

2003

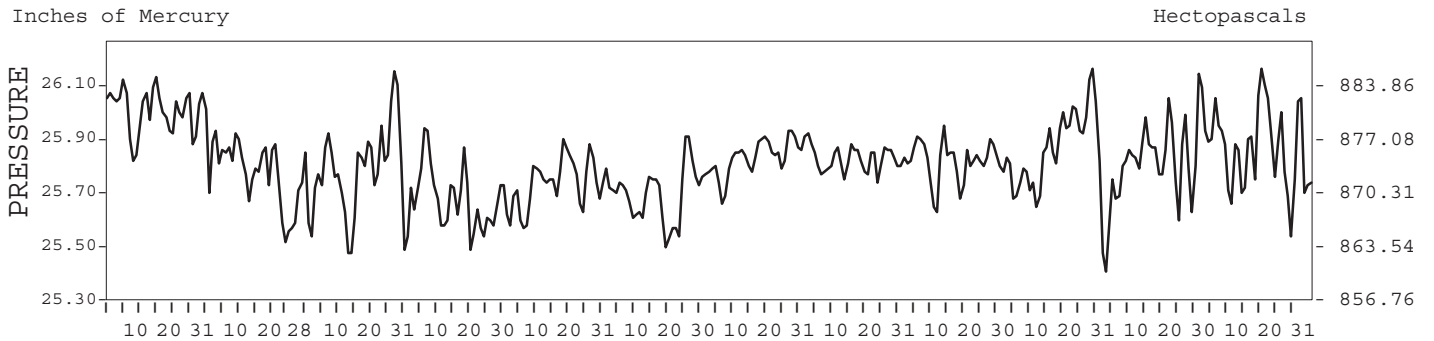
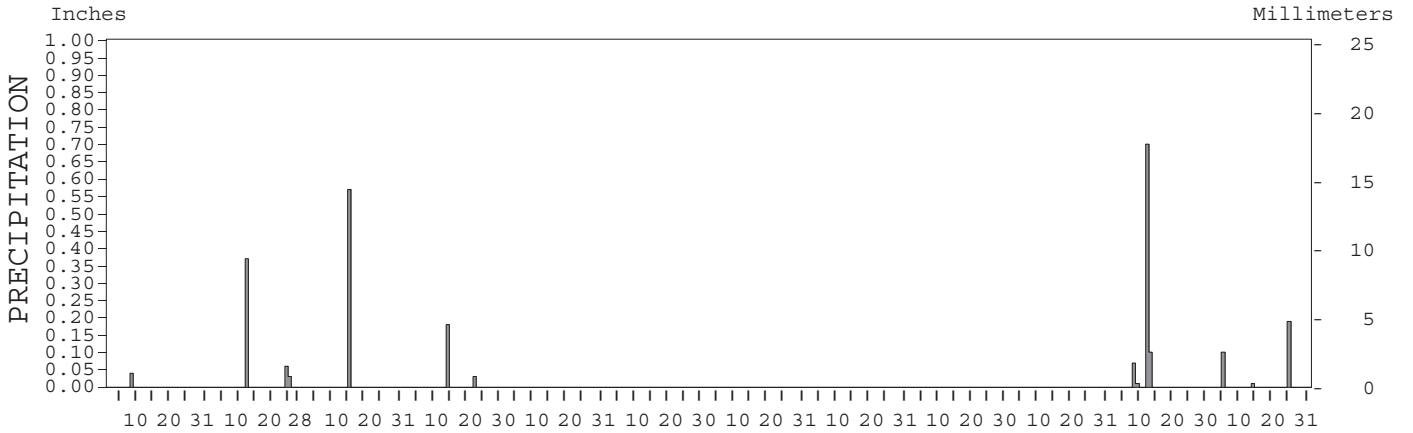
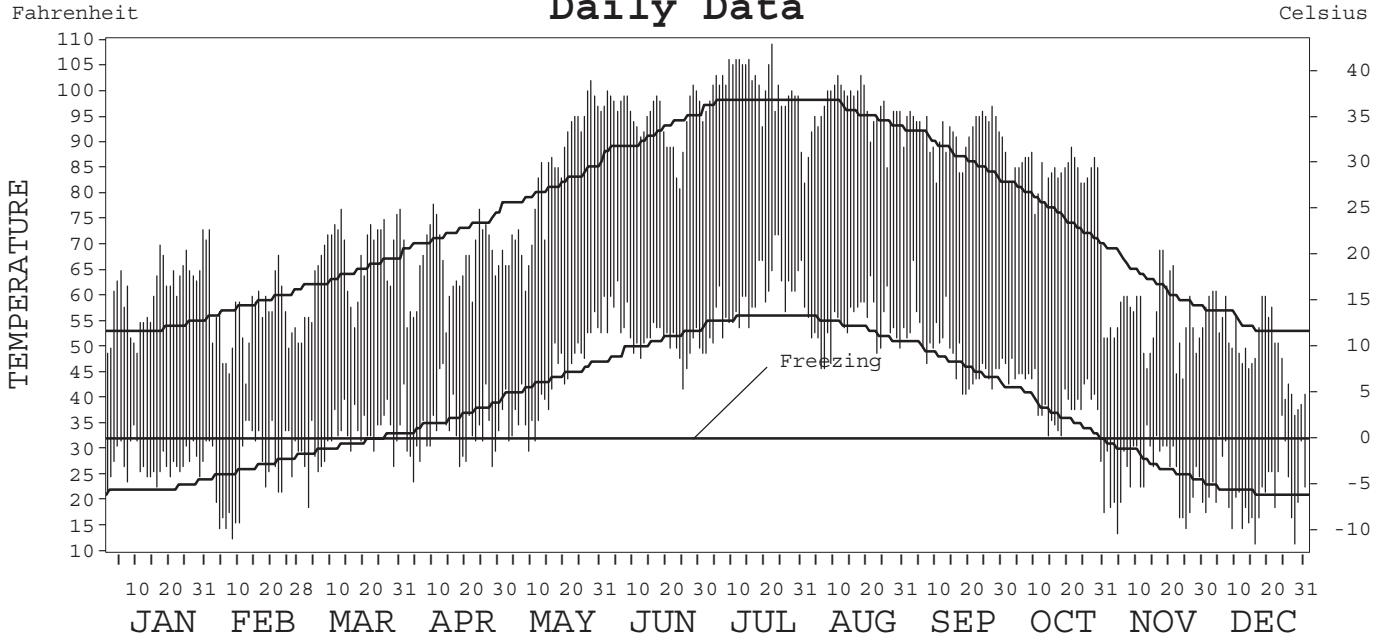
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-0866

