Appendix A:
1994 Plan of Work

Kodiak Urban Lakes Project

BY

CLEAN LAKES FOR KODIAK

A CITIZEN'S SUBCOMMITTEE OF

THE
KODIAK SOIL AND WATER CONSERVATION
DISTRICT

JUNE 2, 1997

Appendix A:
1994 Plan of Work

Clean Lakes for Kodiak Subcommittee
Project Plan of Work
20 February 1995

This project has two fundamental purposes. First, we will determine the causes of declining water quality in our urban lakes and, where feasible, reverse the decline. Second, we will document the current status of the lakes and watersheds for future reference. This will serve as a baseline for comparison so we can measure improvement or degradation as time passes.

The list of tasks which follows describes the actions which will be taken during this study to document baseline conditions, diagnose problems in the watersheds, develop alternative solutions, and analyze the feasibility of implementing such solutions. The name of the person or group responsible for accomplishing the action, and proposed start and completion dates are also tabulated.

This is a *working* document, and it is subject to substantial change as progress is made and new directions become apparent. The plan of work will be modified to reflect the consensus of the Clean Lakes for Kodiak membership.

Task I. Mapping

The purpose of this task is to draw together all the geographic information available from numerous sources. This will be useful both as an end product, and for use in executing the other tasks.

WHAT	WHO	WHEN (Begin/End)
Procure as-built storm drain and surface drainage maps from City Engineer	Blakeslee	
Procure prior drainage studies from City Engineer	Blakeslee	
Procure historic lake bathymetry maps from ADF&G		
Procure current lake bathymetry maps from ADF&G work (Task III.)		
Gather current and historic aerial photography from KIB		
Supplement KIB aerials with COE or other photos		
Produce simple field maps for use in ground truthing		
Characterize ground cover, wetlands, forest, habitat type		
Produce multilayer AutoCAD map including: Legal boundaries (subdivisions, ROWs,etc.) Topography Bathymetry Storm drain system with pipe slopes & diameters Surface drainages		

Solicit volunteer assistance for water sampling

Develop schedule for sampling, attempt to coordinate with KIB environmental engineer for sampling of "Smokey's Dump" runoff

Sample, collect, transport, analyze samples:
Turbidity, pH, iron, TDS, SS, O&G, fecal coliforms, chloride

DO temp color
dis. inorg / residuals

sheen
visual assessment

Investigate the extent of saltwater intrusion into Potatopatch and Mission Lakes at times of high tides

Boyscout?

Aberzombie?

Zoning
Vegetation types (forest, brush, grass, wetland, disturbed, developed)
Runoff coefficient zones
Watershed and sub-watershed boundaries

Conduct ground truthing (stream and lake walks, watershed inspections) to confirm data from aerial photography, as-builts, etc.

Compare recent shorelines with historic shorelines to quantify rates of sedimentation, changes in lake levels

Survey lake, culvert, and ocean elevations at Potatopatch and Mission Lake outlets to determine the tide levels at which seawater enters the lakes.

Task II. Pollutant Inventory

The purpose of this task is to determine what pollutants are present in the lakes and feeder creeks. Pollutant concentration and flow volume will be measured, and the relative significance of pollutant inputs will be assessed. Initial measurements will be made at the Baranof Park/Lilly Lake confluence and at Selief Lane to diagnose first order problems. Quarterly sampling will follow at system-wide stations in sync with limnological work by ADF&G (Task III).

WHAT	**WHO**	**WHEN** (Begin/End)
Procure portable water velocity meter		
Borrow ADF&G oxygen/temperature meter		
Borrow City of Kodiak data logging flow meters		
Procure sample bottles		
Formalize agreement with CoK Public Works to allow access to storm drain manholes and to analyze water samples at the Wastewater Lab		
Formalize agreement with ADF&G to manage the collection and analysis of limno samples		
Prepare Quality Assurance Project Plan for sampling/analysis		
Travel lake shores and measure location, size, and flow of creeks		
Establish inlet and outlet sampling stations, clear debris to facilitate flow measurements, install reference markers for future sampling		

Task III. Limnological and Fish Habitat Baseline Data

The purpose of this task is to characterize the capacity of the lakes to support fish, and to determine the current abundance of fish and other aquatic plants and animals.

WHAT	WHO	WHEN (Begin/end)

Formalize agreement with ADF&G to manage the collection and analysis of limno samples

Provide estimate of salmonid rearing capacity in the six study lakes plus pristine reference (Abercrombie Lake)

Prepare or adapt Quality Assurance Project Plan for sampling/analysis

Produce or update lake bathymetry maps, calculate area, volume, euphotic volume

Sample and analyze lake water following normal ADF&G protocol to assess lake fertility and rearing capacity. Parameters should include: DO, clarity (Secchi), nutrients, primary & secondary production

Evaluate fish abundance and condition using minnow traps to collect samples from the lakes

Collect samples of freshwater clams from Island Lake, identify.

Contact scientists with expertise in freshwater molluscs and their effect on eutrophication, determine filtration rates or experimental methods to determine this.

Perform filtration rate experiments, extrapolate the value of freshwater clams for clarifying lake water, investigate the possiblility of enhancement in lakes which lack natural populations.

Task IV. Waterfowl Habitat Baseline Assessment

The purpose of this task is to document the value of the urban lakes and watersheds for migrant, resident, and nesting waterfowl and songbirds. Potential enhancements to habitat will be investigated. The impact of feral cat population on brood success will be assessed.

WHAT	**WHO**	**WHEN** (Begin/End)
Contact Ducks Unlimited Western Region Headquarters in Sacremento for technical advice on waterfowl habitat values and feasible enhancement techniques		
Define rating system for habitat w.r.t. waterfowl		
Catalog lakes, streams, and wetlands per rating system		
Identify areas appropriate for restoration, protection, enhancement		
Enlist the assistance of Audubon Society members and others to count waterfowl abundance on a agreed schedule. Quantify waterfowl abundance "before".		
Contact Ron Jurek, California Fish & Game, concerning feral cat impacts on waterfowl.		
Involve local Humane Society to assess the magnitude of feral cat population		

Task V. Recreational and Scenic Value Assessment

The purpose of this task is to fix a value on non-economic, non-consumptive uses of natural lake and watershed areas. This task will articulate a consensus of Clean Lakes members regarding the aesthetic worth of natural areas within Kodiak's developed area. This will be useful for discussions with regulatory government entities and development interests.

WHAT	WHO	WHEN (Begin/End)
Appoint panel of citizens, residents, and local govt to address aesthetic issues in the context of economic constraints and private property rights		
Enumerate and rank aesthetic issues, including non-consumptive ecological values		
Identify access and recreational issues		
Prepare a consensus document regarding Sitka Spruce removal, threats to structures, the downwind domino effect of some removals, and other urban forestry issues as they relate to watershed effects and aesthetic values.		
Formulate recommendations for actions by local government, property owners, citizens		
Review the recently released Kodiak Island Borough Comprehensive Development Plan, develop consensus within Clean Lakes Group, and forward comments to borough officials		

Task VI. Public Involvement, Outreach, Education

The purpose of this task is to involve and educate the public - lakefront and watershed residents, students, and concerned citizens in general. This project originated from citizen's concern, and a wealth of knowledge, curiosity, and energy is available to be tapped. This task will attempt to organize that knowledge and to channel that energy toward action.

WHAT	WHO	WHEN
Conduct interviews w/residents r.e. historic lake conditions, forest cover, fish and wildlife abundance, tsunami effects, etc.		
Conduct bimonthly public meetings, send notification to members of CLK, Audubon, Ducks Unlimited, 4H, Scouts, other service groups, as well as property owners and the general public ▸ Review progress, expenditures, future activities. ▸ Accept comments from attendees, encourage debate and consensus building. ▸ Recruit ideas, energy, volunteers.		
Work with local print and broadcast media to produce public interest stories. Stories should be produced around one week in advance of bimonthly meetings.		
Recruit KIB School District high school fisheries class to assist with water sampling, fish trapping, possible smolt count.		

Contact 4H, Scouts, Elks, Kiwanis, Lions, Rotary, and other service organizations. Explain the project goals, issues, and progress. Solicit volunteer assistance for clean-ups, watershed catch basin labelling, revegetation, boardwalk construction, etc.

Define the role and level of effort available from Fred Sorensen, the University of Alaska Cooperative Extension Service agent. Develop a written Plan of Work to formalize the magnitude and schedule of his contribution

Boro comprehensive plan

Task VII. Inter-Governmental Networking

The purpose of this task is to develop a consensus on the value which community members place on clean lakes and scenic beauty within our urban area, and then make that value known to local government and regulatory agencies. Economic and social costs will be considered along with public benefits. We hope that a community-wide discussion will ultimately influentce maintenance and development decisions by local government.

WHAT	WHO	WHEN (Begin/End)
Collect information from EPA, NRCS, ADEC, and COE on technical and regulatory issues.		
Conduct round table discussions within Clean Lakes membership to develop consensus on positions regarding aesthetic isssues, the importance of water quality and watershed management, regulatory enforcement or non-enforcement, etc.		
Write position paper on the above issues and their implications for public resource management and development, and submit to City, Borough, and local offices of State Agencies. Include zoning, public works, and building officials.		
Conduct round table discussions between Clean Lakes board and government entities to begin movement toward constructive changes in maintenance and development policies.		

Task VIII. Feasibility Analysis

The purpose of this task is to articulate the nature of the problems in the lakes and within the watersheds, to develop and refine possible solutions, to rank the options, and then to present favored options to local government and potential funding agencies for implementation.

WHAT	WHO	WHEN
Produce a simple statement of findings from water quality assessment, habitat, and aesthetics tasks.		
Identify potential actions which could mitigate existing or anticipated problems.		
Produce concept drawings and rough cost estimates for construction tasks, draft wording and cost/benefit analyses for policy or regulatory changes.		
Conduct round table discussions within Clean Lakes membership to rank viable options. Include citizens, property owners, business interests.		
Produce submittal with refined drawings and verbage detailing selected options, present to local government and potential funding agencies.		

Task IX. Reporting

WHAT	WHO	WHEN
Produce monthly one-page progress reports in letter format		
Produce interim report on feasible alternatives and public input		
Produce Semi-annual and Final project reports to include technical and financial performance.		

Task Z. Restoration Action

Actual construction aimed at habitat restoration is outside the scope of the current NRCS and potential EPA projects. However, this project has been action oriented from the beginning, and alternative means to implement fixes will be sought using volunteers, local funds, or grants from other programs in the Federal Government.

WHAT	**WHO**	**WHEN** (Begin/End)
Organize and execute lake shore and stream clean-ups		
Organize and execute lake and steambank plantings for erosion control and stabilization.		
Develop conceptual designs for the City owned lot in the southwest corner of Potatopatch Lake. This could include constructed wetlands for stormwater treatment, boardwalks for waterfowl viewing and picknicing, interpretive signage, or a host of other options.		

Schedule:

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                1995                                                    1996
Task            Feb Mar Apr May Jun Jul Aug Spt Oct Nov Dec Jan Feb
1. Mapping      ---------------------0
2. Pollutants   -----o---o-----o-----o-----o-----o---0
3. Limno                0-----o-----o-----o-----o---0
4. Birds         0-------0   0   0           0   0-------0
5. Rec./Scen.    0-------------------------------------------0
6. Outreach      0   0   0   0-------------------------------0
7. Govt Net      0---------------0               0-----------0
8. Feasibilty    0-----------0                   0--------------0
9. Reporting     o   o   o   o   o   o   0   o   o   o   0   o   0
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Appendix B:
City Lab water quality results

CLEAN LAKES WATER QUALITY DATA

HORSESHOE-DARK-ISLAND LAKE DRAINAGE

STATION	DATE	FLOW CFS	TEMP C	D OXYGEN	F COLIFORMS	pH	TURBIDITY	TDS	TSS	IRON	COLOR	CONDUCTIVITY	CL	COMMENT
U HORSESHOE L LIMNO STA	13 MAR 95		0	4.3										under ice
	3 MAY 95		10	11.2										
	17 MAY 95				10	6.73	17	81	3	2.03	72			
H2 U HORSESHOE OUTLET	13 FEB 95	0.01	0	6.2										
	13 MAR 95	0			0	6.18	52	156	177	10				sediment ?
	20 MAR 95						14.9							
	28 MAR 95	0.26					1671	140.3						
	15 MAY 95				1	6.62	22	119	15	1.74	67			
	21 JUN 95	0.11	12		330	6.66	24	99	20	2.05	84			
	24 JUL 95	0.077			40	6.77	24	92	88	2.68	65			
	5 SEPT 95	0.445			2430	6.46	17				119			
	13 SEPT 95		15					90				0.18		
	24 OCT 95				70	6.68	14.7				86			
H3 N SIDE SELIEF CULVERT	13 FEB 95	0.2	1	11.4										
	9 MAR 95	0.05	0.5	11.4										
	13 MAR 95	0			1	6.51	7.3	150	2	1.46				
	28 MAR 95	0.89					1000	160.9						over ice
	15 MAY 95				TNTC	6.42	>99.9	114	136	1.83	155			
	21 JUN 95	0.23	9		10	6.57	>99.9	62	246	1.93	139			
	24 JUL 95	0.091			10	6.72	7.5	116	3	1.33	60			
	5 SEPT 95	0.477			760	6.42	16				79			
	24 OCT 95				600	6.55	25				80			
L HORSESHOE L LIMNO STA	13 MAR 95		0	8.2										
	3 MAY 95		9.5	11.4										
	17 MAY 95				20	6.74	30	112	17	1.66	82			
H5 L HORSESHOE OUTLET	13 MAR 95				0	6.25	50	188	58	6.53				sediment ?
	20 MAR 95						29.1							
	28 MAR 95						216	167.1						
	15 MAY 95				8	6.67	35	103	18	2.15	100			
	21 JUN 95	0.42	13		1170	7.1	72	88	55	2.03	95			
	24 JUL 95	0.216			10	6.87	7.2	91	3	1.35	59			
	5 SEPT 95				2470	6.45	85				130			
	13 SEPT 95		16.4					90				0.18		
	24 OCT 95				550	6.81	39				74			
H4 L RESERVOIR CREEK	13 FEB 95	1.36												
	9 MAR 95	0.74	0.5											
	13 MAR 95				0	6.39	2.1	45.1	3	0.34				
	20 MAR 95						2.8							
	28 MAR 95	3.25					5.5	79.5						
	15 MAY 95				0	6.54	2.6	50	2	0.61	26			
	21 JUN 95	1.95	8.5		30	6.71	1.2	45	8	0.72	26			
	24 JUL 95	1.44			10	6.71	1	46	2	0.45	20			
	5 SEPT 95	5.72			110	6.62	8.6				69			
	13 SEPT 95		12.7					40				0.08		
	24 OCT 95				-10	6.75	4				59			
H6 W END SELIEF DITCH	28 MAR 95						42.6	101						
	15 MAY 95				3	6.48	6.5	56	5	0.88	42			
H1 SELIEF DITCH OUTLET	5 FEB 95	20.4												
	13 FEB 95	3.92	1	12.8										
	9 MAR 95	2.28	0.5	11.6										
	13 MAR 95				341	6.43	5.4	150	3	1.04				
	20 MAR 95						3.1							
	28 MAR 95	6.83					440	109.2						
	15 MAY 95				TNTC	6.66	6.6	58	3	0.89	44			
	21 JUN 95	2.97	9		5400	6.71	24	52	21	1.05	53			
	24 JUL 95	1.62			60	6.64	2.8	54	3	0.88	30			
	2 AUG 95				200	6.73	6.7				69			
	5 SEPT 95	6.7			620	6.41	22				86			
	13 SEPT 95		13.7					50				0.11		
	24 OCT 95				90	6.58	10.5				39			
B2 BEAVER LAKE LOOP	26 JUN 95		11		80	6.63	1	80	3	0.25	22			
B3 BL LOOP DUMPSTER	26 JUN 95		9		10	6.58	0.9	143	4	0.3	5			
BEAVER LAKE LIMNO STA	13 MAR 95		0	10.6										under ice
	3 MAY 95		9.5	11.4										
	17 MAY 95				1	6.69	6.5	59	4	0.65	41			
BEAVER L OUTLET TO DARK L	13 MAR 95				306	6.3	7	67	2	1.04				
	21 JUN 95	2.04	12		10	6.69	2.3	57	1	0.5	23			
	24 JUL 95	1.18			20	6.65	1.8	49	2	0.43	25			
	5 SEPT 95	11.68			30	6.65	3.7				105			
	13 SEPT 95		13.5					40				0.09		
	24 OCT 95				30	6.79	8.9				124			
DARK L LIMNO STA	20 MAR 95		0	9.2										under ice
	2 MAY 95		8	11.8										
	17 MAY 95				0	6.73	3.5	60	3	0.46	24			
DARK L OUTLET TO ISLAND L	20 MAR 95	0.7	1	9.6	0	6.59	7.6	63.2	4	0.53				
	21 JUN 95	3.3	13		10	6.85	1.3	58	1	0.31	14			
	24 JUL 95	3.25			10	6.68	1.15	51	0	0.32	20			
	5 SEPT 95	10.9			60	6.72	1.3				64			
	13 SEPT 95		14.4					50				0.1		
	24 OCT 95				10	6.8	4.8				94			
I2 PLAYGROUND CREEK	13 FEB 95	0.44	1	12.2	0	6.67	6.7	135	1	1.44				
	17 MAY 95	0.41			1800	7.3	14	143	5	3.05	88			
	21 JUN 95	0.2	10		1640	7.2	>99.9	121	322	3.4	86			
	24 JUL 95	0.19			240	7.04	18	148	11	2.7	80			
	2 AUG 95				10	7.35	21				90			
	5 SEPT 95	1.14			100	6.74	19				110			
	13 SEPT 95		12.2					160				0.33		

	24 OCT 95				390	6.7	61				115		
	31 OCT 95				250	6.96	12	0.11			87	0.22	HACH
I3 DRAINAGE ARCTIC TERN	13 FEB 95	0.04	1	9.4									
	17 MAY 95	0.03			0	6.71	4.3	110	3	0.88	24		
I4 CULVERT I2+I3	20 MAR 95	0.124	0	7.4									
	17 MAY 95	0.45											
IS LK PARK SWIM BEACH	21 JUN 95				12700	6.84	1.2	70	6	0.21	18		
	28 JUN 95				10								
	24 JUL 95				10								
	2 AUG 95				10	7.02	0.95				33		
	5 SEPT 95				20								
	24 OCT 95				170	6.94	7.6				84		
ISLAND LK LIMNO STA	20 MAR 95		0	10.4									under ice
	1 MAY 95		9	11.4									
	17 MAY 95				1	6.69	3.6	70	2	0.36	21		
I1 ISLAND LK OUTLET	13 FEB 95	6.57	1	10.4									
	20 MAR 95		1	10.4	0	6.68	5.9	65.5	3	0.35			
	28 APR 95		6										
	17 MAY 95	3.97			0	7.06	3.4	70	5	0.36	24		
	21 JUN 95	2.15	13		10	6.79	1.3	68	3	0.22	9		
	24 JUL 95	7.02			70	6.74	1.2	63	3	1.75	16		
	2 AUG 95				20	6.9	1				44		
	5 SEPT 95	31.88			10	6.64	1.4				39		
	13 SEPT 95		14.4					60				0.13	
	24 OCT 95				20	6.72	3.4				46		

CLEAN LAKES WATER QUALITY DATA

LILLY-POTATOPATCH DRAINAGE

STATION	DATE	FLOW CFS	TEMP C	D OXYGEN	F COLIFORMS	pH	TURBIDITY	TDS	TSS	IRON	COLOR	CONDUCTIVITY	CL	COMMENT
L2 MILL BAY DITCH TO LILLY LK	13 FEB 95	0.08	0.5	9.5										
	11 MAY 95				162	6.29	8	112	14	3.2	10			
	17 MAY 95	0.1			33	6.72	44	124	76	3.4	83			
	26 JUN 95		12		20	6.48	33	130	30	9.9	120			
	26 JUL 95	0.055				6.4	13	127	4		85			
	7 SEPT 95	1.5			610	8.5	17				84			
	13 SEPT 95		14.5					120				0.24		
	31 OCT 95		8.4		130	6.41	6	0.08			52	0.17		HACH
L3 AIRPORT DRAINAGE	11 MAY 95				2	6.38	2.4	44	1	0.09	9			
LILLY LK LIMNO STA	20 MAR 95		0	8.6										
	5 MAY 95		11	11										
L1 LILLY LK OUTLET	13 FEB 95	0.35	1.5	11										under ice
	22 MAR 95				0	6.43	7	108	3	2.77				
	11 MAY 95				15	6.62	124	115	256	0.48	210		800	
	17 MAY 95	0.42			1	6.69	14	113	13	0.61	44			
	26 JUN 95		15		10	6.99	2.9	93	2	0.43	18			
	26 JUL 95	0.477	17			6.79	1.2	77	8		14			
	7 SEPT 95	3.93			70	6.78	3.8				55			
	13 SEPT 95		14.3					70				0.15		
	31 OCT 95		6.2		40	6.91	6	0.06			52	0.11		HACH
P2A, MANHOLE-OLE JOHNSON	11 MAY 95				CONFLUENT	6.28	49	90	4	3.6	32			
	2 AUG 95				280	6.73	17.1				134			
	31 OCT 95				1280	6.45	40				60			
P2B, MANHOLE-17TH	11 MAY 95				90	6.48	16.4	115	12	0.79	15			
	2 AUG 95				270	6.81	4.4				48			
P2 CULVERT UNDER REZANOFF	25 JAN 95	0.85												
	26 JAN 95	1.29												
	5 FEB 95	20.2												
	13 FEB 95	2.01	1.5	13.3										
	8 MAR 95	1.11	2	12.2										
	22 MAR 95				3	6.48	7.25	99.4	1.3	1.32				
	11 MAY 95				>200	6.72	21.3	110	12	1.1	15			
	26 JUN 95		12		10	102	7.2	102	1	0.44	41			
	26 JUL 95	0.938	13		10	7.59	8.8	93	7		83			
	2 AUG 95		13			6.2								pH HACH
	10 AUG 95		13.5			7.54								HACH
	7 SEPT 95	13.41			1000	7.03	25				60			
	13 SEPT 95		13.5					90				0.18		
	31 OCT 95	5.68	6.9		550	6.93	10	0.06			75	0.14		HACH
P3 INLET-MID NORTH SHORE	11 MAY 95				16	7.09	16.1	185	14	0.25	9			
P4,CULVERT-WITHROW CLINIC	11 MAY 95				73	6.86	14.2	81	7	0.31	8			
P5 INLET-CULVERT, SW CORNER	11 MAY 95				CONFLUENT	6.48	32.3	67	5	0.47	22			
	26 JUN 95		9		10	7.11	3.9	53	2	0.44	21			
	26 JUL 95	0.061	10			6.9	3.2	53	0		22			
	2 AUG 95				10	6.96	2.8				31			
	10 AUG 95		12.5			8.21								HACH
	7 SEPT 95	0.48			1110	6.57	23				58			
	13 SEPT 95		13.1					60				0.12		
	31 OCT 95	0.275	7.6		50	6.5	3	0.08			37	0.16		HACH
P6,CULVERT-MID W SHORE	11 MAY 95				POSITIVE	6.62	>99.9	93	9	1.9	34			
POTATOPATCH L LIMNO STA	7 MAR 95				0	7.16	3.7	87.4	4.5	0.68				under ice
	4 MAY 95		10	11.3										
	11 MAY 95				102	6.8	24.3	250	16	0.76	19			
75'OFF OUTLET,4' DEEP	13 SEPT 95							90				0.19		
P1 POTATOPATCH OUTLET	5 FEB 95	16.3												
	13 FEB 95	2.18	1	11.8										
	8 MAR 95	1.41	2	12.2										
	27 APR 95		11											
	11 MAY 95				90	6.9	23.8	291	14	0.72	19		650	
	26 JUN 95		16		10	7.74	5.7	250	6	0.45	14			
	26 JUL 95	0.971	17		30	9.54	5.1	239	15		22			
	2 AUG 95		15.3		40	9.38	6.6				54			ph 8.89 HA
	10 AUG 95		15.2			9.47								HACH
	25 AUG 95		18.5			9.53								HACH
	7 SEPT 95	16.18			300	6.92	12				43			
	13 SEPT 95		13.4			7.28		100				0.2		HACH
	31 OCT 95	6.67	7.1		470	6.86	18	0.09			44	0.19		HACH

MISSION DRAINAGE

STATION	DATE	FLOW CFS	TEMP C	D OXYGEN	F COLIFORMS	pH	TURBIDITY	TDS	TSS	IRON	COLOR	CONDUCTIVITY	CL	COMMENT
M2 BURCHS' CULVERT	13 FEB 95	0.36	1.5	12.8										
	8 MAR 95	0.11	1.5	13.2										
	10 AUG 95		13.2			6.08								HACH
M2 MANHOLE	8MAY 95				800	6.84	26	128	17	1.3	111			
	15 MAY 95				15	6.79	13	130	5	1.73	83			
	26 JUN 95		11		10	7.56	7.6	152	2	2.19	62			
	26 JUL 95	0.544	13		60	7.38	8.5	134	12		62			
	2 AUG 95				60	7.51	12.3				88			
	7 SEPT 95	7.58			640	6.86	34				131			
	13 SEPT 95		13.4					130				0.25		
	31 OCT 95	4.84	7.1		120	6.95	10	0.08			75	0.17		HACH
M2 50' OFF INLET MOUTH	7 MAR 95				0	6.59	8	132	2	2.09				under ice
	15 MAY 95				39	6.84	12.9	530	5	2.98	61			
M3 SUTTLIFF'S DRIVE CULVERT	8 MAR 95	0.075	2	10.7										
	8 MAY 95				0	6.41	0.9	39	1	0.2	11			
	10 AUG 95		12.4			6.87								HACH
M4 MISSION FIELD CULVERT	8 MAR 95	0.35	1	10										
	8 MAY 95				22	6.32	9	97	6	1.7	71			
	2 AUG 95		14.2			5.93								pH HACH

