
Appdx. Table 3-A-27 pg. A-93
- Relative spawning maturity of Burbot captured in Susitna R.  
between Cook Inlet and Devil Canyon, Sept 1981 to Sept 1982  
Appdx. Table 3-A-28 pg. A-94

## Dolly Varden

- Dolly Varden catch by study site type Table 3-3-7 pg. 78
- Dolly Varden CPUE on Susitna R. between Cook Inlet and Devil Canyon Fig. 3-4-8 pg. 229
- Length, age and sex summaries for resident fish Appdx. Report 3-G-1 pg. G-1
- Dolly Varden catch at DFH sites in Susitna R. between Goose Crk. 2 and Portage Crk. by gear type, May-Oct. 1982 Appdx. Table 3-A-49 pg. A-168
- Dolly Varden CPUE at DFH sites in Susitna R. between Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982 Appdx. Table 3-A-50 pg. A-169
- Dolly Varden catch at SFH sites in Susitna R. below Devil Canyon by gear type, May-Oct 1982 Appdx. Table 3-A-51 pg. A-170
- Dolly Varden catch at DFH sites in Susitna R. below Devil Canyon by gear type, May-Oct 1982 Appdx. Table 3-A-52 pg. A-172
- Dolly Varden catches at fishwheels located on Susitna R. by two-week sampling period, June-Sept. 1982 Appdx. Table 3-A-53 pg. A-174
- Adult Dolly Varden recaptured in Susitna R. below Devil Canyon, 1982 Appdx. Table 3-A-54 pg. A-175

## EULACHON

- Twenty sites of Eulachon spawning activity  
Fig. 4II-3-8 pg. 270
- Water quality at Eulachon spawning sites  
Table 4II-3-8 pg. 272
- Surface H<sub>2</sub>O temp's, pH, specific conductance and DO<sub>2</sub>  
at Eulachon spawning sites Fig. 4II-3-9 pg. 274
- Water depths and velocities at Eulachon spawning sites  
Fig. 4II-3-10 pg. 275
- Misc. Eulachon spawning site habitat evaluations  
Table 4II-3-9 pg. 276
- Water temp's for Susitna at Sunshine Sta. during Eulachon  
spawning Fig. 4II-3-11 pg. 279
- Provisional and daily mean water temp. for Susitna R.  
at Sunshine Sta. compared with CPUE for Eulachon in gillnets  
Fig. 4II-3-12 pg. 279
- Male and female Eulachon taken from Susitna R. at RM 21.4  
Plate 4II-4-3 pg. 316
- Upstream movement of Eulachon along west bank of Susitna R.  
at RM 16.5 pg. 318
- Upstream movement of Eulachon creating a visible surface wave  
along east bank of Susitna R. at RM 15  
Plate 4II-4-5 pg. 319
- Milling fish in what appeared to be spawning behavior along  
east bank of Susitna R. at RM 15 Plate 4II-4-6 pg. 320
- Milling fish in what appeared to be spawning behavior along  
east bank of Susitna R at RM 15.0 Plate 4II-4-7 pg. 321
- Accumulation of dead Eulachon along east bank of Susitna R.  
at RM 15.0 Plate 4II-4-8 pg. 322
- Susitna R. estuary with Eulachon set net sites defined  
Fig. 2-2-1 pg. 3
- Mean number of pre-spawning Eulachone intercepted per net  
minute in Susitna R. estuary and corresponding high tide  
ranges and temperatures Fig 2-3-1 pg. 32

## Eulachon (Continued)

- Age composition of (a-b) first period 5/16-5/31 intercepted male and female Eulachon ad(c-d) second period 6/1-6/9 intercepted male and female Eulachon	Fig. 2-3-4	pg. 44
- Eulachon set net catches in Susitna R. estuary	Table 2-3-1	pg. 30
- Presence and spawning condition of Eulachon in Susitna R. mainstem	Table 2-3-2	pg. 36
- Sex composition and spawning condition of Eulachon sampled at various Susitna R. locations	Table 2-3-3	pg. 38
- Incidence of Eulachon in Susitna R. by date and river mile sector	Table 2-3-4	pg. 41
- Age composition of male and female Susitna R. Eulachon in percent by sampling period	Table 2-3-5	pg. 42
- Eulachon length and weight data collected by age, sex and sampling period	Table 2-3-6	pg. 45
- Sex ratios of Susitna R. Eulachon recorded by river mile sector and date	Table 2-3-7	pg. 48
- Eulachon spawning area on Susitna R. at RM 26 May 31, 1982	Appdx. Fig. 4-F-70	pg. 4-F-71
- Eulachon spawning areas on Susitna R. at RM 25.9 May 31, 1982	Appdx. Fig. 4-F-71	pg. 4-F-72

