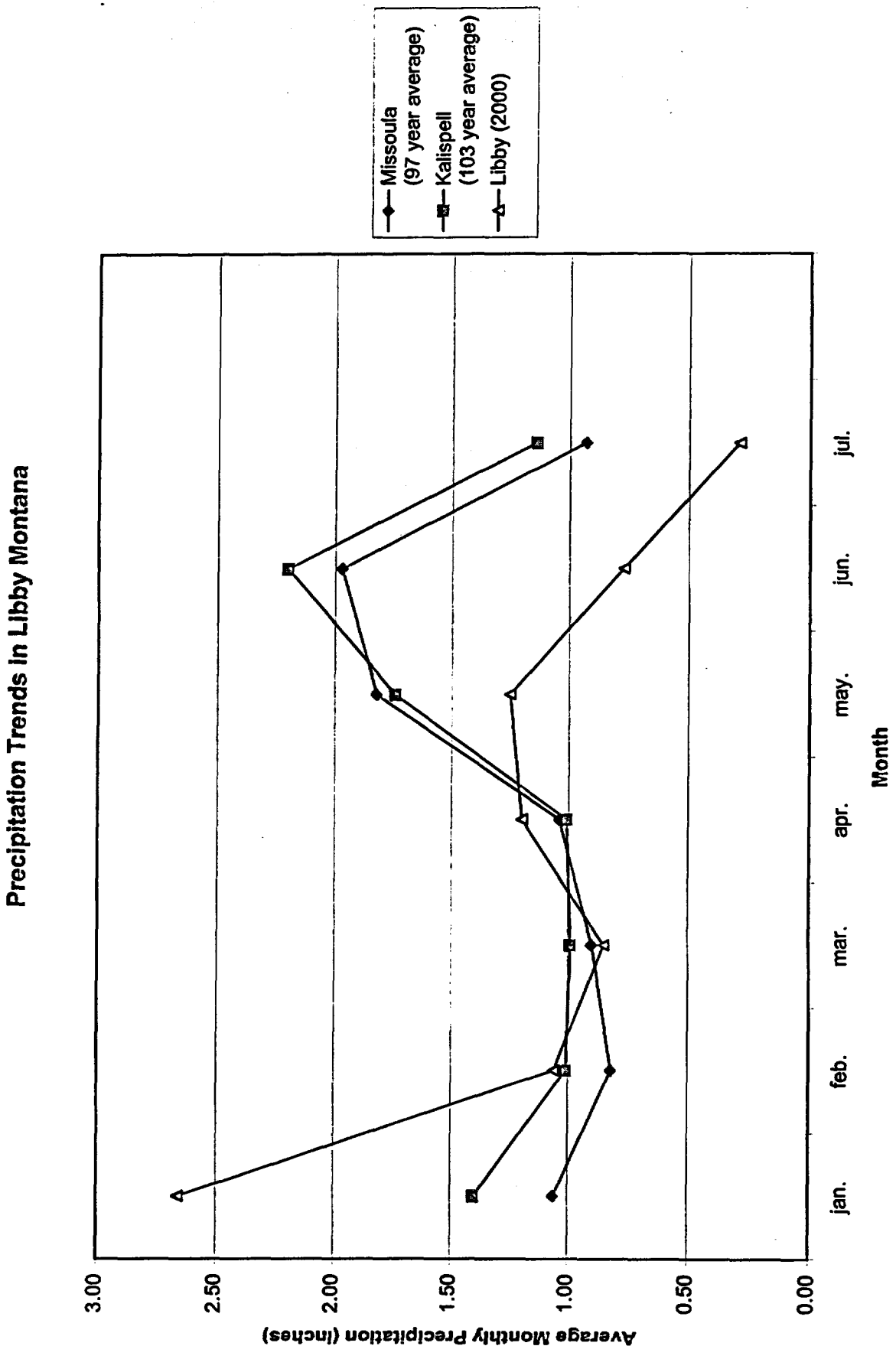
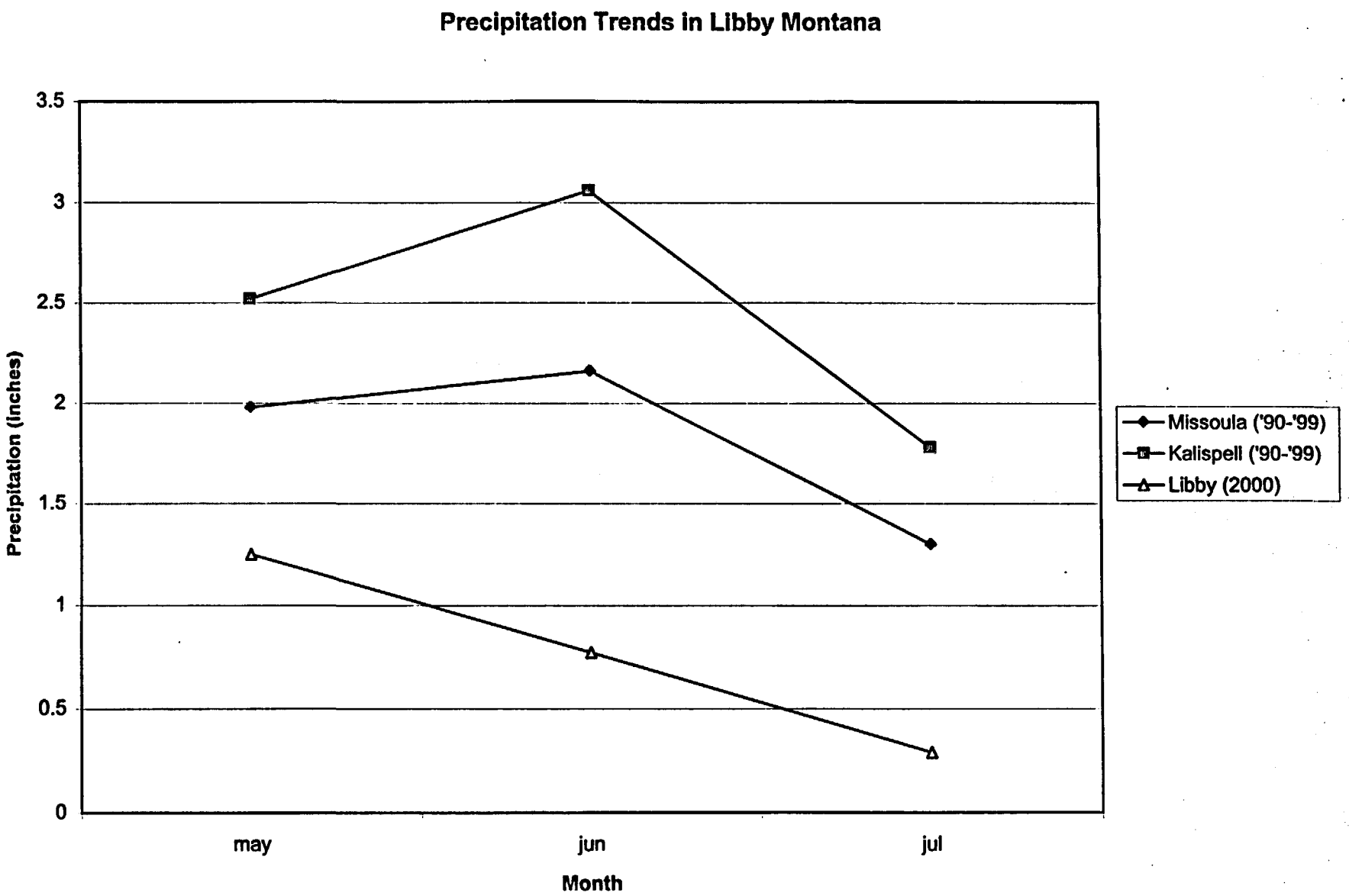
Attachment 21

