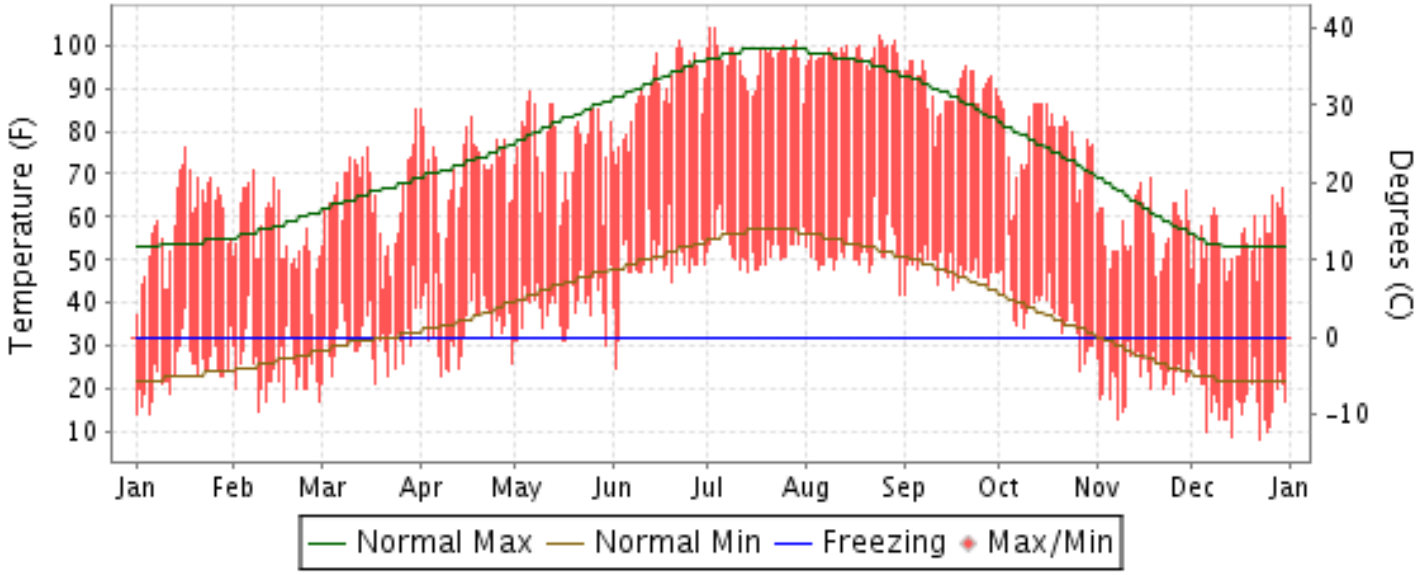
2011
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

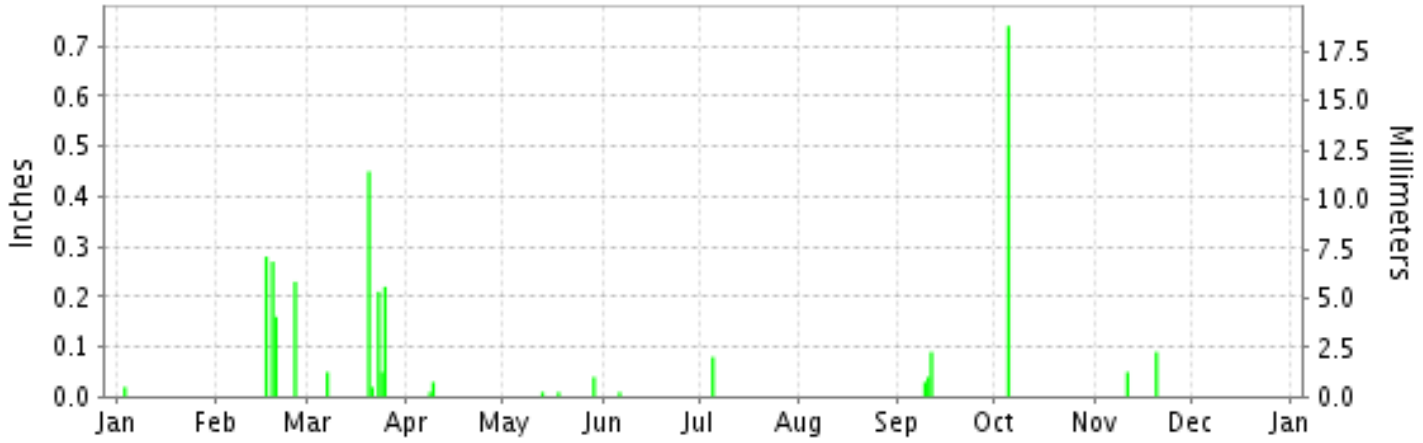
ISSN 0198-0866

BISHOP,
CALIFORNIA (KBIH)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure

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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

METEOROLOGICAL DATA FOR 2011
BISHOP (KBIH)

LATITUDE: 37° 22'N **LONGITUDE:** -118° 21'W **ELEVATION (FT):** GRND: 4102 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	58.6	56.1	64.6	71.0	76.9	88.7	96.7	97.9	90.2	77.7	57.7	55.1	74.3
	HIGHEST DAILY MAXIMUM	76	71	85	85	89	101	104	102	96	88	69	67	104
	DATE OF OCCURRENCE	17	07	31	01	06	22	03+	24	07+	01	18	30	JUL 03+
	MEAN DAILY MINIMUM	24.5	24.8	31.2	34.6	39.1	48.9	52.9	52.0	47.9	37.9	23.3	17.4	36.2
	LOWEST DAILY MINIMUM	14	15	21	23	30	25	47	42	42	24	13	8	8
	DATE OF OCCURRENCE	05+	09	18+	08	30	02	14	31	01	27	08	23	DEC 23
	AVERAGE DRY BULB	41.6	40.5	47.9	52.8	58.0	68.8	74.8	75.0	69.1	57.8	40.5	36.3	55.3
	MEAN WET BULB	31.8	31.2	37.5	40.1	43.7	50.7	55.6	54.2	51.9	43.5	32.5	25.8	41.5
	MEAN DEW POINT	18.9	15.8	22.3	20.6	24.7	30.6	36.8	33.7	35.2	27.4	20.3	7.6	24.5
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 90°	0	0	0	0	0	15	27	31	19	0	0	0	92
	MAXIMUM <= 32°	1	0	0	0	0	0	0	0	0	0	0	0	1
	MINIMUM <= 32°	28	25	19	13	5	2	0	0	0	5	30	31	158
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0
H/C	HEATING DEGREE DAYS	720	681	522	358	211	39	0	0	3	223	729	882	4368
	COOLING DEGREE DAYS	0	0	0	0	2	160	311	317	133	6	0	0	929
RH	MEAN (PERCENT)	49	43	43	32	31	26	29	26	33	38	52	37	37
	HOUR 04 LST	68	60	67	57	56	50	56	51	56	58	72	53	59
	HOUR 10 LST	31	29	29	19	18	15	16	14	19	22	35	23	23
	HOUR 16 LST	32	26	23	17	18	13	16	11	18	21	37	23	21
	HOUR 22 LST	61	52	48	37	38	31	34	30	41	49	63	45	44
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	0	0
	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.)	25.93	25.81	25.75	25.72	25.68	25.68	25.72	25.75	25.83	25.82	25.84	25.95	25.79
	MEAN SEA-LEVEL PRESS. (IN.)	30.16	30.02	29.93	29.87	29.81	29.76	29.79	29.82	29.93	29.97	30.06	30.20	29.94
WINDS	RESULTANT SPEED (MPH)	4.7	2.6	0.7	4.6	3.5	1.1	3.4	2.5	0.8	1.5	2.0	5.9	1.6
	RES. DIR. (TENS OF DEGS.)	34	34	31	34	34	24	17	17	24	32	33	34	33
	MEAN SPEED (MPH)	6.1	9.2	8.3	9.5		8.8	8.2	7.1	6.1	6.7	6.4	7.9	
	PREVAIL.DIR.(TENS OF DEGS.)	36	36	36	36	36	17	16	16	31	33	35	33	16
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	31	39	39	43	36	37	36	33	39	30	45	41	45
	DIR. (TENS OF DEGS.)	36	35	16	34	35	36	03	16	36	36	35	35	35
	DATE OF OCCURRENCE	19	07	20	29	29	29	06	26	20	25	30	01	NOV 30
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	39	53	51	62	46	49	45	47	59	40	60	53	62
	DIR. (TENS OF DEGS.)	35	35	16	35	08	36	03	16	01	36	36	32	35
	DATE OF OCCURRENCE	19	07	20	29	13	29	06	26	20	25	30	01	APR 29
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	0.02	0.94	1.00	0.04	0.06	0.01	0.08	T	0.16	0.74	0.14	T	
	GREATEST 24-HOUR (IN.)	0.02	0.43	0.46	0.03	0.04	0.01	0.08	T	0.13	0.74	0.09	T	
	DATE OF OCCURRENCE	03	18-19	20-21	09	29	06	05	26	10-11	05	20	16	
	NUMBER OF DAYS WITH:													
	PRECIPITATION 0.01	1	4	6	2	3	1	1	0	3	1	2	0	
	PRECIPITATION 0.10	0	4	3	0	0	0	0	0	0	1	0	0	
	PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	
SNOWFALL	SNOW,ICE PELLETS,HAIL													
	TOTAL (IN.)	0.4	T	T	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
	GREATEST 24-HOUR (IN.)	0.4	T	T	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
	DATE OF OCCURRENCE	03	25+	25+	09									APR 09
	MAXIMUM SNOW DEPTH (IN.)	T	T	0	1	0	0	0	0	0	0	0	0	1
	DATE OF OCCURRENCE	03	19		09									APR 09
	NUMBER OF DAYS WITH:													
	SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0