	10 AUG 95		12.5			7.33								HACH
	13 SEPT 95		15.5					90				0.19		
M5 INLET E END DUMPSTER	15 MAY 95				2	6.46	0.4	99	0	0.041	16			
	10 AUG 95		11.5			6.94								HACH
MISSION LAKE LIMNO STA	7 MAR 95				0	6.43	3.9	134	5	0.67				under ice
	8 MAR 95		2	8.4										
	4 MAY 95		13	10.5										
COVE AT E END	7 MAR				0	6.33	10	143	7	1.29				
	13 SEPT 95		13.8					26				0.52		
75' OFF OUTLET, SURFACE	25 AUG 95		20					33				0.65		
	13 SEPT 95		13.5					33				0.66		
75' OFF OUTLET, 4' DEEP	25 AUG 95		20					34				0.68		
	13 SEPT 95		13.5					1295				22.74		AFTER HI
M1 MISSION LK OUTLET	13 FEB 95	NA	1	10.2										
	7 MAR 95				0	6.49	19.9	131	11	0.81				
	8 MAR 95	0.86	2	8.3										
	27 APR 95		11											
	8 MAY 95				58	6.95	14	890	9	0.5	67		700	
	15 MAY 95				2	6.86	19.2	744	13	0.88	59		570	
	26 JUN 95		16		10	9.34	2.9	530	3	0.21	20			
	25 JUL 95	1.235	18			9.58	4.6	250	13		44			
	2 AUG 95		15.5		10	9.68	1.8				23			pH 9.35 HA
	10 AUG 95		14.6			9.42								HACH
	25 AUG 95		21			9.3								HACH
	7 SEPT 95	20.4			130	7.02	18				84			
	13 SEPT 95		13.5			7.06		330				0.68		HACH
	31 OCT 95	12.08	7		30	7.02	12	0.71			59	1.42		HACH

ABERCROMBIE DRAINAGE

STATION	DATE	FLOW CFS	TEMP C	D OXYGEN	F COLIFORMS	pH	TURBIDITY	TDS	TSS	IRON	COLOR	CONDUCTIVITY	CL	COMMENT
A2 INLET WEST END	17 MAY 95	0.32			4	6.85	1.3	95	1	0.3	22			
	26 JUL 95	0.209				6.84	3.2	98	16		48			
	7 SEPT 95	4.43			100	6.81	4.3				113			
	31 OCT 95		7.1		-10	6.42	3	0.07			74	0.15		HACH
ABERCROMBIE LK LIMNO STA	30 MAR 95		1	9.6										under ice
	5 MAY 95		8	11.8										
	17 MAY 95				0	6.84	0.6	93	2	0.14	13			
	13 SEPT 95		13.5					90				0.19		

Appendix C:
National Weather Service Climate Data Summaries, 1995 & 1996, Kodiak, Alaska

NORMALS, MEANS, AND EXTREMES

KODIAK, ALASKA

LATITUDE: 57° 45' N LONGITUDE:152° 30' W ELEVATION: FT. GRND 15 BARO 112 TIME ZONE: ALASKA WBAN: 25501

	(a)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F														
Normals														
-Daily Maximum		35.0	36.1	38.9	43.7	49.5	55.6	60.5	61.9	56.6	47.2	39.9	36.4	46.8
-Daily Minimum		24.7	24.9	26.9	31.4	37.5	43.6	48.2	48.4	43.4	34.2	28.8	25.2	34.8
-Monthly		29.9	30.5	32.9	37.5	43.5	49.6	54.4	55.2	50.0	40.7	34.4	30.8	40.8
Extremes														
-Record Highest	46	54	56	57	64	80	86	82	83	73	62	54	56	86
-Year		1963	1957	1963	1965	1968	1953	1989	1968	1985	1983	1986	1984	JUN 1953
-Record Lowest	46	-16	-12	-6	7	20	30	37	36	26	10	0	-1	16
-Year		1989	1971	1971	1977	1949	1968	1966	1994	1992	1975	1971	1970	JAN 1989
NORMAL DEGREE DAYS:														
Heating (base 65 °F)		1088	966	995	825	667	462	329	304	450	753	918	1060	8817
Cooling (base 65 °F)		0	0	0	0	0	0	0	0	0	0	0	0	0
% OF POSSIBLE SUNSHINE														
MEAN SKY COVER(tenths)														
Sunrise - Sunset	27	7.3	7.2	7.2	7.5	8.0	7.9	8.0	7.6	7.5	7.0	6.9	7.3	7.4
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	24	5.2	6.0	6.2	4.5	3.3	3.4	3.2	4.1	4.1	5.8	6.8	6.1	58.8
-Partly Cloudy	24	5.8	4.7	6.5	6.2	5.6	5.8	5.8	7.0	7.5	7.8	6.5	5.7	74.9
-Cloudy	24	20.0	17.5	18.3	19.3	22.1	20.8	22.1	19.8	18.4	17.4	16.7	19.2	231.5
Precipitation														
.01 inches or more	45	17.2	15.8	16.6	16.0	17.7	15.2	14.6	14.3	15.6	16.2	16.5	17.3	192.9
Snow,Ice Pellets,Hail														
1.0 inches or more	31	4.0	5.0	4.2	2.3	0.1	0.0	0.0	0.0	0.0	0.7	2.0	3.9	22.2
Thunderstorms	24	0.0	0.0	0.0	0.0	0.0	0.1	0.*	0.*	0.0	0.0	0.0	0.*	0.3
Heavy Fog Visibility														
1/4 mile or less	24	1.0	1.2	0.9	0.3	1.2	1.5	2.8	2.6	0.7	0.3	0.3	0.8	13.4
Temperature °F														
-Maximum														
70° and above	32	0.0	0.0	0.0	0.0	0.4	1.2	2.5	3.2	0.3	0.0	0.0	0.0	7.6
32° and below	32	8.0	7.2	3.9	0.9	0.*	0.0	0.0	0.0	0.0	0.8	3.8	7.3	31.9
-Minimum														
32° and below	32	21.4	20.7	20.8	13.7	3.3	0.1	0.0	0.0	0.8	12.2	18.7	22.5	134.2
0° and below	32	0.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.2	1.5
AV. STATION PRES.(mb)	22	997.2	999.3	999.9	1002.9	1005.1	1008.5	1011.0	1009.2	1003.8	998.0	997.0	996.7	1002.4
RELATIVE HUMIDITY (%)														
Hour 03	47	79	78	78	78	83	86	88	87	85	80	78	76	81
Hour 09 (Local Time)	47	79	79	77	74	76	79	82	81	81	78	78	77	78
Hour 15	47	76	73	69	68	72	75	77	74	73	69	72	74	73
Hour 21	47	79	78	76	75	78	79	82	83	83	78	77	77	79
PRECIPITATION (ins):														
Water Equivalent														
-Normal		7.38	5.28	4.63	4.20	5.52	4.78	3.70	5.15	6.99	7.18	5.96	6.81	67.58
-Maximum Monthly	46	15.77	12.43	10.14	8.74	12.67	16.88	10.21	11.13	12.60	14.53	15.36	19.82	19.82
-Year		1977	1977	1994	1993	1983	1987	1985	1977	1957	1977	1983	1985	DEC 1985
-Minimum Monthly	46	0.24	1.41	0.67	1.13	1.00	0.70	0.84	0.65	1.20	1.56	0.19	1.21	0.19
-Year		1969	1956	1991	1954	1964	1978	1980	1994	1977	1956	1950	1977	NOV 1950
-Maximum in 24 hrs	46	3.20	4.07	2.87	1.92	3.63	3.85	3.12	3.93	2.76	7.44	7.81	4.41	7.81
-Year		1960	1977	1994	1993	1979	1987	1985	1993	1988	1991	1991	1985	NOV 1991
Snow,Ice Pellets,Hail														
-Maximum Monthly	46	40.1	38.8	74.5	34.8	6.0	T	0.0	0.0	0.4	14.9	30.0	46.4	74.5
-Year		1971	1984	1956	1985	1971	1965			1977	1961	1989	1990	MAR 1956
-Maximum in 24 hrs	46	12.0	19.0	17.8	11.3	4.0	T	0.0	0.0	0.4	10.0	14.0	15.7	19.0
-Year		1976	1992	1956	1985	1968	1965			1977	1970	1965	1990	FEB 1992
WIND:														
Mean Speed (mph)	41	12.8	12.5	12.4	11.6	10.7	9.3	7.7	8.3	9.7	11.3	12.6	12.5	10.9
Prevailing Direction														
Fastest Obs. 1 Min.														
-Direction (!!)	21	31	30	30	10	30	06	09	02	31	31	30	30	30
-Speed (mph)		55	~~46~~	55	46	40	36	35	45	60	49	~~62~~ 66	58	~~52~~ 66
-Year		1993	1974	1989	1988	1986	1989	1994	1969	1986	1985	~~1994~~ 1995	1994	~~NOV 1994~~ NOV 1995
Peak Gust			~~58~~ 1996											
-Direction (!!)	15	NW	NW	NW	E	W	NE	NW	NW	NW	NW	W	NW	NW
-Speed (mph)	15	75	~~57~~	82	67	59	52	52	67	78	70	82	83	83
-Date		1993	~~1984~~ W 83 1996	1989	1988	1986	1987	1984	1984	1986	1985	1994	1994	DEC 1994 FEB 1996

(!!) See Reference Notes on Page 6B

DECEMBER 1996
LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

KODIAK, AK

KODIAK AIRPORT (ADQ)

Lat: 57°45' N Long: 152°29' W Elev (Ground): 15 Feet

Time Zone: ALASKA WBAN: 25501 ISSN #:0197-9817

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	DEG DAYS BASE 65° HEATING	COOLING	WEATHER	SNOW/ICE ON GND(IN) 0300 LST DEPTH	0900 LST WATER EQUIV	PRECIPITATION (INCHES) 2400 LST SNOW-FALL	2400 LST WATER EQUIV	PRESSURE (INCHES OF HG) AVERAGE STATION	AVERAGE SEA LEVEL	WIND SPEED = MPH DIR = TENS OF DEGREES RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM 5-SEC SPEED	DIR	2-MIN SPEED	DIR	DATE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	24	14	19	-13	10	17	46	0	SN SHSN	T		1.2	0.13	29.52	29.65	14.5	29	14.9			23	29	01
02	35	12	24	-8	25	28	41	0	RA SN SHSN BR VCSH VCFG	1		3.0	0.17	29.27	29.40	1.8	32	8.4			28	13	02
03	39	32	36	4	32	34	29	0	RA SN FG+ BR BLSN	3		3.8	1.35	28.29	28.41	15.4	35	22.5			46*	04	03
04	34	25	30	-2	24	28	35	0	SN BLSN	4	0.5	0.2	T	28.46	28.59	20.8	31	21.0			33	31	04
05	26	16	21	-11	9	17	44	0		4	0.4	0.0	0.00	28.94	29.07	26.6	30	26.9			39	31	05
06	17	12	15*	-17	4	12	50	0	SN	4	0.4	T	T	29.26	29.39	27.6	30	27.9			39	30	06
07	26	9*	18	-13	9	15	47	0	SN BR VCSH	4	0.4	0.4	0.02	29.27	29.40	4.7	25	8.9			20	29	07
08	34	26	30	-1	31	32	35	0	SN BR	6	0.9	13.1	0.73	28.65	28.77	4.8	07	17.6			32	12	08
09	38	32	35	4	33	35	30	0	RA SHRA SN PE FG BR	15	2.0	5.9	1.02	28.54	28.67	9.5	35	14.5			24	20	09
10	39	31	35	4	25	31	30	0	RA SN	14	1.6	T	0.07	28.63	28.76	12.6	32	15.5			25	30	10
11	33	27	30	-1	21	26	35	0	SN SHSN BLSN	9	2.6	0.5	0.05	28.92	29.05	26.4	31	26.9			35	32	11
12	28	24	26	-5	15	23	39	0	SHSN	9	2.6	T	T	29.24	29.36	24.3	31	24.7			35	30	12
13	32	22	27	-4	20	25	38	0	SN SHSN	8	2.6	4.4	0.05	29.54	29.66	20.8	31	21.2			37	30	13
14	33	19	26	-5	22	27	39	0		8	1.8	0.0	0.00	29.99	30.13	13.0	30	13.4			21	31	14
15	39	15	27	-4	24	27	38	0		7	1.7	0.0	0.00	30.28	30.42	4.8	24	6.2			10	21	15
16	39	35	37	6	35	36	28	0	RA BR VCSH	6	2.0	0.0	0.71	29.98	30.11	20.9	08	22.7			33	08	16
17	38	32	35	4	34	35	30	0	RA SN BR	3	1.6	0.3	1.95	29.33	29.45	16.8	36	22.3			29	04	17
18	35	32	34	3	30	32	31	0	SN SHSN BLSN	3	0.3	1.3	0.12	29.37	29.50	14.4	31	14.7			32	31	18
19	33	28	31	0	22	28	34	0	SN BLSN	3	0.3	0.3	0.02	29.76	29.89	23.6	31	23.7			32	31	19
20	35	30	33	3	18	28	32	0		3	0.3	0.0	0.00	30.29	30.42	19.1	30	19.5			32	32	20
21	43*	31	37*	7	22	31	28	0		3	0.3	0.0	0.00	30.14	30.27	17.3	32	18.6			28	35	21
22	36	29	33	3	20	27	32	0	SN SHSN VCSH	1		0.4	0.01	30.08	30.21	13.1	32	15.0			22	30	22
23	36	27	32	2	21	28	33	0	SN SHSN	1		1.1	0.05	30.11	30.24	7.4	36	16.1			29	07	23
24	37	31	34	4	24	32	31	0	SN SHSN VCSH	2		0.5	0.04	30.35	30.49	21.2	09	22.2			32	11	24
25	39	29	34	4	31	34	31	0	VCSH	1		0.0	0.00	30.25	30.38	9.8	09	13.2			25	10	25
26	36	20	28	-2	17	24	37	0		1		0.0	0.00	30.00	30.13	6.1	26	6.5			9	23	26
27	38	20	29	-1	20	26	36	0		1		0.0	0.00	29.97	30.10	6.2	27	6.8			14	31	27
28	32	18	25	-5	21	24	40	0		1		0.0	0.00	30.14	30.27	6.1	27	6.6			9	26	28
29	35	14	25	-5	15	24	40	0		1		0.0	0.00	29.62	29.75	9.1	30	10.3			21	29	29
30	34	27	31	1	16	26	34	0		1		0.0	0.00	29.35	29.48	11.7	32	11.9			21	32	30
31	29	20	25	-5	15	23	40	0	SN SHSN	1		T	T	29.13	29.25	13.1	31	13.3			23	29	31
	33.9	23.8	28.9		21.5	26.9	35.9	0.0	< MONTHLY AVERAGES	TOTALS->		36.4	6.49	29.51	29.63	10.4	32	16.6	<- MONTHLY AVERAGES				
	-2.5	-1.4	-1.9		<---------- DEPARTURE FROM NORMAL ---------->								-.32										

SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING:	1113	53	3974	160
COOLING:	0	0	0	0

GREATEST 24-HR PRECIPATATION: 2.32 DATE: 16-17
GREATEST 24-HR SNOWFALL: 13.1 DATE: 08
GREATEST SNOW DEPTH: 16 DATE: 09

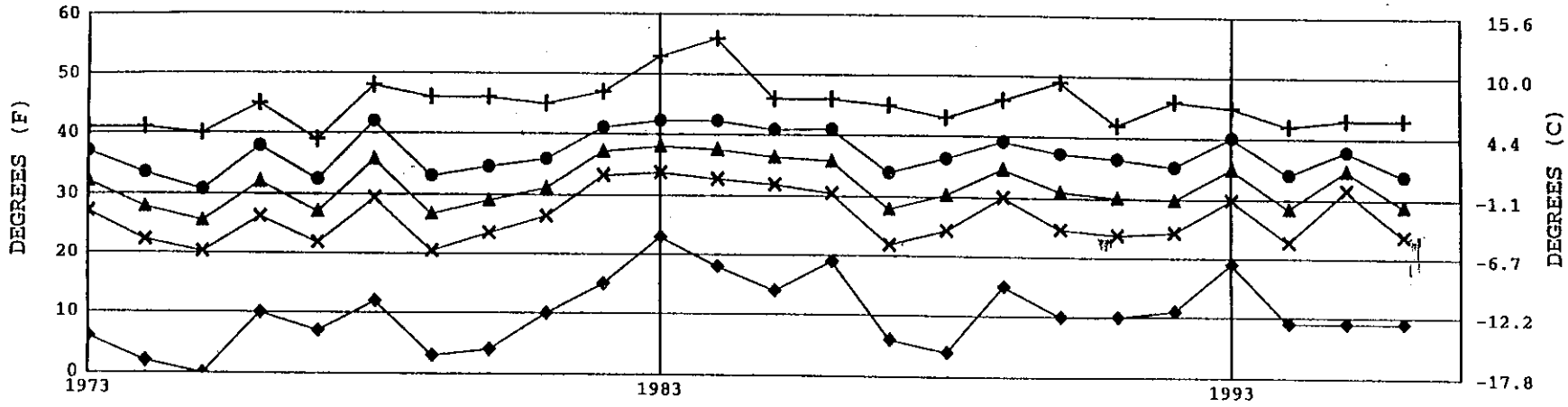
		DATE	TIME
SEA LEVEL PRESSURE MAXIMUM	30.53	24	0953
SEA LEVEL PRESSURE MINIMUM	28.11	03	1550

NUMBER OF DAYS WITH →

MAXIMUM TEMP ≥ 70:	0	MINIMUM TEMP ≤ 32:	30
MAXIMUM TEMP ≤ 32:	8	MINIMUM TEMP ≤ 0:	0
THUNDERSTORMS:	0	HEAVY FOG:	1
PRECIPITATION ≥ 0.01 INCH:	16		
PRECIPITATION ≥ 0.10 INCH:	8		
SNOWFALL ≥ 1.0 INCH:	8		

Published By: National Climatic Data Center

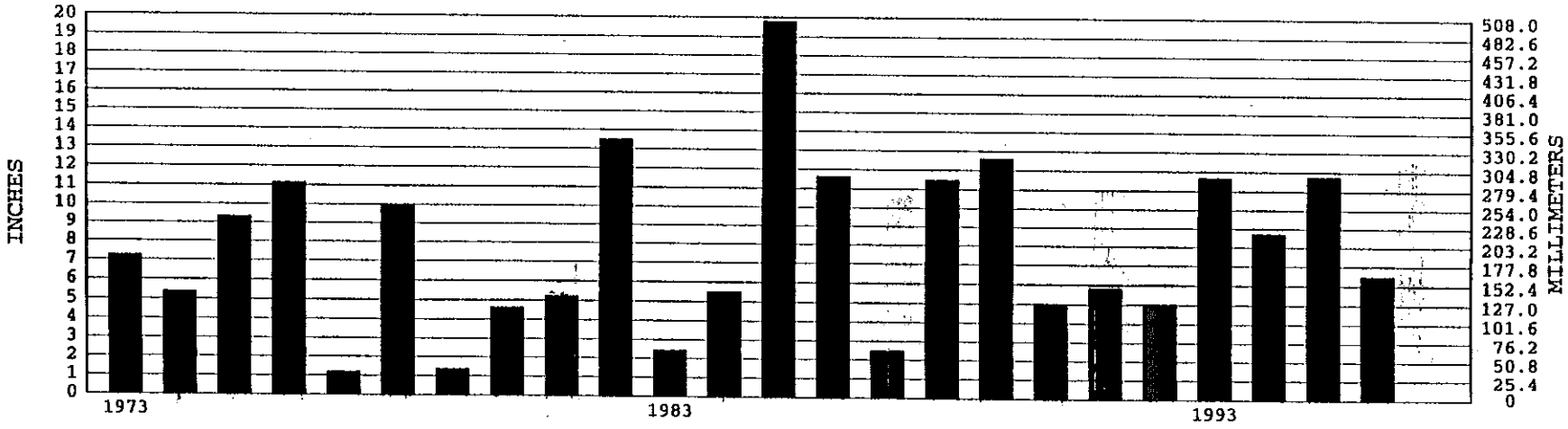
KODIAK, AK DECEMBER TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1973-1997) Mean: 30.6 1961-1990 Normal: 30.8

KODIAK, AK DECEMBER PRECIPITATION



Long-Term (1973-1997) Mean Monthly Total: 7.57 1961-1990 Normal: 6.81

ation: WSO, KODIAK AK
te: NOV 1996 To convert LST to UTC: +9

Hourly Precipitation

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
0.02	0.02	0.03	0.01	0.02	0.04	0.04	0.03	T	T	0.01	0.02	0.02	T	T										0.26
															T	T					T	T	T	T
							T	T																T
																					0.01	0.10	0.05	0.16
0.20	0.23	0.20	0.14	0.15	0.11	0.01	0.08	0.06	0.04	0.03	0.02	0.07	0.05	0.03	0.03	0.05	0.04	0.06	0.10	0.08	0.03	0.04	0.01	1.86
0.05	0.07	0.06	0.04	0.04	0.07	0.07	0.07	0.16	0.13	0.08	0.04	0.03	0.09	0.09	0.10	0.10	0.09	0.08	0.08	0.10	0.10	0.06	T	1.80
T	T	T	T	T	T	0.01	T	T																0.01
												T				T	T		T	T				T
						T	0.01	0.03	T	0.02	0.01	0.01	T	0.01	0.01	T	T							0.10
																T	T			T	T	T	T	T
		T	T	T	T										T	T	T				T	T	T	T
T	T	T	T			T	T	T	T													T	0.04	0.04
0.01	0.02	0.07	0.07	0.05	0.02	T	T	T	T	0.01	0.06	0.03	T	0.03	0.05	0.03	T	T	T	T	0.01	0.03	0.01	0.50
T	T					T	T	T	T	T	T	T	T	0.08	0.01	0.01	T	T	T	T	T	T	T	0.10
T	T	T	0.04	0.05	0.02	T	T	0.08	0.05	0.03	0.03	0.04	0.03	0.01	0.01	T	0.01	0.03	0.02	0.03	0.03	0.03	0.02	0.56
T	T	T	T		T	T	T	T	T	T	T	T	T	0.01	T	T	T							0.01
		T	T																					T
																		T	T	0.03				0.03
	0.01	0.07	0.01	0.01	0.04	0.06	0.02	0.06	0.10	0.08	0.09	0.10	0.07	0.05	0.06	0.03	0.03	0.02	0.02	0.07	0.04	0.05	0.04	1.13
0.02	0.03	0.03	T	T	0.03	0.01	T	T																0.12
																			T	T	0.02	0.01	T	0.03
T	T	0.02	T	T	T	T	T	0.01																0.03
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
0.30	0.38	0.48	0.31	0.32	0.33	0.20	0.21	0.40	0.32	0.26	0.27	0.30	0.24	0.31	0.27	0.22	0.17	0.19	0.22	0.31	0.24	0.32	0.17	6.74

est in 24 hour: 1.96 on 10 - 11

Preliminary Local Climatological Data (WS Form: F-6)

Station: WSO, KODIAK AK
Month: NOV
Year: 1996

Latitude +5745 | Longitude +15229 | Gnd Elev. 111 ft. | Std Time: AST

Temperature in Fahrenheit							: Precip(in.):	Snow :	Wind :	Fastest 2-Min :		Sunshine :	Sky		: Peak Wind	
Columns																
-1- Day	-2- Max	-3- Min	-4- Avg	-5- Dep.	-6a- HDD	-6b- CDD	-7- Water	-8- Snow	-9- Depth	-10- Avg.	-11- Speed	-12- Dir	-13- Mins.	-14- %PSBL	-15- SR-SS	-16- Weather	-17- Speed	-18- Dir
1	44	39	42	5	23	0	0.26	0.0	0	15.3	21	320			7	1	31	N
2	45	29	37	0	28	0	0.00	0.0	0	7.0	15	320			2		17	NW
3	46	27	37	1	28	0	0.00	0.0	0	6.6	10	200			8		22	SW
4	47	34	41	5	24	0	T	T	0	12.4	29	270			4		40	W
5	45	36	41	5	24	0	T	T	0	17.4	32	270			5		44	W
6	44	29	37	1	28	0	0.00	0.0	0	9.0	32	270			4		46	W
7	33	25	29	-7	36	0	0.00	0.0	0	16.7	24	300			3		35	W
8	34	24	29	-7	36	0	0.00	0.0	0	8.7	14	290			6		21	W
9	36	21	29	-6	36	0	0.00	0.0	0	10.4	15	300			0		20	NW
10	39	23	31	-4	34	0	0.16	0.2	0	13.6	26	310			8		30	NW
11	45	36	41	6	24	0	1.86	0.0	0	18.2	28	050			8	1	46	NW
12	46	41	44	9	21	0	1.80	0.0	0	11.7	25	360			8	1	30	NE
13	45	34	40	5	25	0	0.01	0.0	0	5.3	10	320			7	1	10	NW
14	43	33	38	3	27	0	T	0.0	0	6.4	15	120			8	2	17	SE
15	42	40	41	7	24	0	0.10	0.0	0	16.5	23	120			8	1	28	SE
16	42	36	39	5	26	0	0.00	0.0	0	8.7	20	110			7		21	SE
17	41	35	38	4	27	0	T	0.0	0	6.1	08	170			8	1	13	SE
18	42	36	39	5	26	0	T	0.0	0	5.5	08	130			8	1	10	SE
19	40	35	38	4	27	0	0.04	0.0	0	4.9	16	110			8	1	20	E
20	42	38	40	6	25	0	0.50	0.0	0	20.4	38	110			8	1	43	SE
21	41	37	39	6	26	0	0.10	T	0	22.1	33	100			8	1,4	40	SE
22	40	38	39	6	26	0	0.56	0.0	0	26.6	31	080			8	1	39	E
23	40	34	37	4	28	0	0.01	T	0	16.8	29	090			8	1	35	E
24	38	25	32	-1	33	0	T	T	T	8.4	13	300			3		16	NW
25	39	24	32	-1	33	0	0.03	T	0	9.9	28	070			6		35	E
26	43	38	41	8	24	0	1.13	0.0	0	17.4	31	020			8	1	40	NE
27	41	32	37	4	28	0	0.12	0.0	0	15.8	22	300			8	1	30	W
28	32	24	28	-5	37	0	0.00	0.0	0	14.6	18	300			6		28	NW
29	26	18	22	-10	43	0	0.03	0.7	0	18.6	37	310			7	1	47	NW
30	22	16	19	-13	46	0	0.03	0.5	1	22.8	35	290			6	1,9	51	W
Sum	1203	937			873	0	6.74	1.4		393.8					193			
Avg	40.1	31.2								13.1	Fast	Dir.	Psbl	%	6.4		Max (mph)	
									Misc -------->		38	110	14342				051	W

Notes:
Column 9 readings are taken at 0300
Columns 10, 11, 17 wind speeds in mph

Preliminary Local Climatological Data (WS Form: F-6)

Station: WSO, KODIAK AK
Month: OCT
Year: 1996

Latitude +5745 Longitude +15229

Gnd Elev. 111 ft. Std Time: AST

Temperature in Fahrenheit : Precip(in.): Snow : Wind : Fastest 2-Min : Sunshine : Sky : Peak Wind