479836



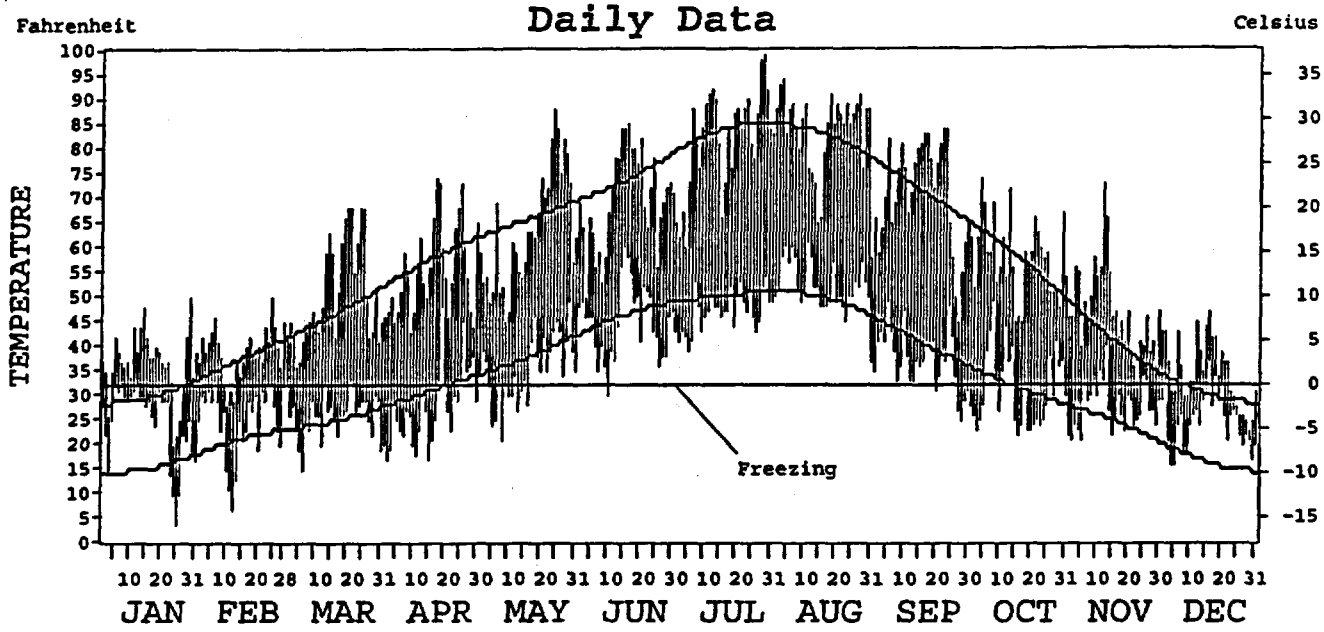

Precipitation Trends in Libby Montana
3.5
3
2.5
2
1.5
1
0.5
0
Precipitation (inches)
may
jun
jul
Month
Missoula ('90-'99)
Kalispell ('90-'99)
Libby (2000)

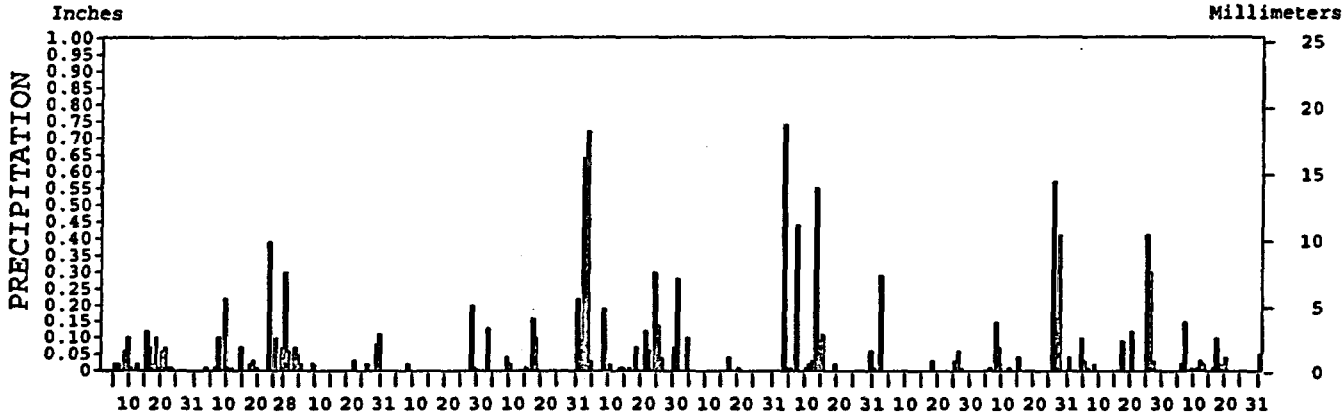
1999 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

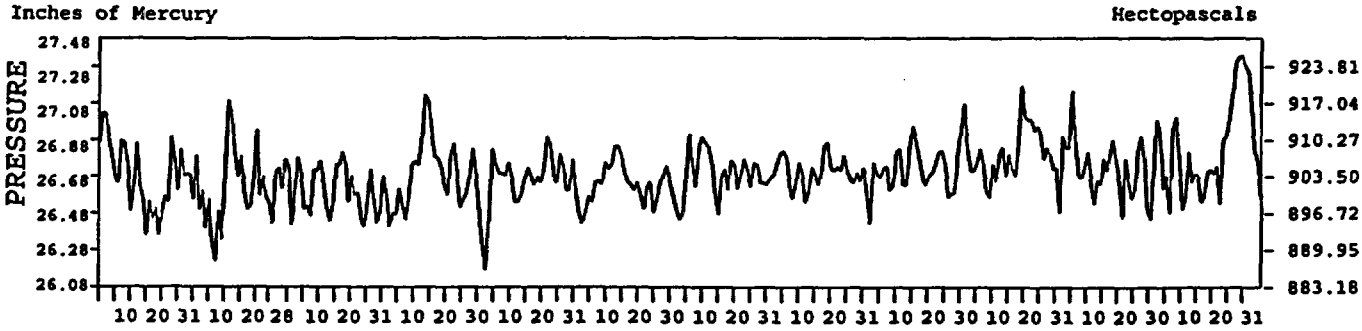
ISSN 0198-3083

MISSOULA,
MONTANA (MSO)

Daily Data







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Thomas R Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

