



# JULY 1998

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# BISHOP, CA

BISHOP AIRPORT (BIH)  
 Lat: 37°22' N Long: 118°21' W Elev (Ground): 4110 Feet  
 Time Zone: PACIFIC WBAN: 23157 ISSN #: 0198-070X

DATE	TEMPERATURE °F							DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE		
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING	0400 LST		1000 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM								
																			5-SEC		2-MIN						
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	98	47	73	-2	37	55	0	8					0.00	25.71	29.77	3.3	20	7.6	18	17	15	16	01				
02	97	50	74	-1	39	56	0	9					0.00	25.61	29.66	4.4	17	8.0	29	14	23	16	02				
03	93	47	70	-5	36	54	0	5					0.00	25.65	29.71	6.9	16	9.0	26	15	21	15	03				
04	93	48	71	-5	34	53	0	6					0.00	25.70	29.77	7.6	16	10.8	29	15	22	14	04				
05	94	46	70	-6	32	52	0	5					0.00	25.77	29.85	7.6	16	10.8	29	14	22	15	05				
06	94	45*	70*	-6	32	52	0	5					0.00	25.87	29.97	2.8	21	7.0	23	18	17	16	06				
07	95	52	74	-2	41	56	0	9					0.00	25.87	29.96	2.5	30	5.6	18	18	13	19	07				
08	98	54	76	0	42	58	0	11					0.00	25.81	29.88	3.0	20	7.3	24	16	21	17	08				
09	97	54	76	0	44	58	0	11					0.00	25.74	29.81	3.4	17	9.2	31	17	25	17	09				
10	97	52	75	-2	37	55	0	10					0.00	25.77	29.85	2.3	22	8.4	24	16	18	16	10				
11	98	47	73	-4	34	54	0	8					0.00	25.83	29.91	0.9	31	5.2	18	20	13	19	11				
12	101	51	76	-1	37	56	0	11					0.00	25.83	29.90	4.4	17	7.3	24	17	21	16	12				
13	100	51	76	-1	38	56	0	11					0.00	25.79	29.86	2.5	33	5.5	20	35	14	27	13				
14	100	49	75	-2	38	56	0	10					0.00	25.81	29.88	3.4	29	5.1	13	27	11	26	14				
15	102	56	79	2	41	58	0	14					0.00	25.84	29.91	2.7	28	5.4	18	18	13	19	15				
16	106	55	81	4	41	58	0	16					0.00	25.85	29.92	2.6	22	6.9	23	16	18	17	16				
17	106	58	82	5	42	59	0	17					0.00	25.82	29.88	4.6	31	6.3	22	24	17	25	17				
18	107*	57	82	5	43	60	0	17					0.00	25.78	29.83	4.0	33	6.6	23	28	18	28	18				
19	105	61	83	6	44	60	0	18					0.00	25.78	29.83	3.2	29	5.4	21	24	17	25	19				
20	100	65	83*	6	51	63	0	18	RA			T	25.82	29.88	7.2	15	11.7	34	15	29*	15	20					
21	95	62	79	2	55	64	0	14	RA			T	25.83	29.90	1.1	12	8.7	30	34	26	33	21					
22	82	66	74	-4	58	64	0	9					0.00	25.82	29.90			6.8	30	16	25	17	22				
23	93	60	77	-1	57	64	0	12	RA				0.01	25.80	29.89	0.8	27	5.1	25	33	20	10	23				
24	93	57	75	-3	54	62	0	10					0.00	25.84	29.94	1.6	32	7.9	33	34	26	33	24				
25	97	54	76	-1	43	58	0	11					0.00	25.90	30.00	4.2	31	6.3	20	02	16	01	25				
26	99	53	76	-1	39	57	0	11					0.00	25.95	30.05	4.2	30	6.3	24	24	20	24	26				
27	99	58	79	2	40	58	0	14					0.00	25.90	29.98	4.1	30	6.3	16	33	13	33	27				
28	101	59	80	3	42	58	0	15	RA				T	25.83	29.89	2.0	34	5.7	34*	03	26	02	28				
29	99	54	77	0	37	56	0	12					0.00	25.74	29.80	2.1	23	9.2	28	15	21	15	29				
30	93	49	71	-6	32	53	0	6					0.00	25.68	29.75	1.8	25	8.6	24	15	21	15	30				
31	91	51	71	-6	29	51	0	6					0.00	25.79	29.88	2.9	29	6.8	22	35	16	35	31				
< MONTHLY AVERAGES											TOTALS-->				0.01	25.80	29.87			7.3	-- MONTHLY AVERAGES						
0.3				-2.3				-1.0				<----- DEPARTURE FROM NORMAL ----->				-.22				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.01 DATE: 23				SEA LEVEL PRESSURE DATE TIME													
MONTHLY TOTAL DEPARTURE					SEASON TO DATE TOTAL DEPARTURE					GREATEST 24-HR SNOWFALL: DATE:				MAXIMUM : 30.11 26 0738													
HEATING: 0 0					0 0					GREATEST SNOW DEPTH: DATE:				MINIMUM : 29.59 02 1903													
COOLING: 339 -24					416 -206					NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 30		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 1											
										MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 0													
										THUNDERSTORMS : 0		HEAVY FOG : 0		SNOWFALL ≥ 1.0 INCH :													