NORMALS, MEANS, AND EXTREMES
BISHOP (KBIH)

LATITUDE: 37° 22'N **LONGITUDE:** -118° 21'W **ELEVATION (FT):** GRND: 4102 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	64	53.2	57.8	64.1	71.6	80.7	90.8	97.7	95.6	87.9	76.5	63.0	54.1	74.4
	HIGHEST DAILY MAXIMUM	64	77	81	87	93	102	109	110	107	99	97	84	78	110
	YEAR OF OCCURRENCE		1948	1986	1966	1989	2003	1954	2002	1993	2010	1980	1988	1958	JUL 2002
	MEAN OF EXTREME MAXS.	64	67.2	70.5	76.9	85.0	93.6	101.8	104.9	103.3	97.9	88.2	77.0	68.2	86.2
	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	64	21.8	25.9	30.1	36.0	43.7	50.7	56.2	53.6	46.7	37.3	27.5	21.8	37.6
	LOWEST DAILY MINIMUM	64	-7	-2	9	15	25	25	34	37	26	16	5	-8	-8
	YEAR OF OCCURRENCE		1982	1969	2007	1953	2010	2011	1987	1959	1986	1970	1958	1990	DEC 1990
	MEAN OF EXTREME MINS.	64	9.6	14.4	17.9	24.1	32.1	39.0	46.8	44.3	36.8	25.8	15.5	10.1	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	63	37.5	41.9	47.1	53.8	62.3	70.9	77.0	74.6	67.3	56.9	45.3	38.0	56.1
	MEAN WET BULB	28	29.7	31.8	34.6	37.7	43.5	48.4	53.9	51.0	46.3	40.2	33.0	27.8	39.8
	MEAN DEW POINT	28	22.4	23.5	24.6	26.6	32.3	37.1	41.9	41.3	36.3	29.4	23.5	19.8	29.9
	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	
	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	
	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	
	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	
H/C	NORMAL HEATING DEG. DAYS	30	843	643	545	344	138	21	1	1	46	276	609	847	
	NORMAL COOLING DEG. DAYS	30	0	0	0	3	45	191	357	293	106	8	0	0	
RH	NORMAL (PERCENT)	30													
	HOUR 04 LST	30													
	HOUR 10 LST	30													
	HOUR 16 LST	30													
	HOUR 22 LST	30													
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	29	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.9
	THUNDERSTORMS	31	0.0	0.0	0.1	0.0	0.2	0.3	0.9	0.4	0.2	0.1	0.0	0.0	2.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)						3.2	1.6							
	MIDNIGHT-MIDNIGHT (OKTAS)						3.2	1.6				0.0			
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE(IN)	28	25.89	25.83	25.79	25.75	25.73	25.73	25.79	25.79	25.79	25.83	25.87	25.89	25.81
	MEAN SEA-LEVEL PRES. (IN)	28	30.12	30.04	29.96	29.89	29.84	29.81	29.86	29.87	29.90	29.98	30.07	30.13	29.96
WINDS	MEAN SPEED (MPH)	28	7.3	8.1	9.9	9.9	9.3	8.4	8.0	8.0	7.5	7.7	7.4	6.9	8.2
	PREVAIL.DIR(TENS OF DEGS)	17	33	36	36	36	36	36	17	16	17	33	34	36	36
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	16	41	46	43	44	43	44	38	36	39	44	45	45	46
	DIR. (TENS OF DEGS)		35	22	15	01	35	35	16	07	36	35	35	36	22
	YEAR OF OCCURRENCE		2000	2001	2001	2007	2001	1998	2007	2004	2011	2009	2011	2009	FEB 2001
	MAXIMUM 3-SECOND														
