

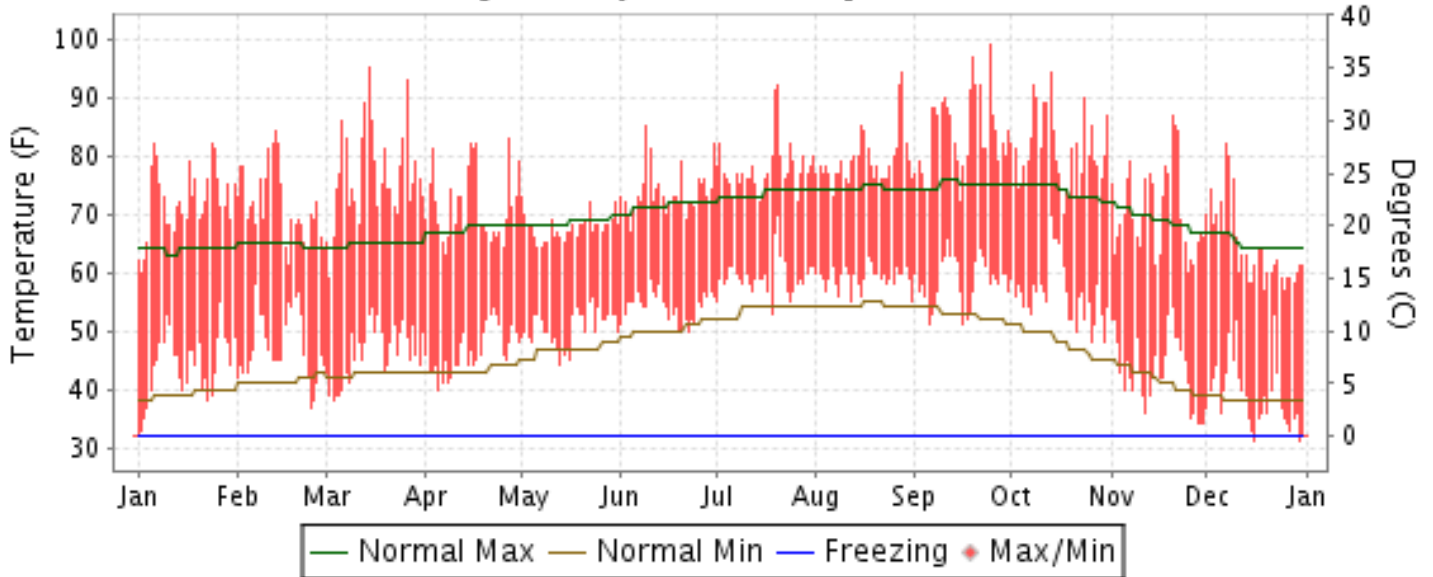


2015 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

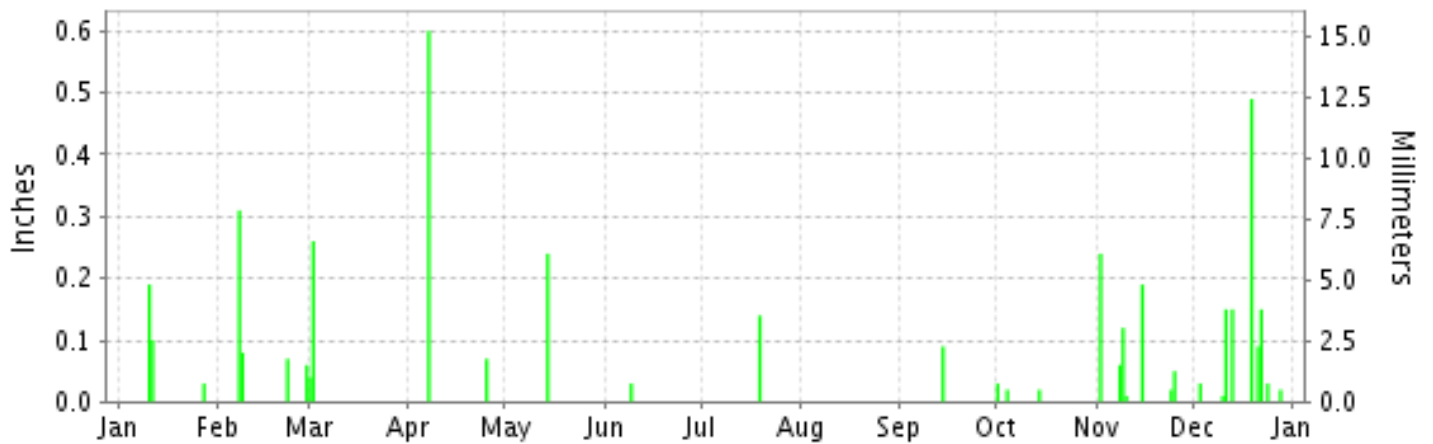
ISSN 0198-1005

SANTA MARIA, CALIFORNIA (KSMX)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NCEI

