

HARZA-ELIASCO

Susitna Joint Venture
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SNOW DATA

To: Chuck Elliot
Harza-Ebasco

Sept. 20, 1984

Chuck,

Hope you will find our Snow Course measurements useful. The EST in place of the date is an estimated Snow Course depth and water content taken from a relationship with other courses in the area. The small a and e behind the Snow Course depth and water content respectively indicate that the snow course was read by looking at an Aerial Marker from an airplane. The water content is estimated from the density of nearby Snow courses.

© If you have any questions, don't hesitate to call.

Sincerely

Rick McClure

Rick McClure

Soil Conservation Service

Anchorage, AK.

276-4246

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Harza-Ebasco

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Hope you will find our Snow Course measurements useful. The EST in place of the data is an estimated Snow Course depth and water content taken from a relationship with other courses in the area. The small a and e behind the Snow Course depth and water content respectively indicate that the snow course was read by looking at an Aerial Marker from an airplane. The water content is estimated from the density of nearby snow courses.

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Sincerely

Rick McClure

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Soil Conservation Service

Anchorage, AK.

SNOW COURSE= MONAHAN FLAT

REGION= MATANUSKA/SUSITNA

NUMBER= 47001

DRAINAGE= SUSITNA RIVER

ELEVATION= 2,710 FEET (826 METERS)

LAT= 63 DEG 18 MIN LONG= 147 DEG 39 MIN

REMARKS - SMALL OPENING AMONG LOW WILLOW AT EDGE OF SPRUCE FOREST; OFTEN WIND AFFECTED TO SOME DEGREE; BOTH AERIAL MARKER AND GROUND SURVEYS.

63°18'15"N 147°39'55"W

YEAR	FEBRUARY 1			MARCH 1			APRIL 1			MAY 1		
	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.
1964	est	24	4.5	2-27	30	5.6	4-10	23a	4.1e	5-11	30a	7.2e
1965	est	23	4.3	est	26	5.4	4-2	25a	5.5e	est	24	6.1
1966	2-2	24a	5.5e	3-3	32a	6.4e	3-28	27a	6.1e	4-28	30	7.1
1967	2-1	19a	3.4e	2-28	25	5.1	3-30	26	5.2	5-1	24a	7.2e
1968	2-7	32	6.6	2-29	39a	8.2e	3-28	38	8.2	4-30	38	9.8
1969	2-2	18a	2.7e	2-27	22	3.6	3-27	20a	3.2e	4-29	13a	3.2e
1970	2-6	21	3.0	2-26	19	3.7	3-31	20a	4.0e	5-4	23	5.6
1971	2-2	30	6.5	2-25	40	8.9	3-30	44a	10.1e	4-30	41a	10.7e
1972	2-3	36a	6.8e	2-25	33	8.4	3-30	38	9.0	4-27	43	10.3
1973	1-31	35	6.7	3-2	35	7.4	3-30	34a	7.5e	5-1	31a	7.8e
1974	1-29	17	2.8	2-28	22a	3.7e	4-1	22a	4.2e	4-30	19a	4.8e
1975	1-29	36	7.5	2-28	36	9.0	4-2	40	10.0	4-29	43	11.6
1976	2-2	22a	3.7e	2-28	25	4.4	3-30	32	5.9	4-30	24	6.6
1977	2-3	30a	6.0e	2-28	32a	6.7e	3-31	42	9.6	4-27	38	10.1
1978	1-27	28	5.6	3-2	30	6.7	4-1	32	7.0	4-28	30	7.5
1979	est	33	6.3	3-1	35	7.8	3-28	41	9.1	4-30	39	9.4
1980	est	30	5.8	3-9	32	7.2	3-26	30	6.9	4-29	27	7.0
1981	1-29	24	4.0	2-26	31	6.1	4-2	32	7.2	4-28	26	6.5
1982	1-27	20a	4.4e	2-24	19a	4.9e	3-25	23	5.0	4-26	23	5.2
1983	1-27	29	6.1	2-23	33	6.5	3-28	33	7.0	4-27	31a	7.8e
1984	1-27	26	5.6	2-28	41a	8.4e	3-28	35	8.6	4-25	35	9.6
AVERAGE:		26	5.1		30	6.3		31	6.7		30	7.6

SNOW COURSE= DEVILS CANYON

NUMBER= 49M02

ELEVATION= 1,350 FEET (411 METERS)

REGION= MATANUSKA/SUSITNA

DRAINAGE= SUSITNA RIVER

LAT= 62 DEG 49 MIN LONG= 149 DEG 18 MIN

62° 48' 55" N 149° 18' 15" W

REMARKS - AERIAL MARKER BETWEEN SMALL LAKE AND SPRUCE FOREST.
NO WIND EFFECTS. OCCASIONAL GROUND SURVEYS.