JULY 1998  
BISHOP, CA

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# BISHOP, CA

JULY 1998

BIH

WBAN # 23157

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		T		
21													21												21		T		
22													22												22		0.00		
23													23												23		0.01		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		T		
29													29												29		0.00		
30													30												30		0.00		
31													31												31		0.00		

## MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

# REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

\* = Extreme for the month (last occurrence if more than one)

T = Trace precipitation amount

+ = also occurs on earlier date

FG+ = Heavy fog, visibility .25 miles or less

BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1961 – 1990

## WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PE Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):

'+' = Heavy    '' = Moderate    '-' = Light

# BISHOP, CA JULY 1998

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled at constant pressure by evaporation of moisture into it, to 100% relative humidity.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES AND CORRECTIONS:  
Sunrise and sunset times listed in the March and April 1998 LCD were incorrect and should not be used.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							8.00	10.00	
06							10.00	10.00	
07							9.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							8.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
<b>MONTHLY AVGS</b>							9.84	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25   <=3.0   >=7.0 0            0            31									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# BISHOP, CA

JULY 1998

BIH

WBAN # 23157

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)	
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB
SUNRISE: 0436				JUL 01				SUNSET: 1918				SUNRISE: 0439				JUL 07				SUNSET: 1917					
01	CLR	NC		10.00	59	33	46	38	5	31	25.77	29.84	01	CLR	NC		10.00	56	39	47	53	5	36	25.90	30.01
04	CLR	NC		10.00	53	35	44	51	7	30	25.78	29.86	04	CLR	NC		10.00	54	39	46	57	7	35	25.91	30.02
07	CLR	NC		10.00	71	39	54	31	8	30	25.80	29.87	07	CLR	NC		10.00	71	41	55	34	7	35	25.95	30.05
10	CLR	NC		10.00	86	34	58	16	6	VR	25.75	29.82	10	CLR	NC		10.00	86	40	60	20	6	02	25.92	30.01
13	CLR	NC		10.00	95	38	62	14	10	17	25.69	29.75	13	CLR	NC		10.00	93	39	62	15	7	21	25.87	29.96
16	CLR	NC		10.00	97	39	63	13	10	19	25.63	29.69	16	CLR	NC		10.00	94	39	62	15	7	VR	25.80	29.89
19	CLR	NC		10.00	87	40	60	19	10	16	25.61	29.65	19	CLR	NC		10.00	86	44	61	23	6	18	25.79	29.85
22	CLR	NC		10.00	78	35	55	21	3	VR	25.65	29.68	22	CLR	NC		10.00	71	46	57	41	3	34	25.84	29.92
SUNRISE: 0437				JUL 02				SUNSET: 1918				SUNRISE: 0440				JUL 08				SUNSET: 1917					
01	CLR	NC		10.00	59	43	50	56	5	34	25.66	29.71	01	CLR	NC		10.00	63	48	55	58	7	29	25.85	29.93
04	CLR	NC		10.00	58	38	48	48	5	34	25.66	29.71	04	CLR	NC		10.00	56	46	51	70	5	33	25.86	29.95
07	CLR	NC		10.00	68	40	53	36	3	32	25.67	29.72	07	CLR	NC		10.00	70	49	58	47	3	VR	25.88	29.97
10	CLR	NC		10.00	86	38	59	18	9	16	25.64	29.67	10	CLR	NC		10.00	87	46	62	24	5	10	25.84	29.92
13	CLR	NC		10.00	95	38	62	14	18	16	25.58	29.62	13	CLR	NC		10.00	95	40	63	15	14	22	25.79	29.86
16	CLR	NC		10.00	94	39	62	15	13	14	25.55	29.59	16	CLR	NC		10.00	96	40	63	14	12	16	25.73	29.80
19	CLR	NC		10.00	85	42	60	22	5	16	25.56	29.59	19	CLR	NC		10.00	86	36	58	17	9	16	25.73	29.79