## Eulachon spawning areas on Susitna R

Site 3 - R.M. 26.3 - May 31, 1982	Appdx. Fig. 4-F-72	pg. 4-F-73
Site 4 - R.M. 25.5 - May 31, 1982	Appdx. Fig. 4-F-73	pg. 4-F-74
Site 5 - R.M. 25.8 - June 1, 1982	Appdx. Fig. 4-F-74	pg. 4-F-75
Site 6 - R.M. 21.4 - June 1, 1982	Appdx. Fig. 4-F-75	pg. 4-F-76
Site 7 - R.M. 18.2 - June 1, 1982	Appdx. Fig. 4-F-76	pg. 4-F-77
Site 8 - R.M. 16.5 - June 1, 1982	Appdx. Fig. 4-F-77	pg. 4-F-78
Site 9 - R.M. 44.0 - June 3, 1982	Appdx. Fig. 4-F-78	pg. 4-F-79
Site 10 - R.M. 41.3 - June 4, 1982	Appdx. Fig. 4-F-79	pg. 4-F-80
Site 11 - R.M. 28.0 - June 5, 1982	Appdx. Fig. 4-F-80	pg. 4-F-81
Site 12 - R.M. 31.1 - June 5, 1982	Appdx. Fig. 4-F-81	pg. 4-F-82

1056B

Eulachon spawning areas on Susitna R (Continued)

Site 13 - R.M. 31.8 - June 5, 1982	Appdx. Fig. 4-F-82	pg. 4-F-83
Site 14 - R.M. 15.0 - June 6, 1982	Appdx. Fig. 4-F-83	pg. 4-F-84
Site 15 - R.M. 35.5 - June 7, 1982	Appdx. Fig. 4-F-84	pg. 4-F-85
Site 16 - R.M. 22.8 - May 30, 1982	Appdx. Fig. 4-F-85	pg. 4-F-86
Site 17 - R.M. 43.3 - May 24, 1982	Appdx. Fig. 4-F-86	pg. 4-F-87
Site 18 - R.M. 8.5 - May 26, 1982	Appdx. Fig. 4-F-87	pg. 4-F-88
Site 19 - R.M. 11.0 - May 26, 1982	Appdx. Fig. 4-F-88	pg. 4-F-89
Site 20 - R.M. 18.3 - May 26, 1982	Appdx. Fig. 4-F-89	pg. 4-F-90
- Catch Data for DFH, 1982	Appdx. G	pg. 4-G-1
- CPUE Data for 1982	Appdx. H	pg. 4-H-1

## Humpback Whitefish

- Humpback whitefish catch by study site type  
Table 3-3-5 pg. 71
- Humpback whitefish CPUE in Susitna R. between Cook Inlet  
and Devil Canyon, 1982  
Fig. 3-4-6 pg. 217
- Humpback whitefish age-length relationships between Cook  
Inlet and Devil Canyon, May-Sept 1982 Appdx. Table 3-G-5 pg. G-12
- Length, age and sex summaries for resident fish  
Appdx. Report 3-G-1 pg. G-1
- Gill raker counts of Humpback whitefish mortalities captured  
on Susitna R. below Devil Canyon, 1982  
Appdx Table 3-A-35 pg. A-125
- Humpback whitefish catch at DFH sites in Susitna R. between  
Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx Table 3-A-36 pg. A-126
- Humpback whitefish CPUE at DFH sites in Susitna R. between  
Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx. Table 3-A-37 pg. A-127
- Humpback whitefish catch at SFH sites in Susitna R. below  
Devil Canyon by gear type, May-Oct 1982  
Appdx. Table 3-A-38 pg. A-128
- Humpback whitefish CPUE at SFH sites in Susitna R. below  
Devil Canyon by gear type, May-Oct 1982  
Appdx. Table 3-A-39 pg. A-132
- Humpback whitefish catches at fishwheels located on Susitna  
R. by two-week sampling period, June-Sept 1982  
Appdx. Table 3-A-40 pg. A-136
- Adult Humpback whitefish recaptured in Susitna R. below  
Devil Canyon, 1982  
Appdx. Table 3-A-41 pg. A-137