BISHOP, CALIFORNIA (BIH)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2003

BISHOP, CA (BIH)

LATITUDE: 37° 22' 23" N LONGITUDE: 118° 21' 46" W ELEVATION (FT): GRND: 4109 BARO: 4112 TIME ZONE: PACIFIC (UTC + 8) WBAN: 23157

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	61.0	55.7	67.0	66.4	82.9	94.7	100.8	95.9	92.0	82.8	55.8	50.6	75.5
	HIGHEST DAILY MAXIMUM	73	73	77	78	102	101	109	103	97	89	69	61	109
	DATE OF OCCURRENCE	30	01	31+	10	28	28	22	18+	27	21	18+	04+	JUL 22
	MEAN DAILY MINIMUM	27.8	26.3	32.5	33.8	43.2	52.6	59.4	54.5	48.9	39.5	25.1	22.3	38.8
	LOWEST DAILY MINIMUM	22	13	19	24	30	42	49	46	41	18	14	12	12
	DATE OF OCCURRENCE	01	08	03	04	09	25	02+	07+	19+	31	04	28+	DEC 28+
	AVERAGE DRY BULB	44.4	41.0	49.8	50.1	63.1	73.7	80.1	75.2	70.5	61.2	40.5	36.5	57.2
	MEAN WET BULB	35.8	33.1	38.5	38.9	47.9	54.4		57.5	51.9	44.8	32.3	29.3	
	MEAN DEW POINT	27.1	20.5	22.4	21.5	30.5	35.7		42.6	33.6	25.7	21.0	18.8	
	NUMBER OF DAYS WITH:													
MAXIMUM ≥ 90°	0	0	0	0	11	24	30	27	23	0	0	0	0	115
MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM ≤ 32°	30	21	14	14	3	0	0	0	0	2	28	29	141	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	630	665	465	442	154	0	0	0	2	118	729	878	4083
	COOLING DEGREE DAYS	0	0	0	0	102	267	475	323	176	7	0	0	1350
RH	MEAN (PERCENT)	60	50	39	35	32	25	30	34	27	28	52	56	39
	HOUR 04 LST	79	67	61	58	54	44	47	56	44	44	71	73	58
	HOUR 10 LST	52	43	29	27	21	17	21	24	19	19	40	46	30
	HOUR 16 LST	33	28	19	18	18	16	20	20	17	15	31	34	22
	HOUR 22 LST	70	54	39	36	34	24	32	34	29	31	60	62	42
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	0	0	0	0	0	0	0	0	0	0	0	1
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
	MIDNIGHT-MIDNIGHT: (OKTAS)													
	CEILOMETER (≤ 12,000 FT.)													
	SATELLITE (> 12,000 FT.)													
NUMBER OF DAYS WITH:														
CLEAR														
PARTLY CLOUDY														
CLOUDY														
PR	MEAN STATION PRESS. (IN.)	26.00	25.76	25.78	25.66	25.72	25.69	25.82	25.81	25.81	25.83	25.84	25.85	25.80
	MEAN SEA-LEVEL PRESS. (IN.)	30.23	29.97	29.95	29.81	29.83	29.75		29.89	29.91	29.96	30.06	30.10	
WINDS	RESULTANT SPEED (MPH)	3.3	2.8	3.3	1.1	1.9	0.6	0.6	1.5	2.4	2.5	2.3	2.7	1.6
	RES. DIR. (TENS OF DEGS.)	32	33	33	21	34	25	23	16	33	32	32	32	32
	MEAN SPEED (MPH)	5.2	7.7	8.9	11.0	8.7	7.5	7.8	8.1	7.3	8.0	6.2	6.2	7.7
	PREVAIL. DIR. (TENS OF DEGS.)	31	36	35	15	32	31	30	15	36	36	34	31	33
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	31	40	31	36	33	40	33	29	28	32	32	37	40
	DIR. (TENS OF DEGS.)	36	25	34	35	04	18	14	16	34	35	35	16	18
	DATE OF OCCURRENCE	05	01	27	18+	24	18	30+	21	09+	30	21	23	JUN 18
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	38	47	37	43	47	53	43	36	35	41	39	45	53
DIR. (TENS OF DEGS.)	36	25	18	34	07	16	09	15	33	36	35	16	16	
DATE OF OCCURRENCE	05	01	13	18+	24	18	25	21+	09	30	21	23	JUN 18	
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	0.04	0.46	0.57	0.21	T	T	T	T	T	0.00	0.88	0.30	2.46
	GREATEST 24-HOUR (IN.)	0.04	0.37	0.57	0.18	T	T	T	T	T	0.00	0.80	0.19	0.80
	DATE OF OCCURRENCE	08	12	15	14	24+	18+	31+	31+	03+		12-13	25	NOV 12-13
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	1	3	1	2	0	0	0	0	0	0	4	3	14
PRECIPITATION ≥ 0.10	0	1	1	1	0	0	0	0	0	0	2	2	7	
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)													
	GREATEST 24-HOUR (IN.)													
	DATE OF OCCURRENCE													
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0														