22	CLR	NC		10.00	72	35	53	26	9	21	25.62	29.66	22	CLR	NC		10.00	70	37	53	30	5	05	25.78	29.85
SUNRISE: 0437				JUL 03				SUNSET: 1918				SUNRISE: 0441				JUL 09				SUNSET: 1916					
01	CLR	NC		10.00	59	38	48	46	3	06	25.64	29.68	01	CLR	NC		10.00	59	45	51	60	7	34	25.79	29.87
04	CLR	NC		10.00	53	38	46	57	6	31	25.66	29.73	04	CLR	NC		10.00	55	44	49	67	7	32	25.79	29.87
07	CLR	NC		10.00	66	37	51	34	0	00	25.70	29.76	07	CLR	NC		10.00	69	47	56	45	3	VR	25.80	29.87
10	CLR	NC		10.00	80	37	56	21	5	17	25.68	29.75	10	CLR	NC		10.00	88	41	61	19	16	15	25.77	29.83
13	CLR	NC		10.00	91	35	60	14	18	17	25.63	29.69	13	CLR	NC		10.00	96	39	63	14	15	15	25.71	29.77
16	CLR	NC		10.00	91	36	60	14	15	15	25.60	29.67	16	CLR	NC		10.00	95	40	63	15	17	16	25.66	29.72
19	CLR	NC		10.00	82	32	55	16	14	15	25.61	29.67	19	CLR	NC		10.00	85	46	62	26	6	VR	25.66	29.72
22	CLR	NC		10.00	72	34	52	25	8	18	25.66	29.72	22	CLR	NC		10.00	77	47	59	35	7	VR	25.74	29.80
SUNRISE: 0438				JUL 04				SUNSET: 1917				SUNRISE: 0441				JUL 10				SUNSET: 1916					
01	CLR	NC		10.00	61	37	49	41	6	34	25.68	29.74	01	CLR	NC		10.00	62	46	53	56	3	31	25.76	29.83
04	CLR	NC		10.00	51	37	44	59	3	34	25.71	29.79	04	CLR	NC		10.00	57	43	50	60	6	31	25.78	29.85
07	CLR	NC		10.00	65	40	52	40	3	31	25.73	29.81	07	CLR	NC		10.00	67	45	55	45	6	03	25.81	29.90
10	CLR	NC		10.00	83	33	56	17	17	16	25.73	29.79	10	CLR	NC		10.00	85	39	59	20	8	16	25.79	29.85
13	CLR	NC		10.00	90	34	59	14	15	17	25.69	29.75	13	CLR	NC		10.00	95	38	62	14	15	16	25.75	29.82
16	CLR	NC		10.00	91	36	60	14	12	18	25.66	29.73	16	CLR	NC		10.00	95	36	61	13	14	22	25.74	29.81
19	CLR	NC		10.00	81	31	55	16	13	14	25.66	29.73	19	CLR	NC		10.00	85	28	55	13	15	23	25.74	29.82
22	CLR	NC		10.00	77	25	51	14	16	15	25.71	29.76	22	CLR	NC		10.00	71	31	51	23	9	36	25.81	29.88
SUNRISE: 0438				JUL 05				SUNSET: 1917				SUNRISE: 0442				JUL 11				SUNSET: 1916					
01	CLR	NC		9.00	59	29	45	32	6	01	25.73	29.81	01	CLR	NC		10.00	57	30	44	36	5	03	25.81	29.91
04	CLR	NC		8.00	53	34	44	49	3	32	25.77	29.86	04	CLR	NC		10.00	54	26	42	34	7	32	25.83	29.92
07	CLR	NC		10.00	64	35	49	34	0	00	25.81	29.90	07	CLR	NC		10.00	66	34	50	31	3	02	25.87	29.96
10	CLR	NC		10.00	84	33	57	16	13	16	25.80	29.86	10	CLR	NC		10.00	85	31	56	14	3	34	25.85	29.94
13	CLR	NC		10.00	92	35	60	13	18	18	25.75	29.83	13	CLR	NC		10.00	95	37	62	13	8	16	25.81	29.90
16	CLR	NC		10.00	93	36	61	13	18	16	25.73	29.81	16	CLR	NC		10.00	96	40	63	14	6	VR	25.78	29.86
19	CLR	NC		10.00	82	29	55	14	14	13	25.74	29.83	19	CLR	NC		10.00	87	40	60	19	3	19	25.78	29.85
22	CLR	NC		10.00	76	24	51	14	14	14	25.81	29.88	22	CLR	NC		10.00	72	37	53	28	10	30	25.83	29.91
SUNRISE: 0439				JUL 06				SUNSET: 1917				SUNRISE: 0442				JUL 12				SUNSET: 1915					
01	CLR	NC		10.00	58	27	44	31	8	33	25.85	29.94	01	CLR	NC		10.00	60	37	48	42	0	00	25.86	29.95
04	CLR	NC		10.00	51	28	41	41	7	31	25.88	29.98	04	CLR	NC		10.00	53	38	46	57	5	32	25.88	29.97
07	CLR	NC		10.00	64	31	48	29	6	32	25.92	30.03	07	CLR	NC		10.00	71	35	52	27	5	33	25.89	29.98
10	CLR	NC		10.00	81	30	55	16	5	23	25.91	30.01	10	CLR	NC		10.00	89	37	60	16	0	00	25.87	29.94
13	CLR	NC		10.00	92	34	60	13	12	20	25.87	29.97	13	CLR	NC		10.00	99	39	64	13	18	16	25.81	29.89
16	CLR	NC		10.00	92	35	60	13	8	21	25.81	29.91	16	CLR	NC		10.00	101	43	65	14	15	18	25.76	29.84
19	CLR	NC		10.00	83	33	56	17	8	17	25.81	29.90	19	CLR	NC		10.00	89	35	59	15	13	14	25.75	29.82
22	CLR	NC		10.00	74	32	52	21	7	24	25.88	29.96	22	CLR	NC		10.00	72	32	52	23	3	18	25.81	29.87