Columns

-1- Day	-2- Max	-3- Min	-4- Avg	-5- Dep.	-6a- HDD	-6b- CDD	-7- Water	-8- Snow	-9- Depth	-10- Avg.	-11- Speed	-12- Dir	-13- Mins.	-14- XPSBL	-15- SR-SS	-16- Weather	-17- Speed	-18- Dir
1	47	40	44	-1	21	0	0.21	0.0	0	14.6	20	340			7	1	35	N
2	48	41	45	0	20	0	0.04	0.0	0	18.4	29	330			5		56	N
3	45	38	42	-3	23	0	0.11	0.0	0	22.8	35	300			8	1	44	NW
4	49	40	45	1	20	0	T	0.0	0	18.4	26	290			4		38	NW
5	51	40	46	2	19	0	0.09	0.0	0	18.0	30	030			7	1	41	NE
6	52	45	49	5	16	0	0.04	0.0	0	17.8	25	010			6	1	36	N
7	58	34	46	3	19	0	0.00	0.0	0	8.6	17	310			0		23	NW
8	50	32	41	-2	24	0	T	0.0	0	7.3	10	280			7		12	W
9	52	34	43	0	22	0	T	0.0	0	9.0	18	300			2		22	NW
10	44	29	37	-5	28	0	0.00	0.0	0	6.9	09	280			6		10	NE
11	40	35	38	-4	27	0	0.05	0.1	0	13.8	25	320			8		33	NW
12	40	32	36	-6	29	0	0.00	0.0	0	20.4	32	300			5		40	NW
13	34	29	32	-9	33	0	T	T	0	17.3	33	290			0		43	NW
14	33	29	31	-10	34	0	0.01	0.1	0	20.8	31	300			6		46	NW
15	38	31	35	-6	30	0	T	T	0	18.8	28	300			5		40	NW
16	39	25	32	-8	33	0	0.00	0.0	0	8.4	15	290			3		22	NW
17	35	24	30	-10	35	0	T	T	0	15.0	26	310			3		36	NW
18	41	26	34	-6	31	0	0.25	2.6	0	8.7	23	290			7		28	W
19	39	31	35	-5	30	0	0.21	1.9	4	7.7	12	310			8		15	NW
20	43	30	37	-2	28	0	0.15	0.0	0	9.0	16	100			8	1	22	E
21	45	30	38	-1	27	0	0.00	0.0	0	7.5	10	290			6		12	NE
22	44	35	40	1	25	0	1.67	0.0	0	16.3	28	090			8	1	33	E
23	46	35	41	2	24	0	0.00	0.0	0	10.4	17	310			3		23	NW
24	46	34	40	2	25	0	0.00	0.0	0	9.7	20	300			4		35	W
25	38	28	33	-5	32	0	0.30	1.1	0	11.6	24	040			8	1	32	NE
26	39	32	36	-2	29	0	0.53	0.8	0	19.0	26	050			6	1	35	NE
27	46	31	39	1	26	0	0.00	0.0	0	9.7	20	310			1		25	NW
28	47	28	38	0	27	0	0.00	0.0	0	6.4	09	290			3		13	NW
29	44	36	40	3	25	0	0.30	0.0	0	6.2	10	120			6	1	15	SE
30	49	42	46	9	19	0	0.15	0.0	0	6.7	10	090			8	1	13	E
31	45	41	43	6	22	0	0.65	0.0	0	16.1	25	030			8	1	35	N
Sum	1367	1037			803	0	4.76	6.6		401.3					168			
Avg	44.1	33.5																

Misc --------> 12.9 Fast 35 Dir. 300 Psbl 19110 % 5.4 Max (mph) 056 N

Notes:
Column 9 readings are taken at 0300
Columns 10, 11, 17 wind speeds in mph

Station: WSO, KODIAK AK
Date: OCT 1996 To convert LST to UTC: +9

Hourly Precipitation

Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1			T	T	T																				0.21
2	T	0.01	0.02	T	0.01					T	T	0.01						T	T	T	0.02	0.08	0.10	T	0.04
3																									0.11
4	T								0.01	0.01	0.01	0.01	0.01	T	T	0.02	0.01	T	0.01	T	T		T	0.02	T
5																									0.09
6	T								0.03	T	0.01		T	T	T	0.02	0.01	0.01	0.01	T	T	T	0.03	0.01	0.04
7																									T
8																									T
9	T	T	T	T	T																		T	T	0.05
10																									T
11						T	T	T	0.01	T	T	T	T	T	T	0.01	0.02	0.01	T	T					0.01
12																									T
13	T							T	0.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
14							T	T															T	T	0.01
15																									T
16					T	T																			T
17																	T	0.01	0.04	0.03	0.10	0.02	0.02	0.05	0.25
18	0.03	0.02	0.02	0.02	0.04	0.04	0.02	T	0.02	T	T	T	T	T	T	T	T								0.21
19								T	T	T	T	T	T	0.01	0.05	T	T	0.05	0.01	0.02	0.01	T			0.15
20	T	T	0.01	T	0.01	0.03	0.03	0.05	0.13	0.18	0.15	0.15	0.12	0.23	0.08	0.11	0.15	0.15	0.05	0.02	0.02	T			1.67
21																									
22	T	0.15	0.10	0.08	0.07	0.09	0.04	T	T	T	T	T						T	T	T	0.11	0.08	0.07	0.04	0.30
23																									0.53
24	T	T	0.06		T	T	T	T	T	T			T	0.05	0.06	0.04	0.05	0.07	T	T	T	T	T	0.03	0.30
25	T	T			T	0.10	0.07	0.04	0.01	0.03	T	T	T	T	T						T	T	0.01	0.03	0.15
26													0.01	0.01	0.03	0.07	0.02	0.01	0.03	0.02	0.05	0.02	0.08	0.05	0.65
Total	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
	0.03	0.18	0.21	0.10	0.13	0.26	0.16	0.09	0.22	0.22	0.17	0.22	0.14	0.30	0.22	0.27	0.26	0.31	0.15	0.09	0.31	0.20	0.31	0.21	4.76

Wet in 24 hour: 0.85 on 25 - 26

reliminary Local Climatological Data (WS Form: F-6)

Station: WSO, KODIAK AK
Month: SEP
Year: 1996

titude 745 | Longitude +15229 | Gnd Elev. 111 ft. | Std Time: AST

Temperature in Fahrenheit						: Precip(in.):	Snow :	Wind :	Fastest 2-Min :			Sunshine :	Sky		: Peak Wind	
Columns																
-2- Max	-3- Min	-4- Avg	-5- Dep.	-6a- HDD	-6b- CDD	-7- Water	-8- Snow	-9- Depth	-10- Avg.	-11- Speed	-12- Dir	-13- Mins.	-14- %PSBL	-15- SR-SS	-16- Weather	-17- Speed	-18- Dir
64	46	55	2	10	0	0.00	0.0	0	7.1	14	290			0		20	NW
70	47	59	6	6	0	0.00	0.0	0	7.8	12	310			5		16	NW
62	48	55	2	10	0	0.00	0.0	0	4.4	07	290			7		09	W
62	46	54	1	11	0	0.03	0.0	0	5.9	10	200			8	1	18	SW
53	51	52	-1	13	0	0.26	0.0	0	4.0	09	100			8	1	14	SE
52	50	51	-2	14	0	1.67	0.0	0	17.3	24	090			8	1	35	E
55	50	53	1	12	0	1.31	0.0	0	12.5	29	080			8	1	35	E
58	47	53	1	12	0	0.15	0.0	0	4.9	10	150			8	1	12	SE
53	44	49	-3	16	0	0.10	0.0	0	6.3	16	040			8	1	21	NE
56	44	50	-2	15	0	0.18	0.0	0	5.9	13	020			8	1	23	NW
56	41	49	-2	16	0	0.12	0.0	0	5.8	12	180			6	1	17	SW
52	46	49	-2	16	0	0.42	0.0	0	11.0	23	300			8	1	31	NW
50	45	48	-3	17	0	1.01	0.0	0	20.8	25	290			8	1	45	NW
55	42	49	-2	16	0	0.00	0.0	0	20.7	29	300			5		40	W
55	34	45	-5	20	0	0.00	0.0	0	14.0	23	290			0		32	W
49	32	41	-9	24	0	1.13	0.0	0	16.0	29	050			8	1	44	NE
54	47	51	1	14	0	1.13	0.0	0	17.6	33	300			8	1	47	NW
52	41	47	-3	18	0	0.00	0.0	0	10.4	17	240			6		30	W
50	37	44	-5	21	0	T	0.0	0	10.9	21	300			7		26	NW
56	31	44	-5	21	0	0.00	0.0	0	7.0	13	300			4		18	NW
52	38	45	-4	20	0	T	0.0	0	10.5	23	290			5		32	NW
47	32	40	-8	25	0	0.02	0.0	0	7.4	20	300			4		25	NW
53	27	40	-8	25	0	0.00	0.0	0	7.7	12	080			3		20	E
55	41	48	0	17	0	1.43	0.0	0	20.8	38	090			8	1	51	NE
50	42	46	-1	19	0	T	0.0	0	17.5	24	250			3		41	W
53	33	43	-4	22	0	0.00	0.0	0	10.9	20	260			2		33	W
52	30	41	-6	24	0	0.00	0.0	0	8.5	16	270			4		23	W
49	31	40	-6	25	0	T	T	0	10.4	18	270			1		24	W
52	28	40	-6	25	0	0.00	0.0	0	7.6	10	300			0		16	NW
51	31	41	-5	24	0	- T	0.0	0	7.0	09	340			7		18	SW
1628	1202			528	0	8.96	T		318.6					165			
54.3	40.1								10.6	Fast	Dir.	Psbl	%	5.5		Max (mph)	
									Misc -------->	38	090	22989				051	NE

s:
n 9 readings are taken at 0300
ns 10, 11, 17 wind speeds in mph

Station: WSO, KODIAK AK
Date: SEP 1996 To convert LST to UTC: +9

Hourly Precipitation

Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									
2																									
3																		T	T	0.03	T	T	T		0.03
4																	0.04	0.06	0.03	0.01	0.03	0.02	0.05	0.02	0.26
5		T	T	T	T	T	T	T	T	T	T	T	T				0.12	0.13	0.12	0.04	0.05	0.11	0.08	0.10	1.67
6	0.03	0.05	0.06	0.03	0.05	0.09	0.06	0.12	0.05	0.04	0.01	0.05	0.03	0.07	0.10	0.08	0.21	0.03	0.02	0.01	0.03	0.03	0.07	0.08	1.31
7	0.10	0.18	0.11	0.10	0.11	0.14	0.04	0.02	0.03	T	T			T	T	T	0.04	T	T						0.15
8	0.01	0.04	0.05	T	T	T									0.01	T								T	0.10
9						T	T	0.04	0.05	0.01				T	T	T									0.18
10			0.06	T	0.01	0.01	T	0.04	0.02	T	0.03	T	0.01	T	T	T									0.12
11																T	T	T	T	0.03	0.03	0.02	0.04	T	0.42
12	T	T	0.06	0.07	0.01	0.03	0.01	T	0.01	0.02	0.01	0.02	T	0.01	0.01	0.01	0.01	0.02	0.06	0.02	0.02	T	0.01	0.01	1.01
13	0.02	0.12	0.10	0.10	0.05	0.04	0.05	0.05	0.03	0.06	0.07	T	0.05	0.04	0.03	0.09	0.04	0.04	0.02	0.01					
14																									
15															T	T	T	0.11	0.22	0.15	0.15	0.15	0.18	0.17	1.13
16	0.26	0.30	0.22	0.08	0.07	0.03	T	T	0.03	0.04	0.03	0.03	T	T	0.02	T	0.01	0.01	T	T	T				1.13
17																									
18						T	T																		T
19																									
20							T	T										T		0.02					T
21																									0.02
22																									
23					T	0.09	0.10	0.06	0.08	0.07	0.13	0.14	0.15	0.08	0.15	0.10	0.06	0.03	0.12	0.07	T	T	T		1.43
24												T	T												T
25																									
26																									
27																									T
28						T																			
29																									T
30										T						T	T								
Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total

Preliminary Local Climatological Data (WS Form: F-6)

Station: WSO, KODIAK AK
Month: AUG
Year: 1996

Latitude +5745 Longitude +15229 Gnd Elev. 111 ft. Std Time: AST

Temperature in Fahrenheit																								
Precip(in.)																								
Snow																								
Wind																								
Fastest 2-Min																								
Sunshine																								
Sky																								
Peak Wind																								
Columns																								
-1- Day	-2- Max	-3- Min	-4- Avg	-5- Dep.	-6a- HDD	-6b- CDD	-7- Water	-8- Snow	-9- Depth	-10- Avg.	-11- Speed	-12- Dir	-13- Mins.	-14- IPSBL	-15- SR-SS	-16- Weather	-17- Speed	-18- Dir
1	65	49	57	1	8	0	0.58	0.0	0	5.8	08	270			6	1	16	NW
2	58	47	53	-3	12	0	0.00	0.0	0	4.3	09	300			6		10	W
3	64	46	55	-1	10	0	0.00	0.0	0	6.0	09	320			2		16	NW
4	65	47	56	0	9	0	0.00	0.0	0	6.7	09	340			6		15	NW
5	66	50	58	2	7	0	0.00	0.0	0	13.7	21	280			3		33	NW
6	62	48	55	-1	10	0	0.00	0.0	0	17.8	23	300			1		38	NW
7	66	46	56	0	9	0	0.00	0.0	0	12.8	20	300			2		28	NW
8	68	47	58	2	7	0	0.00	0.0	0	8.3	15	310			6		21	NW
9	64	50	57	1	8	0	0.01	0.0	0	6.7	10	160			7		18	SE
0	57	51	54	-2	11	0	0.07	0.0	0	7.5	13	110			8		15	NE
1	60	47	54	-2	11	0	0.21	0.0	0	8.4	17	030			8	1	23	NE
2	59	51	55	-1	10	0	0.24	0.0	0	6.8	14	320			8	1	16	NW
3	59	47	53	-3	12	0	0.02	0.0	0	7.3	14	040			7		18	N
4	60	45	53	-2	12	0	0.00	0.0	0	5.3	08	120			2		10	SE
5	68	51	60	5	5	0	0.00	0.0	0	6.4	12	300			7		16	NW
6	66	51	59	4	6	0	T	0.0	0	5.5	09	310			7		14	NW
7	59	47	53	-2	12	0	T	0.0	0	5.9	13	310			6		20	NW
8	66	46	56	1	9	0	0.00	0.0	0	4.5	12	310			5		15	NW
9	60	53	57	2	8	0	0.27	0.0	0	7.0	21	300			8	1	26	NW
0	56	53	55	0	10	0	0.37	0.0	0	6.9	18	320			8	1	22	NW
1	56	53	55	0	10	0	0.53	0.0	0	5.5	12	310			8	1	18	NW
2	60	46	53	-2	12	0	0.21	0.0	0	5.5	12	330			6	3	16	NW
3	57	52	55	0	10	0	T	0.0	0	6.9	13	080			7	1	16	E
4	60	48	54	-1	11	0	T	0.0	0	4.5	07	090			5		09	E
5	57	43	50	-4	15	0	T	0.0	0	6.7	14	220			8		20	SW
6	64	47	56	2	9	0	T	0.0	0	5.6	10	310			6		18	NW
7	62	47	55	1	10	0	0.00	0.0	0	9.2	17	310			2		25	NW
8	66	48	57	3	8	0	0.00	0.0	0	8.6	15	310			6		21	NW
9	61	43	52	-2	13	0	0.00	0.0	0	5.8	08	280			5		09	NW
0	65	43	54	0	11	0	0.00	0.0	0	7.3	16	230			4		20	SW
1	58	41	50	-4	15	0	T	0.0	0	5.6	08	060			7		13	E
um	1914	1483			310	0	2.51	0.0		224.8					177			
vg	61.7	47.8								7.3	Fast	Dir.	Pshl		Z	5.7		Max (mph)
									Misc -------->		23	300	28312				038	NW

otes:
olumn 9 readings are taken at 0300
olumns 10, 11, 17 wind speeds in mph

tation: WSO, KODIAK AK
ate: AUG 1996 To convert LST to UTC: +9

Hourly Precipitation

y	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1	0.18	0.10	0.08	0.10	0.05	0.05	0.02	T																	0.58
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																						T	T	0.01	0.01
1	0.01	0.03	0.01	T	0.01	0.01	T	T	T	T			T	T	T	T	T								0.07
													T	T	T	T	0.03	0.01	0.02	0.02	0.04	T	0.05	0.04	0.21
2	T	T	0.01	0.01	0.07	0.01									T	0.04	0.01	0.01	0.02	0.02	0.02	0.02	T		0.24
							T	T	0.01	0.01	T	T	T												0.02
3																									
4															T	T	T	T							T
															T	T									T
5																									
6		T	T	T	0.06	0.05	T	0.02	0.04	0.03	0.06		0.01	T											0.27
	T												T	0.01	0.01	0.01	T	0.01	T	0.02	0.10	0.09	0.04	0.08	0.37
7	0.05	0.04	0.01	0.06	0.08	0.05	0.04	T	0.03	0.01	0.08	0.05	0.01	T	0.02	T	T	T	T						0.53
														T	0.05	0.05	0.05	0.06							0.21
8				T	T	T	T	T	T	T												T	T	T	T
	T	T	T			T	T	T	T																T
9															T	T									T
																T									T
0																									
1																									
2																									
3																									
4									T				T	T											T
y	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
	0.24	0.17	0.11	0.17	0.27	0.17	0.06	0.02	0.08	0.05	0.14	0.05	0.02	0.01	0.08	0.10	0.09	0.09	0.04	0.06	0.16	0.11	0.09	0.13	2.51

eatest in 24 hour: 0.88 on 20 - 21

JULY 1996
LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

KODIAK, AK

U.S.C.G. BASE (ADQ)

Lat: 57°45' N Long: 152°30' W Elev (Ground): 15 Feet

Time Zone: ALASKA WBAN: 25501 ISSN #: 0197–9817

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	DEG DAYS BASE 65° HEATING	COOLING	WEATHER	SNOW/ICE ON GND(IN) 0300 LST DEPTH	0900 LST WATER EQUIV	PRECIPITATION (INCHES) 2400 LST SNOW-FALL	2400 LST WATER EQUIV	PRESSURE (INCHES OF HG) AVERAGE STATION	AVERAGE SEA LEVEL	WIND SPEED = MPH DIR = TENS OF DEGREES RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM PEAK SPEED	PEAK DIR	2-MIN SPEED	2-MIN DIR	DATE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
01	69	51	60	8	44	51	5	0		0		0.0	0.00	30.00	30.13	5.8	32	8.5	18	NW	14	31	01
02	64	49	57	4	47	51	8	0		0		0.0	0.00	30.00	30.12	2.4	34	6.9	16	NW	13	31	02
03	66	47	57	4	48	52	8	0		0		0.0	0.00	29.76	29.88	2.9	33	7.1	16	NW	12	32	03
04	60	47	54	1	46	49	11	0		0		0.0	0.00	29.69	29.82	4.3	13	10.3	23	SE	20	13	04
05	50	49	50	-3	49	49	15	0	RA BR	0		0.0	1.62	29.83	29.95	17.0	07	17.5	31	E	22	07	05
06	51	49	50	-3	50	50	15	0	RA BR	0		0.0	0.88	29.90	30.03	19.3	06	19.4	31	NE	26*	05	06
07	51	49	50	-3	49	50	15	0	RA BR	0		0.0	1.12	29.87	30.00	12.2	04	12.7	30	NE	21	03	07
08	53	49	51	-3	49	50	14	0	RA BR	0		0.0	0.22	29.69	29.82	6.6	06	7.5	16	E	12	06	08
09	51	49	50	-4	49	49	15	0	RA BR	0		0.0	0.15	29.60	29.73	9.7	09	9.8	20	E	15	09	09
10	51	48	50	-4	48	49	15	0	RA FG BR	0		0.0	0.29	29.76	29.89	14.2	13	14.4	24	SE	20	12	10
11	53	49	51	-3	48	49	14	0	RA SHRA BR VCSH	0		0.0	0.05	29.92	30.05	8.4	14	8.7	18	SE	14	13	11
12	55	47	51	-3	50	50	14	0	RA FG BR	0		0.0	0.71	29.85	29.98	6.9	11	10.2	24	SE	17	10	12
13	61	43	52	-2	45	49	13	0	RA	0		0.0	T	30.00	30.13	6.8	21	9.7	33*	NW	23	31	13
14	58	40*	49	-5	44	48	16	0		0		0.0	0.00	30.18	30.31	0.4	08	5.6	12	NW	9	33	14
15	67	49	58	4	46	51	7	0		0		0.0	0.00	30.18	30.30	7.5	31	10.6	20	E	15	31	15
16	67	52	60	5	48	53	5	0		0		0.0	0.00	30.14	30.26	4.2	31	8.7	18	NW	14	31	16
17	72*	53	63*	8	54	57	2	0		0		0.0	0.00	29.93	30.05	1.9	04	5.7	18	NW	9	03	17
18	67	53	60	5	48	54	5	0		0		0.0	0.00	29.72	29.85	9.7	30	10.4	29	NW	15	03	18
19	58	51	55	0	47	51	10	0	RA SHRA	0		0.0	T	29.73	29.85	1.5	31	5.0	15	NW	9	31	19
20	56	49	53	-2	49	50	12	0	RA BR	0		0.0	T	29.88	30.01	2.3	05	4.6	13	E	9	07	20
21	56	51	54	-1	50	52	11	0	DZ BR	0		0.0	T	30.08	30.21	1.0	10	3.8	9	SE	7	13	21
22	57	52	55	0	52	53	10	0	DZ BR	0		0.0	0.02	30.22	30.35	3.6	05	4.9	12	E	9	07	22
23	54	50	52	-3	52	52	13	0	RA DZ FG BR	0		0.0	1.20	30.15	30.28	12.0	05	12.4	32	NE	25	04	23
24	53	50	52	-3	50	50	13	0	RA SHRA DZ BR	0		0.0	0.15	30.04	30.17	6.3	04	7.0	20	NE	16	05	24
25	58	48	53	-2	50	51	12	0	RA SHRA BR VCSH	0		0.0	0.01	30.03	30.16	2.4	03	6.8	17	E	13	08	25
26	57	41	49*	-6	47	49	16	0	FG BR	0		0.0	0.00	30.02	30.15	2.1	03	6.2	10	SE	9	09	26
27	62	47	55	0	50	52	10	0	FG	0		0.0	0.00	29.99	30.12	2.9	04	5.8	12	NE	9	05	27
28	59	51	55	-1	49	52	10	0		0		0.0	0.00	29.93	30.06	6.1	19	7.5	20	S	15	16	28
29	59	51	55	-1	50	52	10	0	VCSH	0		0.0	0.00	29.81	29.93	3.6	17	6.7	20	SE	15	16	29
30	60	48	54	-2	47	50	11	0		0		0.0	0.00	29.85	29.98	2.7	13	4.9	17	SE	10	13	30
31	62	44	53	-3	46	50	12	0	RA	0		0.0	0.07	29.90	30.03	0.8	07	6.9	17	NE	14	11	31
	58.6	48.6	53.6	■■	48.4	50.8	11.2	0.0	< MONTHLY AVERAGES	TOTALS–>		0.0	6.49	29.92	30.05	2.9	07	8.6	<– MONTHLY AVERAGES				
	-1.9	0.4	-.8	■■	<---------- DEPARTURE FROM NORMAL ---------->								2.79	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING:	347	18	347	18
COOLING:	0	0	0	0

GREATEST 24-HR PRECIPATATION: 1.75 DATE: 05–06
GREATEST 24-HR SNOWFALL: 0.0 DATE:
GREATEST SNOW DEPTH: 0 DATE:

	SEA LEVEL PRESSURE	DATE	TIME
MAXIMUM	30.37	23	0050
MINIMUM	29.69	09	0550

NUMBER OF DAYS WITH →

MAXIMUM TEMP ≥ 70:	1	MINIMUM TEMP ≤ 32:	0
MAXIMUM TEMP ≤ 32:	0	MINIMUM TEMP ≤ 0:	0
THUNDERSTORMS:	0	HEAVY FOG:	0
PRECIPITATION ≥ 0.01 INCH:	13		
PRECIPITATION ≥ 0.10 INCH:	9		
SNOWFALL ≥ 1.0 INCH:	0		

Station: WSO, KODIAK AK
Date: JUN 1996 To convert LST to UTC: +9

Col.40 Hourly Precipitation

Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1								T	T	T	0.01	0.01	0.02	0.02	0.01	T	T	0.01		0.03	0.07	0.02	0.02	0.01	0.24
2	T	0.06	0.07	0.11	0.09	0.10	0.04	0.01	0.01	0.03	0.01	0.01	0.03	0.01	0.01	0.02	0.04	0.06	0.01	0.01	T				0.73
3									T	T	T	T	T		T										T
4							T	T	T	T	T	T													T
5		T	T	T	0.02	0.08	0.02	T		T			T												0.12
6			0.02		T	T	T	T	T																0.02
7														T	0.03	0.02	0.04	0.02	0.02	0.01	T				0.14
8																									
9												T	T	T			T	0.02	T	0.02	0.02	0.14	0.07	0.03	0.30
10	0.05	0.03	0.02	0.02	0.02	0.04	0.05	0.07	0.04	0.02	0.02	0.02	0.02	0.02	0.02	T	0.01	0.01	T	T	0.01	0.01	T	T	0.45
11	T	T	T	T	T	T	T	T	T	T															T
12	T		T	T				T	T	T										T	T	T	T	0.02	0.02
13																									
14																		T	T	0.03	0.10	T	0.06	0.03	0.22
15	0.01	T	T													T	T				T	T	T	T	0.01
16								T	T														T	T	T
17																					T	T	T	T	T
18	T	T	T	T	T	T	T	T	T		T	T	T	T											
19	T	T	T	T		T	T						T	T	T	T	T	0.05	0.02	T					0.07
20	T	0.01	0.01									T			0.01	T	T	T							0.03
21																							T	T	T
22	T	T																							T
23																									
24																									
Total	0.06	0.10	0.12	0.13	0.13	0.22	0.11	0.03	0.05	0.08	0.04	0.04	0.07	0.05	0.09	0.04	0.09	0.17	0.05	0.10	0.20	0.17	0.15	0.09	2.35

Greatest in 24 hours: 0.87 on 8 - 9

Preliminary Local Climatological Data (WS Form: F-6)

Station: ASO, KODIAK AK
Month: JUN
Year: 1996

Latitude 57°43 | Longitude 152°29 | Grd Elev. 111 ft. | Std Time: AST

Temperature in Fahrenheit							Precip(in.)	Snow	Wind	Fastest 2-Min		Sunshine	Sky		Peak Wind	
Columns																
-1- Day	-2- Max	-3- Min	-4- Avg	-5- Dep.	-6a- HDD	-6b- CDD	-7- Water	-8- Snow	-9- Depth	-10- Avg.	-11- Speed	-12- Dir	-13- Mins.	-14- %PSBL	-15- SR-SS	-16- Weather	-17- Speed	-18- Dir
1	60	42	51	7	11	0	0.00	0.0	0	4.3	09	28			6		19	W
2	52	44	48	1	17	0	0.00	0.0	0	7.0	14	09			9		15	NE
3	71	41	56	9	9	0	0.00	0.0	0	8.0	15	31			8		22	NW
4	73	56	65	18	0	0	0.00	0.0	0	12.4	18	30			11		25	NW
5	62	49	56	9	9	0	0.00	0.0	0	15.3	24	02			3		37	N
6	61	46	54	6	11	0	0.00	0.0	0	9.2	14	31			0		17	NW
7	52	44	48	0	17	0	0.00	0.0	0	7.0	12	08			10		15	E
8	50	45	48	0	17	0	0.28	0.0	0	7.5	15	32			10		17	NW
9	49	43	46	-2	19	0	0.73	0.0	0	7.0	13	02			10	1	14	E
10	53	38	46	-3	19	0	T	0.0	0	8.3	17	09			7		23	W
11	54	39	47	-2	18	0	T	0.0	0	13.4	21	31			8		32	NW
12	52	41	47	-2	18	0	0.12	0.0	0	13.5	25	31			7		39	NW
13	53	42	48	-1	17	0	0.02	0.0	0	9.4	15	32			6		17	NW
14	55	40	48	-1	17	0	0.14	0.0	0	6.7	13	10			10	1	16	E
15	56	36	47	-3	18	0	0.00	0.0	0	5.2	09	31			2		10	W
16	63	43	53	3	12	0	0.00	0.0	0	8.8	16	16			4	1	23	SE
17	47	46	48	-2	17	0	0.30	0.0	0	13.3	20	11			10	1	25	SE
18	48	47	48	-2	17	0	0.45	0.0	0	11.1	20	12			10	1	22	SE
19	54	47	51	1	14	0	T	0.0	0	8.3	15	12			10	2	18	SE
20	51	43	47	-3	18	0	0.02	0.0	0	9.6	14	12			10		16	SE
21	53	47	50	-1	15	0	0.00	0.0	0	6.7	09	12			10		12	E
22	55	41	53	2	12	0	0.00	0.0	0	7.9	12	31			3		16	NW
23	62	50	56	5	9	0	0.22	0.0	0	9.6	17	15			9	1	24	SE
24	54	49	52	1	13	0	0.01	0.0	0	7.9	13	31			10	1	15	SE
25	57	48	53	2	12	0	T	0.0	0	3.8	16	16			10		24	SE
26	57	46	52	0	13	0	T	0.0	0	7.2	13	15			10		15	S
27	52	45	49	-3	16	0	0.07	0.0	0	3.9	08	12			10		10	SE
28	55	46	51	-1	14	0	0.03	0.0	0	5.5	09	10			9		12	E
29	57	42	50	-2	15	0	T	0.0	0	6.3	13	07			7		17	E
30	66	51	59	7	6	0	T	0.0	0	16.7	29	30			5		40	NW
Sum	1794	1337			420	0	2.35	0.0		265.2					223			
Avg	56.8	44.6								8.8	Fast	Dir.	Pabl		7.4		Max (mph) 040	NW
									Misc		29	30	3241E					

Notes:
Column 9 readings are taken at 0300
Column 17 Peak Wind in M.P.H.