NORMALS, MEANS, AND EXTREMES

BISHOP, CA (BIH)

LATITUDE: 37° 22' 23" N LONGITUDE: 118° 21' 46" W ELEVATION (FT): GRND: 4109 BARO: 4112 TIME ZONE: PACIFIC (UTC + 8) WBAN: 23157

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	53.6	58.4	64.3	72.1	81.2	91.5	97.9	95.8	87.6	76.0	62.4	54.3	74.6
	MEAN DAILY MAXIMUM	56	53.3	58.0	63.9	70.3	80.6	91.0	97.5	95.6	87.9	76.8	63.0	54.2	74.3
	HIGHEST DAILY MAXIMUM	56	77	81	87	93	102	109	110	107	112	97	84	78	112
	YEAR OF OCCURRENCE		1948	1986	1966	1989	2003	1954	2002	1993	1995	1980	1988	1958	SEP 1995
	MEAN OF EXTREME MAXS.	56	67.2	70.8	76.7	83.4	93.8	101.8	104.8	103.3	97.9	88.5	77.1	67.9	86.1
	NORMAL DAILY MINIMUM	30	22.4	26.4	31.0	36.0	43.7	50.7	55.7	53.7	46.9	37.1	27.1	21.6	37.7
	MEAN DAILY MINIMUM	56	21.6	25.9	29.9	35.5	43.8	50.7	56.0	53.6	46.8	37.3	27.6	21.8	37.5
	LOWEST DAILY MINIMUM	56	-7	-2	9	15	25	29	34	37	26	16	5	-8	-8
	YEAR OF OCCURRENCE		1982	1969	1971	1953	1964	1988	1987	1959	1986	1970	1958	1990	DEC 1990
	MEAN OF EXTREME MINS.	56	9.3	14.3	17.8	24.2	32.1	39.2	46.6	44.1	36.9	26.1	15.6	10.2	26.4
	NORMAL DRY BULB	30	38.0	42.4	47.7	54.1	62.5	71.1	76.8	74.8	67.3	56.6	44.8	38.0	56.2
	MEAN DRY BULB	56	37.4	41.9	47.0	52.8	62.1	70.9	76.8	74.5	67.5	57.1	45.2	38.0	55.9
	MEAN WET BULB	14	32.9	35.1	39.8	42.8	48.8	53.9	58.0	53.5	51.2	44.0	35.6	31.1	43.9
	MEAN DEW POINT	14	20.1	21.8	21.2	22.8	28.8	33.5	39.3	35.7	32.5	26.3	20.8	17.9	26.7
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.4	5.0	19.0	28.7	26.6	12.6	1.4	0.0	0.0	93.7	
MAXIMUM ≤ 32°	30	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	
MINIMUM ≤ 32°	30	29.1	24.1	18.4	8.3	1.2	0.1	0.0	0.0	0.4	7.3	24.1	29.3	142.3	
MINIMUM ≤ 0°	30	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	
H/C	NORMAL HEATING DEG. DAYS	30	843	643	545	344	138	21	1	1	46	276	609	847	4314
	NORMAL COOLING DEG. DAYS	30	0	0	0	3	45	191	357	293	106	8	0	0	1003
RH	NORMAL (PERCENT)														
	HOUR 04 LST	30	52	45	34	25	23	20	20	22	24	28	36	45	31
	HOUR 10 LST	30	36	29	23	18	19	15	15	15	17	19	27	34	22
	HOUR 16 LST														
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	30	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4
	THUNDERSTORMS	30	0.0	0.0	0.0	0.2	1.1	1.2	3.5	1.9	0.9	0.4	0.1	0.0	9.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1					3.2	1.6							
	MIDNIGHT-MIDNIGHT (OKTAS)	1					3.2	1.6			0.0				