DIRECTOR NATIONAL CLIMATIC DATA CENTER

PRECIPITATION (inches) 1999 MISSOULA, MT (MSO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	2.87	0.34	1.06	1.07	1.75	2.84	1.68	0.08	0.48	1.00	0.97	0.94	15.08
1971	1.81	0.56	0.78	2.09	1.35	1.74	0.53	0.91	0.30	0.24	1.18	1.63	13.12
1972	2.04	1.82	1.62	0.96	0.69	1.37	0.64	0.24	1.66	0.78	0.41	1.46	13.69
1973	0.44	0.17	0.23	0.33	0.54	1.57	0.09	0.31	0.60	0.60	2.51	1.62	9.01
1974	2.07	0.68	1.26	0.61	0.44	1.36	1.03	1.18	0.70	0.25	0.50	0.68	10.76
1975	2.03	1.77	0.74	1.01	1.35	2.02	1.51	2.03	0.51	3.51	1.15	0.85	18.48
1976	0.90	1.04	0.40	0.94	0.79	1.52	1.20	0.88	0.58	0.33	0.22	0.25	9.05
1977	0.66	0.18	0.98	0.08	2.13	0.66	0.72	1.28	1.67	0.72	1.02	2.88	12.98
1978	1.15	0.66	0.67	1.08	1.98	0.77	0.57	1.11	1.78	0.01	1.00	0.99	11.77
1979	1.25	1.04	1.22	1.04	0.74	0.67	0.77	1.31	0.05	0.97	0.50	0.81	10.37
1980	1.80	0.60	0.88	0.96	7.38	2.04	1.58	0.62	0.77	0.75	0.63	1.34	19.35
1981	0.16	0.77	1.43	0.74	4.19	2.70	1.07	1.61	1.01	0.62	1.07	1.98	17.35
1982	2.07	1.31	1.52	1.34	2.03	1.83	0.94	0.38	2.09	0.43	0.37	1.07	15.38
1983	0.62	0.95	1.10	0.72	2.65	2.26	2.44	1.27	1.37	0.37	1.17	1.79	16.71
1984	0.86	0.44	1.32	2.04	2.02	1.47	0.38	1.47	0.79	0.96	0.89	0.66	13.30
1985	0.19	0.70	0.44	0.55	1.57	0.38	0.09	3.29	3.60	0.80	0.51	0.38	12.50
1986	0.93	2.18	0.54	0.51	1.69	2.66	0.84	1.68	3.54	0.44	1.07	0.50	16.58
1987	0.28	0.37	1.23	0.41	1.31	1.52	2.47	1.05	0.09	0.02	0.26	1.12	10.13
1988	0.74	0.57	1.04	0.69	3.12	1.68	0.50	0.29	0.51	0.51	0.67	0.75	11.07
1989	0.75	0.46	2.10	1.01	1.35	1.44	1.58	2.08	0.88	0.46	0.84	0.61	13.56
1990	0.92	0.29	0.72	1.37	3.56	0.42	0.75	2.64	0.06	0.81	0.87	1.11	13.52
1991	0.62	0.19	1.22	0.30	2.27	2.92	0.27	0.62	0.31	0.29	1.66	0.95	11.62
1992	0.40	0.18	1.19	1.67	0.68	2.13	1.75	0.60	0.73	0.53	0.96	0.78	11.60
1993	0.86	0.67	0.66	1.83	1.99	1.45	2.02	1.32	0.35	2.00	0.46	0.40	14.01
1994	0.35	0.49	0.49	3.01	1.78	1.45	0.94	0.29	0.31	1.52	0.42	0.59	11.64
1995	0.86	0.37	0.63	0.75	1.09	2.33	1.84	1.19	2.56	1.14	1.85	1.61	16.22
1996	2.06	0.84	0.77	2.37	2.23	1.92	0.36	1.15	0.70	0.64	1.86	4.65	19.55
1997	1.69	0.80	1.79	1.49	1.73	2.25	1.52	0.95	0.65	1.19	0.36	0.33	14.75
1998	1.44	0.33	0.99	1.68	3.79	4.23	3.16	0.39	1.17	0.36	3.00	1.27	21.81
1999	0.70	1.35	0.46	0.23	0.68	2.52	0.43	2.10	0.42	1.46	1.11	0.48	11.94
POR= 113 YRS	1.06	0.82	0.90	1.04	1.82	1.97	0.93	0.91	1.09	0.90	1.02	1.11	13.57

WBAN : 24153

AVERAGE TEMPERATURE (°F) 1999 MISSOULA, MT (MSO)