Preliminary Local Climatological Data (WS Form: F-6)

Station: WSO, KODIAK AK
Month: MAY
Year: 1988

Latitude +5745 | Longitude +15229 | Grd Elev. 111 ft. | Std Time: AST

Day	Temperature in Fahrenheit: Max	Min	Avg	Dep.	HDD	CDD	Precip(in.): Water	Snow: Snow	Wind: Depth	Fastest 2-Min: Avg.	Speed	Dir	Sunshine: Mins.	%PSBL	Sky: SR-SS	Weather	Peak Wind: Speed	Dir
	-1-	-2-	-3-	-4-	-5-	-6a-	-6b-	-7-	-8-	-9-	-10-	-11-	-12-	-13-	-14-	-15-	-16-	-17-	-18-
1	53	36	45	5	20	0	0.00	0.0	0	12.1	17	29				0		23	NW
2	51	32	42	1	23	0	0.00	0.0	0	7.8	12	30				1		17	E
3	54	34	44	3	21	0	0.00	0.0	0	4.9	10	29				7		12	NW
4	62	46	54	13	11	0	0.00	0.0	0	10.6	17	29				4		25	NW
5	55	42	49	8	16	0	0.00	0.0	0	7.8	20	30				9		24	NW
6	56	42	49	8	16	0	0.00	0.0	0	10.4	20	30				6		31	NW
7	58	38	48	6	17	0	0.00	0.0	0	13.8	23	30				7		39	W
8	63	42	53	11	12	0	0.00	0.0	0	12.5	25	30				6		31	W
9	52	37	45	3	20	0	0.00	0.0	0	8.1	13	05				8		15	NE
10	60	34	47	5	18	0	0.00	0.0	0	7.0	18	31				5		23	NW
11	64	42	53	11	12	0	T	0.0	0	12.5	20	07				3	1	22	NE
12	67	40	54	11	11	0	0.00	0.0	0	8.0	18	32				1		25	NW
13	68	38	53	10	12	0	0.00	0.0	0	7.5	16	23				0		20	W
14	67	54	61	18	4	0	0.00	0.0	0	8.5	15	32				2		21	NW
15	57	44	52	9	13	0	0.00	0.0	0	11.4	18	06				3		23	NE
16	51	40	46	3	19	0	0.00	0.0	0	10.9	21	10				10		25	E
17	50	40	45	1	20	0	T	0.0	0	14.8	22	04				9		31	NE
18	54	37	46	2	19	0	0.14	0.0	0	7.5	10	30				5		16	NW
19	59	41	50	6	15	0	0.00	0.0	0	10.9	17	30				4		23	NW
20	52	35	44	0	21	0	0.02	0.0	0	9.4	14	11				7		19	NW
21	47	35	41	-4	24	0	0.07	0.0	0	9.2	20	13				9		23	SE
22	46	31	39	-6	26	0	0.08	0.0	0	13.1	23	09				10		29	E
23	47	42	45	0	20	0	0.97	0.0	0	25.6	35	10				10	1	48	E
24	50	41	46	1	19	0	0.31	0.0	0	16.1	29	12				10	1	33	E
25	50	41	46	1	19	0	0.03	0.0	0	6.9	10	10				9		12	SE
26	54	41	48	2	17	0	0.00	0.0	0	8.8	15	15				9		18	SW
27	53	42	48	2	17	0	0.00	0.0	0	7.0	16	33				10		15	NW
28	58	44	51	5	14	0	0.00	0.0	0	9.2	17	15				8		23	S
29	47	44	46	0	19	0	T	0.0	0	9.4	14	11				10		20	SE
30	50	40	45	-1	20	0	0.00	0.0	0	5.4	12	12				6		13	SE
31	57	35	46	-1	19	0	0.00	0.0	0	5.5	08	29				2		09	NW
Sum	1714	1230			534	0	1.62	0.0		313.6						190			
Avg	55.3	39.7								10.1	Fast	Dir.	Pebl		%	6.1		Max (mph)	
									Misc -------->		35	10	31137					048	E

Notes:
Column 9 readings are taken at 0300
Column 17 Peak Wind in M.P.H.

Station: WSO, KODIAK AK
Date: MAY 1996 To convert LST to UTC: +9

Col.40 Hourly Precipitation

Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
0																									
1																						T	T	T	T
2																									
3																									
4																									
5																									
6																									
7				T			T				T	T	T												T
8																T	T	0.06	0.08		T				0.14
9																									
0																T	0.01	0.01							0.02
1			0.04													0.01	0.01	T		0.01					0.07
2				T					0.01	T	T	0.04	0.03	T	T	T									0.08
3			0.05	0.03	0.07	0.12	0.12	0.07	0.10	0.07	0.05	0.07	0.03	0.02	0.01	0.01	0.03	0.01	T	T	0.03	0.01	0.01	0.06	0.97
4	T	0.03	0.01	T	T	0.04	0.07	0.01	0.06	T	0.04	0.03	T						T	T	0.02	T			0.31
5				T	T	T			0.01	T			T	T				0.02	T						0.03
6																									
7																									
8																									
9											T							T	T						T
0																									

Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
	T	0.03	0.10	0.03	0.07	0.16	0.19	0.08	0.18	0.07	0.09	0.14	0.06	0.02	0.01	0.02	0.05	0.10	0.08	0.01	0.05	0.01	0.01	0.06	1.62

Greatest in 24 hour: 1.00 on 23 - 24

APR 1996
KODIAK, AK
NATIONAL WEATHER SERVICE
600 SANDY HOOK ST.SUITE 1

INQUIRIES/COMMENTS CALL
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U.S.C.G. BASE

ISSN # 0197-9817

LOCAL CLIMATOLOGICAL DATA

MONTHLY SUMMARY

LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (INCL.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	PEAK GUST DIR 17	FASTEST 2-MIN SPEED 18	FASTEST 2-MIN DIR 19	SUNSHINE MINUTES 20	PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	40	27	34	-1	14.8	31	0		0	0.06	0.6	29.500	32	10.5	11.7	30	NE	18	36			2	3
02	38	23	31	-4	22.1	34	0		1	0.06	0.8	29.370	31	9.3	11.7	23	NE	23	30			6	7
03	38	31	35	0	29.5	30	0	9	T	0.70	5.9	29.170	01	14.0	16.6	41	N	30	02			9	10
04	42	35	39	4	36.7	26	0	1	2	1.20	T	28.615	05	14.2	15.2	39	NE	31	04			10	10
05	43	34	39	3	34.6	26	0	1	0	0.32	T	28.740	03	4.3	9.0	22	SE	17	13			10	10
06	37	22	30*	-6	15.5	35	0		T	0.01	T	29.310	29	16.6	17.5	35	NW	25	30			9	8
07	42	21*	32	-4	18.1	33	0		0	0.00	0.0	29.840	21	8.7	10.0	21	SW	14	19			7	5
08	40	32	36	0	30.5	29	0		0	0.04	T	29.970	13	6.9	9.5	23	SE	20	12			10	10
09	40	37	39	3	29.2	26	0		0	0.00	0.0	29.845	10	20.6	21.0	31	E	26	09			10	10
10	42	36	39	2	31.9	26	0		0	T	T	29.730	05	11.3	12.6	23	E	17	08			10	10
11	42	39	41	4	38.1	24	0	1	0	0.38	0.0	29.660	04	10.9	11.2	22	NE	22	02			10	10
12	44	39	42	5	38.7	23	0	1	0	0.15	0.0	29.695	04	10.5	10.8	24	NE	21	03			10	10
13	43	38	41	4	37.3	24	0	1	0	0.02	0.0	29.760	06	10.8	11.1	21	E	17	06			10	10
14	42	39	41	4	39.5	24	0	1	0	1.84	0.0	29.350	05	19.4	19.6	32	NE	25	04			10	10
15	42	39	41	4	39.6	24	0	1	0	0.85	0.0	29.070	04	16.0	16.7	33	N	25	02			10	10
16	48	38	43	5	38.6	22	0	1	0	0.42	0.0	28.990	34	7.8	10.2	38	N	30	02			10	10
17	46	39	43*	5	37.5	22	0	1	0	0.06	0.0	29.130	35	3.9	7.3	17	NW	13	31			10	10
18	42	38	40	2	37.6	25	0	1	0	0.38	0.0	29.370	05	14.1	15.9	37	NE	25	03			10	10
19	43	38	41	3	37.6	24	0		0	0.13	0.0	29.590	11	17.0	17.4	38	E	29	11			10	10
20	43	39	41	3	38.4	24	0	1	0	0.67	0.0	29.590	10	20.0	20.3	47	E	35	12			10	10
21	43	39	41	3	38.7	24	0	1	0	0.35	0.0	29.400	06	20.3	21.4	36	NE	32	04			10	10
22	43	40	42	3	39.8	23	0	1	0	0.90	0.0	29.080	04	24.9	26.4	52	NE	37	03			10	10
23	44	39	42	3	37.5	23	0	1	0	0.12	0.0	29.090	04	17.9	19.3	39	NE	33	02			10	10
24	45	38	42	3	36.9	23	0	1	0	0.35	0.0	29.090	01	12.9	13.4	36	N	20	36			10	10
25	42	36	39	0	36.5	26	0	1	0	0.31	T	29.160	35	6.3	8.6	26	N	17	02			10	10
26	47	35	41	2	35.6	24	0		0	0.20	0.0	29.490	28	4.8	7.0	16	W	14	28			9	9
27	41	35	38	-2	34.5	27	0	1	0	0.20	T	29.810	29	4.7	6.5	13	W	10	28			10	10
28	46	34	40	0	33.7	25	0		0	0.02	T	29.880	30	7.3	8.9	20	NW	17	30			9	7
29	48	35	42	2	27.9	23	0		0	0.00	0.0	29.920	30	9.7	12.0	21	NW	16	30			2	3
30	49*	33	41	1	26.2	24	0		0	0.00	0.0	30.095	29	7.3	9.3	20	NW	14	26			5	5
SUM	1285	SUM	1048			TOTAL	774	TOTAL	0	NUMBER OF DAYS	TOTAL	9.74	TOTAL	7.3	FOR THE MONTH :	29.445	04	7.0	13.6	52	NE	37	03
AVG.	42.8	AVG.	34.9	AVG.	38.9	DEP.	1.4	AVG.	33.1	DEP.	-51	DEP.	0	PRECIPITATION ≥ .01 INCH	25	DEP.	5.54	DATE:22	DATE: 22	TOTAL	POSS	% FOR MONTH	SUM 268 AVG 8.9	SUM 267 AVG 8.9

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH	2	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE	
MAXIMUM TEMP		MINIMUM TEMP		7353	0	THUNDERSTORMS	2	PRECIPITATION	SNOW, ICE PELLETS			
≥ 70°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG	2	1.86 14-15	5.9	03	3	03
0	0	6	0	-335	0	CLEAR 2 PARTLY CLOUDY 3 CLOUDY 25						

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

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COLS 16 & 17 : PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED.
ONE OF TWO WINDS IS GIVEN UNDER COLS 18 & 19 : FASTEST MILE- HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTIONIN COMPASS POINTS). FASTEST OBSERVED TWO MINUTE WIND - HIGHEST TWO MINUTE SPEED (DIRECTION IN TENS OF DEGREES).
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Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

APR 1996
KODIAK, AK

MAR 1996
KODIAK, AK
NATIONAL WEATHER SERVICE
600 SANDY HOOK ST.SUITE 1

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U.S.C.G. BASE

ISSN # 0197-9817

LOCAL CLIMATOLOGICAL DATA

MONTHLY SUMMARY

LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (IN.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	PEAK GUST DIR 17	FASTEST 2-MIN SPEED 18	FASTEST 2-MIN DIR 19	SUNSHINE MINUTES 20	PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	47	27	37	6	30.4	28	0		0	0.00	0.0	30.370	30	4.5	8.2	21	NW	15	31			0	1
02	50	29	40	9	27.9	25	0		0	0.00	0.0	30.310	30	11.0	11.6	25	NW	20	29			0	0
03	43	24	34	3	26.0	31	0		0	0.00	0.0	30.260	27	3.4	6.4	10	NW	10	28			0	1
04	47	27	37	5	22.6	28	0		0	0.00	0.0	30.060	30	16.3	16.7	40	W	31	29			0	0
05	46	29	38	6	19.3	27	0		0	0.00	0.0	29.970	29	13.0	13.5	37	NW	23	29			0	0
06	42	26	34	2	27.3	31	0		0	0.12	1.3	30.070	13	1.6	9.5	32	E	28	11			6	5
07	38	27	33	1	29.7	32	0		1	0.06	0.6	30.050	11	13.8	15.0	35	SE	32	12			10	9
08	37	31	34	2	25.4	31	0		0	0.04	0.2	29.670	04	9.9	17.9	33	NW	25	31			10	9
09	36	31	34	2	16.7	31	0		0	0.00	0.0	29.065	31	21.8	22.1	45	NW	33	30			0	1
10	36	30	33	1	23.6	32	0		0	0.03	0.3	29.030	29	17.0	17.6	32	W	24	27			10	9
11	42	26	34	2	26.1	31	0		T	T	0.0	29.440	13	4.1	12.0	32	E	29	09			5	7
12	44	29	37	5	33.2	28	0	1	0	0.80	1.7	29.350	02	4.3	14.3	38	E	30	10			7	7
13	46	28	37	5	29.6	28	0		0	0.00	0.0	29.600	21	7.0	8.8	22	S	15	20			3	2
14	45	31	38	5	31.3	27	0		0	T	0.0	29.740	19	7.7	9.3	18	S	13	16			7	7
15	42	36	39	6	36.8	26	0	1	0	0.33	0.0	29.300	12	10.3	12.4	35	SE	28	11			10	10
16	42	32	37	4	36.7	28	0		0	0.05	0.0	29.440	28	2.2	4.8	9	NW	8	32			10	9
17	42	36	39	6	34.8	26	0		0	0.08	0.0	29.910	30	7.1	7.6	18	NW	13	31			10	10
18	44	35	40	7	28.4	25	0		0	T	0.0	30.110	30	14.4	14.5	35	W	21	29			5	5
19	46	35	41*	8	11.6	24	0		0	0.00	0.0	30.110	30	16.4	16.6	38	NW	24	29			0	0
20	44	31	38	5	19.5	27	0		0	0.00	0.0	30.085	32	4.1	9.0	23	NW	15	30			7	6
21	42	31	37	4	33.0	28	0	1	0	0.04	0.0	29.850	16	4.0	7.8	22	SE	17	14			10	10
22	43	28	36	2	28.1	29	0	1	0	0.02	T	29.660	30	2.6	8.6	20	W	15	30			5	5
23	40	27	34	0	29.7	31	0		0	0.06	T	29.920	29	9.7	10.0	24	NW	20	30			10	6
24	43	23*	33*	-1	24.6	32	0		0	0.00	0.0	30.290	27	3.0	7.1	15	SW	13	21			4	4
25	44	33	39	5	29.8	26	0		0	0.00	0.0	30.360	19	8.5	8.8	21	S	16	18			9	10
26	49	31	40	6	32.5	25	0		0	0.00	0.0	30.350	19	3.2	7.7	14	E	12	19			5	5
27	47	30	39	5	30.2	26	0		0	0.00	0.0	30.330	30	10.5	10.8	25	NW	20	30			4	3
28	47	27	37	3	28.4	28	0		0	0.00	0.0	30.295	23	1.6	6.9	10	SE	9	12			3	3
29	52*	24	38	3	21.7	27	0		0	0.00	0.0	30.150	31	6.1	9.0	21	NW	15	29			5	4
30	42	27	35	0	26.1	30	0		0	0.00	0.0	30.130	07	1.9	7.3	14	NW	12	09			2	3
31	42	31	37	2	24.8	28	0		0	0.07	0.7	29.970	33	6.2	9.6	23	NE	21	04			5	4
SUM	1350	SUM	912			TOTAL	876	TOTAL	0	NUMBER OF DAYS	TOTAL	1.70	TOTAL	4.8	FOR THE MONTH :	29.910	29	4.1	11.0	45	NW	33	30	TOTAL	% FOR MONTH	SUM 162	SUM 155
AVG.	43.5	AVG.	29.4	AVG. 36.5	DEP. 3.6	AVG. 27.3	DEP. -119	DEP.	0	PRECIPITATION ≥ .01 INCH 12	DEP.	-2.93								DATE: 9		DATE: 9		POSS		AVG 5.2	AVG 5.0

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 2	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE	
MAXIMUM TEMP.		MINIMUM TEMP.		6579	0	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS			
≥ 70°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 0	0.80 11-12	1.8 06-07		1	12+
0	0	26	0	-284	0	CLEAR 10 PARTLY CLOUDY 12 CLOUDY 9					

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
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MAR 1996
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MONTHLY SUMMARY

LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	DEGREE DAYS BASE 65 °F HEATING	COOLING	WEATHER TYPES (1 FOG, 2 HEAVY FOG, 3 THUNDERSTORMS, 4 ICE PELLETS, 5 HAIL, 6 GLAZE, 7 DUSTSTORM, 8 SMOKE, HAZE, 9 BLOWING SNOW)	SNOW/ICE ON GRD AT 0300 (IN.)	PRECIPITATION (INCHES) WATER EQUIVALENT	SNOW ICE PELLETS	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL)	WIND (M.P.H.) RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST SPEED	DIR	FASTEST 2-MIN SPEED	DIR	SUNSHINE MINUTES	PERCENT POSSIBLE	SKY COVER TENTHS SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	41	30	36	6	33.7	29	0		0	0.09	0.0	29.710	31	10.5	11.6	26	NW	18	30			6	7
02	40	27	34	4	30.5	31	0		0	0.00	0.0	29.890	21	6.3	8.5	20	SW	14	21			10	9
03	42*	37	40*	10	35.7	25	0		0	0.05	0.0	30.060	23	3.4	8.6	20	S	13	18			9	10
04	39	35	37	7	32.5	28	0		0	0.00	0.0	30.020	30	12.0	12.1	24	NW	18	30			10	10
05	36	32	34	4	29.2	31	0		0	0.29	1.6	29.580	31	11.9	13.0	26	N	17	36			9	8
06	34	27	31	1	23.3	34	0		2	0.13	1.0	29.070	31	16.8	17.3	35	NW	28	31			8	8
07	28	19	24	-5	19.3	41	0		2	0.07	1.3	28.830	29	10.9	11.2	25	NW	17	29			10	6
08	27	21	24	-5	18.3	41	0	9	3	0.32	5.1	28.915	30	26.5	26.6	47	NW	36	30			10	10
09	24	12	18	-11	11.2	47	0	9	9	0.10	2.1	28.980	30	21.4	22.2	49	NW	40	30			4	8
10	24	13	19	-11	14.3	46	0	9	8	0.03	0.3	29.030	30	26.2	26.5	48	NW	39	30			9	8
11	24	18	21	-9	8.0	44	0		7	T	T	29.470	31	16.9	17.0	38	NW	29	30			2	2
12	23	17	20	-10	7.4	45	0		5	T	T	29.770	30	15.8	16.0	29	NW	20	31			4	2
13	34	20	27	-3	17.8	38	0		4	0.27	4.5	30.000	31	12.0	13.9	22	NE	21	03			10	8
14	33	14	24	-6	23.9	41	0		8	0.05	1.3	30.060	29	7.4	8.6	16	NW	13	29			8	6
15	30	12	21	-9	16.4	44	0		8	0.00	0.0	29.860	26	5.0	6.5	16	NW	13	27			1	0
16	25	6*	16*	-14	11.5	49	0		6	0.00	0.0	29.860	27	8.6	8.7	13	W	12	28			0	2
17	30	24	27	-3	21.2	38	0		5	0.05	0.3	29.870	30	11.2	11.3	21	NW	17	30			10	10
18	34	23	29	-1	26.3	36	0	1	6	0.14	3.2	29.790	28	7.5	8.5	17	N	13	30			6	8
19	37	29	33	3	30.1	32	0		9	0.36	2.7	29.680	36	5.5	9.9	23	NE	20	07			10	10
20	34	29	32	2	27.8	33	0	1	9	0.01	0.1	29.950	29	4.8	6.6	16	NW	12	30			10	10
21	41	31	36	6	32.6	29	0	1	8	0.38	0.8	29.530	09	1.6	11.8	35	SE	22	11			6	8
22	38	30	34	4	26.8	31	0		6	0.16	0.1	29.820	29	8.6	9.5	28	SW	14	28			7	8
23	32	24	28	-2	16.6	37	0		6	0.00	0.0	29.980	29	15.2	15.5	37	W	25	29			1	3
24	33	20	27	-3	13.4	38	0		6	0.00	0.0	30.060	29	9.1	10.1	24	W	18	28			3	4
25	31	26	29	-1	23.8	36	0	1	6	0.21	2.7	30.010	28	6.0	7.8	17	NW	14	29			10	10
26	33	28	31	1	26.7	34	0		9	T	0.2	29.990	30	8.4	8.7	17	NW	14	30			10	10
27	37	29	33	3	32.0	32	0		9	0.26	0.6	30.030	12	10.3	11.0	25	SE	20	11			10	10
28	41	34	38	8	34.5	27	0	1	7	0.03	0.0	30.110	17	9.6	11.3	31	SW	21	20			10	10
29	40	38	39	9	35.0	26	0	1	4	T	0.0	30.200	17	8.4	9.3	31	SW	16	20			10	10
30	39	35	37	7	31.2	28	0		2	0.00	0.0	30.330	21	6.8	7.1	15	SW	10	20			8	9
31	38	31	35	5	27.0	30	0		1	T	T	30.305	26	3.1	3.9	12	SW	8	29			10	10
	SUM 1042	SUM 771				TOTAL 1101	TOTAL 0	NUMBER OF DAYS		TOTAL 3.00	TOTAL 27.9	FOR THE MONTH: 29.765	29	8.2	12.0	49	NW	40	30	TOTAL	% FOR MONTH	SUM 231	SUM 234
	AVG. 33.6	AVG. 24.9	AVG. 29.3	DEP. -0.6	AVG. 23.8	DEP. 13	DEP. 0	PRECIPITATION ≥ .01 INCH 19		DEP. -4.38						DATE: 9		DATE: 9		POSS		AVG. 7.5	AVG. 7.5