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE (IN)	18	25.84	25.80	25.72	25.71	25.71	25.71	25.80	25.80	25.79	25.80	25.88	25.90	25.79
	MEAN SEA-LEVEL PRES. (IN)	14	30.12	30.03	29.97	29.90	29.85	29.84	29.87	29.90	29.92	29.99	30.06	30.15	29.97
WINDS	MEAN SPEED (MPH)	9	7.1	8.1	9.6	10.1	9.0	8.5	8.0	8.0	7.7	8.0	7.2	6.9	8.2
	PREVAIL. DIR (TENS OF DEGS)	9	36	36	36	36	36	36	16	16	16	16	34	36	36
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	8	41	46	43	43	43	44	35	33	33	36	40	38	46
	DIR. (TENS OF DEGS)		35	22	15	25	35	35	17	14	16	28	34	35	22
	YEAR OF OCCURRENCE		2000	2001	2001	2002	2001	1998	2001	2000	2001	1999	1996	1999	FEB 2001
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	8	53	67	51	52	53	54	43	40	41	45	53	48	67
DIR. (TENS OF DEGS)		35	23	32	25	25	35	09	17	17	31	34	35	23	
YEAR OF OCCURRENCE		2000	2001	2002	2002	1996	1998	2003	2002	2001	1999	1996	1998	FEB 2001	
PRECIPITATION	NORMAL (IN)	30	0.88	0.97	0.62	0.24	0.26	0.21	0.17	0.13	0.28	0.20	0.44	0.62	5.02
	MAXIMUM MONTHLY (IN)	54	8.93	6.01	2.94	2.26	1.30	1.31	1.47	0.64	1.28	1.58	2.59	5.79	8.93
	YEAR OF OCCURRENCE		1969	1969	1991	1956	1962	1998	1976	1983	1994	1957	1960	1966	JAN 1969
	MINIMUM MONTHLY (IN)	55	0.00	T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	YEAR OF OCCURRENCE		1976	1967	1972	1973	1983	1981	1982	1980	1974	1973	1976	1975	MAY 1983
	MAXIMUM IN 24 HOURS (IN)	54	3.32	3.64	1.79	1.58	0.95	0.72	0.86	0.46	1.25	1.05	1.79	3.35	3.64
	YEAR OF OCCURRENCE		1952	1969	1995	1982	1953	1982	1976	1979	1994	1957	1950	1966	FEB 1969
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	3.9	3.9	3.8	1.9	2.4	1.7	1.9	1.7	2.2	1.4	2.2	2.4	29.4	
PRECIPITATION ≥ 1.00	30	0.1	0.1	0.1	*	0.0	0.0	0.0	0.0	*	0.0	*	0.1	0.4	
SNOWFALL	NORMAL (IN)	30	3.5	1.3	0.6	0.1	0.*	0.0	0.0	0.0	0.0	0.1	0.4	1.2	7.2
	MAXIMUM MONTHLY (IN)	47	23.2	31.9	14.5	8.8	2.3	0.0	0.0	0.0	T	1.8	3.9	13.2	31.9
	YEAR OF OCCURRENCE		1969	1969	1952	1956	1964				1955	1978	1964	1967	FEB 1969
	MAXIMUM IN 24 HOURS (IN)	47	18.0	14.2	7.5	8.8	2.3	0.0	0.0	0.0	T	1.8	3.9	6.7	18.0
	YEAR OF OCCURRENCE		1969	1976	1952	1956	1964				1955	1978	1964	1967	JAN 1969
	MAXIMUM SNOW DEPTH (IN)	48	22	14	13	1	2	0	0	0	0	0	4	6	22
	YEAR OF OCCURRENCE		1969	1976	1969	1980	1964						1964	1984	JAN 1969
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	1.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	2.1	