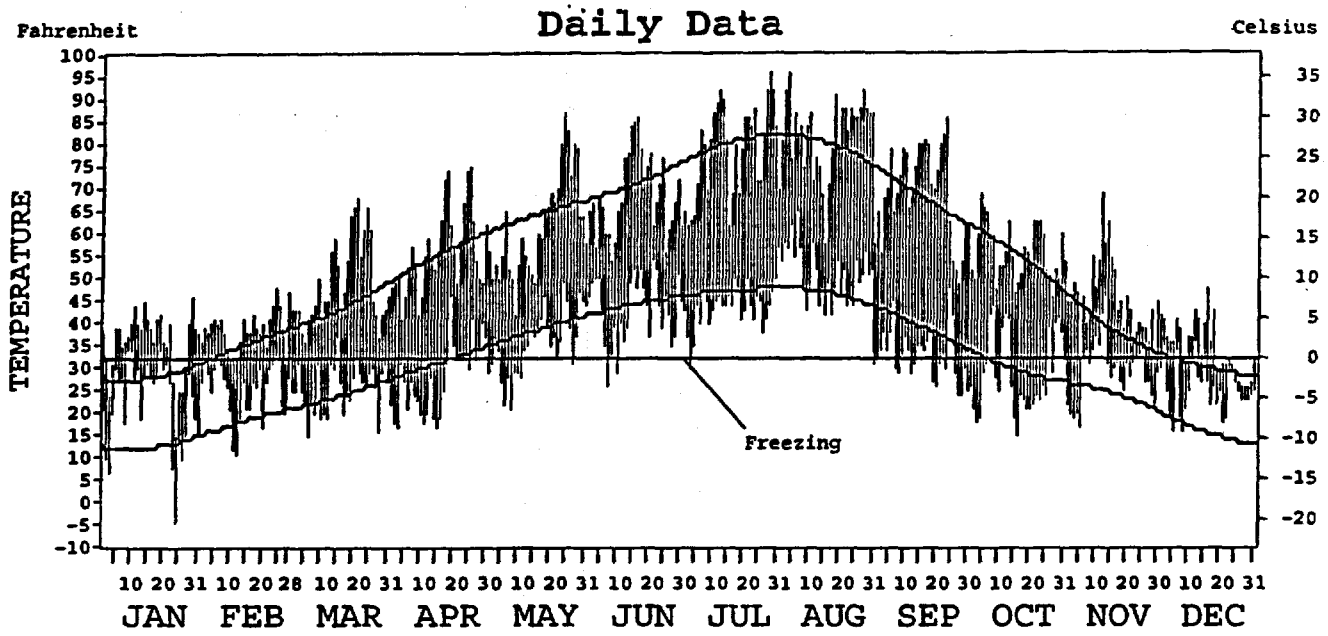
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	22.9	32.2	34.3	39.8	52.6	63.0	68.2	67.7	50.6	41.5	33.9	22.5	44.1
1971	26.3	32.2	35.5	44.8	54.5	58.3	67.1	71.5	51.9	42.2	33.7	21.1	44.9
1972	20.6	28.1	40.6	42.6	54.2	62.0	64.9	66.4	51.4	42.5	33.6	19.3	43.9
1973	21.5	30.9	39.0	43.1	53.2	60.0	69.6	67.4	56.5	45.3	30.2	30.3	45.6
1974	21.2	31.9	35.4	45.9	48.5	65.0	68.1	65.1	57.1	46.3	34.7	27.8	45.6
1975	22.7	22.4	33.0	39.3	49.2	55.4	71.8	62.1	56.1	43.6	30.4	25.7	42.6
1976	28.0	31.7	34.8	46.3	55.0	56.8	66.8	63.2	57.4	43.9	32.3	24.4	45.1
1977	18.6	31.9	34.2	46.9	50.3	63.4	65.8	67.6	54.6	44.2	31.3	24.5	44.4
1978	24.2	27.3	39.8	46.1	48.3	59.6	65.3	63.5	55.1	45.3	26.7	15.9	43.1
1979	5.6	25.5	35.9	43.9	52.2	62.3	69.2	69.1	61.4	48.1	27.2	31.2	44.3
1980	16.3	29.6	34.6	49.8	54.7	58.6	65.5	61.8	57.0	45.3	34.2	30.5	44.8
1981	29.5	31.4	40.0	46.7	53.4	57.5	65.0	69.4	56.7	41.7	32.7	24.0	45.7
1982	21.2	22.7	38.3	41.6	51.0	63.0	64.6	66.0	56.2	45.0	29.0	22.7	43.4
1983	30.0	34.5	39.9	44.6	51.8	58.6	62.1	68.9	51.1	43.8	34.3	11.8	44.3
1984	25.4	32.1	39.7	43.8	49.3	56.8	67.2	68.4	52.8	42.5	33.9	20.1	44.3
1985	19.2	23.7	36.2	47.7	55.4	62.0	74.8	62.2	50.5	40.3	21.7	14.7	42.4
1986	26.0	28.6	41.7	43.5	54.3	65.5	62.5	69.5	53.0	44.7	31.7	21.4	45.2
1987	20.5	30.6	38.0	50.1	55.9	62.9	64.7	62.2	59.3	45.2	34.2	24.2	45.7
1988	20.5	32.5	38.3	47.7	52.1	64.0	67.0	66.3	56.4	50.3	34.3	22.9	46.0
1989	26.7	15.8	32.6	44.7	52.2	61.6	71.2	63.3	55.9	44.9	37.2	24.1	44.2
1990	31.5	29.6	38.0	47.8	50.4	59.8	68.1	66.0	62.6	42.7	36.1	15.6	45.7
1991	21.5	34.9	35.8	43.9	51.1	56.8	68.4	69.6	58.3	44.4	30.4	26.6	45.1
1992	26.6	36.4	43.3	46.9	56.4	64.4	64.2	65.9	54.7	47.2	31.1	19.4	46.4
1993	15.3	18.4	38.5	44.7	58.8	58.3	59.4	63.2	55.5	46.1	27.0	27.6	42.7
1994	33.8	26.3	40.3	48.1	55.6	59.9	70.1	70.8	60.5	45.2	31.6	24.0	47.2
1995	25.0	34.5	38.0	45.0	53.4	59.0	66.7	64.1	58.0	42.2	36.6	27.2	45.8
1996	22.4	25.3	34.6	45.5	48.2	60.4	69.0	64.9	54.1	44.3	30.6	23.9	43.6
1997	21.4	26.7	35.9	40.8	55.0	59.1	64.9	66.8	58.3	44.9	33.8	25.7	44.4
1998	25.8	31.1	38.2	46.6	55.2	57.4	70.2	68.1	61.6	43.2	36.1	25.0	46.5
1999	30.7	32.0	38.4	41.7	49.4	57.4	64.5	67.7	54.1	44.6	37.5	29.8	45.7
POR= 97 YRS	22.2	27.7	35.8	44.9	52.8	59.9	67.5	66.0	56.2	45.0	32.8	24.7	44.6

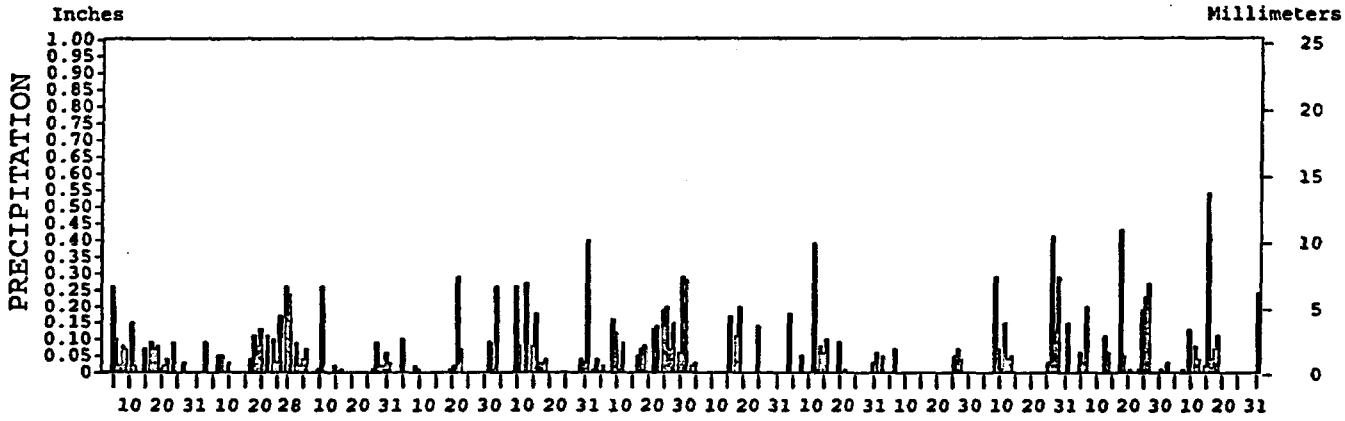
1999 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

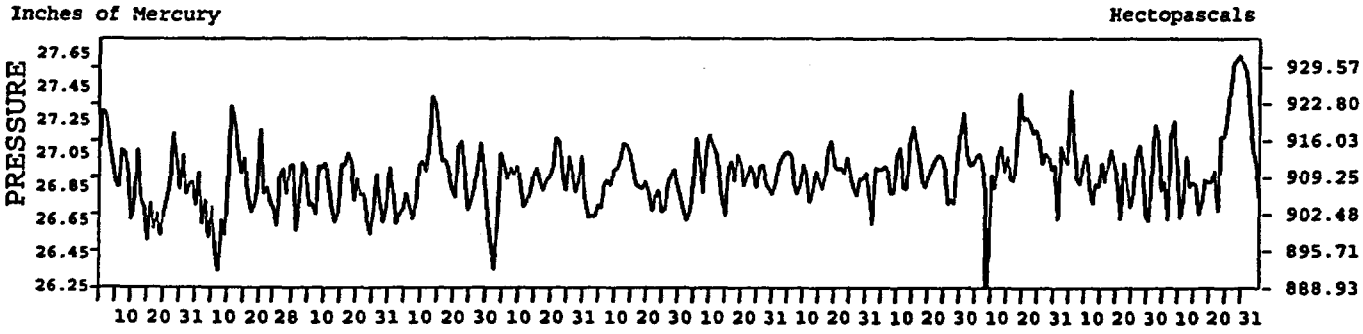
ISSN 0198-3040

KALISPELL,
MONTANA (FCA)