	SPEED (MPH)	16	53	67	53	62	55	54	49	47	59	61	60	61	67
	DIR. (TENS OF DEGS)		35	23	03	35	36	35	16	16	01	35	36	29	23
	YEAR OF OCCURRENCE		2000	2001	2009	2011	2008	1998	2007	2011	2011	2009	2011	2006	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)	62	8.93	6.01	2.94	2.26	1.30	1.31	1.47	0.64	1.28	1.77	2.59	5.79	8.93
	YEAR OF OCCURRENCE		1969	1969	1991	1956	1962	1998	1976	1983	1994	2009	1960	1966	JAN 1969
	MINIMUM MONTHLY (IN)	63	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)	63	4.00	3.64	1.79	1.58	0.95	0.72	0.86	0.46	1.25	1.77	1.79	3.37	4.00
	YEAR OF OCCURRENCE		2008	1969	1995	1982	1953	1982	1976	1977	1994	2009	1950	2010	JAN 2008
	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)	48	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			2011	1955	1978	1964	1967	FEB 1969
	MAXIMUM IN 24 HOURS (IN)	48	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)	49	22	14	13	1	2	0	0	0	0	0	4	6	22
	YEAR OF OCCURRENCE		1969	1976	1969	2011	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) 2011 BISHOP (KBIH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	.12	T	T	.77	.78	T	5.14
1997		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
2004	0.03	1.34	0.10	0.10	T	0.05	0.02	0.01	T	1.26	1.13	1.80	5.84
2005	3.78	0.83	1.23	T	0.25	0.00	0.02	0.58	0.36	0.28	T	2.16	9.49
2006	3.01	0.79	0.18	0.39	0.08	0.06	0.26	0.00	0.00	0.52	0.00	0.05	5.34
2007	0.35	0.12	0.03	0.17	0.00	0.00	0.39	0.17	0.22	0.01	0.03	0.37	1.86
2008	4.82	1.24	0.00	0.00	0.15	0.00	0.15	0.00	0.08	T	0.70	0.61	7.75
2009	0.03	0.53	0.04	0.02	0.12	0.58	0.11	0.12	0.01	1.77	0.07	1.30	4.70
2010	1.28	0.39	0.02	0.39	T	0.00	0.08	T	0.00	1.33	0.28	5.37	9.14
2011	0.02	0.94	1.00	0.04	0.06	0.01	0.08	T	0.16	0.74	0.14	T	3.19
POR= 64 YRS	1.11	0.92	0.47	0.28	0.25	0.15	0.17	0.11	0.18	0.24	0.53	0.87	5.28

WBAN : 23157

AVERAGE TEMPERATURE (°F) 2011 BISHOP (KBIH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	74.6	68.9	57.6	51.1	39.7	
1996	40.5	43.5	48.4		63.7	72.4	78.8	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
2004	37.1	39.5	55.0	55.5	63.7	72.3	77.3	73.7	65.7	53.8	43.5	40.3	56.5
2005	39.8	42.8	48.3	51.3	63.1	68.5	80.6	74.6	63.5	56.6	48.2	40.5	56.5
2006	35.1	42.9	41.4	54.1	64.6	73.8	79.7	72.7	65.7	54.7	47.0	38.1	55.8
2007	36.7	42.8	52.2	56.6	64.5	72.9	79.7	76.3	65.9	55.6	47.7	34.6	57.1
2008	35.4	42.0	48.3	53.7	60.9	70.9	78.1	76.7	67.2	56.3	49.9	34.0	56.1
2009	42.5	39.8	46.7	52.7	68.6	68.0	78.7	74.0	70.1	54.5	45.4	34.9	56.3
2010	36.7	41.3	45.8	49.9	56.0	72.7	79.4	74.0	68.6	57.2	43.6	40.4	55.5
2011	41.6	40.5	47.9	52.8	58.0	68.8	74.8	75.0	69.1	57.8	40.5	36.3	55.3
POR= 63 YRS	37.5	41.9	47.1	53.8	62.3	70.9	77.0	74.6	67.3	56.9	45.3	38.0	56.0