METEOROLOGICAL DATA FOR 2015

SANTA MARIA (KSMX)

LATITUDE:
34° 53'N

LONGITUDE:
120° 26'W

ELEVATION (FT):
GRND: 242 BARO: 245

TIME ZONE:
PACIFIC (UTC -8)

WBAN: 23273

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	72.2	71.5	76.5	71.5	67.6	73.7	77.9	79.2	83.9	81.0	70.6	64.2	74.2	
	HIGHEST DAILY MAXIMUM	82	84	95	83	73	85	92	94	99	94	87	82	99	
	DATE OF OCCURRENCE	24+	13	14	27	01	09	20	28	24	13	20	07	SEP 24	
	MEAN DAILY MINIMUM	44.0	47.3	46.4	46.6	50.7	54.2	59.4	59.2	58.6	56.4	43.2	38.8	50.4	
	LOWEST DAILY MINIMUM	32	37	38	40	44	50	53	55	51	48	34	31	31	
	DATE OF OCCURRENCE	01	24	03	05	13	22+	18	31+	16+	30+	30+	30+	DEC 30+	
	AVERAGE DRY BULB	58.1	59.4	61.4	59.0	59.1	64.0	68.6	69.2	71.3	68.7	56.9	51.5	62.3	
	MEAN WET BULB	49.3		52.5	50.6	52.8	57.6	61.7	62.1	61.8	60.9	48.9	45.7		
	MEAN DEW POINT	42.7		46.0	43.5	48.5	54.4	58.3	58.7	56.8	57.0	41.6	40.2		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	2	0	0	0	0	2	2	6	4	0	0	16
MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MINIMUM <= 32°	1	0	0	0	0	0	0	0	0	0	0	3	4		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	208	149	133	173	173	43	0	0	2	3	243	412	1539	
	COOLING DEGREE DAYS	0	0	27	1	0	20	119	136	197	125	10	0	635	
RH	MEAN (PERCENT)	64	70	66	64	73	78	76	76	68	75	64	71	70	
	HOUR 04 LST	76	81	82	78	85	92	90	89	83	86	77	81	83	
	HOUR 10 LST	46	53	42	43	58	61	60	57	46	49	43	51	51	
	HOUR 16 LST	61	65	55	53	63	66	64	63	59	71	62	67	62	
	HOUR 22 LST	72	79	77	76	85	90	87	89	80	85	73	81	81	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	8	7	8	3	1	9	1	5	0	10	3	3	58	
	THUNDERSTORMS	0	0	2	0	0	0	1	0	0	1	0	0	4	
PR	MEAN STATION PRESS. (IN.)	29.86	29.79	29.80	29.73	29.72	29.66	29.70	29.69	29.63	29.68	29.78	29.85	29.74	
	MEAN SEA-LEVEL PRESS. (IN.)	30.13	30.05	30.06	30.00	29.99	29.93	29.96	29.95	29.89	29.95	30.05	30.12	30.01	
WINDS	RESULTANT SPEED (MPH)	0.8	1.6	3.8	6.1	7.3	5.9	6.0	6.4	4.1	4.2	3.1	3.3	4.3	
	RES. DIR. (TENS OF DEGS.)	27	29	31	31	30	31	31	30	31	30	33	32	31	
	MEAN SPEED (MPH)	3.9	5.6	6.3	8.1	8.3	7.0	7.0	7.1	5.4	6.0	6.0	6.2	6.4	
	PREVAIL.DIR.(TENS OF DEGS.)	30	30	30	30	30	31	31	31	31	30	31	30	30	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	23	31	33	35	28	25	29	28	29	30	31	32	35	
	DIR. (TENS OF DEGS.)	29	30	30	30	29	29	29	30	31	30	30	32	30	
	DATE OF OCCURRENCE	30	27	31	01	15	03	07	29	17	18	15	11	APR 01	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	27	37	39	43	33	30	34	36	34	35	39	42	43	
DIR. (TENS OF DEGS.)	28	29	30	30	29	31	29	30	31	30	29	32	30		
DATE OF OCCURRENCE	30	27	31	01	15	03	07	29	17	18	02	11	APR 01		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.32	0.52	0.30	0.67	0.24	0.03	0.14	T	0.09	0.07	0.69	1.12	4.19	
	GREATEST 24-HOUR (IN.)	0.29	0.31	0.30	0.60	0.24	0.03	0.14	T	0.09	0.03	0.24	0.49	0.60	
	DATE OF OCCURRENCE	10-11	07	01-02	07	14	09	19	11+	14	01	02	19	APR 07	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	3	4	2	2	1	1	1	0	1	3	7	9	34		
PRECIPITATION 0.10	2	1	1	1	1	0	1	0	0	0	3	4	14		
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 SANTA MARIA (KSMX)