PRECIPITATION (inches) 2003 BISHOP, CA (BIH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	1.48	0.00	1.75	0.21	0.33	0.00	0.16	T	0.00	0.80	T	0.64	5.37
1975	T	0.20	0.69	0.20	T	0.07	T	0.10	1.18	0.09	0.02	0.00	2.55
1976	0.00	1.37	0.05	0.05	0.59	0.17	1.47	T	0.94	0.02	0.00	T	4.66
1977	0.77	0.22	0.04	0.02	0.60	0.61	T	0.51	T	T	0.05	2.53	5.35
1978	2.68	3.33	1.64	0.22	0.00	0.02	0.02	0.01	0.51	0.18	0.51	0.50	9.62
1979	0.45	0.64	0.49	T	T	T	0.03	0.02	0.25	0.07	0.13	0.57	2.65
1980	1.56	2.72	0.28	0.43	0.10	T	0.35	0.00	0.14	T	0.08	1.25	6.91
1981	0.65	0.11	0.85	0.68	0.88	0.00	0.00	0.04	0.03	0.09	1.30	0.11	4.74
1982	1.43	0.02	0.50	1.62	0.08	1.29	0.00	0.51	0.74	0.68	0.87	2.67	10.41
1983	1.82	1.29	1.20	0.22	0.00	T	0.05	0.64	0.40	0.08	1.31	1.14	8.15
1984	T	0.36	0.09	0.02	T	0.04	1.04	0.58	T	0.16	1.97	0.85	5.11
1985	0.25	0.01	0.06	0.00	0.00	0.67	0.31	0.00	0.34	0.05	0.95	0.55	3.19
1986	0.86	3.04	1.00	0.65	T	0.00	0.31	0.06	0.12	0.00	0.03	0.08	6.15
1987	0.42	0.31	0.03	0.04	0.54	0.16	0.18	0.03	0.01	0.13	1.67	0.60	4.12
1988	0.87	0.30	0.07	0.63	0.12	0.23	T	T	0.50	0.00	0.12	0.68	3.52
1989	0.06	0.12	0.04	0.00	1.04	0.04	0.00	0.01	0.24	0.00	0.26	0.00	1.81
1990	0.95	0.50	0.00	0.56	0.21	0.15	0.26	0.45	0.28	0.00	0.00	0.00	3.36
1991	T	0.07	2.94	0.07	T	0.02	0.00	0.00	0.21	0.69	0.00	0.58	4.58
1992	0.38	1.31	0.67	0.00	0.06	0.30	0.12	0.06	0.05	0.53	0.00	1.50	4.98
1993	2.03	2.62	0.91	0.00	0.04	0.00	0.00	T	0.00	0.06	0.12	0.08	5.86
1994	0.04	1.33	0.57	0.03	0.54	0.00	0.00	0.00	1.28	0.24	0.05	0.25	4.33
1995	2.87	0.60	2.28	0.07	0.72	0.20	0.23	0.01	T	T	0.02	1.06	8.06
1996	0.38	1.85	0.79	0.43	0.02	0.00	0.12	T	T	0.77	0.78	T	5.14
1997	T	T	0.00	0.00	0.01	0.47	0.23	T	0.24	T	0.25	0.48	
1998	0.55	5.16	0.85	0.28	0.57	1.31	0.01	0.03	0.28	0.17	0.01	0.06	9.28
1999	1.10	0.41	0.01	0.38	0.08	0.02	0.04	0.19	0.15	0.00	0.02	0.00	2.40
2000	0.30	0.98	0.29	0.45	T	T	T	0.30	0.02	0.25	0.00	0.00	2.59
2001	0.79	1.40	0.37	0.41	0.12	T	0.73	T	0.00	T	1.02	0.21	5.05
2002	0.03	T	0.01	0.04	0.00	T	0.05	T	0.01	T	1.68	0.86	2.68
2003	0.04	0.46	0.57	0.21	T	T	T	T	T	0.00	0.88	0.30	2.46
POR= 91 YRS	1.20	0.99	0.63	0.28	0.28	0.13	0.11	0.10	0.20	0.21	0.44	0.77	5.34