# OBSERVATIONS AT 3-HOURLY INTERVALS

# BISHOP, CA

JULY 1998

BIH

WBAN # 23157

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Okta		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Okta	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<b>SUNRISE: 0443 JUL 13 SUNSET: 1915</b>						<b>SUNRISE: 0447 JUL 19 SUNSET: 1912</b>																							
01	CLR	NC			10.00	62	37	49	40	0	00	25.81	29.87	01	CLR	NC			10.00	75	38	55	26	8	29	25.78	29.81		
04	CLR	NC			10.00	53	34	44	49	0	00	25.81	29.90	04	CLR	NC			10.00	62	41	51	46	8	34	25.80	29.85		
07	CLR	NC			10.00	69	39	53	33	6	33	25.84	29.92	07	CLR	NC			10.00	74	45	57	36	0	00	25.84	29.91		
10	CLR	NC			10.00	88	36	59	16	0	00	25.81	29.89	10	CLR	NC			10.00	95	42	63	16	5	30	25.81	29.86		
13	CLR	NC			10.00	96	40	63	14	6	17	25.77	29.84	13	CLR	NC			10.00	102	47	67	15	6	VR	25.78	29.81		
16	CLR	NC			10.00	98	42	64	15	6	VR	25.73	29.80	16	CLR	NC			10.00	101	45	66	15	5	20	25.73	29.78		
19	CLR	NC			10.00	86	40	60	20	10	35	25.73	29.79	19	CLR	NC			10.00	93	45	64	19	5	29	25.73	29.78		
22	CLR	NC			10.00	74	35	53	24	8	32	25.78	29.84	22	CLR	NC			10.00	76	46	59	35	5	17	25.79	29.83		
<b>SUNRISE: 0444 JUL 14 SUNSET: 1914</b>						<b>SUNRISE: 0448 JUL 20 SUNSET: 1911</b>																							
01	CLR	NC			10.00	67	32	49	27	9	31	25.81	29.87	01	CLR	NC			10.00	70	49	58	47	3	03	25.80	29.85		
04	CLR	NC			10.00	53	35	44	51	3	VR	25.82	29.91	04	CLR	NC			10.00	66	47	55	50	6	11	25.81	29.86		
07	CLR	NC			10.00	70	34	51	27	6	33	25.85	29.94	07	CLR	NC			10.00	83	51	63	33	22	14	25.87	29.92		
10	CLR	NC			10.00	88	34	58	15	6	25	25.84	29.91	10	CLR	NC			10.00	90	50	65	25	21	17	25.84	29.91		
13	CLR	NC			10.00	97	40	63	14	7	26	25.81	29.87	13	CLR	NC			10.00	97	50	67	20	20	16	25.79	29.84		
16	CLR	NC			10.00	98	41	64	14	0	00	25.76	29.84	16	CLR	NC			10.00	91	51	66	26	21	16	25.75	29.82		
19	CLR	NC			10.00	91	39	61	16	12	30	25.76	29.82	19	CLR	NC			10.00	83	54	65	37	10	03	25.81	29.88		
22	CLR	NC			10.00	77	42	57	29	8	27	25.82	29.89	22	CLR	NC			10.00	79	56	64	45	3	36	25.84	29.91		
<b>SUNRISE: 0444 JUL 15 SUNSET: 1914</b>						<b>SUNRISE: 0449 JUL 21 SUNSET: 1911</b>																							
01	CLR	NC			10.00	66	42	53	42	8	31	25.84	29.91	01	CLR	NC			10.00	79	53	63	41	6	20	25.84	29.88		
04	CLR	NC			10.00	59	37	48	44	8	30	25.88	29.96	04	CLR	NC			10.00	65	53	58	66	5	16	25.84	29.93		
07	CLR	NC			10.00	74	39	55	28	8	30	25.90	29.98	07	CLR	NC			10.00	71	56	62	59	3	07	25.88	29.98		
10	CLR	NC			10.00	89	38	60	16	0	00	25.88	29.95	10	CLR	NC			10.00	82	56	65	41	14	15	25.88	29.96		
13	CLR	NC			10.00	100	44	66	15	7	16	25.83	29.90	13	CLR	NC			10.00	88	52	65	29	15	17	25.81	29.88		
16	CLR	NC			10.00	101	45	66	15	8	22	25.79	29.85	16	CLR	NC			10.00	93	53	67	26	0	00	25.76	29.83		
19	CLR	NC			10.00	89	43	62	20	6	13	25.78	29.84	19	CLR	NC			10.00	83	54	65	37	12	36	25.79	29.86		