HEATING DEGREE DAYS (base 65°F) 2011 BISHOP (KBIH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2003-04	0	0	2	118	729	878	858	730	304	280	61	6	3966
2004-05	0	0	65	339	637	759	771	613	512	404	124	23	4247
2005-06	0	3	62	256	498	753	919	615	724	330	73	2	4235
2006-07	0	0	65	316	534	825	870	616	380	257	82	22	3967
2007-08	0	0	99	282	512	933	908	660	512	332	168	5	4411
2008-09	0	0	14	269	446	954	693	698	561	361	7	33	4036
2009-10	0	0	9	319	583	928	869	658	590	448	273	2	4679
2010-11	0	6	10	247	637	753	720	681	522	358	211	39	4184
2011-	0	0	3	223	729	882							

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COOLING DEGREE DAYS (base 65°F) 2011 BISHOP (KBIH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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	5	97	300	303	142	0	0	0	
1996	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
2004	0	0	0	0	27	234	391	275	93	0	0	0	1020
2005	0	0	0	0	74	137	490	308	27	3	0	0	1039
2006	0	0	0	13	66	269	458	247	92	4	0	0	1149
2007	0	0	0	12	72	266	463	360	136	0	0	0	1309
2008	0	0	0	0	49	190	411	370	86	6	0	0	1112
2009	0	0	0	0	124	129	433	284	170	0	0	0	1140
2010	0	0	0	0	0	239	457	293	124	11	0	0	1124
2011	0	0	0	0	2	160	311	317	133	6	0	0	929

SNOWFALL (inches) 2011 BISHOP (KBIH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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													
2003-04													
2004-05													
2005-06													
2006-07													
2007-08													
2008-09													
2009-10													
2010-11		0.0	0.0	0.0	T	1.3	0.4	T	T	0.8	0.0	0.0	
2011-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 49 YRS	0.0	0.0	0.0	0.0	0.3	1.2	3.8	1.5	0.7	0.3	0.1	0.0	7.9

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REFERENCE NOTES :

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).

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).

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.
- 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.

GENERAL CONTINUED:
- 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.
- 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.
- STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm
- SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:
The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.

2011
BISHOP
CALIFORNIA (KBIH)

Bishop is located on the floor of the Owens Valley, which is orientated north-northwest to the south-southeast. At the point Bishop is located at, the Owens Valley is 12 miles wide, level, and semi-arid. Peaks of the 12,000 to 14,500 foot Sierra Nevadas are 25 miles west, and the 12,000 to 14,000 foot White Mountains are 10 miles east. The northern end of the valley is partly cut off by 6,000 to 8,000 foot mountains that are about 45 miles distant. The southern end of the valley makes a gradual descent to the Mojave Desert about 150 miles away. The official climate station for Bishop is located at the Municipal Airport about two and a half miles east of the town and about 1 mile west of the Owens River.

The dramatic drop in elevation, primarily from the Sierra Nevada to the valley floor, largely drives the weather experienced in the Owens Valley. The Sierra Nevada largely serves as a barrier to moisture moving in from the Pacific creating a "rain shadow" effect on the valley. Thus, many storms that move in from the Pacific are marked by just clouds and no precipitation. The precipitation that does fall from the passage of cold fronts and other winter disturbances is usually light, although periods of heavier intensity do occur. Most of the precipitation to fall at Bishop occurs between November and April. Winters with heavier precipitation often will see dry lakes and creeks fill with water. Snow typically occurs several times each winter on the Owens Valley floor; however, amounts from a single storm exceeding a foot are unusual.

Gusty winds occur in every month of the year. From the fall through the spring, when strong westerly winds aloft flow over the Sierra Nevada ahead of incoming storm systems they often result in wind being forced down the eastern slopes of the Sierra generating powerful westerly wind gusts. These gusts are most noted on the western side of the valley, with the occurrence often less at the Bishop climate station. At times, strong northerly winds blow, especially behind the passage of cold fronts during the months of February, March and April. East and west winds frequently give pronounced foehn effects and turbulence. During the summer and autumn, the heating difference between the Owens Valley and Mojave Desert causes an early morning and late evening northerly wind as air flows from higher pressure over the Owens Valley towards lower pressure over the Mojave Desert. Conversely, in the heat of the afternoon, it causes a southerly wind that is occasionally strong.