LATITUDE: 34° 53'N LONGITUDE: 120° 26'W ELEVATION (FT): GRND: 242 BARO: 245 TIME ZONE: PACIFIC (UTC -8) WBAN: 23273

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	63.4	64.0	65.1	67.2	68.5	70.4	72.6	73.1	73.7	73.0	68.5	63.4	68.6
	MEAN DAILY MAXIMUM	61	64.0	64.5	65.3	67.2	68.5	70.7	73.0	73.7	74.7	73.9	69.3	64.5	69.1
	HIGHEST DAILY MAXIMUM	73	89	89	95	103	105	110	104	104	105	108	96	90	110
	YEAR OF OCCURRENCE		2014	1995	2015	1989	2014	2008	1985	2009	2010	1987	2006	1958	JUN 2008
	MEAN OF EXTREME MAXS.	61	76.8	77.7	79.2	83.8	83.9	83.9	84.6	85.5	91.0	91.6	84.3	77.5	83.3
	NORMAL DAILY MINIMUM	30	39.5	41.7	43.0	44.0	47.4	50.6	53.8	54.2	52.7	48.7	43.0	39.1	46.5
	MEAN DAILY MINIMUM	61	39.1	41.1	42.4	43.5	47.1	50.4	53.5	54.1	52.6	48.5	42.7	38.8	46.2
	LOWEST DAILY MINIMUM	73	5	22	24	31	31	36	43	43	36	26	25	20	5
	YEAR OF OCCURRENCE		2005	1971	1971	2008	1964	1962	1964	1973	1948	1971	1958	1978	JAN 2005
	MEAN OF EXTREME MINS.	61	28.6	31.0	33.3	34.8	38.6	43.1	47.8	48.4	45.4	39.5	32.9	28.3	37.6
	NORMAL DRY BULB	30	51.5	52.8	54.0	55.6	58.0	60.5	63.2	63.7	63.2	60.9	55.8	51.2	57.5
	MEAN DRY BULB	61	51.6	52.8	53.8	55.3	57.8	60.6	63.3	63.9	63.7	61.2	56.0	51.6	57.6
	MEAN WET BULB	32	45.2	47.0	48.8	49.6	51.8	54.3	57.0	57.3	56.5	53.2	48.4	44.7	51.2
	MEAN DEW POINT	32	43.4	44.8	47.3	47.7	50.1	52.7	55.5	56.0	55.1	51.3	45.9	42.1	49.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.1	0.4	0.2	0.2	0.1	0.1	0.9	1.1	0.1	0.0	3.2
	MAXIMUM <= 32	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MINIMUM <= 32	30	3.2	1.6	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	9.7
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	420	341	340	286	223	141	75	61	81	147	282	426	2823
	NORMAL COOLING DEG. DAYS	30	0	1	1	4	4	6	19	20	27	18	4	0	104
RH	NORMAL (PERCENT)	30	65	73	76	76	79	79	81	80	80	75	71	71	76
	HOURLY 04 LST	30	77	83	88	89	92	91	95	93	92	86	81	84	88
	HOURLY 10 LST	30	62	63	63	58	60	62	63	65	63	57	56	58	61
	HOURLY 16 LST	30	58	61	63	60	60	60	60	62	62	61	61	58	61
	HOURLY 22 LST	30	78	82	84	86	88	89	91	90	90	83	82	79	85
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	34	4.4	3.3	5.0	3.7	4.4	4.4	4.2	6.6	9.5	7.4	4.9	3.5	61.3
	THUNDERSTORMS	43	0.1	0.3	0.4	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.1	0.1	2.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	45	4.0	4.1	3.9	3.7	3.4	3.0	2.7	2.7	2.8	2.9	3.2	3.7	3.3