## Longnose Sucker

- Longnose sucker catch by study site type  
Table 3-3-6 pg. 74
- Longnose sucker CPUE in Susitna R. between Cook Inlet and Devil Canyon, 1982  
Fig. 3-4-7 pg. 224
- Length, age and sex summaries for resident fish  
Appdx. Report 3-G-1 pg. G-1
- Longnose sucker catch at DFH sites in Susitna R. between Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx Table 3-A-42 pg. A-138
- Longnose sucker CPUE at DFH sites in Susitna R. between Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx. Table 3-A-43 pg. A-140
- Longnose sucker catch at SFH sites in Susitna R. below Devil Canyon by gear type, May-Oct 1982  
Appdx. Table 3-A-44 pg. A-142
- Longnose sucker CPUE at SFH sites in Susitna R. below Devil Canyon by gear type, May-Oct 1982  
Appdx. Table 3-A-45 pg. A-153
- Longnose sucker catches at fishwheels located on Susitna R. by two-week sampling period, June-Sept 1982  
Appdx. Table 3-A-46 pg. A-163
- Adult Longnose sucker recaptured in Susitna R. below Devil Canyon, 1982  
Appdx. Table 3-A-48 pg. A-164
- Relative spawning maturity of Longnose suckers captured in Susitna R. between Cook Inlet and Devil Canyon, May-Sept 1982  
Appdx. Table 3-A-48 pg. A-166
- Spawning site habitat evaluations for Longnose sucker and Arctic lamprey  
Table 4II-3-14 pg. 291
- Catch Data for DFH, 1982  
Appdx. G pg. 4-G-2
- CPUE Data for 19823  
Appdx. H pg. 4-H-1
- Longnose sucker age-length relationships, between Cook Inlet and Devil Canyon, May-Sept 1982  
Appdx. Table 3-G-6 pg. G-13
- Length, age and sex summaries for resident fish  
Appdx. Report 3-G-1 pg. G-1

## Rainbow Trout

- Rainbow trout catch by site, between Cook Inlet and Devil Canyon, Feb-Apr 1982                      Appdx. Table 3-A-7                      pg. A-38
- Rainbow trout catch at DFH sites between Goose Crk. 2 and Portage Crk., by gear type, May-Oct 1982                      Appdx. Table 3-A-8                      1pg. A-39
- Rainbow trout CPUE at DFH sites, between Goose Crk. 2 and Portage Crk., by gear type, May-Oct 1982                      Appdx. Table 3-A-9                      pg. A-41
- Rainbow trout catch at SFH sites, by gear type, below Devil Canyon, May-Oct 1982                      Appdx. Table 3-A-10                      pg. A-43
- Rainbow trout CPUE at DFH sites, by gear type, below Devil Canyon, May-Oct 1982                      Appdx. Table 3-A-11                      pg. A-46
- Rainbow trout catch at fishwheels on Susitna, 1982                      Appdx. Table 3-A-12                      pg. A-49
- Adult Rainbow trout recaptured in Susitna below Devil Canyon, 1982                      Appdx. Table 3-A-13                      pg. A-50
- Rainbow trout age-length relationships on Susitna R. between Cook Inlet and Devil Canyon, May-Oct 1982                      Appdx. Table 3-G-1                      pg. G-8
- Movement of five radio-tagged Rainbow trout                      Fig. 4II-3-15                      pg. 286
- Water quality and quantity and substrate data at overwintering areas utilized by radio-tagged Rainbow trout during 1981                      Table 4II-3-12                      pg. 287
- Rainbow trout catch per unit of trotline effort by aggregate water source at DFH between Goose Crk. 2 and Portage Crk.                      Fig. 4II-4-5                      pg. 343
- Catch Data for DFH, 1982                      Appdx. G                      pg. 4-G-1
- CPUE Data for 1982                      Appdx. H                      pg. 4-H-1
- Rainbow trout catch by study site type                      Table 3-3-1                      pg. 49
- Movement of radio-tagged Rainbow trout                      Fig. 3-3-1                      pg. 51