WBAN : 23157

AVERAGE TEMPERATURE (°F) 2003 BISHOP, CA (BIH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	29.7	41.8	49.0	52.7	64.6	73.9	76.4	73.7	70.5	55.7	45.8	36.9	55.9
1975	39.4	41.4	44.2	46.3	61.6	70.1	77.7	73.0	69.6	54.3	43.5	42.2	55.3
1976	40.0	40.3	46.3	50.7	64.7	69.3	76.4	70.2	66.8	57.6	50.3	39.1	56.0
1977	38.0	46.1	42.8	56.8	55.6	74.0	76.8	76.9	66.7	59.4	49.6	42.0	57.1
1978	39.0	42.7	49.7	50.9	60.7	70.3	76.1	74.6	63.8	60.2	43.0	35.6	55.6
1979	34.8	38.7	48.2	55.1	64.0	70.4	76.5	72.6	70.3	57.9	43.6	38.9	55.9
1980	40.2	42.5	43.2	53.0	57.4	67.4	76.6	74.1	66.5	56.5	45.9	42.7	55.5
1981	39.4	44.7	46.2	56.8	63.6	75.8	77.6	76.7	70.1	53.1	46.8	42.7	57.8
1982	31.9	43.5	43.8	52.1	62.3	68.3	75.3	74.4	64.7	54.5	40.4	37.3	54.0
1983	39.7	43.1	46.2	47.9	61.0	70.0	72.5	72.6	68.4	57.3	45.0	40.6	55.4
1984	42.4	43.1	50.6	52.0	68.6	70.5	78.0	75.1	69.4	52.3	42.4	32.1	56.4
1985	38.1	41.7	44.3	57.8	62.6	74.4	78.1	73.2	61.9	54.4	41.8	38.9	55.6
1986	42.3	44.0	50.0	53.0	62.8	72.1	73.3	75.6	60.6	53.9	45.6	38.1	55.9
1987	36.7	41.1	45.8	56.9	62.2	71.6	72.7	74.9	67.9	59.5	44.9	32.4	55.6
1988	36.8	44.9	49.0	53.8	61.1	70.4	79.2	75.1	66.4	61.8	45.3	34.6	56.5
1989	35.3	38.9	51.2	60.5	63.0	71.0	78.1	72.2	66.2	54.8	46.9	40.9	56.6
1990	38.2	39.1	50.5	58.2	61.3	71.7	77.7	73.3	67.8	57.7	45.8	31.6	56.1
1991	37.3	45.8	41.9	51.6	57.8	69.1	77.2	74.5	69.3	59.6	46.1	38.6	55.7
1992	37.5	44.0	47.5	59.0	66.6	68.6	74.7	76.3	69.1	60.2	43.5	34.3	56.8
1993	30.8	37.9	50.1	55.2	64.1	68.7	75.1	73.6	66.5	57.5	42.5	36.8	54.9
1994	39.9	37.7	51.0	55.6	62.4	73.9	79.8	76.8	65.5	54.5	37.2	36.9	55.9
1995	48.3	46.5	52.5	57.7	65.3	74.5	74.5	74.6	68.9	57.6	51.1	39.7	
1996	40.5	43.5	48.4	63.7	72.4	78.8	76.4	76.4	66.1	55.1	45.1	39.8	
1997	40.1	42.4	50.1	53.9	66.3	70.4	73.9	74.2	67.1	54.6	44.6	35.4	56.1
1998	39.2	38.1	47.1	49.2	54.1	65.5	75.7	76.2	66.9	52.7	43.4	37.3	53.8
1999	40.6	41.2	47.2	49.8	62.9	70.6	75.5	72.0	67.7	59.3	47.3	40.2	56.2
2000	39.7	42.5	48.1	57.4	66.3	73.8	75.1	75.0	66.5	55.1	39.9	40.3	56.6
2001	36.8	36.2	50.5	51.6	68.4	73.4	74.6	77.1	70.0	60.6	45.1	36.4	56.7
2002	36.6	44.0	45.0	55.5	63.0	74.7	79.8	75.0	68.1	55.5	46.5	36.6	56.7
2003	44.4	41.0	49.8	50.1	63.1	73.7	80.1	75.2	70.5	61.2	40.5	36.5	57.2
POR= 77 YRS	37.3	40.8	46.9	53.9	61.5	69.8	76.1	73.5	66.8	56.8	44.8	38.9	55.6