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR	45	12.7	11.6	12.5	13.0	14.3	15.5	17.3	16.8	16.1	16.7	15.2	13.8	175.5
	PARTLY CLOUDY	45	7.4	6.4	8.5	8.8	9.9	10.6	12.0	12.5	10.3	8.8	7.2	7.3	109.7
	CLOUDY	45	11.0	10.2	10.0	8.3	6.9	3.9	1.6	1.7	3.6	5.4	7.6	9.9	80.1
PR	MEAN STATION PRESSURE(IN)	32	29.85	29.81	29.80	29.77	29.73	29.69	29.70	29.70	29.67	29.73	29.81	29.85	29.76
	MEAN SEA-LEVEL PRES. (IN)	32	30.12	30.07	30.06	30.03	29.99	29.95	29.97	29.95	29.93	29.99	30.07	30.11	30.02
WINDS	MEAN SPEED (MPH)	32	6.3	7.2	8.2	9.1	9.4	8.5	7.3	6.9	6.6	6.7	6.5	6.3	7.4
	PREVAIL.DIR.(TENS OF DEGS)	20	31	31	31	30	31	31	31	31	31	31	31	31	31
	MAXIMUM 2-MINUTE: SPEED (MPH)	19	48	46	38	44	37	36	32	35	33	35	32	40	48
	DIR. (TENS OF DEGS)		14	13	30	30	30	30	29	08	30	31	32	30	14
	YEAR OF OCCURRENCE		2008	1998	2012	2009	2013	2010	1997	2011	2013	2008	2008	2006	JAN 2008
	MAXIMUM 3-SECOND SPEED (MPH)	19	67	57	51	53	46	46	56	59	43	62	49	49	67
	DIR. (TENS OF DEGS)		13	15	22	31	29	30	08	03	01	03	18	01	13
YEAR OF OCCURRENCE		2008	1998	2010	2009	2014	2014	2007	2008	2007	2008	2001	2007	JAN 2008	
PRECIPITATION	NORMAL (IN)	30	2.75	2.99	2.64	0.98	0.31	0.04	0.03	0.02	0.14	0.60	1.33	2.12	13.95
	MAXIMUM MONTHLY (IN)	73	11.78	11.57	9.41	4.24	3.17	0.86	0.62	0.86	3.05	2.30	4.74	9.85	11.78
	YEAR OF OCCURRENCE		1995	1998	1991	1958	1998	1995	1950	1976	1976	2004	1965	2010	JAN 1995
	MINIMUM MONTHLY (IN)	73	T	T	T	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
	YEAR OF OCCURRENCE		1976	1953	1959	1997	1978	2003	1982	1971	1992	1988	1959	1989	JUN 2003
	MAXIMUM IN 24 HOURS (IN)	73	3.31	2.61	4.11	2.22	1.74	0.79	0.62	0.99	1.78	2.07	1.93	3.67	4.11
	YEAR OF OCCURRENCE		2006	1978	2011	2000	1998	1995	1950	2013	1976	1960	1965	2010	MAR 2011
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	7.7	8.7	8.1	4.3	1.6	0.6	0.4	0.5	1.1	3.0	5.2	6.9	48.1
	PRECIPITATION >= 1.00	30	0.6	0.7	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.3	0.4	3.1
SNOWFALL	NORMAL (IN)	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAXIMUM MONTHLY (IN)	54	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T
	YEAR OF OCCURRENCE		1962	1996	1995								1975	1990	FEB 1996
	MAXIMUM IN 24 HOURS (IN)	54	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T
	YEAR OF OCCURRENCE		1962	1996	1995								1975	1990	FEB 1996
	MAXIMUM SNOW DEPTH (IN)	41	0	0	0	0	0	0	0	0	0	0	0	0	0
YEAR OF OCCURRENCE															
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

