

# SOUTHEAST ALASKA

## 15087700 INDIAN RIVER AT SITKA

LOCATION.--Lat 57°03'12", long 135°18'52", in NE<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 36, T. 55 S., R. 63 E. (Sitka A-4 quad), Hydrologic Unit 19010203, Greater Sitka Borough, in Tongass National Forest, on Baranof Island, on right bank 500 ft upstream from Sawmill Creek Road, 600 ft downstream from Sheldon Jackson College Diversion, and 0.6 mi above mouth.

DRAINAGE AREA.--12.0 mi<sup>2</sup>

### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map.

REMARKS. Records good. Flow is diverted 600 ft upstream to Sheldon Jackson College.

#### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	16	104	73	62	73	e19	17	18	41	29	482
2	82	14	70	45	89	60	e16	16	21	39	47	435
3	58	14	56	38	81	40	e14	15	19	46	56	185
4	47	13	48	118	62	76	e14	14	18	122	41	101
5	69	13	42	121	53	52	e14	14	19	67	36	79
6	319	13	37	153	46	29	e14	14	18	49	31	61
7	753	13	36	134	42	22	e15	13	17	42	28	72
8	402	14	117	e75	38	19	e19	13	16	39	27	503
9	238	13	100	e52	35	18	e19	13	18	36	26	116
10	94	12	58	47	38	17	e17	13	20	34	24	109
11	66	12	49	45	38	15	e15	13	19	36	23	292
12	63	12	53	41	33	14	e15	32	19	35	23	117
13	59	21	61	35	29	15	e15	27	19	33	24	279
14	46	28	46	30	25	15	e16	33	18	32	23	365
15	38	29	50	27	22	17	e18	21	18	29	77	122
16	1270	20	48	26	21	15	e16	18	17	26	142	81
17	604	44	53	124	21	14	e15	17	18	26	141	65
18	93	35	52	65	26	16	14	16	23	25	65	62
19	63	121	36	101	49	14	14	16	45	24	56	66
20	515	65	30	125	25	14	14	15	91	24	165	175
21	1260	74	27	62	21	14	14	16	57	26	88	167
22	352	47	56	47	20	16	15	19	49	25	62	95
23	103	33	85	41	19	15	15	23	47	25	49	75
24	85	29	82	38	32	13	17	28	42	24	44	490
25	48	57	47	38	36	13	28	35	47	23	39	1010
26	43	999	34	57	26	13	34	38	120	22	34	208
27	47	436	29	127	27	e12	27	25	80	24	33	427
28	33	137	27	62	27	e14	21	22	86	23	31	303
29	24	83	25	51	---	e25	19	22	66	75	28	116
30	20	215	24	124	---	e52	18	20	49	41	111	81
31	17	---	55	72	---	e26	---	20	---	32	82	---
TOTAL	7007	2632	1637	2194	1043	768	521	618	1114	1145	1685	6739
MEAN	226	87.7	52.8	70.8	37.2	24.8	17.4	19.9	37.1	36.9	54.4	225
MAX	1270	999	117	153	89	76	34	38	120	122	165	1010
MIN	17	12	24	26	19	12	14	13	16	22	23	61
MED	69	29	49	57	32	16	16	17	19	32	39	119
AC-FT	13900	5220	3250	4350	2070	1520	1030	1230	2210	2270	3340	13370

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

MEAN	205	71.1	98.4	76.0	49.4	48.5	47.7	79.2	80.3	56.0	75.7	151
MAX	248	87.7	240	125	82.7	107	108	139	130	67.7	196	225
(WY)	1999	2003	2000	1999	2002	2001	1999	1999	1999	2000	2002	2003
MIN	141	38.0	51.0	55.7	23.6	24.8	15.2	19.9	37.1	36.9	22.0	78.9
(WY)	2001	1999	2002	2002	1999	2003	2002	2003	2003	2003	2001	2002

#### SUMMARY STATISTICS

	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	31980.7		27103			
ANNUAL MEAN	87.6		74.3		86.8	
HIGHEST ANNUAL MEAN					103	
LOWEST ANNUAL MEAN					74.3	
HIGHEST DAILY MEAN	1270	Oct 16	1270	Oct 16	2390	Oct 19 1998
LOWEST DAILY MEAN	a9.2	Apr 6	b12	Nov 10	a9.2	Apr 6 2002
ANNUAL SEVEN-DAY MINIMUM	9.2	Apr 6	13	Nov 6	9.2	Apr 6 2002
MAXIMUM PEAK FLOW			c3890	Oct 16	c5740	Oct 19 1998
MAXIMUM PEAK STAGE			25.93	Oct 16	26.84	Oct 19 1998
INSTANTANEOUS LOW FLOW			d11	Nov 11	9.0	Apr 9 2002
ANNUAL RUNOFF (AC-FT)	63430		53760		62910	
10 PERCENT EXCEEDS	152		123		157	
50 PERCENT EXCEEDS	48		35		50	
90 PERCENT EXCEEDS	13		14		19	

a Apr. 6 to Apr. 9, 2002

b Nov. 10 to Nov. 12, and Mar. 27

c From rating curve extended above 1050 ft<sup>3</sup>/s

d Nov. 11 and 12