HEATING DEGREE DAYS (base 65°F) 2003 BISHOP, CA (BIH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0	0	6	277	568	864	787	654	639	552	147	22	4516
1975-76	0	1	0	330	640	702	767	711	573	423	56	21	4224
1976-77	1	5	24	227	432	798	829	524	682	245	304	2	4073
1977-78	0	0	64	169	455	704	796	622	464	419	151	1	3845
1978-79	0	1	93	165	653	906	931	731	514	291	97	18	4400
1979-80	0	0	6	232	634	805	759	646	667	352	236	44	4381
1980-81	0	0	27	298	567	684	787	563	574	249	90	4	3843
1981-82	0	0	8	361	541	685	1021	593	649	380	111	31	4380
1982-83	3	0	109	317	735	853	775	608	574	508	201	6	4689
1983-84	0	0	45	231	594	749	693	627	440	383	44	8	3814
1984-85	0	0	31	387	668	1014	828	645	632	208	84	20	4517
1985-86	0	0	113	326	687	802	699	583	458	354	134	0	4156
1986-87	1	0	199	336	576	824	871	662	588	239	116	4	4416
1987-88	15	0	1	187	597	1003	869	578	491	330	173	41	4285
1988-89	0	0	69	106	582	933	916	723	421	157	107	7	4021
1989-90	0	0	34	305	536	742	823	719	440	205	122	8	3934
1990-91	0	8	37	227	571	1029	852	530	711	391	225	3	4584
1991-92	0	1	6	200	559	813	845	602	536	186	23	36	3807
1992-93	0	0	0	146	638	947	1056	753	454	291	62	54	4401
1993-94	0	0	55	231	669	868	773	758	426	280	136	1	4197
1994-95	0	0	40	320	828	861		464	565	366	224	83	
1995-96	0	0	18	223	411	773	751	615	508		64	8	
1996-97	0	0	41	322	591	775	766	626	455	330	38	18	3962
1997-98	0	0	23	326	606	910	795	748	550	470	330	56	4814
1998-99	0	0	45	375	641	853	748	659	542	451	102	38	4454
1999-00	0	0	15	173	529	764	778	646	514	223	70	12	3724
2000-01	0	0	47	308	748	759	867	799	440	395	46	1	4410
2001-02	0	0	0	155	590	880	874	582	613	280	119	7	4100
2002-03	0	0	32	290	544	872	630	665	465	442	154	0	4094
2003-	0	0	2	118	729	878							

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COOLING DEGREE DAYS (base 65°F) 2003 BISHOP, CA (BIH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	0	0	0	0	83	275	358	280	179	0	0	0	1175
1975	0	0	0	0	52	183	402	258	148	5	0	0	1048
1976	0	0	0	0	57	157	361	167	82	3	0	0	827
1977	0	0	0	5	18	281	373	378	120	1	0	0	1176
1978	0	0	0	0	25	167	353	309	64	25	0	0	943
1979	0	0	0	0	70	187	365	243	172	17	0	0	1054
1980	0	0	0	0	6	122	370	289	78	42	0	0	907
1981	0	0	0	9	53	334	398	371	170	0	0	0	1335
1982	0	0	0	0	35	134	331	299	106	0	0	0	905
1983	0	0	0	0	83	164	238	241	156	0	0	0	882
1984	0	0	0	0	159	177	411	320	168	0	0	0	1235
1985	0	0	0	0	17	312	417	260	27	7	0	0	1040
1986	0	0	0	0	73	220	264	334	78	0	0	0	969
1987	0	0	0	1	35	208	264	313	94	24	0	0	939
1988	0	0	0	0	60	209	447	321	117	11	0	0	1165
1989	0	0	0	29	49	197	415	231	77	0	0	0	998
1990	0	0	0	7	11	216	401	273	129	8	0	0	1045
1991	0	0	0	0	10	136	388	302	140	39	0	0	1015
1992	0	0	0	14	81	153	306	359	128	7	0	0	1048
1993	0	0	0	4	42	170	320	275	106	9	0	0	926
1994	0	0	0	5	61	276	466	374	61	1	0	0	1244
1995	0	0	0	0	5	97	300	303	142	0	0	0	
1996	0	0	0	0	31	236	437	360	82	20	0	0	
1997	0	0	0	4	85	189	282	292	91	8	0	0	951
1998	0	0	0	0	0	77	339	352	110	0	0	0	878
1999	0	0	0	1	42	212	335	224	103	3	0	0	920
2000	0	0	0	1	119	282	320	316	100	7	0	0	1145
2001	0	0	0	0	159	260	305	383	156	24	0	0	1287
2002	0	0	0	3	62	305	468	314	133	0	0	0	1285
2003	0	0	0	0	102	267	475	323	176	7	0	0	1350