PRECIPITATION (inches) 2015 SANTA MARIA (KSMX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	0.95	3.68	4.99	1.35	T	T	T	T	0.67	T	0.89	1.41	13.94
1987	1.22	1.01	3.47	0.40	T	0.05	0.01	T	T	2.00	0.57	3.09	11.82
1988	1.42	2.39	0.08	2.54	0.23	0.04	T	T	0.01	0.00	0.78	3.74	11.23
1989	0.41	0.94	0.61	0.08	0.06	T	T	0.00	0.64	0.16	0.38	0.02	3.30
1990	2.28	1.65	0.19	0.22	0.47	T	T	0.01	0.36	0.01	0.17	0.69	6.05
1991	0.96	2.29	9.41	0.28	0.00	0.04	0.00	0.04	T	0.31	0.15	3.12	16.60
1992	2.15	5.73	2.25	T	T	T	0.40	T	0.00	0.45	0.01	2.80	13.79
1993	5.46	3.91	3.54	0.04	0.21	0.12	T	T	0.01	0.40	0.76	1.77	16.22
1994	1.95	3.49	2.15	1.03	0.56	T	0.00	T	0.09	0.44	1.72	1.12	12.55
1995	11.78	1.92	7.72	0.39	0.46	0.86	T	T	T	0.01	0.32	1.44	24.90
1996	2.04	7.17	1.17	0.59	0.32			.00	T	1.51	1.54	3.36	
1997	3.51	0.08	0.01	0.00	0.00	T	0.04	0.04	0.71	0.07	4.37	2.65	11.48
1998	3.80	11.57	3.61	2.51	3.17	0.03	T	T	0.36	0.25	2.39	0.55	28.24
1999	1.64	0.68	5.58	2.29	0.00	0.01	T	0.01	0.14	0.00	1.37	0.05	11.77
2000	1.48	7.34	1.28	2.96	0.03	0.07	0.00	T	T	0.80	T	0.05	14.01
2001	3.87	2.66	3.66	0.60	0.01	T	0.01	0.00	T	0.33	2.21	1.31	14.66
2002	1.14	0.37	0.75	0.23	0.07	T	0.00	T	T	0.06	2.31	4.28	9.21
2003	0.23	1.84	1.52	1.15	1.08	0.00	0.01	0.00	0.00	0.34	1.46	1.29	8.92
2004	0.68	4.40	0.55	T	0.00	T	0.00	0.00	0.00	2.30	0.71	3.95	12.59
2005	4.20	3.70	3.27	0.48	0.89	T	T	T	0.04	0.67	1.06	2.13	16.44
2006	3.63	0.93	3.57	3.89	1.36	T	0.00	0.00	0.00	0.34	0.36	1.17	15.25
2007	0.80	1.62	0.17	0.60	0.04	0.00	0.00	0.01	0.01	0.57	0.03	1.86	5.71
2008	7.01	1.85	0.01	0.21	0.01	0.00	0.00	0.00	0.00	0.14	2.35	0.91	12.49
2009	0.17	4.68	0.69	0.10	0.08	T	0.00	0.01	0.01	1.57	T	2.53	9.84
2010	5.78	2.79	0.66	2.15	0.18	0.00	0.03	0.01	T	1.68	1.93	9.85	25.06
2011	1.08	3.00	5.77	0.13	0.38	0.59	T	0.00	0.09	0.75	1.50	0.16	13.45
2012	1.81	0.36	2.72	2.31	T	T	T	0.03	T	0.21	0.75	2.73	10.92
2013	0.63	1.01	0.70	0.11	0.04	T	0.01	T	T	0.18	0.13	0.18	2.99
2014	0.01	1.88	1.27	0.84	0.01	0.00	T	T	0.00	1.07	0.25	4.24	9.57
2015	0.32	0.52	0.30	0.67	0.24	0.03	0.14	T	0.09	0.07	0.69	1.12	4.19
POR= 61 YRS	2.42	2.81	2.24	1.07	0.28	0.05	0.02	0.03	0.20	0.53	1.26	1.91	12.82