Bishop often records very large diurnal swings in temperature. Differences of over 50 degrees between the daytime high and the nighttime low have been observed. The hottest summer days at Bishop feature highs in the triple digits. In the winter, the coldest mornings feature low temperatures in the teens. Being on the lee of the Sierra, Bishop is not as protected from colder air seeping out of the Great Basin as areas just to the west of the Sierra, and as a result at least every other winter low temperatures drop into the single digits. Low temperatures below zero occur with the most extreme cold outbreaks.

In the summer months, occasional pushes of moisture into the region from the south result in thunderstorms developing over the Sierra Nevada and White Mountains. On days when the flow in the atmosphere can push these storms into the Owens Valley they bring gusty winds and sometimes rain. Otherwise the warmer season months feature abundant sunshine.

Station History

BISHOP, CA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
BISHOP AP	1943-02-01	1944-01-01	37° 22'	-118° 25'	4147		AIRWAYS,COOP
BISHOP AP	1944-01-01	1945-01-01	37° 22'	-118° 22'	4114		AIRWAYS,COOP
BISHOP AP	1994-05-01	2010-01-23	37° 22'	-118° 21'	4102		ASOS,COOP
BISHOP AP	1943-01-01	1943-02-01	37° 22'	-118° 25'	4147		AIRWAYS
BISHOP AP	1973-01-01	1981-12-31	37° 22'	-118° 22'	4111		WXSVC
BISHOP AP	1947-03-01	1948-12-31	37° 22'	-118° 22'	4111		AIRWAYS,COOP
BISHOP AP	2010-01-23	Present	37° 22'	-118° 21'	4102		ASOS,COOP
BISHOP AP	1945-01-01	1945-10-31	37° 22'	-118° 25'	4114		AIRWAYS,COOP
BISHOP AP	1946-02-01	1946-12-31	37° 22'	-118° 25'	4124		COOP,SYNOPTIC
BISHOP AP	1993-02-01	1994-05-01	37° 22'	-118° 22'	4108		COOP
BISHOP AP	1948-12-31	1973-01-01	37° 22'	-118° 22'	4111		AIRWAYS

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1946-02-01	1946-12-31	DAILY	2400			
PRECIP	1995-05-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1996-02-23	HOURLY	2400	UNIV	RCRD	
PRECIP	1996-02-23	1998-02-18	DAILY	2400	TB	RCRD	
PRECIP	2010-01-23	Present	DAILY	2400	PCPN1		
TEMP	2010-01-23	Present	DAILY	2400	HYGR		
PRECIP	1946-02-01	1946-12-31	DAILY	2400	UNIV	RCRD	
TEMP	1947-03-01	1982-01-01	DAILY	2400			
PRECIP	1982-01-01	1995-05-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-05-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1998-02-18	2010-01-23	DAILY	2400	TB	RCRD	
PRECIP	1947-03-01	1982-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1982-01-01	1995-05-01	HOURLY	2400			
TEMP	1998-02-18	2010-01-23	DAILY	2400	HYGR		
TEMP	1930-08-01	1945-10-31	DAILY	2400			
PRECIP	1995-05-01	1995-07-01	HOURLY	2400			
TEMP	1996-02-23	1998-02-18	DAILY	2400	HYGR		
PRECIP	1996-02-23	1998-02-18	HOURLY	2400			
PRECIP	1930-08-01	1945-10-31	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	1996-02-23	DAILY	2400	UNIV	RCRD	
PRECIP	1998-02-18	2010-01-23	HOURLY	2400	TB	RCRD	
TEMP	1995-07-01	1996-02-23	DAILY	2400	HYGR		
TEMP	1982-01-01	1995-05-01	DAILY	2400			
PRECIP	2010-01-23	Present	HOURLY	2400	TB	RCRD	

* For explanation of codes and abbrevitions see Station Metadata link below.

Other Station Information can be found at:
ASOS Implementation by NWS: http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm
Station Metadata website: http://www.ncdc.noaa.gov/homr

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2
Fax Number : (828) 271-4876
TDD : (828) 271-4010
Email : ncdc.info@noaa.gov

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