Daily Data







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Thomas R Karl

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

PRECIPITATION (inches) 1999 KALISPELL, MT (FCA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	3.11	1.27	0.84	0.68	2.18	2.58	1.59	0.34	0.90	1.20	1.29	1.39	17.37
1971	1.81	0.81	0.95	0.44	2.17	3.59	0.93	1.47	0.46	0.95	1.36	1.53	16.47
1972	1.58	1.57	1.14	0.86	1.50	1.69	1.51	1.03	0.76	0.84	0.55	1.60	14.63
1973	0.69	0.62	0.46	0.47	0.91	1.52	0.05	0.56	0.71	1.19	2.80	1.87	11.85
1974	1.94	1.02	1.39	1.92	1.06	1.75	0.64	0.70	1.18	0.12	1.04	1.21	13.97
1975	1.95	1.52	1.33	0.83	0.98	1.96	0.98	2.79	0.58	1.67	1.20	1.19	16.98
1976	1.36	1.40	0.35	0.97	1.79	1.69	1.64	3.78	0.36	0.38	0.47	0.65	14.84
1977	0.81	0.97	1.18	0.43	1.40	0.43	2.57	1.13	2.18	0.13	1.46	3.53	16.22
1978	2.30	0.71	0.67	2.37	2.47	0.91	1.50	2.64	0.80	0.07	1.43	0.87	16.74
1979	1.42	1.57	0.86	1.49	1.64	0.84	0.67	1.10	0.39	1.45	0.42	1.27	13.12
1980	2.15	1.92	0.86	1.52	3.90	2.96	0.81	1.60	0.74	0.78	0.49	2.54	20.27
1981	1.44	1.99	1.43	0.94	3.37	3.62	0.72	1.32	0.48	0.20	1.30	1.81	18.62
1982	2.66	1.60	0.92	1.32	0.78	4.05	1.59	0.82	1.92	0.52	1.43	1.88	19.49
1983	1.09	0.93	1.50	2.18	0.78	3.09	2.06	0.73	1.31	0.83	1.61	1.69	17.80
1984	0.78	0.66	1.34	1.53	1.56	1.77	0.51	0.88	1.88	1.85	1.77	1.22	15.75
1985	0.20	1.39	0.71	0.58	1.60	1.56	0.23	1.12	3.97	0.92	1.63	0.72	14.63
1986	2.22	1.87	0.32	0.83	2.45	2.17	1.42	0.68	2.78	0.51	1.84	0.52	17.61
1987	0.66	0.61	2.96	1.19	0.88	1.20	3.98	1.35	0.60	0.05	0.48	1.58	15.54
1988	0.97	0.84	0.80	0.94	2.83	1.49	0.87	0.29	2.10	0.46	1.03	2.32	14.94
1989	1.36	1.32	1.45	1.25	2.68	1.47	1.23	3.49	1.55	0.90	3.26	2.24	22.20
1990	1.79	0.95	1.12	1.48	4.75	1.16	2.37	2.27	0.01	2.07	1.58	4.38	23.93
1991	1.74	0.45	0.81	0.85	2.26	3.58	0.42	0.72	0.67	0.84	2.16	0.65	15.15
1992	1.17	0.79	0.94	1.02	1.18	3.65	2.37	0.71	1.02	0.71	1.59	1.99	17.14
1993	1.67	0.61	0.62	2.20	1.93	3.46	6.02	1.49	1.61	1.01	1.20	1.58	23.40
1994	1.09	1.41	0.08	1.47	1.50	2.01	0.24	0.05	0.45	2.37	1.07	0.97	12.71
1995	1.70	0.80	1.45	1.22	0.98	5.30	1.36	1.26	1.19	2.51	2.78	2.19	22.74
1996	2.59	2.00	1.77	2.34	4.34	1.56	0.70	0.79	1.71	1.48	3.23	3.27	25.78
1997	1.34	1.70	1.87	1.32	2.21	3.44	1.02	1.15	1.50	1.02	0.42	0.57	17.56
1998	1.03	0.28	2.23	1.18	4.25	3.53	2.30	0.34	1.32	0.82	1.72	2.01	21.01
1999	1.20	1.49	0.75	0.52	1.80	1.88	0.95	1.06	0.28	1.61	1.66	1.31	14.51
POR= 103 YRS	1.40	1.01	0.99	1.01	1.74	2.20	1.14	1.13	1.22	1.06	1.43	1.46	15.79

WBAN : 24146

AVERAGE TEMPERATURE (°F) 1999 KALISPELL, MT (FCA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	19.1	27.2	30.6	40.1	52.1	62.4	66.1	64.3	48.9	39.1	30.6	23.6	42.0
1971	21.7	28.8	32.9	43.6	53.7	54.8	63.1	68.8	49.1	40.0	33.1	18.4	42.3
1972	13.9	26.2	38.4	40.0	52.8	59.6	62.5	67.6	51.1	39.3	32.8	18.3	41.9
1973	19.4	27.0	39.3	42.5	52.4	58.8	67.1	65.7	54.8	43.8	29.0	29.0	44.1
1974	20.2	31.7	33.7	44.8	48.3	63.4	65.9	63.2	53.8	42.8	34.3	29.0	44.3
1975	18.2	19.2	28.0	38.9	50.0	56.2	69.9	61.5	54.5	43.6	30.1	27.3	41.5
1976	24.1	29.0	31.6	44.8	53.4	56.3	64.6	62.8	56.8	41.4	31.3	27.2	43.6
1977	19.4	30.9	34.7	46.4	50.4	61.5	63.5	63.6	52.2	42.0	28.8	19.4	42.7
1978	19.7	25.5	34.6	44.0	48.8	59.5	64.5	61.6	54.0	42.7	25.9	14.2	41.3
1979	-.2	23.1	33.7	42.8	51.7	60.3	67.7	67.3	58.5	45.6	29.0	32.2	42.6
1980	12.1	27.4	32.8	48.0	55.4	57.6	63.8	59.4	55.5	43.9	33.2	28.5	43.1
1981	29.7	30.5	38.8	45.0	52.6	53.8	63.0	67.9	55.3	40.2	32.6	21.5	44.2
1982	17.0	21.1	35.7	38.2	48.8	60.4	61.5	63.2	53.3	40.9	28.5	23.3	41.0
1983	29.6	32.9	38.0	42.3	51.5	57.3	61.2	66.3	50.6	42.8	33.9	7.9	42.9
1984	25.7	31.7	37.9	42.9	48.6	56.6	65.4	65.6	50.5	38.5	32.1	16.3	42.7
1985	17.6	15.4	28.0	44.7	54.3	57.1	68.5	59.4	47.9	40.4	16.8	18.2	39.0
1986	24.8	23.8	40.3	43.6	54.2	64.3	60.2	67.9	51.2	43.4	29.4	24.9	44.0
1987	20.9	28.3	36.1	48.6	54.8	62.1	64.1	60.7	56.5	43.1	35.3	23.0	44.5
1988	19.5	30.5	37.9	47.6	51.7	62.5	64.9	64.2	54.3	48.5	35.5	24.0	45.1
1989	26.6	13.8	31.1	44.7	50.7	60.5	67.5	61.9	53.3	42.8	35.7	26.7	42.9
1990	29.5	25.9	36.5	45.1	50.1	57.7	66.8	65.8	59.8	41.1	35.1	15.6	44.1
1991	16.4	33.3	33.0	42.6	50.3	54.7	63.9	66.1	54.8	39.9	29.7	29.4	42.8
1992	28.4	34.3	41.0	45.6	54.2	62.8	62.0	62.7	51.8	45.6	32.8	18.2	45.0
1993	15.4	19.2	35.4	44.2	57.9	56.9	57.4	60.4	52.4	44.2	25.9	27.6	41.4
1994	32.0	20.9	36.9	45.4	52.6	56.3	66.5	66.3	55.6	41.3	28.9	24.8	44.0
1995	23.4	31.6	33.2	41.8	51.9	56.3	62.6	58.5	54.4	40.2	33.2	25.7	42.7
1996	16.5	24.3	29.4	43.4	47.0	58.5	64.6	62.4	51.5	41.3	26.9	18.7	40.4
1997	18.7	26.0	31.3	38.4	52.4	57.4	62.3	64.1	55.6	43.2	31.7	26.7	42.3
1998	24.8	32.5	35.0	45.1	54.6	56.9	68.1	65.3	59.3	41.6	36.3	25.8	45.4
1999	29.3	32.2	37.4	42.1	48.7	55.8	61.3	66.1	51.4	42.4	37.5	29.9	44.5
POR= 103 YRS	21.2	25.7	33.5	43.7	52.0	58.5	65.1	63.4	53.9	43.5	32.0	24.3	43.1