NUMBER OF DAYS: MAXIMUM TEMP ≥ 70°	≤ 32°	MINIMUM TEMP ≤ 32°	≤ 0°
0	11	26	0

SEASON TO DATE TOTAL	TOTAL
4667	0
DEP. -235	DEP. 0

SNOW, ICE PELLETS ≥ 1.0 INCH 10
THUNDERSTORMS 0
HEAVY FOG 0
CLEAR 5 PARTLY CLOUDY 6 CLOUDY 20

GREATEST IN 24 HOURS AND DATES PRECIPITATION		SNOW, ICE PELLETS	
0.45	21-22	6.6	08-09

GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE	
10	19

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

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COLS 16 & 17 : PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED.
ONE OF TWO WINDS IS GIVEN UNDER COLS 18 & 19 : FASTEST MILE- HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTIONIN COMPASS POINTS). FASTEST OBSERVED TWO MINUTE WIND - HIGHEST TWO MINUTE SPEED (DIRECTION IN TENS OF DEGREES).
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Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

noaa NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

JAN 1996
KODIAK, AK

Station: WSO, KODIAK AK
Date: DEC 1995 To convert LST to UTC: +9

Col.40 Hourly Precipitation

ay	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1																									
2		T	T	T	T	T	T	T	T	T	T	T	T						T	T	T				T
3																				T	T	T		T	T
4	T	T	T	T	T	T	T	0.01	0.01	T	T	T	T												0.02
5													T	T	T	T	T	T							T
6													T	T	T										T
7		T	T	T	0.02	0.03	T		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	0.05
8	T	T	T		0.01	T	0.01	0.02	T	0.01	T	T	0.01	T	T	T	T	T	0.01		T	0.03	T	T	0.10
9	T	T	T	0.01	0.01	0.01	T	T	0.02	0.08	0.04	0.02	0.14	0.10	0.07	0.12	0.18	0.10	0.12	0.12	0.09	0.07	0.09	0.15	1.54
0	0.06	0.03	0.02	0.09	0.04	0.03	T							0.03	0.01	T	0.01	0.01	T	T	0.03	0.02	0.02	0.01	0.41
1	0.01	0.01	0.03	0.05	0.05	0.02	0.03	0.02	0.01	0.03	0.03	0.02	0.05	0.08	0.06	0.05	0.05	0.07	0.03	0.04	0.02	0.05	0.03	0.05	0.89
2	0.03	0.05	0.05	0.07	0.08	0.03	0.04	0.09	0.05	0.09	0.13	0.06	0.06	0.07	0.09	0.04	0.02	0.03	0.02	0.03	0.02	0.01	0.01	0.01	1.18
3	T		0.05	0.04	0.10	0.14	0.05	0.03	0.07	0.10	0.12	0.03	0.02	0.04	0.06	0.04	0.01	0.03	0.01	T	T	T	T	T	0.94
4						T	0.02	0.02	0.06	0.01	0.01	0.01	T	T	T	0.01			T	T		T	0.01	T	0.15
5	T	T	T	T	0.01	0.01	0.01	T	T	T	T	0.01	T	0.01	T	0.01	T	0.01	0.03	0.04	0.04	0.06	0.06	0.05	0.35
6	0.05	0.05	0.05	0.03	0.02	0.01	T									T	T								0.21
7		T			0.01		0.01	0.01	T	T	T							T	T	T	0.04	0.04	0.06	0.06	0.23
8	0.06	0.09	0.06	0.03	0.02	0.01	0.01	0.01	0.01	0.01	T	0.01	0.02	0.01	0.01	T	T	0.01	0.01	0.02	0.03	0.01	0.03	0.01	0.48
9	0.01	T																							0.01
0	T		T			T	0.01	0.02	T	0.05	0.05	0.05	0.05	0.05	0.04	0.05	0.05	0.09	0.08	0.08	0.07	0.12	0.08	0.02	0.96
1	0.02	T	T		0.01	0.01							T	0.03	T	T	0.04	0.06	0.04	0.02	T	0.02	0.02	0.02	0.29
2	T	T	0.02	T	0.01	0.01	T	T	0.03	0.05	0.09	0.09	0.07	0.04	T				T	0.05	0.01	0.05	0.03	T	0.55
3	T		0.06	T	T	T	0.04	0.02	T			0.02	0.01	0.01	T	T	0.01	0.04	T	0.02	T	0.02	T	T	0.23
4	T	T	0.01	0.01	0.01	T	0.01	T	T	0.02	0.01	T	T	T	0.01	0.10	0.07	0.07	0.08	0.01	T	0.01	0.01	T	0.43
5	T	T	0.01	0.03	0.05	0.08	0.08	0.05	0.14	0.11	0.12	0.15	0.10	0.06	0.04	0.04						T	T	T	1.06
6	T	T	T	0.06	0.03	0.02	0.01	T	0.06	0.06	0.05	0.12	0.05	T	0.05	0.02	0.02	0.01	T	0.01	0.01	0.02	0.05	0.02	0.67
7	T	0.01	0.01	0.01	0.01	T	T	T			T	0.01	T	T	0.01	T	0.01	0.01	T	0.01	0.04	0.04	T	T	0.17
8	T	T	T	0.02	0.02	0.01	T	T	T	0.02	0.02	0.01	0.02	0.02	0.01	0.07	0.07	0.07	0.11	0.11	0.08	0.02	0.01	0.01	0.70
9	0.02	0.02	0.01	T	T	T	T	0.01	0.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	0.07
0	T	T	T	T	T																				T
																			0.01	0.01	0.01		0.01	0.01	0.05
ay	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
	0.26	0.26	0.38	0.45	0.51	0.42	0.33	0.31	0.47	0.64	0.67	0.61	0.60	0.55	0.46	0.55	0.54	0.61	0.55	0.57	0.49	0.59	0.52	0.42	11.76

eatest in 24 hour: 1.78 on 9 - 10

Station: WSO, KODIAK AK
Date: NOV 1995 To convert LST to UTC: +9

Col.40 Hourly Precipitation

Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
1											0.01	0.03													0.04
2																									
3																									
4																									
5																									
6																			T	T			T	T	T
7	T	T	T																						T
8																									
9														T	T			T	0.02	0.01	T	0.01	T	0.01	0.05
10	0.02	0.02		0.04	0.05		T	0.09	0.04	0.01	0.03	0.01			T	0.01	T								0.32
11																									
12										T	T	T	T	T	T	T									T
13	T	T	T																						T
14							T	T	0.01	0.02	0.02	0.02	T	0.01	T	T	0.01	T	T						0.09
15	0.02	0.04	0.03	0.05	0.02	0.01	0.01	T	T	T	T														0.18
16																									
17							T	T																	T
18																			0.01	T	T		0.01		0.02
19			0.01	0.02	0.05	0.04	T	T	T							T		T	0.04	0.05	0.01		0.02	T	0.24
20	T	0.01	T	0.01	T	T	T	0.01	T	T	0.01	0.01	T	T	T	0.02	0.02	T		T	0.01			0.01	0.11
21	T	0.08	0.03	0.03	0.05	0.05	0.03	T	0.05	T	T	0.04	0.07	0.07	0.07	0.11	0.05	0.05	0.03	0.05	0.04	0.02	0.05	0.05	1.02
22	T	T	0.01							T					T	T	T	T	T	T					0.01
23			T	T	T	T		T	0.02																0.02
24																									
25																									
26								0.01	0.01	0.02	0.03	0.03	0.02	0.02	T										0.14
27						T	T	T	T																T
28																									
29																									
30																									
Day	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Total
	0.04	0.15	0.08	0.15	0.17	0.10	0.04	0.11	0.13	0.05	0.10	0.14	0.09	0.10	0.07	0.14	0.08	0.05	0.10	0.11	0.06	0.03	0.08	0.07	2.24

Greatest in 24 hour: 1.02 on 21

OCT 1995
KODIAK, AK
NATIONAL WEATHER SERVICE
600 SANDY HOOK ST.SUITE 1

INQUIRIES/COMMENTS CALL
(704) 271-4800 VOICE
271-4010 TDD/271-4876 FAX

U.S.C.G. BASE

ISSN # 0197-9817

LOCAL CLIMATOLOGICAL DATA

MONTHLY SUMMARY

LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	DEGREE DAYS BASE 65 °F HEATING	COOLING	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	SNOW/ICE ON GRD AT 0300 (IN.)	PRECIPITATION (INCHES) WATER EQUIVALENT	SNOW ICE PELLETS	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL)	WIND (M.P.H.) RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST SPEED	DIR	FASTEST 2-MIN SPEED	DIR	SUNSHINE MINUTES	PERCENT POSSIBLE	SKY COVER TENTHS SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	53	45	49	4	45.0	16	0	1	0	0.83	0.0	28.940	04	9.1	18.7	38	NE	28	06			10	10
02	59*	45	52*	7	40.9	13	0	1	0	0.19	0.0	29.540	29	13.3	14.5	36	W	29	28			6	7
03	53	37	45	0	35.5	20	0		0	0.00	0.0	29.830	24	1.8	8.9	29	W	16	25			2	4
04	50	36	43	-1	34.0	22	0		0	0.00	0.0	29.800	31	11.1	11.8	29	NW	17	31			8	7
05	50	30	40	-4	37.5	25	0	1	0	0.05	0.0	29.660	15	2.2	9.8	26	SE	22	12			5	5
06	52	46	49	5	46.6	16	0	1	0	0.06	0.0	29.170	07	3.0	8.9	29	NW	18	29			9	10
07	57	43	50	7	41.8	15	0		0	0.09	0.0	29.110	30	7.1	10.3	32	NW	23	30			7	9
08	50	40	45	2	41.7	20	0		0	0.06	0.0	28.900	31	4.6	7.5	18	NW	15	31			10	10
09	53	43	48	5	38.1	17	0		0	0.03	0.0	29.070	31	15.7	16.0	37	NW	26	29			8	8
10	49	37	43	1	26.2	22	0		0	0.00	0.0	29.280	27	12.6	13.2	36	W	22	31			7	6
11	50	30	40	-2	26.7	25	0		0	0.00	0.0	29.320	28	8.7	9.3	31	NW	20	30			2	2
12	48	28	38	-4	28.2	27	0		0	0.00	0.0	29.470	29	8.1	8.6	20	NW	15	28			2	1
13	51	29	40	-1	28.3	25	0		0	0.00	0.0	29.650	29	4.3	7.4	16	NW	10	29			6	6
14	51	30	41	0	38.1	24	0		0	0.29	0.0	29.760	16	5.5	6.8	21	SE	16	16			8	9
15	48	44	46	5	40.4	19	0		0	0.10	0.0	29.695	11	19.1	19.5	40	SE	29	12			10	10
16	48	42	45	5	40.3	20	0	5	0	0.52	T	29.340	06	20.0	20.9	40	NE	31	07			9	10
17	50	35	43	3	38.5	22	0		0	0.06	0.0	29.220	31	7.6	9.5	23	NW	15	31			8	8
18	47	33	40	0	39.5	25	0	1	0	0.69	0.0	29.180	09	5.6	13.1	37	E	28	09			10	9
19	47	43	45	5	41.6	20	0		0	1.12	0.0	29.000	35	15.3	19.9	45	NW	28	34			10	9
20	51	31	41	2	30.1	24	0		0	0.00	0.0	29.670	30	10.1	10.5	26	NW	16	31			3	5
21	44	30	37	-2	37.0	28	0		0	0.93	0.0	29.500	09	16.7	20.7	53	E	40	09			10	10
22	46	37	42	3	38.6	23	0		0	0.73	0.0	29.300	34	14.3	20.1	53	NE	37	06			10	9
23	44	30	37	-2	33.2	28	0		0	0.22	0.0	29.305	32	0.9	7.6	33	E	24	10			7	6
24	48	39	44	6	39.7	21	0	1	0	0.65	0.0	28.725	35	6.5	15.5	33	E	24	08			9	9
25	42	35	39	1	31.6	26	0		0	0.29	0.8	28.920	30	24.2	24.8	49	NW	37	30			9	7
26	41	33	37	-1	19.8	28	0		0	0.00	0.0	29.540	29	14.9	15.4	41	W	23	29			1	1
27	42	24	33	-5	18.8	32	0		0	0.00	0.0	29.930	29	12.8	13.4	36	NW	23	30			1	2
28	44	22*	33*	-5	30.1	32	0		0	0.01	0.0	29.990	20	5.9	8.9	24	SE	14	15			10	8
29	45	41	43	6	38.1	22	0	1	0	0.65	0.0	29.890	15	19.7	20.8	39	SE	28	13			10	10
30	47	43	45	8	44.4	20	0	1	0	2.21	0.0	29.550	12	25.2	25.4	46	E	35	11			10	10
31	50	29	40	3	36.4	25	0	1	0	0.21	0.0	29.520	30	2.6	11.3	31	NW	21	32			3	4
	SUM 1510	SUM 1110				TOTAL 702	TOTAL 0	NUMBER OF DAYS		TOTAL 9.99	TOTAL 0.8	FOR THE MONTH: 29.410	33	2.8	13.8	53	NE	40	09	TOTAL	% FOR MONTH	SUM 220	SUM 221
	AVG. 48.7	AVG. 35.8	AVG. 42.3	DEP. 1.6	AVG. 35.7	DEP. -51	DEP. 0	PRECIPITATION ≥ .01 INCH 22		DEP. 2.81						DATE:22+		DATE: 21		POSS 20234		AVG 7.1	AVG 7.1

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL
MAXIMUM TEMP ≥ 70°	MAXIMUM TEMP ≤ 32°	MINIMUM TEMP ≤ 32°	MINIMUM TEMP ≤ 0°	DEP.	DEP.
0	0	11	0		

SNOW, ICE PELLETS ≥ 1.0 INCH 0
THUNDERSTORMS 0
HEAVY FOG 0
CLEAR 7 PARTLY CLOUDY 6 CLOUDY 18

GREATEST IN 24 HOURS AND DATES			
PRECIPITATION		SNOW, ICE PELLETS	
2.21	30	0.8	25

GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE: 0

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
\+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
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NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

OCT 1995
KODIAK, AK

SEP 1995
KODIAK, AK
NATIONAL WEATHER SERVICE
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U.S.C.G. BASE

ISSN # 0197-9817

LOCAL CLIMATOLOGICAL DATA

MONTHLY SUMMARY

LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (IN.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	DIR 17	FASTEST 2-MIN SPEED 18	DIR 19	SUNSHINE MINUTES 20	PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	64*	50	57*	4	43.5	8	0		0	0.00	0.0	29.580	28	8.1	10.4	32	NW	18	25			4	4
02	61	41	51	-2	44.5	14	0		0	0.00	0.0	29.770	31	2.3	6.7	21	W	14	29			4	3
03	57	38	48	-5	45.6	17	0		0	0.01	0.0	29.900	05	4.0	8.5	17	NE	15	06			9	8
04	53	51	52	-1	51.6	13	0	2	0	1.95	0.0	29.820	06	17.6	18.2	33	NE	28	04			10	10
05	53	52	53	0	52.0	12	0	2	0	0.86	0.0	29.730	09	13.9	14.3	29	E	25	08			10	10
06	58	52	55	2	51.8	10	0	1	0	2.28	0.0	29.560	09	16.3	18.1	40	E	33	08			10	10
07	56	51	54	2	51.3	11	0	1	0	0.45	0.0	29.360	14	1.6	6.7	22	S	16	17			10	10
08	61	46	54	2	48.6	11	0		0	0.00	0.0	29.500	17	3.9	7.0	20	S	14	20			8	8
09	54	51	53	1	50.7	12	0	1	0	0.20	0.0	29.320	13	12.4	13.5	28	SE	24	13			10	10
10	56	49	53	1	48.5	12	0	1	0	0.08	0.0	28.980	15	6.7	8.6	20	SE	16	15			9	9
11	58	50	54	3	49.5	11	0	1	0	0.16	0.0	29.150	30	2.7	6.2	28	NW	16	30			9	9
12	61	45	53	2	48.5	12	0		0	0.00	0.0	29.750	20	4.1	7.8	20	S	17	17			9	9
13	59	47	53	2	48.6	12	0		0	0.00	0.0	29.990	11	1.8	4.7	12	SE	8	13			8	8
14	55	46	51	0	49.0	14	0	1	0	0.13	0.0	29.990	05	6.8	8.4	22	NE	18	05			10	10
15	59	50	55	5	51.1	10	0	2	0	0.06	0.0	29.980	08	6.8	8.6	18	E	16	06			10	10
16	53	51	52	2	51.2	13	0	2	0	1.83	0.0	29.850	08	14.6	15.1	33	E	25	09			10	10
17	53	51	52	2	51.6	13	0	1	0	5.16	0.0	29.590	09	21.4	21.6	30	E	26	09			10	10
18	55	51	53	3	50.3	12	0	1	0	0.21	0.0	29.675	14	13.9	14.8	26	SE	22	12			9	9
19	54	50	52	3	50.5	13	0	1	0	2.30	0.0	29.430	09	26.7	28.2	60	E	44	08			10	10
20	55	51	53	4	50.8	12	0	1	0	0.83	0.0	29.080	11	26.3	27.3	49	E	37	11			10	10
21	54	51	53	4	50.5	12	0	1	0	1.01	0.0	29.100	13	18.3	19.2	41	SE	32	11			10	10
22	54	49	52	4	48.4	13	0	1	0	0.14	0.0	29.470	14	5.9	7.6	18	SE	15	16			10	10
23	59	47	53	5	48.0	12	0	1	0	0.02	0.0	29.580	32	10.9	12.9	28	NW	20	31			10	10
24	56	50	53	5	49.8	12	0	1	0	0.11	0.0	29.560	32	12.0	13.3	26	NW	20	30			10	10
25	54	49	52	5	50.0	13	0	2	0	0.26	0.0	29.420	32	2.9	6.3	17	NW	12	33			10	10
26	54	47	51	4	48.5	14	0	1	0	0.42	0.0	29.610	33	2.0	6.1	17	NW	12	33			10	9
27	55	42	49	2	46.1	16	0		0	0.02	0.0	29.560	19	4.0	8.4	20	SE	16	15			4	5
28	58	41	50	4	45.3	15	0	1	0	0.13	0.0	29.385	18	3.2	10.2	23	SE	15	30			7	8
29	53	34*	44	-2	38.8	21	0		0	0.00	0.0	29.440	25	2.6	7.4	15	SE	13	21			5	4
30	50	35	43*	-3	43.1	22	0	1	0	0.82	0.0	29.210	11	14.5	19.4	55	E	41	10			10	8

SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS	TOTAL	TOTAL	FOR THE MONTH :								TOTAL	% FOR MONTH	SUM	SUM
1682	1418				392	0		19.44	0.0	29.545	10	5.7	12.2	60	E	44	08			265	261
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	DEP.						DATE:19		DATE: 19		POSS		AVG	AVG
56.1	47.3	51.7	1.7	48.6	-58	0	≥ .01 INCH 24	12.45												8.8	8.7

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 0	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE
MAXIMUM TEMP		MINIMUM TEMP		1014	2	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS		
≥ 70°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 5	5.57	16-17	0.0	0
0	0	0	0	-69	2	CLEAR 0 PARTLY CLOUDY 5 CLOUDY 25				

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
\+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS.
COLS 16 & 17 : PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED.
ONE OF TWO WINDS IS GIVEN UNDER COLS 18 & 19 : FASTEST MILE- HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTIONIN COMPASS POINTS). FASTEST OBSERVED TWO MINUTE WIND - HIGHEST TWO MINUTE SPEED (DIRECTION IN TENS OF DEGREES).
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Kenneth D Hadeen
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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

SEP 1995
KODIAK, AK

AUG 1995
KODIAK, AK
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LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (IN.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	DIR 17	FASTEST 2-MIN SPEED 18	DIR 19	SUNSHINE MINUTES 20	PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	51	49	50	-6	49.7	15	0	1	0	0.70	0.0	29.660	07	15.5	16.8	25	E	22	06			10	10
02	54	49	52	-4	49.4	13	0	1	0	0.64	0.0	29.455	04	2.3	7.4	25	NW	17	31			10	10
03	65	50	58	2	47.5	7	0		0	0.16	0.0	29.375	30	12.6	13.6	32	NW	20	29			9	9
04	71	49	60	4	46.1	5	0		0	0.00	0.0	29.630	31	15.2	16.0	36	NW	26	30			4	3
05	64	48	56	0	44.3	9	0		0	0.00	0.0	29.720	32	7.5	12.4	25	NW	18	32			1	1
06	57	46	52	-4	44.7	13	0		0	0.00	0.0	29.770	01	1.6	8.3	20	NW	14	31			9	7
07	51	49	50	-6	49.1	15	0	1	0	0.25	0.0	29.680	06	9.2	11.9	24	NE	18	06			10	10
08	63	49	56	0	49.1	9	0	1	0	T	0.0	29.900	34	2.2	9.1	17	NW	15	31			8	8
09	59	50	55	-1	49.0	10	0	1	0	0.18	0.0	29.580	28	3.1	19.3	44	W	35	30			10	9
10	64	45	55	-1	41.5	10	0		0	0.00	0.0	29.645	29	19.2	19.7	43	W	31	30			2	3
11	50	44	47*	-9	46.9	18	0	1	0	0.91	0.0	29.460	10	8.6	12.8	29	E	24	12			10	10
12	58	48	53	-3	46.8	12	0	2	0	0.19	0.0	29.310	29	8.5	10.0	38	NW	28	30			8	8
13	62	42	52	-4	41.8	13	0		0	0.00	0.0	29.430	30	10.8	11.9	35	W	21	30			6	6
14	69	52	61	6	45.5	4	0		0	0.00	0.0	29.610	30	15.0	15.9	37	NW	25	32			2	2
15	68	47	58	3	45.0	7	0		0	0.00	0.0	29.770	31	12.6	13.0	31	W	23	30			2	1
16	64	45	55	0	46.1	10	0		0	0.00	0.0	29.810	30	3.5	7.6	15	W	14	33			9	7
17	71	51	61	6	47.4	4	0		0	0.00	0.0	29.830	32	9.0	13.0	24	NW	20	32			1	2
18	74*	49	62	7	46.4	3	0		0	0.00	0.0	29.960	32	7.9	10.6	28	NW	21	31			7	4
19	68	51	60	5	46.1	5	0		0	0.00	0.0	29.950	31	15.6	16.4	32	NW	25	31			7	5
20	71	56	64	9	45.8	1	0		0	0.00	0.0	30.020	32	16.9	17.6	35	N	25	30			2	2
21	73	58	66*	11	46.3	0	1		0	0.00	0.0	30.050	31	15.4	15.9	31	NW	21	32			3	5
22	66	54	60	5	49.7	5	0		0	0.00	0.0	29.910	31	5.9	9.4	26	NW	20	33			9	9
23	67	47	57	2	50.5	8	0		0	0.09	0.0	29.850	32	10.2	12.4	25	NW	20	31			6	7
24	59	44	52	-3	49.3	13	0	1	0	0.00	0.0	29.840	06	3.7	7.7	15	E	13	09			9	8
25	58	47	53	-1	49.4	12	0	1	0	0.00	0.0	29.900	08	4.4	7.6	15	E	13	08			5	6
26	62	44	53	-1	48.7	12	0		0	0.00	0.0	29.970	23	0.9	5.7	15	SW	9	21			8	8
27	57	52	55	1	51.8	10	0	1	0	0.29	0.0	29.730	15	5.6	9.3	20	SE	14	17			10	10
28	56	49	53	-1	51.6	12	0	1	0	0.31	0.0	29.790	02	11.3	12.6	31	NE	22	03			10	9
29	60	41*	51	-3	47.3	14	0	1	0	0.17	0.0	29.930	21	5.1	8.7	20	SE	14	20			9	8
30	65	50	58	4	51.7	7	0		0	0.11	0.0	29.775	32	3.8	8.3	22	NW	13	31			9	9
31	57	50	54	0	50.8	11	0	1	0	0.35	0.0	29.570	09	4.7	9.6	29	NW	20	32			9	8
	SUM 1934	SUM 1505				TOTAL 287	TOTAL 1	NUMBER OF DAYS		TOTAL 4.35	TOTAL 0.0	FOR THE MONTH: 29.740	32	5.4	12.0	44	W	35	30	TOTAL	% FOR MONTH	SUM 214	SUM 204
	AVG. 62.4	AVG. 48.5	AVG. 55.5	DEP. 0.3	AVG. 47.6	DEP. -17	DEP. 1	PRECIPITATION ≥ .01 INCH 13		DEP. -0.80						DATE: 9		DATE: 9		POSS		AVG 6.9	AVG 6.6

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 0	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE
MAXIMUM TEMP		MINIMUM TEMP		622	2	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS		
≥ 70°	≥ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 1	0.95	11-12	0.0	0
5	0	0	0	-11	2	CLEAR 7 PARTLY CLOUDY 6 CLOUDY 18				

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
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01	57	48	53	1	49.0	12	0	2	0	0.02	0.0	29.790	09	3.1	3.9	13	E	8	09			10	10
02	58	48	53	0	50.0	12	0	2	0	0.04	0.0	29.770	10	2.6	3.5	9	E	8	11			10	10
03	60	46	53	0	50.8	12	0	2	0	0.27	0.0	29.780	09	1.2	3.4	8	N	7	06			10	10
04	64	49	57	4	52.2	8	0	1	0	T	0.0	29.910	10	2.2	3.6	8	NE	6	25			10	10
05	70*	52	61*	8	52.7	4	0		0	0.00	0.0	29.940	05	1.9	4.7	9	NW	7	07			6	6
06	60	48	54	1	47.7	11	0	1	0	0.07	0.0	29.880	15	7.0	9.4	28	SE	22	15			8	7
07	64	49	57	4	48.7	8	0		0	0.02	0.0	29.830	25	1.9	6.7	23	W	17	28			8	8
08	61	44	53	-1	48.2	12	0		0	0.00	0.0	30.050	07	1.4	3.7	9	E	6	10			4	5
09	62	47	55	1	50.9	10	0	1	0	0.65	0.0	29.960	14	2.3	4.7	13	S	13	16			9	8
10	56	52	54	0	51.2	11	0	1	0	0.16	0.0	29.600	08	1.1	2.9	8	E	6	10			10	10
11	62	51	57	3	51.0	8	0	1	0	0.35	0.0	29.520	36	1.4	3.9	12	NW	8	33			10	10
12	53	50	52	-2	50.3	13	0	2	0	0.30	0.0	29.560	06	3.8	4.4	14	N	11	07			10	10
13	59	50	55	1	49.7	10	0	2	0	0.12	0.0	29.710	10	6.2	8.0	16	E	15	11			10	10
14	58	49	54	0	49.0	11	0	1	0	0.37	0.0	29.920	06	10.9	11.5	26	NE	17	05			10	10
15	51	49	50	-4	49.2	15	0	1	0	0.56	0.0	29.960	06	12.0	12.4	25	E	22	07			10	10
16	55	50	53	-2	49.9	12	0	1	0	0.98	0.0	29.930	35	5.4	9.9	29	N	17	31			10	10
17	56	49	53	-2	49.3	12	0	2	0	T	0.0	30.110	09	6.8	8.6	18	SE	15	15			10	10
18	54	50	52	-3	50.3	13	0	1	0	0.23	0.0	30.040	05	8.0	8.7	18	NE	15	05			10	10
19	54	50	52	-3	51.4	13	0	2	0	0.14	0.0	30.050	12	3.8	4.6	13	E	12	08			10	10
20	63	49	56	1	52.5	9	0	1	0	T	0.0	30.130	06	4.3	7.5	21	NE	16	07			7	7
21	60	46	53	-2	51.3	12	0		0	0.06	0.0	30.040	04	3.2	7.3	21	NW	15	32			8	8
22	64	44*	54	-1	47.5	11	0	1	0	0.04	0.0	29.880	20	3.6	9.4	23	SW	18	23			9	8
23	55	50	53	-2	50.4	12	0	1	0	T	0.0	29.550	13	5.4	6.5	16	SE	12	14			10	10
24	66	50	58	3	47.0	7	0		0	0.01	0.0	29.440	29	11.7	13.1	31	W	20	32			8	8
25	67	51	59	4	45.0	6	0		0	0.00	0.0	29.360	30	11.3	12.7	36	NW	25	31			8	8
26	58	46	52	-3	49.2	13	0		0	0.00	0.0	29.510	09	1.5	6.8	18	NW	12	01			8	6
27	65	45	55	0	48.3	10	0		0	0.00	0.0	29.720	35	3.0	7.7	18	NW	12	31			2	1
28	54	45	50*	-6	48.0	15	0	1	0	0.41	0.0	29.750	13	7.1	10.9	24	S	18	12			10	9
29	56	50	53	-3	50.8	12	0	1	0	0.21	0.0	29.610	05	0.3	6.4	17	NW	13	32			9	9
30	64	49	57	1	47.9	8	0		0	T	0.0	29.810	16	0.7	6.3	14	NW	12	12			8	8
31	59	45	52	-4	47.0	13	0		0	0.01	0.0	29.850	11	4.9	9.2	21	SE	16	10			9	8

SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS	TOTAL	TOTAL	FOR THE MONTH :								TOTAL	% FOR MONTH	SUM	SUM
1845	1501				335	0		5.02	0.0	29.805	07	2.0	7.2	36	NW	25	31			271	264
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	DEP.						DATE:25		DATE: 25		POSS		AVG	AVG
59.5	48.4	54.0	-0.4	49.6	6	0	≥ .01 INCH 21	1.32												8.7	8.5

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 0	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE
MAXIMUM TEMP		MINIMUM TEMP		335	1	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS		
≥ 70°	≥ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 7	1.07	15-16	0.0	0
1	0	0	0	6	1	CLEAR 1	PARTLY CLOUDY 3	CLOUDY 27		

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
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JUL 1995
KODIAK, AK

JUN 1995
KODIAK, AK
NATIONAL WEATHER SERVICE
600 SANDY HOOK ST.SUITE 1

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U.S.C.G. BASE

ISSN # 0197-9817

LOCAL CLIMATOLOGICAL DATA

MONTHLY SUMMARY

KODIAK, AK

LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (IN.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	PEAK GUST DIR 17	FASTEST 2-MIN SPEED 18	FASTEST 2-MIN DIR 19	SUNSHINE MINUTES 20	PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	48	40	44	-3	40.0	21	0		0	0.21	0.0	29.610	07	5.3	6.5	20	NE	12	11			10	10
02	49	39*	44	-3	38.2	21	0		0	0.20	0.0	29.610	07	5.4	6.8	20	NE	9	09			7	8
03	49	42	46	-1	37.9	19	0		0	0.61	0.0	29.520	03	18.4	19.0	49	NE	30	04			10	10
04	48	44	46	-1	43.0	19	0	1	0	1.76	0.0	29.460	03	18.6	19.3	41	N	26	01			10	10
05	49	45	47	-1	43.5	18	0	1	0	0.09	0.0	29.750	04	12.3	12.8	25	NE	17	05			10	10
06	47	44	46	-2	43.4	19	0	1	0	0.11	0.0	29.680	05	12.3	12.8	31	NE	23	03			10	10
07	45	43	44*	-4	43.1	21	0	2	0	0.40	0.0	29.610	08	5.1	5.8	18	SE	14	12			10	10
08	49	43	46	-2	43.5	19	0	1	0	0.02	0.0	29.780	09	5.2	6.2	15	NE	12	12			10	10
09	59	44	52	4	39.6	13	0		0	T	0.0	29.890	33	8.2	9.6	23	NW	20	30			9	10
10	65	54	60	11	44.1	5	0		0	T	0.0	29.860	33	9.0	13.9	32	NW	25	30			8	8
11	77*	55	66*	17	45.3	0	1		0	0.00	0.0	29.780	32	9.4	11.1	29	NW	23	32			3	4
12	61	44	53	4	45.4	12	0	2	0	0.00	0.0	29.690	13	2.3	5.8	16	E	15	11			5	6
13	59	43	51	2	44.5	14	0	2	0	0.00	0.0	29.650	13	2.2	5.2	18	S	13	20			4	5
14	55	46	51	2	43.5	14	0		0	T	0.0	29.650	15	7.3	8.6	18	SW	13	20			9	9
15	49	45	47	-3	45.0	18	0	1	0	0.32	0.0	29.535	08	6.3	7.0	15	NE	12	08			10	10
16	54	45	50	0	45.8	15	0	1	0	0.18	0.0	29.670	05	2.8	5.8	16	N	12	01			7	7
17	59	45	52	2	43.7	13	0		0	0.00	0.0	29.790	35	1.8	6.5	17	NW	13	32			7	5
18	57	41	49	-1	41.6	16	0		0	T	0.0	29.835	11	4.4	8.0	21	E	14	10			9	8
19	48	45	47	-3	45.5	18	0	1	0	0.27	0.0	29.870	08	8.7	8.8	17	E	15	08			10	10
20	50	46	48	-2	45.9	17	0	1	0	0.21	0.0	29.910	07	5.2	6.7	16	E	14	05			10	10
21	54	47	51	0	46.7	14	0	1	0	0.06	0.0	29.880	02	4.4	5.6	18	NE	15	04			10	10
22	54	48	51	0	48.1	14	0	1	0	0.27	0.0	29.700	35	7.5	8.7	28	NE	22	03			10	10
23	53	47	50	-1	45.5	15	0	1	0	0.03	0.0	29.830	04	6.2	6.6	20	NE	10	05			10	10
24	54	46	50	-1	45.7	15	0		0	0.00	0.0	30.030	10	1.8	4.7	10	SE	8	12			8	8
25	60	40	50	-1	46.0	15	0		0	0.00	0.0	30.170	04	3.1	6.0	13	NE	9	06			3	3
26	51	48	50	-2	44.1	15	0		0	0.00	0.0	30.250	11	6.3	7.5	17	E	13	08			10	10
27	49	47	48	-4	47.0	17	0	2	0	1.48	0.0	30.200	08	12.4	12.9	24	E	20	08			10	10
28	51	46	49	-3	46.2	16	0	1	0	0.29	0.0	30.200	09	4.6	5.2	13	SE	8	09			10	10
29	51	47	49	-3	47.7	16	0	1	0	0.63	0.0	29.980	06	4.0	4.1	9	NE	7	06			10	10
30	52	47	50	-2	47.7	15	0	2	0	1.02	0.0	29.815	09	4.6	4.9	12	E	8	11			10	10

SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS	TOTAL	TOTAL	FOR THE MONTH :								TOTAL	% FOR MONTH	SUM	SUM
1606	1356				464	1		8.16	0.0	29.810	05	4.8	8.4	49	NE	30	04			259	261
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	DEP.						DATE: 3		DATE: 3		POSS		AVG	AVG
53.5	45.2	49.4	-0.2	44.2	2	1	≥ .01 INCH 19	3.38												8.6	8.7

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 0	GREATEST IN 24 HOURS AND DATES		GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE
MAXIMUM TEMP		MINIMUM TEMP				THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS	
≥ 70°	≥ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 5	2.33 03-04	0.0	0
1	0	0	0	76	1	CLEAR 2 PARTLY CLOUDY 5 CLOUDY 23			

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DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (IN.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR. 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	DIR 17	FASTEST 2-MIN SPEED 18	DIR 19	SUNSHINE MINUTES 20	PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	48	32	40	0	37.5	25	0	1	0	0.00	0.0	29.810	11	1.4	6.8	16	NE	12	07			4	4
02	45	40	43	2	38.3	22	0	1	0	T	0.0	29.660	13	3.3	6.2	13	E	10	12			10	10
03	45	38	42	1	38.2	23	0		0	0.13	T	29.895	10	8.3	9.0	24	E	14	08			10	10
04	48	38	43	2	34.0	22	0		0	T	0.0	30.050	15	7.6	8.1	21	SE	15	16			6	7
05	42	37	40*	-1	38.5	25	0	1	0	1.39	0.0	29.825	11	22.5	23.3	47	SE	38	11			10	10
06	44	38	41	0	41.3	24	0	1	0	0.52	0.0	29.260	11	15.8	15.9	28	SE	23	12			10	10
07	48	39	44	2	40.1	21	0	1	0	0.09	0.0	29.320	12	9.0	9.7	21	SE	16	11			10	10
08	46	41	44	2	41.4	21	0	2	0	0.09	0.0	29.520	08	7.7	8.2	22	E	17	09			10	10
09	44	39	42	0	41.9	23	0	1	0	1.07	0.0	29.500	08	16.8	17.0	38	E	28	08			10	10
10	45	42	44	2	42.2	21	0	1	0	0.43	0.0	29.590	07	13.3	13.5	31	E	23	08			10	10
11	52	40	46	4	41.8	19	0		0	0.00	0.0	29.750	09	2.9	5.1	13	E	10	10			10	10
12	48	42	45	2	42.7	20	0	2	0	0.09	0.0	29.910	11	8.7	9.2	21	SE	17	13			10	10
13	47	40	44	1	41.6	21	0	1	0	0.33	0.0	29.770	12	10.0	11.1	29	SE	23	12			9	9
14	46	37	42	-1	39.0	23	0	1	0	0.09	0.0	29.800	10	3.9	7.6	17	E	14	12			9	8
15	47	39	43	0	38.6	22	0	1	0	0.07	0.0	29.435	12	5.5	8.1	20	E	17	08			10	10
16	47	34	41	-2	37.3	24	0	4	0	0.02	T	29.570	31	2.8	6.4	16	NW	12	29			9	8
17	49	32*	41	-3	37.1	24	0		0	0.00	0.0	29.880	14	1.9	5.6	10	SW	9	11			4	3
18	48	33	41	-3	38.5	24	0		0	0.00	0.0	30.150	08	2.1	5.2	13	E	10	09			10	9
19	43	42	43	-1	41.8	22	0	1	0	1.92	0.0	30.025	09	13.2	13.4	31	E	25	09			10	10
20	44	42	43	-1	42.6	22	0	2	0	0.47	0.0	29.920	09	13.7	14.1	31	E	22	08			10	10
21	47	42	45	0	42.7	20	0	1	0	0.14	0.0	29.890	11	12.5	12.9	33	E	25	09			10	10
22	47	41	44	-1	42.8	21	0	2	0	0.14	0.0	30.000	10	9.1	9.4	21	SE	15	12			10	10
23	56*	42	49*	4	42.7	16	0	1	0	0.98	0.0	29.850	13	7.7	9.7	23	E	17	08			10	10
24	50	42	46	1	41.7	19	0		0	0.00	0.0	29.780	11	3.1	5.8	15	SE	10	11			10	10
25	47	43	45	0	43.0	20	0	1	0	0.34	0.0	29.500	05	1.4	4.9	12	NW	7	11			10	10
26	44	42	43	-3	38.2	22	0		0	0.01	0.0	29.520	08	13.5	16.6	31	NE	24	08			10	10
27	45	41	43	-3	40.8	22	0	1	0	0.72	0.0	29.395	03	10.0	13.0	32	N	23	03			10	10
28	50	43	47	1	42.3	18	0	1	0	0.24	0.0	29.490	04	9.6	10.3	25	NE	20	04			10	10
29	50	42	46	0	39.2	19	0		0	0.05	0.0	29.510	15	3.9	6.3	17	SE	13	16			9	9
30	46	41	44	-2	40.5	21	0	1	0	0.10	0.0	29.530	13	4.4	6.1	15	E	10	12			10	10
31	48	37	43	-4	37.6	22	0		0	0.03	0.0	29.590	12	6.0	7.6	20	E	16	11			8	8
SUM	1456	SUM	1221			TOTAL 668	TOTAL 0	NUMBER OF DAYS		TOTAL 9.46	TOTAL T	FOR THE MONTH:	29.700	10	7.1	9.9	47	SE	38	11	TOTAL	% FOR MONTH	SUM 288	SUM 285
AVG.	47.0	AVG.	39.4	AVG. 43.2	DEP. -0.3	AVG. 40.2	DEP. 1	DEP. 0	PRECIPITATION ≥ .01 INCH 24	DEP. 3.94							DATE: 5		DATE: 5		POSS		AVG. 9.3	AVG. 9.2

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 0	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE
MAXIMUM TEMP		MINIMUM TEMP		8429	0	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS		
≥ 90°	≥ 70°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 4	2.00 19-20	trace 16+		0
0	0	2	0	74	0	CLEAR 0 PARTLY CLOUDY 3 CLOUDY 28				

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LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	DEGREE DAYS BASE 65 °F HEATING	COOLING	WEATHER TYPES (1 FOG, 2 HEAVY FOG, 3 THUNDERSTORMS, 4 ICE PELLETS, 5 HAIL, 6 GLAZE, 7 DUSTSTORM, 8 SMOKE, HAZE, 9 BLOWING SNOW)	SNOW/ICE ON GRD AT 0300 (IN.)	PRECIPITATION (INCHES) WATER EQUIVALENT	SNOW ICE PELLETS	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL)	WIND (M.P.H.) RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST SPEED	PEAK GUST DIR	FASTEST 2-MIN SPEED	FASTEST 2-MIN DIR	SUNSHINE MINUTES	PERCENT POSSIBLE	SKY COVER TENTHS SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	42	35	39	4	36.0	26	0	1	0	0.37	T	29.380	34	6.3	7.8	20	NW	16	31			10	10
02	44	35	40	5	36.5	25	0	1	0	0.25	0.0	29.490	01	7.4	8.8	21	NE	16	03			10	10
03	40	35	38	3	35.7	27	0	1	0	0.59	T	29.140	35	13.8	15.4	37	N	28	04			10	10
04	42	38	40	5	37.4	25	0	1	0	0.38	0.0	29.070	03	25.0	25.4	51	NE	32	03			10	10
05	41	37	39	3	37.2	26	0	1	0	0.44	0.0	29.180	06	6.5	9.9	31	N	16	36			10	10
06	42	39	41	5	37.2	24	0	1	0	0.23	0.0	29.270	06	10.7	11.9	25	NE	20	04			10	10
07	44	37	41	5	33.1	24	0	1	0	0.62	T	29.210	01	15.9	17.4	39	NE	28	03			10	9
08	41	37	39	3	37.7	26	0	1	0	0.76	0.0	29.170	06	14.5	17.5	37	NE	25	05			10	10
09	42	35	39	3	35.5	26	0		0	0.13	T	29.460	12	15.3	15.9	29	SE	25	12			8	9
10	46	34	40	3	31.5	25	0	1	0	0.04	T	29.420	35	8.9	10.7	25	NW	16	32			10	10
11	47	38	43	6	28.8	22	0		0	0.00	0.0	29.485	32	12.4	13.0	29	NW	18	31			8	9
12	46	38	42	5	32.2	23	0		0	T	0.0	29.685	31	12.8	13.0	28	NW	20	30			9	10
13	39	34	37*	0	32.4	28	0	1	0	0.17	T	29.610	12	8.5	13.8	29	SE	22	11			10	10
14	43	34	39	2	36.3	26	0		0	0.24	T	29.730	11	13.8	15.4	37	SE	30	13			10	10
15	44	31	38	1	36.2	27	0		2	0.64	5.1	29.260	13	7.5	8.8	37	SE	32	13			10	10
16	44	33	39	1	36.1	26	0		1	0.11	T	29.200	13	1.0	5.5	12	S	9	10			8	8
17	44	33	39	1	32.3	26	0	1	0	0.17	0.4	29.450	13	7.7	11.3	33	SE	29	13			8	9
18	48	33	41	3	35.4	24	0	1	0	0.16	T	29.205	17	3.7	6.0	21	SE	18	12			7	7
19	47	33	40	2	35.4	25	0		0	0.12	T	29.470	29	2.0	5.1	12	SE	9	34			10	9
20	45	34	40	2	34.9	25	0		0	T	0.0	29.710	06	2.4	5.9	13	E	12	10			9	9
21	40	35	38	0	36.0	27	0	1	0	0.98	T	29.700	04	15.1	15.6	36	NE	28	04			10	10
22	47	35	41	2	38.8	24	0	1	0	0.18	0.0	29.760	11	1.9	6.8	22	SW	12	21			10	9
23	48	31*	40	1	35.9	25	0		0	T	0.0	30.240	14	1.9	5.7	18	S	15	17			9	8
24	48	41	45	6	38.5	20	0		0	T	0.0	30.210	19	6.9	8.0	22	SW	17	22			9	10
25	48	40	44	5	37.9	21	0		0	T	0.0	30.000	20	8.9	10.5	29	SW	18	22			10	10
26	53	39	46	7	40.1	19	0		0	T	0.0	30.130	07	1.8	5.5	15	NW	9	13			5	5
27	55	38	47	7	35.8	18	0	1	0	0.00	0.0	30.235	30	10.5	11.7	28	NW	18	28			3	2
28	58	38	48	8	25.3	17	0		0	0.00	0.0	30.200	30	14.8	15.2	33	NW	24	30			3	2
29	61*	37	49*	9	26.3	16	0		0	0.00	0.0	29.960	32	7.0	10.1	24	NW	16	34			4	3
30	47	32	40	0	35.8	25	0	2	0	0.00	0.0	29.900	03	1.7	6.9	12	E	12	10			4	3

SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS	TOTAL	TOTAL	FOR THE MONTH :								TOTAL	% FOR MONTH	SUM	SUM
1376	1069				718	0		6.58	5.5	29.600	03	3.5	11.2	51	NE	32	13			254	251
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	DEP.						DATE: 4		DATE: 15+		POSS		AVG	AVG
45.9	35.6	40.8	3.3	34.9	-107	0	≥ .01 INCH 19	2.38												8.5	8.4

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 1	GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE, OR HAIL AND DATE	
MAXIMUM TEMP		MINIMUM TEMP		7761	0	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS				
≥ 90°	≥ 70°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 1	1.22	07-08	5.1	14-15	4	15
0	0	3	0	73	0	CLEAR 2 PARTLY CLOUDY 4 CLOUDY 24						

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
\+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

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APR 1995
KODIAK, AK

MAR 1995
KODIAK, AK
NATIONAL WEATHER SERVICE
600 SANDY HOOK ST.SUITE 1

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U.S.C.G. BASE

ISSN # 0197-9817

LOCAL CLIMATOLOGICAL DATA
MONTHLY SUMMARY

LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (IN.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	DIR 17	FASTEST 1-MIN SPEED 18	DIR 19	SUNSHINE MINUTES 20	PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	46	34	40	9	35.4	25	0	1	T	0.30	1.2	30.290	18	4.6	7.6	25	SE	17	13			6	7
02	43	35	39	8	33.0	26	0	1	0	0.01	0.0	30.320	31	10.1	10.5	25	NW	20	31			1	3
03	50*	29	40	9	27.3	25	0		0	0.00	0.0	30.280	32	11.1	11.3	26	NW	20	32			0	0
04	43	26	35	3	28.2	30	0		0	0.00	0.0	30.240	30	2.9	5.8	10	W	9	26			3	1
05	44	25	35	3	24.3	30	0		0	0.00	0.0	30.120	30	8.4	9.9	28	NW	17	31			0	0
06	43	27	35	3	20.8	30	0		0	0.00	0.0	30.210	33	9.3	12.9	32	NW	24	31			3	2
07	43	23	33	1	20.1	32	0		0	0.00	0.0	30.020	32	7.9	8.9	21	NW	14	31			0	2
08	44	29	37	5	23.0	28	0		0	0.00	0.0	29.700	30	7.3	7.8	28	NW	18	31			1	3
09	42	32	37	5	12.2	28	0		0	0.00	0.0	29.260	32	18.0	18.7	64	NW	35	34			0	0
10	41	24	33	1	10.8	32	0		0	0.00	0.0	29.060	31	16.9	17.7	47	NW	32	31			0	1
11	32	20	26	-6	10.3	39	0		0	0.00	0.0	29.165	32	11.2	12.2	31	NW	18	33			4	4
12	26	16	21	-11	8.5	44	0		0	T	T	29.380	33	12.4	12.9	32	NW	20	33			8	7
13	29	15	22	-10	5.2	43	0		0	T	T	29.560	30	13.6	14.3	33	NW	26	30			3	3
14	23	10	17	-16	1.5	48	0		0	T	T	29.590	32	13.1	13.4	26	NW	17	33			4	5
15	19	10	15	-18	1.1	50	0		0	T	T	29.575	33	10.9	11.5	23	N	15	34			9	8
16	19	9	14*	-19	2.2	51	0	9	T	T	T	28.990	31	24.1	24.4	51	NW	35	31			9	7
17	21	13	17	-16	6.5	48	0	2	T	0.09	2.0	29.010	29	3.1	15.7	30	SE	24	13			8	8
18	35	16	26	-7	14.8	39	0		1	0.03	0.3	29.450	01	7.1	13.2	31	NE	25	04			5	6
19	36	18	27	-6	15.3	38	0		T	0.02	0.2		30	9.6	10.0	32	W	18	31			8	6
20	34	9	22	-11	8.9	43	0	9	T	0.01	0.1	29.660	30	21.0	22.6	66	NW	52	30			7	8
21	23	9*	16	-17	-.9	49	0	89	T	0.00	0.0	29.840	31	37.8	38.1	75	NW	55	30			1	2
22	35	22	29	-5	2.0	36	0		0	0.00	0.0	30.090	31	22.9	23.4	52	NW	37	32			6	3
23	32	20	26	-8	7.6	39	0		0	0.00	0.0	29.990	33	11.6	13.0	31	NW	21	32			2	1
24	34	20	27	-7	15.5	38	0		0	0.09	0.9	29.805	03	14.4	19.9	37	NE	28	04			10	8
25	36	29	33	-1	27.3	32	0		2	0.30	2.7	29.690	03	18.1	19.9	37	NE	32	04			10	10
26	40	28	34	0	24.7	31	0	1 9	2	0.06	0.6	29.815	31	17.3	17.7	37	NW	29	31			3	4
27	40	24	32	-2	31.8	33	0	2	1	0.82	0.1	29.920	04	13.1	17.2	54	NE	39	04			10	10
28	39	35	37	3	34.8	28	0	1	0	1.07	T	29.500	11	13.9	18.4	47	NE	38	03			10	10
29	40	35	38	3	36.8	27	0	1	0	0.21	T	29.690	07	14.6	15.3	28	NE	22	06			10	10
30	42	38	40*	5	39.2	25	0	1	0	0.95	0.0	29.405	04	22.1	22.4	44	NE	33	04			10	10
31	41	36	39	4	36.8	26	0	1	0	0.34	0.0	29.330	06	6.5	8.4	21	NE	18	06			10	10
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS		TOTAL	TOTAL	FOR THE MONTH :								TOTAL	%	SUM	SUM
1115	716					1093	0			4.30	8.1	29.700	33	9.6	15.3	75	NW	55	30		FOR	161	159
AVG.	AVG.	AVG.	DEP.	AVG.		DEP.	DEP.	PRECIPITATION		DEP.						DATE:21		DATE:21		POSS	MONTH	AVG	AVG
36.0	23.1	29.6	-3.3	18.2		98	0	≥ .01 INCH	14	-0.33												5.2	5.1

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 3	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
MAXIMUM TEMP		MINIMUM TEMP		7043	0	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS			
≥ 70°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 2	1.81	27-28	3.4	24-25	3	26+
0	9	25	0	180	0	CLEAR 13 PARTLY CLOUDY 6 CLOUDY 12					

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T TRACE AMOUNT.
+ ALSO ON EARLIER DATE(S).
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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

MAR 1995
KODIAK, AK

FEB 1995
KODIAK, AK
NATIONAL WEATHER SERVICE
600 SANDY HOOK ST.SUITE 1

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U.S.C.G. BASE

ISSN # 0197-9817

LOCAL CLIMATOLOGICAL DATA
MONTHLY SUMMARY

LATITUDE 57° 45'N LONGITUDE 152° 30'W ELEVATION (GROUND) 15 FEET TIME ZONE YUKON 25501

FEB 1995
KODIAK, AK

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORMS 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE,HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (IN.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	DIR 17	FASTEST 1-MIN SPEED 18	DIR 19	SUNSHINE MINUTES 20	PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	MIDNIGHT TO MIDNIGHT 23
01	38	32	35	5	33.5	30	0	1	2	0.14	0.5	29.390	10	9.0	10.6	25	E	22	10			10	10
02	39	35	37	7	35.4	28	0	1	1	0.19	T	29.330	10	14.6	15.1	32	E	25	09			10	10
03	40	35	38	8	35.7	27	0	1	T	0.04	0.0	29.420	11	5.4	6.8	24	E	18	09			8	9
04	42	37	40	10	38.9	25	0	1	T	2.72	0.0	29.210	08	25.6	26.1	44	E	33	08			10	10
05	41	36	39	9	36.2	26	0	1	0	0.59	T	28.920	13	18.3	22.0	45	E	33	08			10	10
06	39	33	36	6	34.4	29	0	1	0	0.28	T	29.570	13	8.2	12.7	36	S	23	13			10	9
07	38	30	34	4	33.6	31	0	1	0	0.07	0.0	29.690	31	8.4	9.4	26	NW	17	31			10	9
08	42	29	36	6	31.3	29	0		0	0.00	0.0	30.010	26	1.8	5.6	17	NW	14	28			8	6
09	40	33	37	7	35.9	28	0	1	0	1.07	1.7	29.920	09	9.3	11.7	33	E	25	09			10	9
10	46*	30	38	8	30.5	27	0		0	0.00	0.0	30.345	30	4.7	6.0	16	W	9	30			1	2
11	43	29	36	6	30.5	29	0	2	0	0.01	0.0	30.420	26	1.8	4.3	10	SW	8	22			9	8
12	41	31	36	6	33.3	29	0	2	0	0.00	0.0	30.290	25	1.2	3.5	9	NW	6	34			10	10
13	44	33	39	9	28.4	26	0		0	0.00	0.0	29.885	32	9.0	10.5	37	NW	23	32			3	4
14	39	30	35	5	15.3	30	0		0	0.00	0.0	29.900	32	12.5	12.8	33	NW	18	32			0	0
15	34	27	31	0	15.9	34	0	2 9	0	0.10	3.0	29.870	02	17.7	20.8	41	NW	30	03			8	6
16	36	14	25	-6	14.5	40	0	9	3	0.01	0.1	29.850	35	8.3	12.5	35	NE	25	02			4	5
17	29	11	20	-11	13.8	45	0	1 9	3	0.39	5.8	29.310	32	13.3	14.0	39	NW	28	30			7	6
18	26	20	23	-8	19.1	42	0	9	6	0.83	12.0	29.050	31	23.4	23.8	46	NW	33	30			10	10
19	30	23	27	-4	17.3	38	0	9	15	T	T	29.080	32	21.0	21.2	40	NW	29	31			5	5
20	28	16	22	-9	10.3	43	0	9	14	T	T	28.850	31	19.1	19.3	48	NW	31	31			2	2
21	21	6	14	-17	-3.1	51	0		14	0.00	0.0	29.410	31	13.3	13.6	26	NW	21	32			1	1
22	28	-1*	14*	-17	3.6	51	0		13	0.00	0.0	29.920	28	6.0	7.2	14	W	13	29			3	4
23	32	13	23	-8	14.4	42	0		12	0.01	0.1	29.970	29	4.7	5.8	15	W	12	33			9	8
24	32	25	29	-2	24.3	36	0	1	11	0.08	1.2	30.070	24	1.1	4.9	12	NW	8	31			10	10
25	37	29	33	2	32.0	32	0	1	10	0.09	T	30.170	13	6.9	9.1	23	SE	18	13			10	10
26	42	37	40*	9	36.8	25	0	1	6	0.28	0.0	30.230	14	7.3	7.9	22	SE	16	14			10	10
27	42	35	39	8	37.0	26	0	1	1	0.08	0.0	30.420	12	6.1	6.6	14	SE	12	12			10	10
28	40	35	38	7	34.6	27	0		T	0.09	T	30.430	13	13.8	13.9	28	SE	21	12			10	10