WBAN : 23273

AVERAGE TEMPERATURE (°F) 2015 SANTA MARIA (KSMX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	56.6	55.4	56.0	55.8	57.2	60.6	63.6	63.9	60.8	60.8	57.5	51.3	58.3
1987	48.0	52.3	52.4	57.4	59.7	60.5	60.9	62.6	62.4	64.1	55.2	48.7	57.0
1988	50.9	55.5	56.6	56.9	57.0	60.2	65.2	64.7	61.6	61.1	55.3	50.5	58.0
1989	49.2	49.3	55.4	59.9	57.5	61.3	62.4	62.6	61.6	62.1	59.2	54.5	57.9
1990	51.3	49.9	53.6	58.8	57.6	60.7	64.4	65.7	63.9	62.1	56.5	48.9	57.8
1991	52.4	55.6	50.3	54.6	54.0	58.2	63.7	63.5	63.4	60.9	57.3	52.6	57.2
1992	52.5	57.4	56.1	60.2	61.3	61.5	64.8	64.7	64.1	63.0	57.4	50.4	59.5
1993	52.6	53.1	57.5	57.9	60.7	62.9	63.9	65.0	63.0	62.4	57.3	51.8	59.0
1994	53.0	51.9	56.4	55.8	57.9	60.1	61.6	63.5	62.7	60.3	50.1	50.2	57.0
1995	53.7	57.2	55.4	54.9	57.0	59.6	64.1	63.0	62.6	62.7	59.3	53.5	58.6
1996	52.5	56.0	54.9	60.3	60.2			62.8	61.6	59.6	56.2	53.2	
1997	52.2	51.3	55.4	55.7	62.6	61.7	63.7	66.9	68.4	62.3	58.1	50.0	59.0
1998	51.8	53.8	58.7	55.7	56.9	60.7	63.9	65.8	64.1	59.2	53.7	48.0	57.7
1999	51.4	50.6	49.8	51.2	55.1	57.6	61.8	61.4	61.2	61.6	55.7	53.2	55.9
2000	52.6	53.2	53.8	56.7	58.6	62.4	61.1	62.5	63.9	59.1	51.6	53.7	57.4
2001	49.2	50.3	55.1	52.4	61.2	62.4	63.4	62.1	62.7	60.4	56.4	49.9	57.1
2002	48.1	53.6	52.0	55.6	56.2	59.6	63.0	61.9	62.6	57.6	58.5	52.0	56.7
2003	56.2	52.3	54.8	54.1	58.5	61.2	63.5	64.6	63.2	62.3	54.1	51.0	58.0
2004	49.6	50.2	58.1	56.9	59.0	60.3	63.7	64.7	64.6	58.7	52.8	51.5	57.5
2005	52.5	54.1	55.6	54.8	59.9	60.2	63.2	63.6	61.2	60.0	58.8	53.7	58.1
2006	51.6	53.2	49.6	56.5	59.7	63.7	67.2	65.1	65.5	61.9	60.7	53.8	59.0
2007	51.1	55.3	59.3	58.4	59.0	60.8	64.0	64.6	64.3	61.7	57.6	50.8	58.9
2008	51.4	52.8	53.4	53.8	57.2	61.8	63.7	64.0	63.3	62.8	60.2	49.4	57.8
2009	54.0	51.6	52.6	54.7	59.4	61.4	61.9	63.9	63.9	61.7	56.4	50.6	57.7
2010	52.9	53.1	53.7	54.3	56.6	58.1	60.1	61.1	63.0	60.8	53.9	53.0	56.7
2011	53.2	49.8	54.3	55.9	56.9	60.0	63.8	62.9	64.0	63.3	55.0	50.0	57.4
2012	52.6	53.1	53.4	56.7	57.9	60.6	62.9	63.8	62.9	64.2	59.1	51.6	58.2
2013	49.6	50.3	56.5	58.1	60.7	63.8	65.5	64.9	66.0	61.0	59.1	53.1	59.1
2014	58.6	57.5	60.0	60.3	64.0	63.0	68.5	68.3	67.8	68.6	61.9	57.3	63.0
2015	58.1	59.4	61.4	59.0	59.1	64.0	68.6	69.2	71.3	68.7	56.9	51.5	62.3
POR= 61 YRS	51.6	52.8	53.8	55.3	57.8	60.6	63.3	63.9	63.7	61.2	56.0	51.6	57.6

HEATING DEGREE DAYS (base 65°F) 2015 SANTA MARIA (KSMX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	117	71	80	79	287	499	430	272	267	237	244	139	2722
1988-89	44	33	108	132	294	441	483	433	291	196	227	111	2793
1989-90	82	69	98	112	172	319	418	415	347	181	221	128	2562
1990-91	40	11	37	93	253	491	383	259	446	306	334	203	2856
1991-92	39	62	49	131	234	373	380	217	271	144	110	98	2108
1992-93	47	24	34	77	226	445	377	330	227	204	137	86	2214
1993-94	47	23	79	81	224	403	365	361	260	268	217	147	2475
1994-95	98	67	81	158	440	453	344	219	292	294	243	157	2846
1995-96	43	59	75	96	165	349	383	256	309	167	162		
1996-97		82	99	175	256	357	391	378	293	274	107	95	
1997-98	41	6	4	127	223	454	403	309	187	271	241	124	2390
1998-99	52	14	56	176	333	517	417	394	464	408	299	214	3344
1999-00	110	103	113	121	275	358	377	336	342	240	199	84	2658
2000-01	115	78	54	177	395	344	485	405	303	373	118	93	2940
2001-02	63	86	83	145	255	460	519	315	398	277	268	156	3025
2002-03	65	90	81	235	188	394	266	350	310	318	206	116	2619
2003-04	63	26	59	114	321	429	470	424	205	257	187	133	2688
2004-05	41	21	56	196	360	411	382	296	283	301	162	135	2644
2005-06	54	42	121	156	187	345	408	327	470	249	155	61	2575
2006-07	31	14	20	96	158	338	426	273	182	194	189	120	2041
2007-08	40	26	44	124	234	436	417	346	354	337	247	146	2751
2008-09	56	37	57	117	160	476	335	367	375	322	166	100	2568
2009-10	91	63	53	135	252	440	366	327	342	314	254	203	2840
2010-11	148	130	110	132	337	365	362	419	335	268	247	145	2998
2011-12	51	60	44	92	296	457	377	338	353	250	213	130	2661
2012-13	62	42	60	94	184	405	467	403	258	200	135	63	2373
2013-	18	32	24	137	171	362							
2013-14	18	32	24	137	171	362	190	204	156	155	93	60	1602
2014-15	0	0	1	3	94	232	208	149	133	173	173	43	1209
2015-	0	0	2	3	243	412							