YEAR	FEBRUARY 1			MARCH 1			APRIL 1			MAY 1		
	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.
1977	2- 3	36a	6.7e	2-28	36a	7.0e	3-31	48a	9.6e	4-27	39a	9.4e
1978	1-27	18a	3.0e	3- 2	19a	3.6e	4- 1	22a	4.6e	4-28	15a	4.3e
1979	est	30	5.5	3- 1	30a	6.9e	3-28	46a	10.4e	4-29	34a	9.5e
1980	est	41	7.6	est	46	9.5	3-26	48a	13.5e	4-29	39a	12.5e
1981	1-29	17a	3.1e	2-26	30a	5.6e	3-31	30a	7.0e	4-30	21	5.1
1982	2- 6	21	4.2	2-24	23a	5.1e	3-25	42a	8.4e	4-26	34a	8.5e
1983	2-4	37	9.0	2-23	40a	9.6e	3-28	51a	12.2e	EST	45	12.5
1984	EST	27	5.0	2-28	36a	7.8e	3-28	39a	9.0e	4-25	38a	9.5e
AVERAGE:		27	5.0		31	6.3		39	8.9		30	8.2

SNOW COURSE= FOG LAKES

REGION= MATANUSKA/SUSITNA

NUMBER= 48N02

DRAINAGE= SUSITNA RIVER

ELEVATION= 2,120 FEET (646 METERS)

LAT= 62 DEG 47 MIN LONG= 148 DEG 28 MIN

REMARKS - RELOCATED IN 1970 DUE TO EXCESSIVE WIND EFFECTS ON ORIGINAL COURSE.
 BOTH COURSES MEASURED FOUR YEARS; CORRELATION FAIR; PRIOR RECORDS ADJUSTED.
 NOW LOCATED WITHIN BLACK SPRUCE FOREST; GROUND SURFACE VERY UNEVEN BUT
 WIND EFFECTS MINOR. BOTH AERIAL AND GROUND SURVEYS.

62°47'15"N

148°27'30"W

YEAR	FEBRUARY 1			MARCH 1			APRIL 1			MAY 1		
	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.	DATE	SNOW DEPTH IN.	WATER EQUIV IN.
1964	est	10	1.5	2-27	14	1.5	4-10	11a	1.9e	5-10	16a	3.0e
1965	2- 3	16a	1.9e	est	15	2.1	4- 2	15a	2.2e			
1966	2- 2	10a	2.1e	3- 3	21	4.4	3-28	22	4.6	4-28	24	5.9
1967	2- 1	11	2.4	2-28	16a	3.0e	3-30	26	4.8	5- 1	19	5.5
1968	2- 6	31	7.0	2-29	33	7.1	3-28	34	8.4	4-30	29	7.3
1969	2- 2	13	1.7	2-27	14	1.7	3-27	18	2.2	4-29	0a	0.0e
1970	2- 6	12	1.2	2-26	15	2.1	3-31	14	2.8	5- 4	6	1.5
1971	2- 2	30	6.9	2-25	38	8.5	3-30	37	8.4	4-30	33	9.3
1972	2- 3	35	6.3	2-25	31	6.5	3-30	34	7.5	4-27	37	8.6
1973	1-31	32	6.5	3- 2	31	6.9	3-30	34	8.0	5- 1	27	7.7
1974	1-29	15	2.4	2-28	20	3.6	4- 1	24	4.8	4-30	15a	3.6e
1975	1-29	33	5.1	2-28	29	6.1	4- 2	30	6.6	4-29	31	8.0
1976	2- 2	14	2.1	2-28	18	2.8	3-30	22	4.1	4-30	14a	3.5e
1977	2- 3	28	5.6	2-28	27	5.9	3-31	32a	7.4e	4-27	29a	7.5e
1978	1-27	17	2.6	3-12	17a	2.9e	4- 1	18	3.5	4-28	11a	2.9e
1979	est	26	4.7	3- 1	27	5.5	3-28	35a	7.4e	4-29	32	8.3
1980	est	33	6.0	2-29	32a	7.0e	3-28	32a	7.4e	4-29	16a	4.2e
1981	1-29	11a	2.0e	2-26	14a	2.5e	4- 1	20	3.7	4-28	10	2.5
1982	1-27	15a	3.2e	2-24	22	4.9	3-25	30	5.6	4-26	23a	5.8e
1983	1-27	22	4.2	2-23	23	4.3	3-28	24	4.6	4-27	9a	2.2e
1984	1-27	19	3.7	2-28	22	4.6e	3-28	24	5.5	4-25	25	6.1
AVERAGE:		21	3.9		23	4.6		26	5.3		21	5.3

● Unpublished but probably useful to you

S.C. - Butte Creek

Elev. - 2900'

Lat. - $63^{\circ}00'45''N$

Long - $147^{\circ}53'20''W$

	Jan 1		Feb 1		Mar 1		April		May 1	
<u>Year</u>	<u>Date</u>		<u>Snow Depth</u>							
1981	1-7	15a	1-29	11a	3-6	15a	4-1	14a	4-30	8a
1982	1-5	8a	2-5	15a	3-12	18a	4-14	19a	5-12	9a
1983			2-11	25a	3-9	27a	4-15	28a	5-10	12a
1984	1-10	18a			2-22	27a	4-9	25a		

Unpublished but probably useful to you

S.C. - Butte Creek

Elev. - 2900'

Lat. - 63° 00' 45" N

Long - 147° 53' 20" W

Year	Date	Snow Depth
Jan 1		
Feb 61		
Mar 1		
Apr 11		
May 1		
1981	1-7	15a
1982	1-5	8a
1983	2-5	15a
	2-11	25a
	3-9	27a
	4-15	28a
	5-10	12a
1984	1-10	18a
	2-22	27a
	4-9	25a