- 

## Round Whitefish

- Round whitefish catch by study site type  
Table 3-3-4 pg. 66
- Round whitefish CPUE on Susitna R. between Cook Inlet  
and Devil Canyon Fig. 3-4-4 pg. 211
- Length percent frequencies of Round whitefish in Susitna R.  
below Devil Canyon Fig. 3-4-5 pg. 212
- Round whitefish age-length relationships between Cook Inlet  
and Devil Canyon, May-Sept. 1982 Appdx. Table 3-G-4 pg. G-11
- Length, age and sex summaries for resident fish  
Appdx Report 3-G-1 pg. G-1
- Round whitefish catch at DFH sites in Susitna R. between  
Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx Table 3-A-29 pg A-97
- Round whitefish CPUE at DFH sites in Susitna R. between  
Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx. Table 3-A-30 pg. A-100
- Round whitefish catch at SFH sites in Susitna R. below Devil  
Canyon by gear type, May-Oct. 1982 Appdx Table 3-A-31 pg. A-103
- Round whitefish CPUE at DFH sites in Susitna R. below Devil  
Canyon by gear type, May-Oct 1983 Appdx. Table 3-A-32 pg. A-112
- Round whitefish catches at fishwheels located on Susitna R.  
by two-week sampling period, June-Sept 1982  
Appdx, Table 3-A-33 pg. A-121
- Adult Round whitefish recaptured in Susitna R. below Devil  
Canyon, 1982 Appdx. Table 3-A-341 pg. A-122

## Slimy Sculpin

- Slimy sculpin catch by study site type  
Table 3-3-9 pg. 85
- Length, age and sex summaries for resident fish  
Appdx. Report 3-G-1 pg. G-1
- Slimy sculpin catch during ice-covered months of February  
through April 1982 at sites on Susitna R. below Devil Canyon  
Appdx. Table 3-A-59 pg. A-181
- Slimy sculpin catch at DFH sites in Susitna R. between  
Goose Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx Table 3-A-60 pg A-182
- Slimy sculpin CPUE at DFH sites in Susitna R. between Goose  
Crk. 2 and Portage Crk. by gear type, May-Oct 1982  
Appdx. Table 3-A-61 pg. A-185
- Slimy sculpin catch at SFH sites in Susitna R. below Devil  
Canyon by gear type, May-Oct. 1982 Appdx Table 3-A-62 pg. A-188
- Slimy sculpin CPUE at DFH sites in Susitna R. below Devil  
Canyon by gear type, May-Oct. 1983 Appdx. Table 3-A-63 pg. A-191

## Threespine Stickleback

- Threespine stickleback catch by study site type  
Table 3-3-8 pg. 81
- Length, age and sex summaries for resident fish  
Appdx. Report 3-G-1 pg. G-1
- Threespine stickleback catch at DFH sites in Susitna R.  
between Goose Crk. 2 and Portage Crk. by gear type,  
May-Oct 1982 Appdx Table 3-A-55 pg A-176
- Threespine stickleback CPUE at DFH sites in Susitna R.  
between Goose Crk. 2 and Portage Crk. by gear type,  
May-Oct 1982 Appdx. Table 3-A-56 pg. A-177
- Threespine stickleback catch at SFH sites in Susitna R.  
below Devil Canyon by gear type, May-Oct. 1982  
Appdx Table 3-A-57 pg. A-178
- Threespine stickleback CPUE at DFH sites in Susitna R.  
below Devil Canyon by gear type, May-Oct. 1983  
Appdx. Table 3-A-58 pg. A-179

Miscellaneous Data

about

FISH SPECIES

## Fishing Gear Data

- Susitna Station east bank fishwheels daily and cumulative catch log by species. Appdx. Table 2-C-1 A-57
- Yentna Station north bank daily and cumulative sonar counts by species. Appdx. Table 2-B-1 A-11
- Yentna Station south bank daily and cumulative sonar counts by species. Appdx. Table 2-B-2 A-14
- Sunshine Station east bank daily and cumulative sonar counts by species. Appdx. Table 2-B-3 A-17
- Sunshine Station west bank daily and cumulative sonar counts by species. Appdx. Table 2-B-4 A-20
- Talkeetna Station east bank daily and cumulative sonar counts by species. Appdx. Table 2-B-5 A-23
- Talkeetna Station west bank daily and cumulative sonar counts by species. Appdx. Table 2-B-6 A-26
- Escapement survey counts of Susitna River sloughs between Talkeetna River and Devil Canyon. Appdx. Table 2-G-1 A-268
- Escapement survey counts of Susitna River streams between Chulitna River and Upper Devil Canyon. Appdx. Table 2-G-2 A-278
- Cumulative percent of sonar counts by species at Susitna, Yentna, Sunshine and Talkeetna stations. Appdx. Fig. 2-B-5 A-10
- Susitna River escapements by species and sampling location. Table 2-3-10 54