SUM	SUM				TOTAL	TOTAL	NUMBER OF DAYS	TOTAL	TOTAL	FOR THE MONTH :								TOTAL	% FOR MONTH	SUM	SUM
1029	743				926	0		7.07	24.4	29.750	01	2.5	12.1	48	NW	33	30			208	203
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	PRECIPITATION	DEP.						DATE:20		DATE:18+		POSS		AVG	AVG
36.8	26.5	31.7	1.2	25.8	-40	0	≥ .01 INCH 19	1.79												7.4	7.2

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH 5	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
MAXIMUM TEMP.		MINIMUM TEMP.		5950	0	THUNDERSTORMS 0	PRECIPITATION	SNOW, ICE PELLETS			
≥ 70°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG 3	2.94	04-05	12.0	18-19	15	19+
0	8	18	1	82	0	CLEAR 6 PARTLY CLOUDY 3 CLOUDY 19					

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JAN 1995
KODIAK, AK

DATE 1	TEMPERATURE °F MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEPARTURE FROM NORMAL 5	AVERAGE DEW POINT 6	DEGREE DAYS BASE 65 °F HEATING 7A	COOLING 7B	WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW 8	SNOW/ICE ON GRD AT 0300 (IN.) 9	PRECIPITATION (INCHES) WATER EQUIVALENT 10	SNOW ICE PELLETS 11	AVERAGE STATION PRESSURE (INCHES OF Hg) ELEV. 112 (FT.MSL) 12	WIND (M.P.H.) RESULTANT DIR 13	RESULTANT SPEED 14	AVERAGE SPEED 15	PEAK GUST SPEED 16	PEAK GUST DIR 17	FASTEST 1-MIN SPEED 18	FASTEST 1-MIN DIR 19	SUNSHINE MINUTES 20	SUNSHINE PERCENT POSSIBLE 21	SKY COVER TENTHS SUNRISE TO SUNSET 22	SKY COVER TENTHS MIDNIGHT TO MIDNIGHT 23
01	41	39	40	10	39.8	25	0	1	1	0.80	0.0	29.590	09	17.2	17.6	38	E	28	09			10	10
02	41	39	40	10	39.7	25	0	1	0	1.12	0.0	29.490	10	14.6	15.3	30	SE	21	08			10	10
03	42	38	40	10	38.8	25	0	1	0	0.74	0.0	29.430	07	18.6	19.1	51	E	36	09			10	10
04	42	38	40*	10	39.5	25	0	1	0	0.36	0.0	29.310	11	20.2	20.4	43	E	36	09			10	10
05	39	34	37	7	36.0	28	0	1	0	T	0.0	29.375	13	3.3	5.0	14	E	8	11			10	10
06	38	33	36	6	35.0	29	0	1	0	0.23	T	29.300	12	4.5	7.0	25	SE	20	10			9	10
07	40	37	39	10	36.6	26	0	1	0	0.34	0.0	29.430	09	10.6	10.9	25	E	18	09			10	10
08	39	34	37	8	30.8	28	0	1	0	T	0.0	29.340	32	12.2	14.9	43	NW	30	31			8	7
09	42*	32	37	8	24.0	28	0		0	0.00	0.0	29.320	31	15.6	16.0	36	NW	22	31			1	2
10	37	26	32	2	21.2	33	0		0	0.00	0.0	29.280	31	9.5	10.3	22	NW	18	30			1	2
11	29	17	23	-7	15.4	42	0		0	0.00	0.0	29.360	30	6.8	7.5	16	NW	12	31			10	6
12	28	17	23	-7	12.8	42	0		0	0.00	0.0	29.540	31	6.6	7.4	17	NW	12	32			5	7
13	29	14	22	-8	13.5	43	0		0	0.00	0.0	29.490	29	6.5	7.1	14	NW	13	29			1	4
14	27	16	22	-8	16.1	43	0		0	0.00	0.0	29.490	31	7.3	8.2	15	NW	13	32			8	8
15	38	23	31	1	29.5	34	0	1	0	0.12	0.6	29.280	15	5.3	9.4	30	SE	26	13			10	10
16	41	36	39	9	35.7	26	0	1 4	0	0.59	T	28.840	12	15.5	18.8	52	E	37	09			10	9
17	39	31	35	5	32.3	30	0		0	T	0.0	29.050	15	2.7	5.9	22	E	9	12			9	9
18	38	33	36	6	33.2	29	0	1	0	0.06	T	28.970	34	5.6	6.5	14	NW	10	32			9	9
19	38	23	31	1	25.5	34	0		T	0.00	0.0	29.140	30	8.1	8.3	21	NW	15	31			2	2
20	38	23	31	1	31.8	34	0		T	0.14	0.8	29.280	33	3.5	6.1	23	NW	15	09			9	10
21	35	13	24	-6	24.7	41	0	2	0	0.19	3.4	29.460	29	6.4	7.2	28	NW	17	31			10	7
22	33	10	22	-8	13.7	43	0		3	0.00	0.0	29.920	29	6.6	6.9	15	W	10	28			3	2
23	29	9*	19	-11	12.3	46	0		3	0.00	0.0	30.095	29	6.4	6.7	17	NW	12	27			0	1
24	26	11	19*	-11	10.4	46	0		2	0.00	0.0	29.990	31	8.3	8.7	18	NW	12	31			1	1
25	25	14	20	-10	11.7	45	0		2	T	T	29.860	33	6.7	7.1	15	NW	9	33			7	6
26	24	16	20	-10	11.7	45	0		2	T	T	29.720	31	14.5	14.7	39	NW	24	31			6	7
27	39	24	32	2	29.7	33	0	1 9	2	1.35	8.0	29.180	36	14.6	18.3	46	NE	32	03			10	10
28	41	36	39	9	38.6	26	0	1	6	0.72	0.0	28.805	08	15.8	16.7	29	E	23	09			10	10
29	40	33	37	7	34.7	28	0	1	3	0.15	0.0	28.920	29	4.7	5.4	13	NW	12	03			10	9
30	36	32	34	4	27.7	31	0	1	2	T	T	29.300	31	6.2	6.8	17	NW	12	33			10	10
31	37	31	34	4	29.5	31	0	1	2	0.01	0.1	29.340	24	1.5	4.1	12	SE	7	13			10	10
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL	FOR THE MONTH:								TOTAL	% FOR MONTH	SUN	SUN
1111	812					1044	0			6.92	12.9	29.385	01	2.6	10.5	52	E	37	09			229	228
AVG.	AVG.	AVG.	DEP.	AVG.		DEP.	DEP.	PRECIPITATION		DEP.						DATE:16		DATE:16		POSS		AVG	AVG
35.8	25.2	32.0	1.1	25.8		-46	0	≥ .01 INCH	15	-0.46												7.6	

NUMBER OF DAYS				SEASON TO DATE TOTAL	TOTAL	SNOW, ICE PELLETS ≥ 1.0 INCH	2	GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE	
MAXIMUM TEMP. ≥ 70°	MAXIMUM TEMP. ≤ 32°	MINIMUM TEMP. ≤ 32°	MINIMUM TEMP. ≤ 0°	5024 DEP.	0 DEP.	THUNDERSTORMS	0	PRECIPITATION 1.53	27-28	SNOW, ICE PELLETS 8.0	26-27	8 27
0	8	19	0	122	0	HEAVY FOG 1						
						CLEAR 7	PARTLY CLOUDY 3	CLOUDY 21				

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT.
\+ ALSO ON EARLIER DATE(S).
HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS.
COLS 16 & 17 : PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED.
ONE OF TWO WINDS IS GIVEN UNDER COLS 18 & 19 : FASTEST MILE- HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES).
ERRORS WILL BE CORRECTED IN SUBSEQUENT PUBLICATIONS.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

Kenneth D Hadeen
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

Appendix D:
ADF&G Limnology Lab
water quality results

MEMORANDUM STATE OF ALASKA
DEPARTMENT OF FISH AND GAME FRED DIVISION

TO: Mark Blakeslee

DATE: April 4, 1996

PHONE: 260-2939

FROM: Ginny Litchfield
CFMD - Limnology
Soldotna

SUBJECT: Kodiak Clean Lake Data

I am finally sending this data packet to you, sorry for the delay. Enclosed you will find hard copies of metal, phytoplankton, and water quality data also, a disc containing electronic data in case you weere not able to get this information from Steve Honnold This information is in spreadsheet form as stipulated in the contract. The phytoplankton data is quite extensive, a table is included indicating the edible species as opposed to non-edible. I couldn't find the memo we wrote on Anchorage clean lakes but did include some notations on that project. Let me know if I can be of further help.

Received 4/10/96

Lake	Date	Depth (m)	Specific conductance (umhos/cm)	pH (Units)	Alkalinity (mg/L)	Turb. (NTU)	Color (Pt units)	Calcium (mg/L)	Mag-nesium (mg/L)	Iron (ug/L)	Total Solids (mg/L)	Total Diss. Solids (mg/L)
Abercrombie	5/5/95	1	204	6.6	20.2	1.6	13	8.6	3.3	185	119	107
Abercrombie	5/5/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abercrombie	5/5/95	5	204	6.8	22.3	1.4	13	8.6	3.3	186	117	108
Abercrombie	6/27/95	1	201	7.2	22.5	0.5	8	7.3	3.2	104	118	105
Abercrombie	6/27/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abercrombie	6/27/95	6	202	6.9	22.9	1.0	8	8.3	3.2	78	112	103
Abercrombie	7/30/95	1	187	6.7	22.2	1.9	14	8.1	3.9	168	116	102
Abercrombie	7/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abercrombie	7/30/95	5	195	6.8	23.7	1.0	18	8.1	3.1	137	118	104
Abercrombie	8/30/95	1	193	7.2	23.0	1.1	13	8.1	3.7	162	118	98
Abercrombie	8/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abercrombie	8/30/95	5	194	7.1	23.5	1.0	12	9.1	4.8	164	115	104
Abercrombie	10/17/95	1	181	7.0	21.5	2.1	31	7.1	3.7	399	98	99
Abercrombie	10/17/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Abercrombie	10/17/95	5	174	7.0	22.3	2.3	29	7.1	3.7	349	98	103
Beaver	5/3/95	1	121	6.7	21.4	6.1	11	9.6	2.0	670	88	75
Beaver	5/3/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beaver	6/23/95	1	121	7.1	22.5	3.6	19	9.2	1.3	642	74	69
Beaver	6/23/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beaver	7/30/95	1	105	6.6	23.0	5.0	14	8.1	2.4	596	73	63
Beaver	7/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beaver	8/29/95	1	121	6.7	29.4	4.0	31	10.0	1.5	956	88	86
Beaver	8/29/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beaver	10/16/95	1	98	7.0	24.1	7.4	12	7.9	2.1	1189	71	72
Beaver	10/16/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lake	Date	Depth (m)	Total P (ug/L P)	Total filter-able-P (ug/L P)	Filterable reactive-P (ug/L P)	Total Kjel-dahl nitrogen (ug/L N)	Ammon. (ug/L N)	Nitrate+ nitrite (ug/L N)	Reactive silicon (ug/L Si)	Organic carbon (ug/L)	Chloro-phyll a (ug/L)	Phaeo-phytin a (ug/L)
Abercrombie	5/5/95	1	8.0	3.1	2.1	182.3	<1.7	<4.0	3900	181	0.29	0.17
Abercrombie	5/5/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.49	0.23
Abercrombie	5/5/95	5	7.8	3.1	2.2	173.5	<1.7	<4.0	3826	166	0.65	0.24
Abercrombie	6/27/95	1	8.0	2.1	1.2	184.7	<1.7	<4.0	3348	389	0.45	0.19
Abercrombie	6/27/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.40	0.18
Abercrombie	6/27/95	6	7.5	2.4	1.6	188.6	<1.7	<4.0	3212	282	0.90	0.41
Abercrombie	7/30/95	1	9.4	2.9	2.1	269.1	4.0	<4.0	2952	249	0.64	0.19
Abercrombie	7/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.60	0.27
Abercrombie	7/30/95	5	11.4	2.5	1.7	242.0	4.0	<4.0	3062	231	0.69	0.28
Abercrombie	8/30/95	1	10.2	3.6	1.9	307.2	<1.7	<4.0	3059	234	1.14	0.33
Abercrombie	8/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.82	0.33
Abercrombie	8/30/95	5	13.8	3.0	1.7	257.9	<1.7	<4.0	3047	252	1.10	0.40
Abercrombie	10/17/95	1	11.9	4.0	3.0	287.8	19.4	21.6	4030	160	0.85	0.24
Abercrombie	10/17/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.66	0.27
Abercrombie	10/17/95	5	7.9	4.3	2.8	275.2	25.3	21.6	4030	187	0.84	0.30
Beaver	5/3/95	1	9.6	3.8	3.2	205.4	24.9	132.5	3327	237	0.54	0.24
Beaver	5/3/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.26	0.23
Beaver	6/23/95	1	8.0	7.9	4.4	177.5	2.2	57.6	2854	333	0.93	0.41
Beaver	6/23/95	2	NA	NA	NA	NA	NA	NA	NA	NA	1.16	0.40
Beaver	7/30/95	1	6.8	2.9	2.7	242.0	6.4	48.5	2929	322	0.64	0.25
Beaver	7/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	2.08	1.28
Beaver	8/29/95	1	15.6	5.9	4.9	276.3	<1.7	29.6	3096	272	1.60	0.84
Beaver	8/29/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.84	0.71
Beaver	10/16/95	1	10.8	3.0	2.7	262.7	32.9	109.0	4093	334	0.75	0.43
Beaver	10/16/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.88	0.36

Lake	Date	Depth (m)	Specific conductance (umhos/cm)	pH (Units)	Alkalinity (mg/L)	Turb. (NTU)	Color (Pt units)	Calcium (mg/L)	Mag-nesium (mg/L)	Iron (ug/L)	Total Solids (mg/L)	Total Diss. Solids (mg/L)
Dark	5/2/95	1	123	6.6	21.5	5.5	13	8.6	2.0	1010	80	74
Dark	5/2/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dark	5/2/95	3	122	6.4	21.3	7.8	11	8.6	2.0	900	83	77
Dark	6/26/95	1	132	7.0	20.1	1.0	10	8.3	1.9	276	77	66
Dark	6/26/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dark	6/26/95	4	125	7.2	21.5	1.2	10	8.3	1.9	314	74	66
Dark	7/28/95	1	111	6.7	29.4	2.1	17	8.1	1.6	362	70	64
Dark	7/28/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dark	7/28/95	4	113	6.4	19.9	2.8	13	8.1	1.6	380	70	56
Dark	8/30/95	1	111	7.0	23.3	1.0	18	9.1	1.5	344	77	62
Dark	8/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dark	8/30/95	4	112	6.7	24.6	2.2	19	9.1	1.5	510	77	72
Dark	10/16/95	1	92	6.8	20.1	3.1	17	6.2	1.4	694	52	63
Dark	10/16/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dark	10/16/95	4	92	6.8	19.3	2.9	20	7.1	1.4	673	56	58
Lower Horseshoe	5/3/95	1	263	7.4	51.2	16.7	22	27.7	3.3	1481	193	152
Lower Horseshoe	6/23/95	1	181	6.8	37.3	85.3	13	8.3	1.9	5814	160	90
Lower Horseshoe	7/28/95	1	200	6.8	55.2	12.0	31	17.6	3.1	2723	141	116
Lower Horseshoe	8/29/95	1	184	6.8	44.4	42.0	116	20.2	2.6	7476	195	174
Lower Horseshoe	10/16/95	1	166	6.9	38.8	86.0	27	13.3	2.9	4817	157	105
Upper Horseshoe	5/3/95	1	165	6.7	37.8	20.7	13	15.3	2.6	3907	115	86
Upper Horseshoe	6/23/95	1	154	6.8	30.4	3.0	15	14.6	1.4	998	92	79
Upper Horseshoe	7/30/95	1	142	6.5	38.3	3.5	24	13.8	1.6	1923	86	80
Upper Horseshoe	8/29/95	1	149	6.8	40.0	4.1	48	15.6	1.5	3357	77	91
Upper Horseshoe	10/16/95	1	138	7.0	37.1	5.3	24	13.3	2.1	3182	105	96

Lake	Date	Depth (m)	Total P (ug/L P)	Total filter-able-P (ug/L P)	Filterable reactive-P (ug/L P)	Total Kjel-dahl nitrogen (ug/L N)	Ammon. (ug/L N)	Nitrate+ nitrite (ug/L N)	Reactive silicon (ug/L Si)	Organic carbon (ug/L)	Chloro-phyll a (ug/L)	Phaeo-phytin a (ug/L)
Dark	5/2/95	1	8.6	8.6	5.9	199.0	39.2	152.0	3364	267	0.65	0.22
Dark	5/2/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.24
Dark	5/2/95	3	11.8	4.5	4.2	213.3	48.8	154.9	3364	199	0.42	0.22
Dark	6/26/95	1	6.9	2.4	2.6	192.7	4.5	80.9	3027	NA	NA	NA
Dark	6/26/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.64	0.19
Dark	6/26/95	4	8.1	2.2	2.7	180.7	8.2	79.4	2854	169	0.71	0.35
Dark	7/28/95	1	9.7	4.2	3.0	211.8	<1.7	45.3	3063	169	0.46	0.32
Dark	7/28/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.34	0.38
Dark	7/28/95	4	8.3	2.4	2.2	202.2	9.9	51.2	2617	184	0.58	0.47
Dark	8/30/95	1	5.8	3.0	2.8	200.6	4.5	26.1	2926	142	0.68	0.30
Dark	8/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.43	0.31
Dark	8/30/95	4	8.6	3.3	2.9	235.6	15.2	27.5	2792	169	0.42	0.38
Dark	10/16/95	1	8.6	3.3	2.7	236.8	15.2	117.9	4292	175	1.02	0.47
Dark	10/16/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.54	0.36
Dark	10/16/95	4	7.9	3.0	4.0	231.3	12.0	123.8	4317	212	0.92	0.51
L. Horseshoe	5/3/95	1	26.1	3.9	2.5	349.6	23.3	134.8	2368	814	1.90	0.75
L. Horseshoe	6/23/95	1	84.9	3.8	3.2	416.7	18.2	148.4	2046	1556	1.43	0.66
L. Horseshoe	7/28/95	1	22.5	6.4	4.0	520.3	103.5	80.3	2210	642	0.59	1.11
L. Horseshoe	8/29/95	1	67.4	15.9	10.7	535.3	10.5	41.8	1869	1799	0.64	0.87
L. Horseshoe	10/16/95	1	71.9	6.0	4.8	551.6	146.4	161.2	3074	1646	0.81	0.76
U. Horseshoe	5/3/95	1	18.3	3.7	3.1	400.0	5.3	51.5	2108	1286	3.09	1.33
U. Horseshoe	6/23/95	1	14.0	4.0	1.8	349.5	5.3	<4.0	203	556	2.03	1.18
U. Horseshoe	7/30/95	1	13.5	6.0	3.1	432.3	26.9	4.6	663	584	1.06	0.97
U. Horseshoe	8/29/95	1	17.4	6.4	5.7	526.5	10.4	<4.0	741	985	1.57	1.24
U. Horseshoe	10/16/95	1	15.7	4.5	3.8	498.4	132.8	45.5	2726	942	1.40	0.80

Lake	Date	Depth (m)	Specific conductance (umhos/cm)	pH (Units)	Alkalinity (mg/L)	Turb. (NTU)	Color (Pt units)	Calcium (mg/L)	Mag-nesium (mg/L)	Iron (ug/L)	Total Solids (mg/L)	Total Diss. Solids (mg/L)
Island	5/1/95	1	130	7.0	22.7	5.5	12	11.5	3.4	756	88	83
Island	5/1/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Island	5/1/95	7	133	6.6	28.0	7.0	14	10.6	2.0	659	93	90
Island	6/26/95	1	122	6.8	20.2	1.5	8	10.1	1.9	244	91	75
Island	6/26/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Island	6/26/95	7	152	6.7	25.6	4.8	8	11.1	1.9	401	94	83
Island	6/28/95	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Island	6/28/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Island	7/28/95	1	135	7.0	26.3	2.2	9	11.0	1.9	347	88	76
Island	7/28/95	7	155	6.6	27.3	5.0	6	11.9	2.9	322	98	89
Island	8/30/95	1	137	7.2	27.8	1.3	8	11.8	1.5	172	55	82
Island	8/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Island	8/30/95	7	153	6.6	28.5	2.1	4	11.8	2.6	138	68	83
Island	10/16/95	1	117	6.9	24.7	3.7	22	8.8	1.4	573	68	74
Island	10/16/95	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Island	10/16/95	6	113	6.9	24.2	3.9	20	8.8	<0.3	618	65	77
Lilly	5/5/95	1	270	6.8	25.6	5.2	12	11.5	2.0	527	142	130
Lilly	6/26/95	1	199	7.0	26.0	1.9	6	10.1	1.9	183	108	96
Lilly	8/1/95	1	167	6.9	31.5	3.4	13	10.0	1.6	306	95	87
Lilly	8/30/95	1	164	7.0	31.5	3.1	13	10.9	1.5	306	93	94
Lilly	10/17/95	1	131	7.2	27.3	5.3	14	8.8	2.9	946	76	71
Mission	5/4/95	1	2330	7.5	33.2	6	NA	26.7	37.9	575	1278	NA
Mission	6/23/95	1	1022	9.0	47.3	9.0	12	19.5	15.4	691	542	530
Mission Aberrant	6/26/95	1-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mission	6/26/95	2-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mission	8/1/95	1	537	9.1	49.5	8.2	17	16.7	10.7	570	302	288
Mission	8/29/95	1	679	8.6	50.5	3.7	23	18.3	14.7	306	368	351
Mission	10/17/95	1	2460	7.5	43.0	13.9	20	28.4	54.8	1515	1364	1321
Potato Patch	5/4/95	1	980	7.5	36.6	12.4	11	21.0	15.9	861	530	491
Potato Patch	6/26/95	1	823	7.1	42.4	17.8	10	18.6	12.2	1480	443	397
Potato Patch	8/1/95	1	379	8.4	43.0	11.9	12	14.7	7.7	858	201	182
Potato Patch	8/29/95	1	263	7.2	39.7	22.0	31	14.6	4.8	1564	167	153
Potato Patch	10/17/95	1	205	7.0	36.3	12.4	17	13.3	2.1	1086	98	110

Lake	Date	Depth (m)	Total P (ug/L P)	Total filter-able-P (ug/L P)	Filterable reactive-P (ug/L P)	Total Kjel-dahl nitrogen (ug/L N)	Ammon. (ug/L N)	Nitrate+ nitrite (ug/L N)	Reactive silicon (ug/L Si)	Organic carbon (ug/L)	Chloro-phyll a (ug/L)	Phaeo-phytin a (ug/L)
Island	5/1/95	1	10.0	4.5	3.3	201.4	<1.7	143.1	3090	497	1.85	0.63
Island	5/1/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.94	0.41
Island	5/1/95	7	10.3	5.5	4.0	169.5	7.6	151.4	3264	337	1.31	0.85
Island	6/26/95	1	7.9	1.9	1.8	167.9	<1.7	69.7	2866	151	0.61	0.21
Island	6/26/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.62	0.25
Island	6/26/95	7	15.8	2.9	2.3	222.9	15.6	118.8	3274	202	0.77	0.51
Island	7/28/95	1	5.4	2.6	1.8	192.6	2.1	28.1	2752	121	0.62	0.27
Island	7/28/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.61	0.34
Island	7/28/95	7	16.0	3.9	2.5	269.9	45.0	105.2	2929	193	0.73	0.47
Island	8/30/95	1	5.6	2.5	1.6	186.3	<1.7	12.2	2792	127	1.07	0.48
Island	8/30/95	2	NA	NA	NA	NA	NA	NA	NA	NA	1.11	0.44
Island	8/30/95	7	7.5	3.0	2.1	163.2	11.6	149.9	3204	202	0.86	0.66
Island	10/16/95	1	14.6	3.7	2.5	243.1	21.0	109.0	3956	127	0.62	0.30
Island	10/16/95	2	NA	NA	NA	NA	NA	NA	NA	NA	0.47	0.28
Island	10/16/95	6	11.9	4.2	3.0	248.6	20.2	107.5	3932	148	0.56	0.37
Lilly	5/5/95	1	8.1	4.6	2.1	275.5	36.5	143.1	1622	297	0.95	0.55
Lilly	6/26/95	1	11.4	3.0	1.4	278.6	<1.7	<4.0	1248	368	3.35	0.73
Lilly	8/1/95	1	8.8	3.1	2.6	291.4	<1.7	<4.0	1164	368	1.76	0.70
Lilly	8/30/95	1	10.5	4.2	2.0	332.3	6.6	<4.0	996	276	1.84	1.03
Lilly	10/17/95	1	16.8	4.4	2.1	387.9	53.6	129.8	1854	302	1.90	0.71
Mission	5/4/95	1	29.5	NA	NA	412.1	NA	NA	2340	648	1.64	1.07
Mission	6/23/95	1	32.0	7.6	1.3	432.3	<1.7	12.7	1130	NA	NA	NA
Mission	6/26/95	1-2	NA	NA	NA	NA	NA	NA	NA	300	1.67	0.54
Mission	6/26/95	2-2	NA	NA	NA	NA	NA	NA	NA	231	0.72	0.18
Mission	8/1/95	1	32.8	7.5	3.2	426.5	<1.7	<4.0	3008	689	4.23	1.25
Mission	8/29/95	1	42.4	10.9	4.3	517.5	<1.7	<4.0	2245	698	10.56	1.83
Mission	10/17/95	1	28.0	5.7	2.5	396.6	14.1	14.2	3472	600	4.54	1.73
Potato Patch	5/4/95	1	27.0	4.0	1.3	391.9	20.5	117.9	1400	612	2.29	1.04
Potato Patch	6/26/95	1	43.2	6.2	2.0	497.1	47.2	32.0	1210	471	1.74	0.58
Potato Patch	8/1/95	1	54.7	6.3	2.6	588.2	<1.7	9.1	1899	1094	10.83	4.66
Potato Patch	8/29/95	1	57.1	15.0	6.0	614.5	50.0	38.6	1244	531	4.78	1.88
Potato Patch	10/17/95	1	31.0	5.4	2.1	343.3	3.8	143.9	1773	589	3.98	1.23