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COOLING DEGREE DAYS (base 65°F) 2015 SANTA MARIA (KSMX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1986	0	2	0	2	0	0	11	14	1	7	0	0	37
1987	0	0	0	0	2	4	0	3	8	56	0	0	73
1988	0	3	15	2	2	2	56	28	13	20	11	0	152
1989	0	0	0	51	2	6	10	3	3	28	5	2	110
1990	0	0	2	0	0	6	31	38	10	13	6	0	106
1991	0	0	0	1	0	7	7	23	7	13	7	0	65
1992	0	0	0	4	3	1	50	23	14	23	7	0	125
1993	0	0	0	0	10	32	21	32	23	10	2	0	130
1994	0	0	0	0	0	4	2	25	18	18	0	0	67
1995	0	7	0	0	0	2	21	3	13	30	0	0	76
1996	0	2	0	33	19			21	4	15	0	0	
1997	0	0	0	1	38	0	8	72	111	50	24	0	304
1998	0	0	0	1	0	0	24	47	37	4	0	0	113
1999	0	0	0	2	0	0	19	0	7	21	3	0	52
2000	0	0	1	0	5	13	1	9	26	0	0	0	55
2001	0	2	0	0	6	20	21	1	21	12	1	0	84
2002	0	1	0	2	1	2	8	2	18	15	4	0	53
2003	1	0	0	0	10	9	24	21	11	38	0	0	114
2004	0	0	2	22	6	0	10	16	53	6	0	0	115
2005	0	0	0	0	11	0	5	8	17	10	5	0	56
2006	0	0	0	0	0	27	105	25	42	7	38	0	244
2007	0	7	13	1	9	2	16	22	29	25	19	0	143
2008	0	0	0	6	11	56	22	16	14	55	23	0	203
2009	0	0	2	21	0	0	1	34	26	37	1	0	122
2010	0	0	0	0	0	3	1	14	56	6	12	0	92
2011	1	0	9	2	4	0	20	3	20	47	0	0	106
2012	0	0	0	7	0	1	3	13	5	75	16	0	120
2013	0	0	0	2	9	33	43	38	60	23	3	0	211
2014	2	2	8	24	70	8	116	111	92	122	7	2	564
2015	0	0	27	1	0	20	119	136	197	125	10	0	635

SNOWFALL (inches) 2015 SANTA MARIA (KSMX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1990-91	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-													
POR= 42 YRS	0.0	0.0	0.0	0.0	0.0	T	0.0	T	T	0.0	0.0	0.0	T

WBAN : 23273

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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</p> <p>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</p>	<p>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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2015

SANTA MARIA

CALIFORNIA (KSMX)

Santa Maria Valley is a flat, fertile valley opening on the Pacific Ocean where it is widest and tapering inland for a distance approximately 30 miles. The valley is 10 miles wide at the site of the station, which is located 13 miles inland at an elevation of 236 feet. It is bounded by the foothills of the San Rafael Mountains, the Solomon Hills, and the Casmalia Hills ranging from 1,300 to 4,000 feet.

Located 150 miles west-northwest of Los Angeles and 250 miles south of San Francisco, Santa Maria has a maritime climate, displaying characteristics of those of both neighbors. Year-round mild temperatures moving through gradual transitions characterize the climate more than do clearly defined seasons. The annual range of temperatures is about 13 degrees, while the daily temperature range is about 20 degrees for May through September and a few degrees higher from October through April.

The area is primarily agricultural, with vegetable and other produce crops thriving successfully the year-round. Temperatures of 32 degrees or slightly lower occur about twenty-three times during the winter months and necessitate the rotation of crops to the hardier varieties during this season. Precipitation, particularly during the summer months, is insufficient for some crops and is supplemented by irrigation from subterranean water reserves. High humidity and moderate temperatures, however, substantially limit the irrigation requirement.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is December 5 and the average last occurrence in the spring is March 15.

The rainfall season, typical of the mid-California coast, is in the winter. About three-fourths of the total annual rainfall occurs from December through March in connection with Pacific cold fronts and storm centers passing inland. During the remainder of the year, and particularly from June to October, the northward displacement and intensification of the semipermanent Pacific anticyclone produces a circulation resulting in little or no precipitation here. Thunderstorms are rare.

During most days, clear, sunny afternoons prevail. But under the influence of the Pacific high, considerable advective and radiative cooling frequently produces nightly low stratus clouds, known as California stratus, and early-morning fog. Both clouds and fog, however, are generally dissipated before noon.