## Fishing Gear Data (Continued)

- Petersen population estimates and corresponding 95% confidence intervals of adult salmon migrating to Sunshine, Talkeetna and Curlry stations.  
Table 2-3-11 55
- Mainstem Susitna River salmon spawning locations with survey and egg deposition sampling results.  
Table 2-3-34 142
- Susitna River drainage escapement estimates by species for 1981 and 1982.  
Table 2-4-1 175
- Escapement by species and sampling location for 1981 and 1982.  
Table 2-4-2 176
- Curry Station west bank fishwheel daily and cumulative catch log by species.  
Appdx. Table 2-C-10 A-82
- Electroshocking summary of mainstem Susitna River.  
Appdx. Table 2-F-1 A-199
- Susitna Station west bank fishwheels daily and cumulative catch log by species.  
Appdx. Table 2-C-2 A-59
- Yentna Station north bank fishwheel daily and cumulative catch log by species.  
Appdx. Table 2-C-3 A-61
- Yentna Station south bank fishwheel daily and cumulative catch log by species.  
Appdx. Table 2-D-4 A-63
- Sunshine Station east bank fishwheels daily and cumulative catch log by species.  
Appdx. Table 2-C-5 A-66
- Sunshine Station west bank fishwheels daily and cumulative catch log by species.  
Appdx. Table 2-C-6 A-70
- Talkeetna Station east bank fishwheels daily and cumulative

Fishing Gear Data (Continued)

- Talkeetna Station west bank fishwheels daily and cumulative catch log by species. Appdx. Table 12-C-8 A-76
- Curry Station east bank fishwheel daily and cumulative catch log by species. Appdx. Table 2-C-9 A-79



Index

to

Miscellaneous Hydrological Data

ADFG Data Reports - Phase II, Vol.'s 2, 3 and 4

\* Hydrological Data

Water Surface Elevation vs. Mainstem Q at Gold Creek  
for Selected Susitna River X-Section:

<u>X-Sect.</u>	<u>Fig. #</u>	<u>Page #</u>
LRX-6	Appdx. 4-A-1	Appdx. 4-A-3
Mainstem at Whiskers Slough	4-A-1	4-A-3
Talkeetna Fishwheel	4-A-2	4-A-4
LRX-9, Right Bank	4-A-2	4-A-4
Side Channel at Gash Creek	4-A-3	4-A-5
Head, Cash Creek Side Channel	4-A-3	4-A-5
Slough, 6A, Mainstem	4-A-4	4-A-6
LRX-18, Right Bank	4-A-4	4-A-6
Curry Fishwheel	4-A-5	4-A-7
LRX-24, Right Bank	4-A-5	4-A-7
LRX-28, Right Bank	4-A-6	4-A-8
LRX-29, Right Bank	4-A-6	4-A-8
LRX-31, Right Bank	4-A-7	4-A-9
LRX-35, Right Bank	4-A-7	4-A-9
Mainstem at 4th of July Creek	4-A-8	4-A-10
LRX-40, Left Bank	4-A-8	4-A-10
Slough 11, Side Channel below Mouth	4-A-9	4-A-11
Slough 11, Side Channel above Mouth	4-A-9	4-A-11
Slough 16B, Mainstem at Mouth	4-A-10	4-A-12
Slough 16B, Mainstem at Head	4-A-10	4-A-12
LRX-50, Left Bank	4-A-11	4-A-13
LRX-51, Left Bank	4-A-11	4-A-13

Water Surface Elevations vs. Mainstem Q at Gold Creek  
for Selected Susitna River X-Sections:

<u>X-Sect.</u>	<u>Fig. #</u>	<u>Page #</u>
Slough 19, Mainstem at	Appdx. 4-A-12	Appdx. 4-A-14
LRX-53, Right Bank	4-A-12	4-A-14
Slough 20, Mainstem at Head	4-A-13	4-A-15
LRX-54, Mainstem at	4-A-13	4-A-15
LRX-56, Right Bank	4-A-14	4-A-16
LRX-57, Right Bank	4-A-14	4-A-16
Slough 22, Mainstem at Head	4-A-15	4-A-17
LRX-61, Left Bank at	4-A-15	4-A-17
LRX-62, Left Bank at	4-A-16	4-A-18
Slough 6A, Mouth of	4-A-17	4-A-19
Slough 19, Mouth of	4-A-17	4-A-19
Whiskers Slough, Mouth of	4-A-18	4-A-20
Whiskers Creek, Mid-Slough Q Site	4-A-18	4-A-21
Whiskers Creek, Slough, Head of	4-A-19	4-A-21
Lane Creek, Mid-Slough Q Site	4-A-20	4-A-22
Lane Creek, Slough Head of	4-A-20	4-A-22
Slough 11, Mouth of	4-A-21	4-A-23
Slough 11, Mid-Slough Q Site	4-A-21	4-A-23
Slough 11, Head of	4-A-22	4-A-24
Slough 16B, Mouth of	4-A-23	4-A-25
Slough 16B, Mid-Slough Q Site at	4-A-23	4-A-25
Slough 16B, Head of	4-A-24	4-A-26