22	CLR	NC			10.00	71	41	55	34	5	33	25.82	29.90	22	FEW	NC			10.00	73	57	63	57	6	05	25.82	29.90		
<b>SUNRISE: 0445 JUL 16 SUNSET: 1913</b>						<b>SUNRISE: 0450 JUL 22 SUNSET: 1910</b>																							
01	CLR	NC			10.00	61	41	50	48	8	30	25.86	29.93	01	CLR	NC			10.00	76	57	64	52	18	17	25.82	29.88		
04	CLR	NC			10.00	57	37	47	47	6	32	25.87	29.96	04	CLR	NC			10.00	73	55	62	53	8	19	25.81	29.87		
07	CLR	NC			10.00	76	38	55	25	7	32	25.90	29.98	07	CLR	NC			10.00	72	57	63	60			25.83	29.91		
10	CLR	NC			10.00	94	40	62	15	0	00	25.88	29.96	10	BKN	110			10.00	78	58	65	50			25.84	29.93		
13	CLR	NC			10.00	104	45	67	13	12	16	25.83	29.90	13	OVC	100			10.00	81	58	66	46	8	28	25.82	29.90		
16	CLR	NC			10.00	104	45	67	13	10	20	25.80	29.86	16	SCT	NC			10.00	78	59	66	52	13	18	25.80	29.88		
19	CLR	NC			10.00	91	39	61	16	7	18	25.79	29.84	19	OVC	120			10.00	77	59	65	54	3	21	25.79	29.88		
22	CLR	NC			10.00	70	39	53	32	5	02	25.84	29.91	22	OVC	085			10.00	73	61	65	66	6	27	25.81	29.90		
<b>SUNRISE: 0446 JUL 17 SUNSET: 1913</b>						<b>SUNRISE: 0450 JUL 23 SUNSET: 1909</b>																							
01	CLR	NC			10.00	65	38	51	37	7	33	25.86	29.92	01	OVC	110			10.00	72	60	64	66	5	29	25.80	29.88		
04	CLR	NC			10.00	60	37	48	42	8	31	25.87	29.94	04	CLR	NC			10.00	61	57	59	87	0	00	25.80	29.90		
07	CLR	NC			10.00	75	41	56	30	6	35	25.88	29.96	07	CLR	NC			10.00	69	58	62	68	3	26	25.83	29.93		
10	CLR	NC			8.00	95	42	63	16	0	00	25.86	29.93	10	CLR	NC			10.00	84	54	65	36	5	10	25.81	29.88		
13	CLR	NC			10.00	103	47	67	15	6	VR	25.81	29.87	13	CLR	NC			10.00	91	53	67	28	13	20	25.74	29.80		
16	CLR	NC			10.00	105	48	68	15	12	28	25.76	29.82	16	OVC	100			10.00	-RA	73	61	65	66	14	11	25.77	29.88	
19	CLR	NC			10.00	95	41	63	15	10	28	25.75	29.80	19	BKN	090			10.00	74	57	63	56	8	36	25.82	29.93		
22	CLR	NC			10.00	79	38	56	23	5	32	25.80	29.85	22	BKN	110			10.00	69	58	62	68	0	00	25.84	29.93		
<b>SUNRISE: 0447 JUL 18 SUNSET: 1912</b>						<b>SUNRISE: 0451 JUL 24 SUNSET: 1908</b>																							
01	CLR	NC			10.00	63	43	52	48	6	03	25.82	29.89	01	CLR	NC			10.00	63	57	59	81	6	34	25.83	29.92		
04	CLR	NC			10.00	59	40	49	49	7	02	25.81	29.88	04	CLR	NC			10.00	61	56	58	84	6	30	25.83	29.95		
07	CLR	NC			10.00	76	40	56	27	3	36	25.83	29.88	07	SCT	NC			10.00	70	56	61	61	6	31	25.87	29.98		
10	CLR	NC			10.00	95	41	63	15	5	VR	25.81	29.86	10	CLR	NC			10.00	82	55	65	40	7	11	25.86	29.95		
13	CLR	NC			10.00	105	49	69	15	5	07	25.76	29.81	13	CLR	NC			10.00	90	54	67	29	14	14	25.81	29.88		
16	CLR	NC			10.00	106	48	69	14	15	27	25.72	29.77	16	CLR	NC			10.00	87	49	64	27	8	33	25.78	29.87		
19	CLR	NC			10.00	89	45	63	22	8	04	25.71	29.76	19	CLR	NC			10.00	75	52	61	45	15	33	25.83	29.93		
22	CLR	NC			10.00	82	41	59	23	12	34	25.75	29.78	22	CLR	NC			10.00	69	52	59	55	5	24	25.89	29.99		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# BISHOP, CA