Station: LIBBY Month: JAN Year: 2000
State: MT County: LINCOLN Standard Time: MOUNTAIN

Observation Time (LST) Temperature.: 1700 Precipitation.: 1700 Evaporation.: Soil:

Record of Climatological Observations

** These data are quality controlled and may not be identical to the original observations **

Day	Temperature (°F) 24 hrs. ending at observation Max.	Min.	at Observation	Precipitation (see **) 24 Hour Amounts ending at observation time: Rain, melted snow, etc. (Inches & hundredths)	Snow, ice pellets (Inches & tenths)	At Observation Time: Snow, ice pellets, hail, ice on ground (Inches)	Evaporation: 24 Hour Wind Movement (miles)	Amount of Evaporation (Inches & hundredths)	Soil Temperature (°F) 4 inch depth: Ground Cover (see *)	Max.	Min.	8 inch depth: Ground Cover (see *)	Max.	Min.
01	33	26	32	0	0	6	--	--						
02	33	26	32	.11	1	7	--	--						
03	32	21	29	.02	0	7	--	--						
04	33	26	31	.17	0	7	--	--						
05	37	20	31	0	0	7	--	--						
06	31	18	29	0	0	7	--	--						
07	36	28	34	0	0	7	--	--						
08	37	32	35	.11	0	7	--	--						
09	37	30	31	.19	2	9	--	--						
10	33	17	28	0	0	8	--	--						
11	33	17	27	.25	4	12	--	--						
12	31	17	29	.3	2	14	--	--						
13	31	26	30	.48	0	14	--	--						
14	33	29	32	.46	5	19	--	--						
15	35	26	29	0	0	17	--	--						
16	30	22	29	.55	5	22	--	--						
17	39	28	31	.02	0	20	--	--						
18	31	11	28	0	0	19	--	--						
19	28	8	19	0	0	19	--	--						
20	24	9	21	0	--	19	--	--						
21	31	14	29	0	.5	19	--	--						
22	35	25	32	0	0	18	--	--						
23	35	22	27	0	0	17	--	--						
24	28	15	27	0	0	17	--	--						
25	28	24	27	0	1	18	--	--						
26	35	23	33	0	1	19	--	--						
27	36	26	34	0	0	17	--	--						
28	36	27	34	0	0	16	--	--						
29	34	27	31	0	0	16	--	--						
30	31	25	28	0	0	15	--	--						
31	31	23	29	0	0	15	--	--						

All 9's (e.g. 999999,99999.9, etc) in the data column indicate that the value was not received or is missing

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulc; 7=Grass muck; 8=Bare muck; 0=Unknown

**The values 0T in the Precipitation category above indicate a TRACE value was recorded for these elements

** These data are quality controlled and may not be identical to the original observations **
Station:,
State:,
County:,
Standard Time:,
Temp. Obs. Time (LST):,
Precip. Obs. Time (LST):,
Evap. Obs. Time (LST):,
Soil Obs. Time(LST):,

Station: LIBBY Month: FEB Year: 2000
State: MT County: LINCOLN Standard Time: MOUNTAIN

Observation Time (LST) Temperature.: 1700 Precipitation.: 1700 Evaporation.: Soil:

Record of Climatological Observations

** These data are quality controlled and may not be identical to the original observations **

Day	Temperature (°F) 24 hrs. ending at observation Max.	Min.	at Observation	Precipitation (see **) 24 Hour Amounts ending at observation time: Rain, melted snow, etc. (Inches & hundredths)	Snow, ice pellets (Inches & tenths)	At Observation Time: Snow, ice pellets, hail, ice on ground (Inches)	Evaporation: 24 Hour Wind Movement (miles)	Amount of Evaporation (Inches & hundredths)	Soil Temperature (°F) 4 inch depth: Ground Cover (see *)	Max.	Min	8 inch depth: Ground Cover (see *)	Max.	Min
01	32	24	30	.62	3	18	--	--						
02	40	32	34	.26	0	16	--	--						
03	36	29	29	0	0	15	--	--						
04	29	19	28	0	0	15	--	--						
05	35	24	34	0	0	15	--	--						
06	37	27	36	0	0	15	--	--						
07	37	27	36	0	0	--	--	--						
08	37	26	36	0	0	14	--	--						
09	42	28	38	.04	0	14	--	--						
10	38	15	36	0	0	14	--	--						
11	38	14	30	0	0	14	--	--						
12	33	19	32	0	0	14	--	--						
13	36	28	35	0	1	15	--	--						
14	35	20	27	.1	2	17	--	--						
15	36	24	34	0	0	17	--	--						
16	34	24	31	0	0	17	--	--						
17	33	17	29	0	0	17	--	--						
18	36	17	35	0	0	17	--	--						
19	35	8	33	0	0	16	--	--						
20	35	10	35	0	0	16	--	--						
21	40	24	38	.03	0	16	--	--						
22	41	33	40	0	0	14	--	--						
23	43	32	38	.01	0	14	--	--						
24	43	31	41	0	0	13	--	--						
25	41	20	38	0	0	12	--	--						
26	40	27	40	0	0	12	--	--						
27	40	32	38	0	0	12	--	--						
28	43	33	43	0	0	10	--	--						
29	45	29	43	0	0	10	--	--						

All 9's (e.g. 999999,99999.9, etc) in the data column indicate that the value was not received or is missing

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulc; 7=Grass muck; 8=Bare muck; 0=Unknown

**The values 0T in the Precipitation category above indicate a TRACE value was recorded for these elements

** These data are quality controlled and may not be identical to the original observations **
Station:,
State:,
County:,
Standard Time:,
Temp. Obs. Time (LST):,
Precip. Obs. Time (LST):,
Evap. Obs. Time (LST):,
Soil Obs. Time(LST):,