SNOWFALL (inches) 2003 BISHOP, CA (BIH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1974-75	0.0	0.0	0.0	0.0	0.0	T	0.0	T	T	0.0	0.0	0.0	T
1975-76	0.0	0.0	0.0	0.0	0.1	0.0	0.0	21.0	0.4	0.0	0.0	0.0	21.5
1976-77	0.0	0.0	0.0	0.0	0.0	T	2.6	T	0.4	0.0	T	0.0	3.0
1977-78	0.0	0.0	0.0	0.0	T	4.5	0.4	1.5	T	T	0.0	0.0	6.4
1978-79	0.0	0.0	0.0	1.8	2.1	0.6	4.8	T	0.8	0.0	T	0.0	10.1
1979-80	0.0	0.0	0.0	0.0	0.0	5.5	0.8	0.0	T	1.9	0.4	0.0	8.6
1980-81	0.0	0.0	0.0	0.0	0.0	T	6.0	T	3.8	0.3	0.0	0.0	10.1
1981-82	0.0	0.0	0.0	0.0	2.1	0.0	20.7	T	4.8	0.0	0.0	0.0	27.6
1982-83	0.0	0.0	0.0	0.0	1.2	T	8.1	T	1.1	0.0	0.0	0.0	10.4
1983-84	0.0	0.0	0.0	0.0	1.0	0.0	T	T	0.0	0.0	0.0	0.0	1.0
1984-85	0.0	0.0	0.0	0.0	1.5	7.9	T	T	0.5	0.0	0.0	0.0	9.9
1985-86	0.0	0.0	0.0	0.0	0.6	1.3	0.0	T	T	0.0	0.0	0.0	1.9
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.5	0.0	0.0	T	0.0	1.4
1987-88	0.0	0.0	0.0	0.0	0.0	5.2	8.9	0.0	0.0	0.0	0.4	0.0	14.5
1988-89						0.0	0.0	0.7	0.0	0.0	0.0	0.0	
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.1	T	0.0	0.0	0.0	0.0	0.1
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
1991-92	0.0	0.0	0.0	0.0	0.0			0.2		0.0	0.0	0.0	
1992-93	0.0	0.0	0.0	0.0	0.0	1.0	15.8	8.3	0.0	0.0	0.0	0.0	25.1
1993-94	0.0	0.0	0.0	0.0	T	0.0	0.4		0.2	T	0.0	0.0	
1994-95	0.0	0.0	0.0	0.0	T	T	5.9	0.0	T	T	0.0	0.0	5.9
1995-96	0.0	0.0	0.0		0.0								
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-													
POR= 47 YRS	0.0	0.0	T	0.0	0.3	1.3	3.9	1.5	0.7	0.3	0.1	0.0	8.1

WBAN : 23157

REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS (OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS (OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2003
BISHOP,
CALIFORNIA (BIH)

The station at Bishop is located at the Municipal Airport 2 1/2 miles east of the town, 1 mile west of the Owens River, on the floor of the Owens Valley, which is orientated northwest to southeast and at this point is 12 miles wide, level, and semi-arid. Peaks of the 12,000 to 14,000 feet Sierra Nevadas are 25 miles west, and the 12,000 to 14,000 feet White Mountains are 10 miles east. The northern end of the valley is partly cut off by 6,000 to 8,000 feet mountains about 45 miles distant. The southern end of the valley makes a gradual descent to the Mojave Desert about 150 miles distant.

During the summer and autumn, the Mojave Desert causes an early morning and late evening northerly wind. Conversely, in the heat of the afternoon, it causes a southerly wind that is occasionally strong. Summer skies are mostly clear with thunderstorms from May through August. The days are hot and dry, the nights cool.

Winter and spring, although seasons of adverse weather, are quite mild. The skies are partly cloudy with the years greatest amounts of precipitation falling during the months of November through April. At times, strong northerly winds blow, especially in the spring during the months of February, March, and April. East and west winds frequently give pronounced foehn effects and turbulence.

During the winter and spring, strong westerly winds aloft, flowing over the Sierra Nevadas, create the Sierra Wave, known to sailplane pilots the world over.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 13 and the average last occurrence in the spring is May 7.

STATION LOCATION

BISHOP, CALIFORNIA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING * EQUIPMENT	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						GROUND											
						SEA LEVEL	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE GAUGE	8 INCH RAIN GAUGE	HYGROMETER		
*NOTES:																	
<u>AIRPORT</u>																	
Base Operations Bldg. Bishop Air Base	3/28/44	10/18/45	1.6 mi. E	37°22'	118°22'	4108	44	4	4					3			
Ray Residence 1-1/2 miles W of P.O.	10/18/45	5/4/46	3.1 mi. W	37°22'	118°28'		19	5	4					4			
150 Johnson Drive 1/2 mile E of P.O.	5/4/46	3/9/47	2 mi. E	37°22'	118°26'	4119	21	4	4					3			
Base Operations Bldg. Bishop Airport	3/9/47	5/22/79	1.6 mi. ENE	37°22'	118°22'	4108	40	4	4			a3		4		a. Installed 1/6/54. b. Raised 1/1/56. c. Lowered 2/15/66.	
NWS Building Bishop Airport	5/22/79	05/01/94	360 ft. WSW	37°22'	118°22'	4110	d20	5	4			5	4	e5		d. Not moved 5/22/79. e. Minor move 9/15/79.	
Bishop Airport	05/01/94	Present	NA	37°22'	118°22'	f4109									S	f. ASOS Commissioned 05/01/94 f. Ground elevation	

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* NOTES: For earlier station history see previous edition.