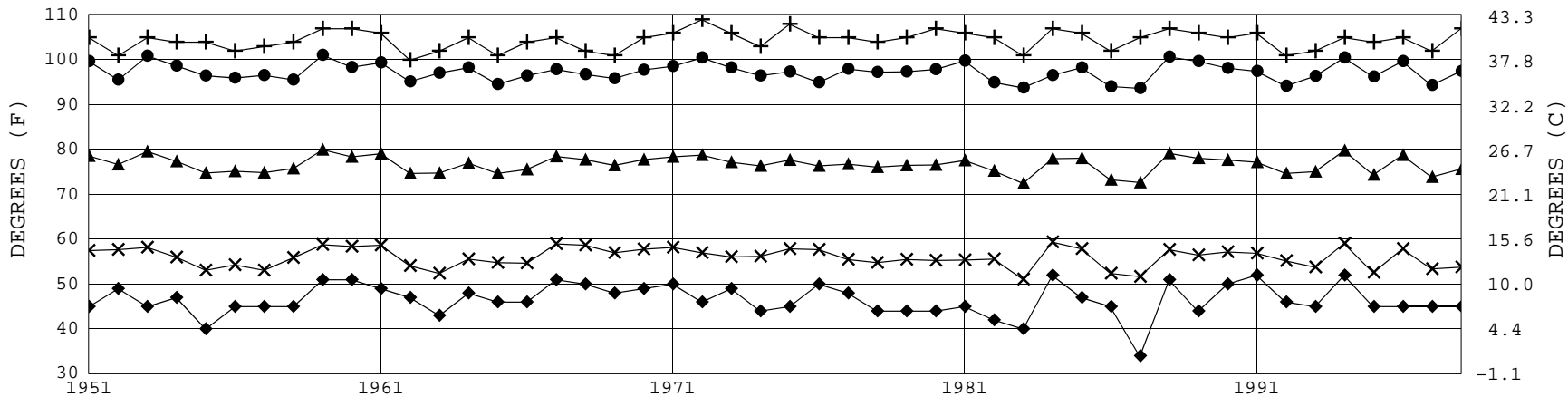
JULY 1998

BIH

WBAN # 23157

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL									
SUNRISE: 0452						JUL 25	SUNSET: 1908						SUNRISE: 0457						JUL 31	SUNSET: 1903									
01	CLR	NC			10.00		62	53	57	73	5	32	25.90	30.00	01	CLR	NC			10.00		64	29	47	27	7	31	25.73	29.80
04	CLR	NC			10.00		56	50	53	81	5	30	25.90	30.02	04	CLR	NC			10.00		58	32	45	38	8	26	25.76	29.84
07	CLR	NC			10.00		68	50	58	53	5	32	25.94	30.06	07	CLR	NC			10.00		66	35	50	32	8	29	25.81	29.91
10	CLR	NC			10.00		83	49	62	31	7	29	25.92	30.03	10	CLR	NC			10.00		79	31	54	17	3	VR	25.81	29.91
13	CLR	NC			10.00		93	42	63	17	8	22	25.88	29.98	13	CLR	NC			10.00		88	22	55	9	7	18	25.79	29.87
16	CLR	NC			10.00		96	34	61	11	8	35	25.85	29.95	16	CLR	NC			10.00		89	23	56	9	5	VR	25.74	29.83
19	CLR	NC			10.00		87	31	57	13	10	26	25.87	29.95	19	CLR	NC			10.00		83	28	55	13	12	32	25.76	29.84
22	CLR	NC			10.00		74	35	53	24	7	34	25.93	30.03	22	CLR	NC			10.00		71	33	52	25	6	31	25.86	29.96
SUNRISE: 0453						JUL 26	SUNSET: 1907						3-HOURLY OBSERVATION NOTES																
Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.																													
01	CLR	NC			10.00		65	37	51	36	3	29	25.96	30.06															
04	CLR	NC			10.00		57	39	48	51	7	30	25.97	30.08															
07	CLR	NC			10.00		73	42	56	33	5	32	26.00	30.10															
10	CLR	NC			10.00		89	39	60	17	0	00	25.97	30.07															
13	CLR	NC			10.00		97	33	61	11	8	25	25.92	30.01															
16	CLR	NC			10.00		92	38	61	15	7	34	25.90	30.00															
19	CLR	NC			10.00		86	43	61	22	7	32	25.90	29.99															
22	CLR	NC			10.00		77	42	57	29	0	00	25.96	30.05															
SUNRISE: 0453						JUL 27	SUNSET: 1906																						
01	CLR	NC			10.00		68	43	54	41	6	34	25.96	30.06															
04	CLR	NC			10.00		63	43	52	48	6	30	25.97	30.07															
07	CLR	NC			10.00		73	44	57	36	0	00	25.98	30.09															
10	CLR	NC			10.00		89	44	62	21	5	27	25.95	30.03															