Lake	Date	Sta	Depth (m)	Specific conductance (umhos/cm)	pH (Units)	Alkalinity (mg/L)	urbidit (NTU)	Color (Pt units)	Calcium (mg/L)	Magnesium (mg/L)	Iron (ug/L)	Total-P (ug/L P)	Total filter-able-P (ug/L P)	Filterable reactive-P (ug/L P)	Total Kjel-dahl nitrogen (ug/L N)	Ammonia (ug/L N)	Nitrate+ nitrite (ug/L N)	Reactive silicon (ug/L Si)	Organic carbon (ug/L)	Chloro-phyll a (ug/L)	Phaeo-phytin a (ug/L)
Horseshoe U	07/29/96	1	1	158	6.8	36.4	4.3	57	14.8	2.4	790	7.6	8.3	9.2	516.2	1.0	2.9	874	787	3.89	1.18
Horseshoe L	07/29/96	1	1	252	7.0	55.5	30.6	54	21.3	3.1	1246	23.6	14.1	11.4	698.5	135.2	59.3	2075	1136	1.80	2.68
Beaver	07/29/96	1	1	128	6.7	29.4	6.0	29	10.1	1.8	739	14.4	8.8	7.1	305.2	12.8	50.8	2944	588	2.30	0.87
Beaver	07/29/96	1	2																	2.31	0.89
Dark	07/29/96	1	1	131	7.0	24.0	2.5	15	10.1	1.8	232	11.8	3.2	1.9	271.4	8.6	18.2	2006	242	0.63	0.33
Dark	07/29/96	1	2																	0.49	0.33
Dark	07/29/96	1	4	128	6.8	24.7	22.3	18	9.1	1.8	3154	45.8	4.0	2.4	379.1	19.1	35.1	2075	437	1.26	0.92
Island	07/30/96	1	1	151	7.2	29.1	1.3	9	11.0	1.8	84	5.4	3.4	1.9	167.2	2.0	7.2	1895	204	1.01	0.30
Island	07/30/96	1	2																	0.46	0.42
Island	07/30/96	1	7	152	6.7	29.2	2.9	9	12.0	1.8	153	14.1	2.3	1.4	245.7	48.8	76.7	3175	201	2.06	1.22
Lilly	07/30/96	1	1	244	7.1	32.7	1.3	17	12.0	1.8	96	9.8	6.8	3.7	301.3	1.7	3.9	664	350	2.72	1.02
Potato Patch	07/30/96	1	1	240	9.4	45.5	9.5	24	13.8	3.1	1116	31.4	7.2	3.1	467.0	1.7	22.4	2156	743	2.76	0.73
Mission	07/30/96	1	1	4430	9.7	50.0	2.1	15	50.4	79.2	85	16.5	4.7	1.9	317.8	1.7	1.2	1332	404	2.26	0.51
Abercrombie	07/30/96	1	1	194	7.2	26.1	1.9	10	8.2	3.1	44	8.2	2.5	1.4	213.5	2.8	2.4	2420	235	1.87	0.04
Abercrombie	07/30/96	1	2																	1.59	0.74
Abercrombie	07/30/96	1	5	193	7.2	25.9	2.2	11	9.1	3.1	434	11.7	11.2	8.5	239.9	1.4	1.0	2490	217	2.07	0.48

Water Quality Summary

Lake	Date	Sta	Depth (m)	Specific conductance (umhos/cm)	pH (Units)	Alkalinity (mg/L)	Turbidity (NTU)	Color (Pt units)	Calcium (mg/L)	Magnesium (mg/L)	Iron (ug/L)	Total-P (ug/L P)	Total filterable-P (ug/L P)	Filterable reactive-P (ug/L P)	Total Kjeldahl nitrogen (ug/L N)	Ammonia (ug/L N)	Nitrate+nitrite (ug/L N)	Reactive silicon (ug/L Si)	Organic carbon (ug/L)	Chlorophyll a (ug/L)	Pheophytin a (ug/L)
Lower Horseshoe	5/3/95	1	1	263	7.4	51.2	16.7	22	27.7	3.3	1481	26.1	3.9	2.5	349.6	23.3	134.8	2368	814	1.90	0.75
Lower Horseshoe	6/23/95	1	1	181	6.8	37.3	85.3	13	8.3	1.9	5814	84.9	3.8	3.2	416.7	18.2	148.4	2046	1556	1.43	0.66
Lower Horseshoe	7/28/95	1	1	200	6.8	55.2	12.0	31	17.6	3.1	2723	22.5	6.4	4.0	520.3	103.5	80.3	2210	642	0.59	1.11
Lower Horseshoe	8/29/95	1	1	184	6.8	44.4	42.0	116	20.2	2.6	7476	67.4	15.9	10.7	535.3	10.5	41.8	1869	1799	0.64	0.87
Lower Horseshoe	10/16/95	1	1	166	6.9	38.8	86.0	27	13.3	2.9	4817	71.9	6.0	4.8	551.6	146.4	161.2	3074	1646	0.81	0.76
Upper Horseshoe	5/3/95	1	1	165	6.7	37.8	20.7	13	15.3	2.6	3907	18.3	3.7	3.1	400.0	5.3	51.5	2108	1286	3.09	1.33
Upper Horseshoe	6/23/95	1	1	154	6.8	30.4	3.0	15	14.6	1.4	998	14.0	4.0	1.8	349.5	5.3	<4.0	203	556	2.03	1.18
Upper Horseshoe	7/30/95	1	1	142	6.5	36.3	3.5	24	13.8	1.6	1923	13.5	6.0	3.1	432.3	26.9	4.6	663	584	1.06	0.97
Upper Horseshoe	8/29/95	1	1	149	6.8	40.0	4.1	48	15.6	1.5	3357	17.4	6.4	5.7	526.5	10.4	<4.0	741	985	1.57	1.24
Upper Horseshoe	10/16/95	1	1	138	7.0	37.1	5.3	24	13.3	2.1	3182	15.7	4.5	3.8	498.4	132.8	45.5	2726	942	1.40	0.80
Beaver	5/3/95	1	1	121	6.7	21.4	6.1	11	9.6	2.0	670	9.6	3.8	3.2	205.4	24.9	132.5	3327	237	0.54	0.24
Beaver	5/3/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26	0.23
Beaver	6/23/95	1	1	121	7.1	22.5	3.6	19	9.2	1.3	642	8.0	7.9	4.4	177.5	2.2	57.6	2854	333	0.93	0.41
Beaver	6/23/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.16	0.40
Beaver	7/30/95	1	1	105	6.6	23.0	5.0	14	8.1	2.4	596	6.8	2.9	2.7	242.0	6.4	48.5	2929	322	0.64	0.25
Beaver	7/30/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.08	1.28
Beaver	8/29/95	1	1	121	6.7	29.4	4.0	31	10.0	1.5	956	15.6	5.9	4.9	276.3	<1.7	29.6	3096	272	1.60	0.84
Beaver	8/29/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84	0.71
Beaver	10/16/95	1	1	98	7.0	24.1	7.4	12	7.9	2.1	1189	10.8	3.0	2.7	262.7	32.9	109.0	4093	334	0.75	0.43
Beaver	10/16/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.88	0.36
Island	5/1/95	1	1	130	7.0	22.7	5.5	12	11.5	3.4	756	10.0	4.5	3.3	201.4	<1.7	143.1	3090	497	1.85	0.63
Island	5/1/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.94	0.41
Island	5/1/95	1	7	133	6.6	28.0	7.0	14	10.6	2.0	659	10.3	5.5	4.0	169.5	7.6	151.4	3264	337	1.31	0.85
Island	6/26/95	1	1	122	6.8	20.2	1.5	8	10.1	1.9	244	7.9	1.9	1.8	167.9	<1.7	69.7	2866	151	0.61	0.21
Island	6/26/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.62	0.25
Island	6/26/95	1	7	152	6.7	25.6	4.8	8	11.1	1.9	401	15.8	2.9	2.3	222.9	15.6	118.8	3274	202	0.77	0.51
Island	6/28/95	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	121	0.62	0.27
Island	6/28/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.61	0.34
Island	7/28/95	1	1	135	7.0	26.3	2.2	9	11.0	1.9	347	5.4	2.6	1.8	192.6	2.1	28.1	2752	NA	NA	NA
Island	7/28/95	1	7	155	6.6	27.3	5.0	6	11.9	2.9	322	16.0	3.9	2.5	269.9	45.0	105.2	2929	193	0.73	0.47
Island	8/30/95	1	1	137	7.2	27.8	1.3	8	11.8	1.5	172	5.6	2.5	1.6	186.3	<1.7	12.2	2792	127	1.07	0.48
Island	8/30/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.11	0.44
Island	8/30/95	1	7	153	6.6	28.5	2.1	4	11.8	2.6	138	7.5	3.0	2.1	163.2	11.6	149.9	3204	202	0.86	0.66
Island	10/16/95	1	1	117	6.9	24.7	3.7	22	8.8	1.4	573	14.6	3.7	2.5	243.1	21.0	109.0	3956	127	0.62	0.30
Island	10/16/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.47	0.28
Island	10/16/95	1	6	113	6.9	24.2	3.9	20	8.8	<0.3	618	11.9	4.2	3.0	248.6	20.2	107.5	3932	148	0.56	0.37
Lilly	5/5/95	1	1	270	6.8	25.6	5.2	12	11.5	2.0	527	8.1	4.6	2.1	275.5	36.5	143.1	1622	297	0.95	0.55
Lilly	6/26/95	1	1	199	7.0	26.0	1.9	6	10.1	1.9	183	11.4	3.0	1.4	278.6	<1.7	<4.0	1248	368	3.35	0.73
Lilly	8/1/95	1	1	167	6.9	31.5	3.4	13	10.0	1.6	306	8.8	3.1	2.6	291.4	<1.7	<4.0	1164	368	1.76	0.70
Lilly	8/30/95	1	1	164	7.0	31.5	3.1	13	10.9	1.5	306	10.5	4.2	2.0	332.3	6.6	<4.0	996	276	1.84	1.03
Lilly	10/17/95	1	1	131	7.2	27.3	5.3	14	8.8	2.9	946	16.8	4.4	2.1	387.9	53.6	129.8	1854	302	1.90	0.71
Abercrombie	5/5/95	1	1	204	6.6	20.2	1.6	13	8.6	3.3	185	8.0	3.1	2.1	182.3	<1.7	<4.0	3900	181	0.29	0.17
Abercrombie	5/5/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.49	0.23
Abercrombie	5/5/95	1	5	204	6.8	22.3	1.4	13	8.6	3.3	186	7.8	3.1	2.2	173.5	<1.7	<4.0	3826	166	0.65	0.24
Abercrombie	6/27/95	1	1	201	7.2	22.5	0.5	8	7.3	3.2	104	8.0	2.1	1.2	184.7	<1.7	<4.0	3348	369	0.45	0.19
Abercrombie	6/27/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.40	0.18
Abercrombie	6/27/95	1	6	202	6.9	22.9	1.0	8	8.3	3.2	78	7.5	2.4	1.6	188.6	<1.7	<4.0	3212	282	0.90	0.41
Abercrombie	7/30/95	1	1	187	6.7	22.2	1.9	14	8.1	3.9	168	9.4	2.9	2.1	269.1	4.0	<4.0	2952	249	0.64	0.19
Abercrombie	7/30/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.60	0.27
Abercrombie	7/30/95	1	5	195	6.8	23.7	1.0	18	8.1	3.1	137	11.4	2.5	1.7	242.0	4.0	<4.0	3062	231	0.69	0.28
Abercrombie	8/30/95	1	1	193	7.2	23.0	1.1	13	8.1	3.7	162	10.2	3.6	1.9	307.2	<1.7	<4.0	3059	234	1.14	0.33
Abercrombie	8/30/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.82	0.33
Abercrombie	8/30/95	1	5	194	7.1	23.5	1.0	12	9.1	4.8	164	13.8	3.0	1.7	257.9	<1.7	<4.0	3047	252	1.10	0.40
Abercrombie	10/17/95	1	1	181	7.0	21.5	2.1	31	7.1	3.7	399	11.9	4.0	3.0	287.8	19.4	21.6	4030	160	0.85	0.24
Abercrombie	10/17/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.66	0.27
Abercrombie	10/17/95	1	5	174	7.0	22.3	2.3	29	7.1	3.7	349	7.9	4.3	2.8	275.2	25.3	21.6	4030	187	0.84	0.30
Mission	5/4/95	1	1	2330	7.5	33.2	6.0	NA	26.7	37.9	575	29.5	NA	NA	412.1	NA	NA	2340	648	1.64	1.07
Mission	6/23/95	1	1	1022	9.0	47.3	9.0	12	19.5	15.4	691	32.0	7.6	1.3	432.3	<1.7	12.7	1130	NA	NA	NA
Mission	6/26/95	1	1-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	1.67	0.54
Mission	6/26/95	1	2-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	231	0.72	0.18
Mission	8/1/95	1	1	537	9.1	49.5	8.2	17	16.7	10.7	570	32.8	7.5	3.2	426.5	<1.7	<4.0	3008	689	4.23	1.25
Mission	8/29/95	1	1	679	8.6	50.5	3.7	23	18.3	14.7	306	42.4	10.9	4.3	517.5	<1.7	<4.0	2245	698	10.56	1.83
Mission	10/17/95	1	1	2460	7.5	43.0	13.9	20	28.4	54.8	1515	28.0	5.7	2.5	396.6	14.1	14.2	3472	600	4.54	1.73
Potato Patch	5/4/95	1	1	980	7.5	36.6	12.4	11	21.0	15.9	861	27.0	4.0	1.3	391.9	20.5	117.9	1400	612	2.29	1.04
Potato Patch	6/26/95	1	1	823	7.1	42.4	17.8	10	18.6	12.2	1480	43.2	6.2	2.0	497.1	47.2	32.0	1210	471	1.74	0.58
Potato Patch	8/1/95	1	1	379	8.4	43.0	11.9	12	14.7	7.7	858	54.7	6.3	2.6	588.2	<1.7	9.1	1899	1094	10.83	4.66
Potato Patch	8/29/95	1	1	263	7.2	39.7	22.0	31	14.6	4.8	1564	57.1	15.0	6.0	614.5	50.0	38.6	1244	531	4.78	1.88
Potato Patch	10/17/95	1	1	205	7.0	36.3	12.4	17	13.3	2.1	1086	31.0	5.4	2.1	343.3	3.8	143.9	1773	589	3.98	1.23
Dark	5/2/95	1	1	123	6.6	21.5	5.5	13	8.6	2.0	1010	6.6	8.6	5.9	199.0	39.2	152.0	3364	267	0.65	0.22
Dark	5/2/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.50	0.24
Dark	5/2/95	1	3	122	6.4	21.3	7.8	11	8.6	2.0	900	11.8	4.5	4.2	213.3	48.8	154.9	3364	199	0.42	0.22
Dark	6/26/95	1	1	132	7.0	20.1	1.0	10	8.3	1.9	276	6.9	2.4	2.6	192.7	4.5	80.9	3027	NA	NA	NA
Dark	6/26/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lake	Date	Sta	Depth (m)	Specific conductance (umhos/cm)	pH (Units)	Alkalinity (mg/L)	Turbidity (NTU)	Color (Pt units)	Calcium (mg/L)	Magnesium (mg/L)	Iron (ug/L)	Total P (ug/L P)	Total filterable P (ug/L P)	Filterable reactive P (ug/L P)	Total Kjeldahl nitrogen (ug/L N)	Ammonia (ug/L N)	Nitrate+nitrite (ug/L N)	Reactive silicon (ug/L Si)	Organic carbon (mg/L)	Chlorophyll a (ug/L)	Pheophytin a (ug/L)
Dark	6/26/95	1	4	125	7.2	21.5	1.2	10	8.3	1.9	314	8.1	2.2	2.7	180.7	8.2	79.4	2854	169	0.71	0.35
Dark	7/28/95	1	1	111	6.7	29.4	2.1	17	8.1	1.6	362	9.7	4.2	3.0	211.8	<1.7	45.3	3063	169	0.46	0.32
Dark	7/28/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34	0.38
Dark	7/28/95	1	4	113	6.4	19.9	2.8	13	8.1	1.6	380	8.3	2.4	2.2	202.2	9.9	51.2	2617	184	0.58	0.47
Dark	8/30/95	1	1	111	7.0	23.3	1.0	16	9.1	1.5	344	5.8	3.0	2.8	200.6	4.5	26.1	2926	142	0.68	0.30
Dark	8/30/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.43	0.31
Dark	8/30/95	1	4	112	6.7	24.6	2.2	19	9.1	1.5	510	8.6	3.3	2.9	235.6	15.2	27.5	2792	169	0.42	0.38
Dark	10/16/95	1	1	92	6.8	20.1	3.1	17	6.2	1.4	694	8.6	3.3	2.7	236.8	15.2	117.9	4292	175	1.02	0.47
Dark	10/16/95	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.54	0.38
Dark	10/16/95	1	4	92	6.8	19.3	2.9	20	7.1	1.4	673	7.9	3.0	4.0	231.3	12.0	123.8	4317	212	0.92	0.51

Appendix E:
ADF&G Limnology Lab
metals analyses

ate July 1995

	Abercrombie Station1 Depth 1m	Beaver Station1 Depth 1m	Dark Station1 Depth 1m
Lithium	<1	25	27
Beryllium	<0.1	<0.1	<0.1
Boron	14	4	8
Sodium	22000	11000	12000
Magnesium	3100	2500	2800
Aluminium	24	98	85
Silicon	2970	3070	3270
Phosphorus	<50	<50	60
Potassium	1300	1200	1500
Calcium	7200	13000	13000
Scandium	<0.2	1.1	1.4
Titanium	1.4	2.9	4.4
Vanadium	0.3	0.4	0.5
Chromium	<0.2	0.7	0.5
Manganese	24.0	280	210
Iron	150	1000	690
Cobalt	<0.07	0.99	0.56
Nickel	<0.5	3.4	2.9
Copper	<0.5	1.5	1.6
Zinc	<1	14	4
Gallium	<0.1	0.1	<0.1
Germanium	<0.1	<0.1	0.2
Arsenic	<1	<1	1
Bromine	63	79	88
Selenium	<1	6	6
Rubidium	0.6	0.7	0.8
Strontium	55.0	81.0	83.0
Yttrium	<0.05	0.11	0.11
Zirconium	<0.1	<0.1	<0.1
Niobium	<0.1	<0.1	<0.1
Molybdenum	<0.1	0.1	<0.1
Ruthenium	<0.1	<0.1	<0.1
Rhodium	<0.05	<0.05	<0.05
Silver	<0.05	<0.05	<0.05
Palladium	<0.05	<0.05	<0.05
Cadmium	<0.1	0.1	0.1
Tin	0.1	<0.1	<0.1
Antimony	<0.2	<0.2	<0.2
Tellurium	<0.2	0.3	<0.2
Iodine	16.0	42.0	40.0
Caesium	<0.05	0.09	0.11
Barium	6.40	13.0	13.0
Lanthanum	<0.05	<0.05	0.05
Cerium	<0.05	0.08	0.09
Praseodymium	<0.05	<0.05	<0.05
Neodymium	<0.1	<0.1	<0.1
Samarium	<0.05	<0.05	<0.05
Europium	<0.05	<0.05	<0.05
Gadolinium	<0.05	<0.05	<0.05
Terbium	<0.05	<0.05	<0.05

Results are in micrograms per litre (ppb)

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	Abercrombie Station1 Depth 1m	Beaver Station1 Depth 1m	Dark Station1 Depth 1m
Dysprosium	<0.05	0.05	<0.05
Holmium	<0.05	<0.05	<0.05
Erbium	<0.05	<0.05	<0.05
Thulium	<0.05	<0.05	<0.05
Ytterbium	<0.05	<0.05	<0.05
Lutetium	<0.05	<0.05	<0.05
Hafnium	<0.05	<0.05	<0.05
Tantalum	<0.05	<0.05	<0.05
Tungsten	<0.05	<0.05	<0.05
Rhenium	<0.05	<0.05	<0.05
Osmium	<0.05	<0.05	<0.05
Iridium	<0.05	<0.05	<0.05
Platinum	<0.05	<0.05	<0.05
Gold	<0.05	<0.05	<0.05
Mercury	<0.1	<0.1	0.3
Thallium	<0.05	<0.05	<0.05
Lead	0.35	0.98	0.33
Bismuth	<0.05	<0.05	<0.05
Thorium	<0.04	<0.04	<0.04
Uranium	<0.02	<0.02	<0.02

Results are in micrograms per litre (ppb)

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	UpperHorseshoeStation1Depth0.5	LowerHorseshoeStation1Depth0.5	Island Station 1 Depth 1m
Lithium	9	37	33
Beryllium	<0.1	<0.1	<0.1
Boron	2	15	1
Sodium	12000	16000	15000
Magnesium	2500	5600	4100
Aluminium	51	400	79
Silicon	640	2720	2700
Phosphorus	<50	110	70
Potassium	850	3200	2500
Calcium	16000	38000	21000
Scandium	0.6	1.9	1.9
Titanium	2.6	8.6	3.9
Vanadium	0.5	1.3	0.8
Chromium	0.4	1.8	0.7
Manganese	140	730	300
Iron	2200	6200	620
Cobalt	0.90	3.00	0.62
Nickel	1.7	7.0	3.8
Copper	0.5	6.0	2.7
Zinc	<1	37	7
Gallium	<0.1	0.2	<0.1
Germanium	<0.1	0.4	0.3
Arsenic	1	3	<1
Bromine	120	290	130
Selenium	<1	11	15
Rubidium	0.6	1.8	1.3
Strontium	92.0	210	130
Yttrium	0.08	0.33	0.13
Zirconium	<0.1	0.1	<0.1
Niobium	<0.1	<0.1	<0.1
Molybdenum	<0.1	0.4	0.2
Ruthenium	<0.1	<0.1	<0.1
Rhodium	<0.05	<0.05	<0.05
Silver	<0.05	0.06	<0.05
Palladium	<0.05	0.05	<0.05
Cadmium	<0.1	0.1	<0.1
Tin	<0.1	0.2	<0.1
Antimony	<0.2	<0.2	<0.2
Tellurium	<0.2	0.2	<0.2
Iodine	70.0	220	80.0
Caesium	0.07	0.23	0.18
Barium	13.0	37.0	16.0
Lanthanum	<0.05	0.11	0.05
Cerium	0.11	0.28	0.08
Praseodymium	<0.05	0.05	<0.05
Neodymium	<0.1	<0.1	<0.1
Samarium	<0.05	0.07	<0.05
Europium	<0.05	<0.05	<0.05
Gadolinium	<0.05	<0.05	<0.05
Terbium	<0.05	<0.05	<0.05

Results are in micrograms per litre (ppb)

	UpperHorseshoeStation1Depth0.5	LowerHorseshoeStation1Depth0.5	Island	Station 1 Depth 1m
Dysprosium	<0.05	0.05		<0.05
Holmium	<0.05	<0.05		<0.05
Erbium	<0.05	0.05		0.05
Thulium	<0.05	<0.05		<0.05
Ytterbium	<0.05	0.05		<0.05
Lutetium	<0.05	<0.05		<0.05
Hafnium	<0.05	<0.05		<0.05
Tantalum	<0.05	<0.05		<0.05
Tungsten	<0.05	<0.05		<0.05
Rhenium	<0.05	<0.05		<0.05
Osmium	<0.05	<0.05		<0.05
Iridium	<0.05	<0.05		<0.05
Platinum	<0.05	<0.05		<0.05
Gold	<0.05	<0.05		<0.05
Mercury	<0.1	0.3		0.4
Thallium	<0.05	<0.05		<0.05
Lead	0.44	1.80		0.42
Bismuth	<0.05	<0.05		<0.05
Thorium	<0.04	<0.04		<0.04
Uranium	<0.02	0.02		<0.02

Results are in micrograms per litre (ppb)

	Lilly Station 1 Depth 1m	Mission Station 1 Depth 1m	PotatoPatch Station 1 Depth 1m
Lithium	44	<1	<1
Beryllium	<0.1	<0.1	<0.1
Boron	9	41	50
Sodium	22000	78000	50000
Magnesium	4300	9600	6200
Aluminium	53	140	200
Silicon	1300	3030	2240
Phosphorus	120	<50	70
Potassium	3100	4800	3500
Calcium	24000	17000	16000
Scandium	2.1	0.3	0.4
Titanium	4.2	3.0	2.5
Vanadium	<0.2	<0.2	0.5
Chromium	1.0	0.6	0.6
Manganese	700	130	260
Iron	710	580	960
Cobalt	0.60	0.52	0.88
Nickel	5.2	1.1	2.8
Copper	4.8	<0.5	1.0
Zinc	13	5	20
Gallium	0.1	<0.1	<0.1
Germanium	0.2	<0.1	<0.1
Arsenic	<1	2	1
Bromine	260	320	240
Selenium	15	<1	1
Rubidium	1.7	1.5	1.3
Strontium	140	120	110
Yttrium	0.06	0.06	0.05
Zirconium	<0.1	<0.1	<0.1
Niobium	<0.1	<0.1	<0.1
Molybdenum	0.1	0.2	0.2
Ruthenium	<0.1	<0.1	<0.1
Rhodium	<0.05	<0.05	<0.05
Silver	0.11	<0.05	<0.05
Palladium	0.06	<0.05	<0.05
Cadmium	0.2	<0.1	<0.1
Tin	0.1	0.2	0.1
Antimony	<0.2	<0.2	<0.2
Tellurium	0.4	<0.2	<0.2
Iodine	240	110	98.0
Caesium	0.24	0.13	0.17
Barium	9.10	5.40	9.30
Lanthanum	<0.05	<0.05	0.10
Cerium	<0.05	0.09	0.07
Praseodymium	<0.05	<0.05	<0.05
Neodymium	0.1	<0.1	<0.1
Samarium	<0.05	<0.05	<0.05
Europium	<0.05	<0.05	<0.05
Gadolinium	0.05	<0.05	<0.05
Terbium	<0.05	<0.05	<0.05

Results are in micrograms per litre (ppb)

	Lilly	Station 1 Depth 1m	Mission	Station 1 Depth 1m	PotatoPatch	Station 1 Depth 1m
Dysprosium		<0.05		<0.05		<0.05
Holmium		<0.05		<0.05		<0.05
Erbium		<0.05		<0.05		<0.05
Thulium		<0.05		<0.05		<0.05
Ytterbium		0.07		<0.05		<0.05
Lutetium		<0.05		<0.05		<0.05
Hafnium		<0.05		<0.05		<0.05
Tantalum		<0.05		<0.05		<0.05
Tungsten		<0.05		<0.05		<0.05
Rhenium		<0.05		<0.05		<0.05
Osmium		<0.05		<0.05		<0.05
Iridium		<0.05		<0.05		<0.05
Platinum		<0.05		<0.05		<0.05
Gold		<0.05		<0.05		<0.05
Mercury		0.2		<0.1		<0.1
Thallium		<0.05		<0.05		<0.05
Lead		1.10		0.57		1.10
Bismuth		<0.05		<0.05		<0.05
Thorium		<0.04		<0.04		<0.04
Uranium		<0.02		0.03		0.03

Results are in micrograms per litre (ppb)

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