Station: LIBBY **Month:** MAR **Year:** 2000
State: MT **County:** LINCOLN **Standard Time:** MOUNTAIN

Observation Time (LST) **Temperature.:** 1700 **Precipitation.:** 1700
Evaporation.: **Soil:**

Record of Climatological Observations

**** These data are quality controlled and may not be identical to the original observations ****

Day	Temperature (°F) 24 hrs. ending at observation		at Observation	Precipitation (see **) 24 Hour Amounts ending at observation time		At Observation Time	24 Hour Wind Movement (miles)	Evaporation Amount of Evaporation (Inches & hundredths)	Soil Temperature (°F) 4 inch depth			8 inch depth		
	Max.	Min.		Rain, melted snow, etc. (Inches & hundredths)	Snow, ice pellets (Inches & tenths)	Snow, ice pellets, hail, ice on ground (Inches)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
01	45	30	43	0	0	10	--	--						
02	46	30	45	0	0	10	--	--						
03	49	29	47	0	0	9	--	--						
04	47	34	40	.21	0	8	--	--						
05	47	34	41	.12	0	7	--	--						
06	41	33	38	0	0	6	--	--						
07	44	33	44	.04	0	6	--	--						
08	44	28	41	0	0	5	--	--						
09	46	32	45	0	0	4	--	--						
10	49	27	48	0	0	4	--	--						
11	48	30	44	0	0	3	--	--						
12	45	30	43	0	0	3	--	--						
13	47	32	47	0	0	3	--	--						
14	47	32	40	.3	0	3	--	--						
15	46	28	45	0	0	3	--	--						
16	45	28	36	0	.5	3	--	--						
17	40	32	40	.01	0	3	--	--						
18	46	31	44	0	0	1	--	--						
19	44	36	43	0	0	1	--	--						
20	45	22	44	0	0	1	--	--						
21	49	26	48	0	0	0	--	--						
22	58	24	57	--	--	1	--	--						
23	58	39	46	.17	0	0	--	--						
24	49	26	47	0	0	0	--	--						
25	53	25	42	0	0	0	--	--						
26	55	25	55	0	0	0	--	--						
27	60	28	59	0	0	0	--	--						
28	59	39	47	0	0	0	--	--						
29	59	29	47	0	0	0	--	--						
30	53	24	52	0	0	0	--	--						
31	58	26	56	0	0	0	--	--						

All 9's (e.g. 999999,99999.9, etc) in the data column indicate that the value was not received or is missing

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulc; 7=Grass muck; 8=Bare muck; 0=Unknown

**The values 0T in the Precipitation category above indicate a TRACE value was recorded for these elements

** These data are quality controlled and may not be identical to the original observations **
Station:,
State:,
County:,
Standard Time:,
Temp. Obs. Time (LST):,
Precip. Obs. Time (LST):,
Evap. Obs. Time (LST):,
Soil Obs. Time(LST):,

Station: LIBBY **Month:** APR **Year:** 2000
State: MT **County:** LINCOLN **Standard Time:** MOUNTAIN

Observation Time (LST) **Temperature.:** 1700 **Precipitation.:** 1700 **Evaporation.:** **Soil:**

Record of Climatological Observations

**** These data are quality controlled and may not be identical to the original observations ****

Day	Temperature (°F) 24 hrs. ending at observation Max.	Min.	at Observation	Precipitation (see **) 24 Hour Amounts ending at observation time: Rain, melted snow, etc. (Inches & hundredths)	Snow, ice pellets (Inches & tenths)	At Observation Time: Snow, ice pellets, hail, ice on ground (Inches)	Evaporation: 24 Hour Wind Movement (miles)	Amount of Evaporation (Inches & hundredths)	Soil Temperature (°F) 4 inch depth: Ground Cover (see *)	Max.	Min.	8 inch depth: Ground Cover (see *)	Max	Min.
01	64	31	62	0	0	--	--	--						
02	62	40	54	0	0	0	--	--						
03	64	26	64	0	0	0	--	--						
04	65	31	54	0	0	0	--	--						
05	55	28	46	.29	0	0	--	--						
06	47	34	40	0	0	0	--	--						
07	52	28	51	0	0	0	--	--						
08	62	26	61	0	0	0	--	--						
09	68	28	69	0	0	0	--	--						
10	67	29	66	0	0	0	--	--						
11	68	33	67	0	0	0	--	--						
12	67	36	67	0	0	0	--	--						
13	67	39	40	.3	0	0	--	--						
14	39	26	33	.61	--	3	--	--						
15	46	30	45	0	0	--	--	--						
16	54	30	54	0	0	--	--	--						
17	61	40	60	0	0	--	--	--						
18	66	34	65	0	0	0	--	--						
19	68	31	66	0	0	0	--	--						
20	67	32	66	0	0	0	--	--						
21	68	38	67	0	0	0	--	--						
22	68	39	59	0	0	0	--	--						
23	59	34	55	0	0	0	--	--						
24	55	32	48	0	0	0	--	--						
25	50	4	4	0	0	0	--	--						
26	61	33	61	0	0	0	--	--						
27	74	31	74	0	0	0	--	--						
28	75	46	53	0	0	0	--	--						
29	60	34	55	0	0	0	--	--						
30	71	--	65	0	0	0	--	--						

All 9's (e.g. 999999,99999.9, etc) in the data column indicate that the value was not received or is missing

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulc; 7=Grass muck; 8=Bare muck; 0=Unknown

**The values 0T in the Precipitation category above indicate a TRACE value was recorded for these elements

** These data are quality controlled and may not be identical to the original observations **
Station:,
State:,
County:,
Standard Time:,
Temp. Obs. Time (LST):,
Precip. Obs. Time (LST):,
Evap. Obs. Time (LST):,
Soil Obs. Time(LST):,

Station: LIBBY Month: MAY Year: 2000
State: MT County: LINCOLN Standard Time: MOUNTAIN

Observation Time (LST) Temperature.: 1700 Precipitation.: 1700 Evaporation.: Soil:

Record of Climatological Observations
PRELIMINARY DATA
** These data are quality controlled and may not be identical to the original observations **

Day	Temperature (°F) 24 hrs. ending at observation Max.	Min.	at Observation	Precipitation (see **) 24 Hour Amounts ending at observation time: Rain, melted snow, etc. (Inches & hundredths)	Snow, ice pellets (Inches & tenths)	At Observation Time: Snow, ice pellets, hail, ice on ground (Inches)	Evaporation: 24 Hour Wind Movement (miles)	Amount of Evaporation (Inches & hundredths)	Soil Temperature (°F) 4 inch depth: Ground Cover (see *)	Max.	Min.	8 inch depth: Ground Cover (see *)	Max.	Min
01	73	35	71	0	0	--	--	--						
02	71	46	58	.2	0	0	--	--						
03	60	39	51	.17	0	0	--	--						
04	56	38	53	0	0	0	--	--						
05	60	31	51	0	0	0	--	--						
06	58	34	56	0	0	0	--	--						
07	60	28	59	0	0	0	--	--						
08	64	28	62	0	0	0	--	--						
09	63	28	49	.15	0	0	--	--						
10	55	39	53	.1	0	0	--	--						
11	55	33	53	.01	0	0	--	--						
12	60	30	59	.13	0	0	--	--						
13	66	29	64	0	0	0	--	--						
14	66	36	64	0	0	0	--	--						
15	72	34	71	0	0	0	--	--						
16	--	--	--	0	0	0	--	--						
17	79	36	73	0	0	0	--	--						
18	--	--	--	0	0	0	--	--						
19	68	46	62	0	0	0	--	--						
20	70	42	69	0	0	0	--	--						
21	73	51	73	0	0	0	--	--						
22	75	47	71	0	0	0	--	--						
23	72	53	69	0	0	0	--	--						
24	76	35	72	0	0	0	--	--						
25	73	36	67	0	0	0	--	--						
26	71	41	62	0	0	0	--	--						
27	71	46	65	0	0	0	--	--						
28	66	45	63	0	0	0	--	--						
29	67	35	58	0	0	0	--	--						
30	63	33	51	.2	0	0	--	--						
31	57	43	56	.29	0	0	--	--						