The unequal daytime solar heating over land and ocean, in conjunction with the Pacific high, gives rise to a consistent and prevailing westerly sea breeze during most afternoons. The winds generally decrease to a calm by sundown. Thus the two factors of nighttime stratus and daytime sea breezes effectively combine to maintain relatively cool days and warm nights with little diurnal change.

Station History

SANTA MARIA, CA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
SANTA MARIA PUBLIC AP	1954-10-21	1972-01-01	34° 54'	-120° 27'	238		AIRWAYS, COOP
SANTA MARIA PUBLIC AP	1972-01-01	1973-01-01	34° 54'	-120° 27'	236		AIRWAYS, COOP
SANTA MARIA PUBLIC AP	1973-01-01	1981-12-31	34° 54'	-120° 27'	236		COOP, WXSVC
SANTA MARIA PUBLIC AP	1982-01-01	1995-12-01	34° 54'	-120° 27'	254		COOP
SANTA MARIA PUBLIC AP	2004-02-24	Present	34° 53'	-120° 26'	242		ASOS, COOP
SANTA MARIA PUBLIC AP	1995-12-01	1996-08-01	34° 54'	-120° 27'	254	999 UN UN	COOP
SANTA MARIA PUBLIC AP	1981-12-31	1982-01-01	34° 54'	-120° 27'	236		COOP
SANTA MARIA PUBLIC AP	1996-08-01	2002-03-12	34° 53'	-120° 26'	242	.4 MI SW	ASOS, COOP
SANTA MARIA PUBLIC AP	2002-03-12	2004-02-24	34° 53'	-120° 26'	242		ASOS, COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1972-08-01	1987-03-13	DAILY	UNKN			
PRECIP	1972-08-01	1987-03-13	HOURLY	2400			
TEMP	1987-03-13	1993-09-21	DAILY	2400	MXMN		ROOF
PRECIP	1996-08-01	1996-09-01	HOURLY	2400	TB		
WIND	1996-09-01	2001-02-18	HOURLY	UNKN	ANEMCUP		
PRECIP	2001-02-18	2002-03-12	DAILY	2400	AHTB	RCRD;HTD	
TEMP	1972-08-01	1987-03-13	DAILY	UNKN			
PRECIP	1987-03-13	1993-09-21	HOURLY	2400	UNIV	RCRD	ROOF
TEMP	1993-09-21	1996-08-01	DAILY	2400	HYGR		
TEMP	2001-02-18	2002-03-12	DAILY	2400	ATEMP		
PRECIP	1954-10-21	1972-02-16	HOURLY	UNKN			
PRECIP	1993-09-21	1996-08-01	HOURLY	2400	UNIV	RCRD	ROOF
TEMP	1996-09-01	2001-02-18	DAILY	2400	HYGR		
PRECIP	1996-09-01	2001-02-18	HOURLY	2400	TB	RCRD	
WIND	2001-02-18	2002-03-12	HOURLY	UNKN	ANEMCUP		
WIND	2002-08-14	2007-06-06	HOURLY	UNKN	ANEMCUP		
PRECIP	2002-08-14	2007-06-06	DAILY	2400	PCPNX		
TEMP	2007-06-06	Present	DAILY	2400	ATEMP		
TEMP	2002-03-12	2002-08-14	DAILY	2400	ATEMP		
PRECIP	2002-03-12	2002-08-14	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1954-10-21	1972-08-01	DAILY	UNKN			
TEMP	1996-08-01	1996-09-01	DAILY	2400	HYGR		
PRECIP	2007-06-06	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	1954-10-21	1972-08-01	DAILY	UNKN			
PRECIP	1987-03-13	1993-09-21	DAILY	2400	SRG		ROOF
PRECIP	2001-02-18	2002-03-12	HOURLY	2400	TB		
PRECIP	2002-08-14	2007-06-06	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	2002-08-14	2007-06-06	DAILY	2400	ATEMP		
PRECIP	1993-09-21	1996-08-01	DAILY	2400	SRG		ROOF
WIND	2007-06-06	Present	HOURLY	UNKN	ANEMSONIC		
WIND	1996-08-01	1996-09-01	HOURLY	UNKN	ANEMCUP		
PRECIP	1996-08-01	1996-09-01	DAILY	2400	TB		
PRECIP	1996-09-01	2001-02-18	DAILY	2400	TB	RCRD	
WIND	2002-03-12	2002-08-14	HOURLY	UNKN	ANEMCUP		
PRECIP	2002-03-12	2002-08-14	DAILY	2400	AHTB	RCRD;HTD	
PRECIP	2007-06-06	Present	DAILY	2400	PCPNX		

* For explanation of codes and abbreviations 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>

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