Water Surface Elevations vs. Mainstem Q at Gold Creek  
For Selected Susitna River X-Sections:

<u>X-Sect.</u>	<u>Fig. #</u>	<u>Page #</u>
Slough 20, Mouth of	Appdx. 4-A-25	Appdx. 4-A-27
Slough 20, Mid-Slough Q Site at	4-A-25	4-A-27
Slough 20, Head of	4-A-26	4-A-28
Slough 21, Mouth of	4-A-27	4-A-29
Slough 21, Mid-Slough Q Site at	4-A-27	4-A-29
Slough 21, N.W. Head of	4-A-28	4-A-30
Slough 21, N.E. Head of	4-A-28	4-A-30
Slough 22, Mouth of	4-A-29	4-A-31
Slough 22, Mid-Slough Q Site at	4-A-29	4-A-31
Slough 22, Head of	4-A-30	4-A-32

\* Hydrological Data

X-Sections of the Head, Mid-Slough and Mouth of  
Selected Creeks and Sloughs:

<u>X-Sect.</u>	<u>Fig. #</u>	<u>Page #</u>
Whiskers Creek Slough	Appdx. 4-A-31	Appdx. 4-A-33
Lane Creek Slough	4-A-32	4-A-34
Slough 11	4-A-33	4-A-35
Slough 16B	4-A-34	4-A-36
Slough 20	4-A-35	4-A-37
Slough 22	4-A-36	4-A-38
Slough 8A	4-A-37	4-A-39
		& 4-A-40
Slough 9	4-A-38	4-A-41
		& 4-A-42
Slough 21	4-A-39	4-A-43
Rabideux Slough	4-A-40	4-A-44
Chum Channel	4-A-41	4-A-45

Index

to

Miscellaneous

H<sub>2</sub>O Quality Data

ADFG Data Reports - Phase II, Vol.'s 2, 3 and 4

Mainstem Susitna: Water Quality Data

Listing of Dissolved Gas Decay Data

Appdx. Table 4-D-1

pg. 4-D-2

Dissolved Gas Analytical Methods

Appdx. Table 4-D-2

pg. 4-D-3

Percent concentration of total dissolved gas  
versus distance below the Devil Canyon  
proposed dam sites

Figure 4-I-3-54

pg. 171

Concentrations of dissolved gases in Devil Canyon  
rapids complex

Figure ~~4~~<sup>D</sup>-I-3-55

pg. 173

Residual Analysis of the Multiple Regression

Examination of decay data-computer printouts

Appdx. Table 4-~~E~~<sup>D</sup>-3

pg. 4-D-4

~~Continuous record of dissolved gas concentrations  
and temp is at site below Devils Canyon~~

~~Appdx. Table 4-~~E~~<sup>D</sup>-4~~

~~pg. 4-D-4~~

Relationship of the dissolved gas concentrations  
to river discharge

Figure 4I-3-56

pg. 174

Total surface areas of Type II hydraulic zones in  
nine study areas on the upper Susitna vs. Gold  
Creek discharge

Table 4I-4-1

pg. 182

Mainstem Susitna: Water Quality Data (cont.)

Total surface areas of Type II hydraulic zones within  
the boundaries of 5 study sites on the Lower  
Susitna River vs. Sunchine station discharge

Table 4I-4-2

pg. 183

Total surface area of aggregate type II water within  
the study boundaries of nine upper reach sites  
versus Susitna R. Q at Gold Creek

Figure 4I-4-1

pg. 184

Total surface area of aggregate type II water within  
the study boundares of five lower reach sites  
versus Susitna River discharge at Sunchine

Figure 4I-4-2

pg. 185

Dissolved gas decay rates versus Gold Creek discharges  
with dissolved gas data below Libby Dam, Kootenai  
River, Montana, provided as a comparison

Figure 4I-4-3

pg. 200

Dissolved Gas Data - Continuous Record

Appdx. Table 4-<sup>D</sup>~~E~~-4

pg. 4-D-11