All 9's (e.g. 999999,99999.9, etc) in the data column indicate that the value was not received or is missing

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulc; 7=Grass muck; 8=Bare muck; 0=Unknown

**The values 0T in the Precipitation category above indicate a TRACE value was recorded for these elements

PRELIMINARY DATA
** These data are quality controlled and may not be identical to the original observations **
Station:,
State:,
County:,
Standard Time:,
Temp. Obs. Time (LST):,
Precip. Obs. Time (LST):,
Evap. Obs. Time (LST):,
Soil Obs. Time(LST):,

Station: LIBBY Month: JUN Year: 2000
State: MT County: LINCOLN Standard Time: MOUNTAIN

Observation Time (LST) Temperature.: 1700 Precipitation.: 1700
Evaporation.: Soil:

Record of Climatological Observations
PRELIMINARY DATA
** These data are quality controlled and may not be identical to the original observations **

Day	Temperature (°F) 24 hrs. ending at observation Max.	Min.	at Observation	Precipitation (see **) 24 Hour Amounts ending at observation time: Rain, melted snow, etc. (Inches & hundredths)	Snow, ice pellets (Inches & tenths)	At Observation Time: Snow, ice pellets, hail, ice on ground (Inches)	Evaporation: 24 Hour Wind Movement (miles)	Amount of Evaporation (Inches & hundredths)	Soil Temperature (°F) 4 inch depth: Ground Cover (see *)	Max.	Min.	8 inch depth: Ground Cover (see *)	Max.	Min
01	66	31	66	0	0	–	–	–						
02	73	44	73	0	0	0	–	–						
03	74	42	72	0	0	0	–	–						
04	80	40	78	0	0	0	–	–						
05	78	43	74	0	0	0	–	–						
06	78	43	75	0	0	0	–	–						
07	82	44	80	0	0	0	–	–						
08	80	52	67	0	0	0	–	–						
09	67	52	59	0	0	0	–	–						
10	63	42	55	0	0	0	–	–						
11	61	40	58	0	0	0	–	–						
12	59	46	57	.24	0	0	–	–						
13	71	47	66	.39	0	0	–	–						
14	69	52	65	0	0	0	–	–						
15	69	47	65	0	0	0	–	–						
16	74	41	74	0	0	0	–	–						
17	78	41	76	0	0	0	–	–						
18	78	46	70	0	0	0	–	–						
19	72	48	60	.14	0	0	–	–						
20	75	38	72	0	0	0	–	–						
21	79	46	73	0	0	0	–	–						
22	80	52	76	0	0	0	–	–						
23	80	43	76	0	0	0	–	–						
24	77	43	55	0	0	0	–	–						
25	76	42	74	0	0	0	–	–						
26	82	42	77	0	0	0	–	–						
27	82	43	82	0	0	0	–	–						
28	87	45	79	0	0	0	–	–						
29	86	48	83	0	0	0	–	–						
30	85	45	85	0	0	0	–	–						

All 9's (e.g. 999999,99999.9, etc) in the data column indicate that the value was not received or is missing

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulc; 7=Grass muck; 8=Bare muck; 0=Unknown

**The values 0T in the Precipitation category above indicate a TRACE value was recorded for these elements

PRELIMINARY DATA
** These data are quality controlled and may not be identical to the original observations **
Station:,
State:,
County:,
Standard Time:,
Temp. Obs. Time (LST):,
Precip. Obs. Time (LST):,
Evap. Obs. Time (LST):,
Soil Obs. Time(LST):,

Station: LIBBY Month: JUL Year: 2000
State: MT County: LINCOLN Standard Time: MOUNTAIN

Observation Time (LST) Temperature.: 1700 Precipitation.: 1700 Evaporation.: Soil:

Record of Climatological Observations
PRELIMINARY DATA
**** These data are quality controlled and may not be identical to the original observations ****

Day	Temperature (°F) 24 hrs. ending at observation Max.	Min.	at Observation	Precipitation (see **) 24 Hour Amounts ending at observation time: Rain, melted snow, etc. (Inches & hundredths)	Snow, ice pellets (Inches & tenths)	At Observation Time: Snow, ice pellets, hail, ice on ground (Inches)	Evaporation: 24 Hour Wind Movement (miles)	Amount of Evaporation (Inches & hundredths)	Soil Temperature (°F) 4 inch depth: Ground Cover (see *)	Max.	Min.	8 inch depth: Ground Cover (see *)	Max.	Min.
01	85	49	80	0	0	--	--	--						
02	80	46	74	0	0	0	--	--						
03	80	43	60	0	0	0	--	--						
04	63	43	58	.15	0	0	--	--						
05	74	38	74	0	0	0	--	--						
06	74	50	70	0	0	0	--	--						
07	75	48	72	0	0	0	--	--						
08	81	43	77	0	0	0	--	--						
09	77	52	75	.14	0	0	--	--						
10	78	44	75	0	0	0	--	--						
11	83	44	83	0	0	0	--	--						
12	90	45	89	0	0	0	--	--						
13	94	49	92	0	0	0	--	--						
14	93	48	84	0	0	0	--	--						
15	86	54	78	0	0	0	--	--						
16	84	42	82	0	0	0	--	--						
17	88	42	86	0	0	0	--	--						
18	87	46	86	0	0	0	--	--						
19	90	49	87	0	0	0	--	--						
20	91	48	89	0	0	0	--	--						
21	93	47	88	0	0	0	--	--						
22	93	48	90	0	0	0	--	--						
23	94	57	75	0	0	0	--	--						
24	86	47	83	0	0	0	--	--						
25	--	--	--	0	0	0	--	--						
26	89	46	83	0	0	0	--	--						
27	88	48	85	0	0	0	--	--						
28	91	48	90	0	0	0	--	--						
29	--	--	--	0	0	0	--	--						
30	96	57	88	0	0	0	--	--						
31	92	53	91	0	0	0	--	--						

All 9's (e.g. 999999,99999.9, etc) in the data column indicate that the value was not received or is missing

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulc; 7=Grass muck; 8=Bare muck; 0=Unknown

**The values 0T in the Precipitation category above indicate a TRACE value was recorded for these elements

PRELIMINARY DATA

** These data are quality controlled and may not be identical to the original observations **
Station:,
State:,
County:,
Standard Time:,
Temp. Obs. Time (LST):,
Precip. Obs. Time (LST):,
Evap. Obs. Time (LST):,
Soil Obs. Time(LST):,