13	CLR	NC			10.00		97	37	62	12	7	22	25.88	29.96															
16	CLR	NC			10.00		98	34	62	11	5	VR	25.82	29.89															
19	CLR	NC			10.00		91	35	60	14	10	28	25.81	29.88															
22	CLR	NC			10.00		81	36	56	20	10	34	25.87	29.93															
SUNRISE: 0454						JUL 28	SUNSET: 1905																						
01	CLR	NC			10.00		74	42	56	32	3	32	25.88	29.94															
04	CLR	NC			10.00		63	41	51	45	3	06	25.88	29.95															
07	CLR	NC			10.00		74	46	58	37	7	30	25.89	29.97															
10	CLR	NC			10.00		91	41	62	17	5	35	25.87	29.93															
13	CLR	NC			10.00		100	38	64	12	8	06	25.80	29.84															
16	FEW	NC			10.00	-RA	92	42	62	18	9	12	25.77	29.84															
19	CLR	NC			10.00		85	46	62	26	10	27	25.77	29.84															
22	CLR	NC			10.00		73	42	56	33	6	30	25.80	29.86															
SUNRISE: 0455						JUL 29	SUNSET: 1904																						
01	CLR	NC			10.00		63	42	52	47	0	00	25.80	29.86															
04	CLR	NC			10.00		57	42	49	58	3	34	25.80	29.88															
07	CLR	NC			10.00		70	43	55	38	3	35	25.81	29.88															
10	CLR	NC			10.00		89	42	61	19	9	18	25.77	29.84															
13	CLR	NC			10.00		98	32	61	10	18	13	25.71	29.76															
16	CLR	NC			10.00		97	27	59	8	16	23	25.66	29.72															
19	CLR	NC			10.00		87	25	55	10	14	27	25.66	29.70															
22	CLR	NC			10.00		72	40	54	31	12	35	25.70	29.75															
SUNRISE: 0456						JUL 30	SUNSET: 1904																						
01	CLR	NC			10.00		63	40	51	43	7	30	25.70	29.75															
04	CLR	NC			10.00		57	40	48	53	5	27	25.71	29.77															
07	CLR	NC			10.00		64	39	51	40	5	33	25.73	29.80															
10	CLR	NC			10.00		84	29	55	13	15	15	25.71	29.77															
13	CLR	NC			10.00		92	23	57	8	16	16	25.66	29.72															
16	CLR	NC			10.00		91	22	56	8	8	22	25.63	29.70															
19	CLR	NC			10.00		81	21	52	11	12	27	25.62	29.69															
22	CLR	NC			10.00		68	37	52	32	8	33	25.68	29.75															

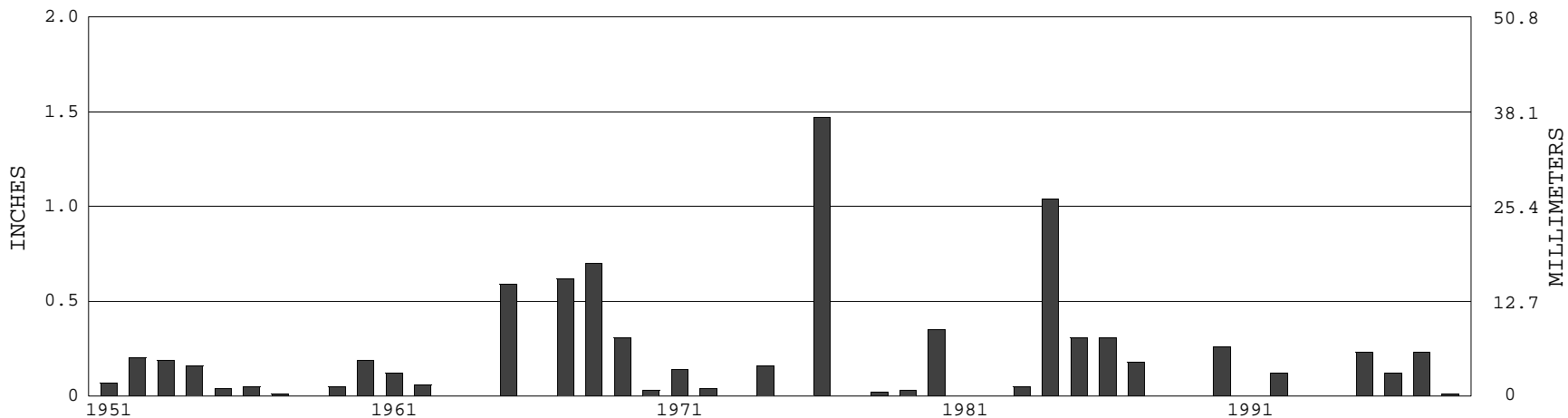
### BISHOP, CA JULY TEMPERATURES



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

Long-Term (1951-1998) Mean: 76.7      1961-1990 Normal: 76.7

### BISHOP, CA JULY PRECIPITATION



Long-Term (1951-1998) Mean Monthly Total: 0.18

1961-1990 Normal: 0.23



**JULY 1998  
BISHOP, CA**

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.*

DIRECTOR

## NOTICE

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

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