

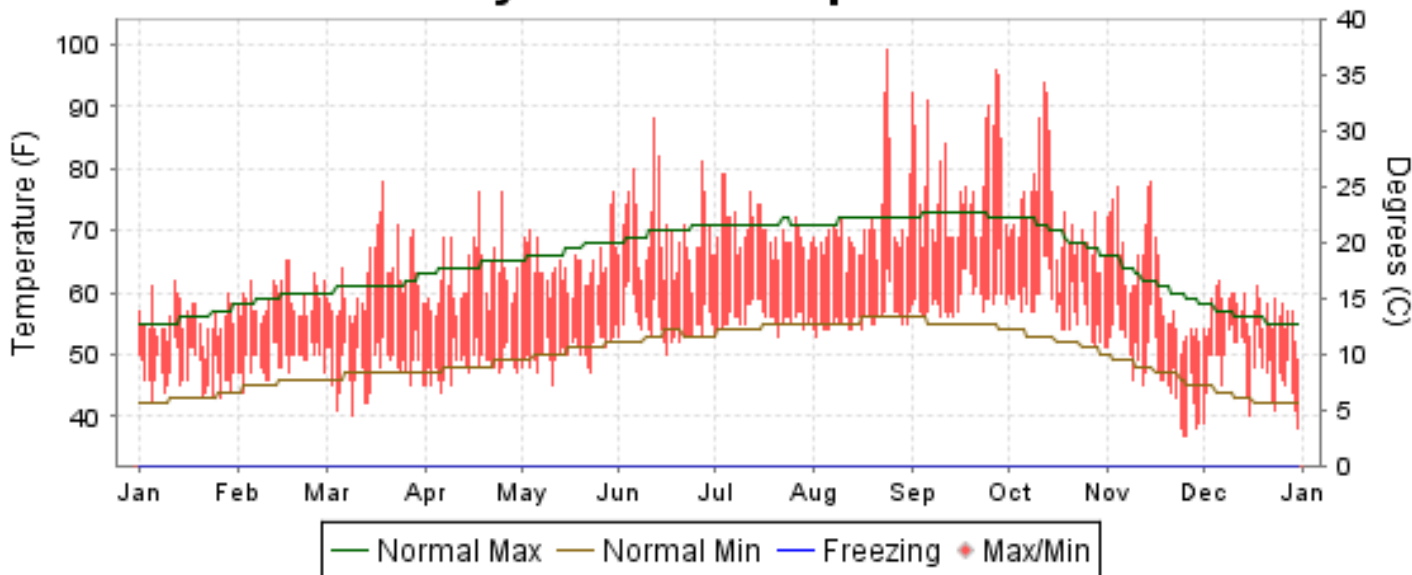


2010 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

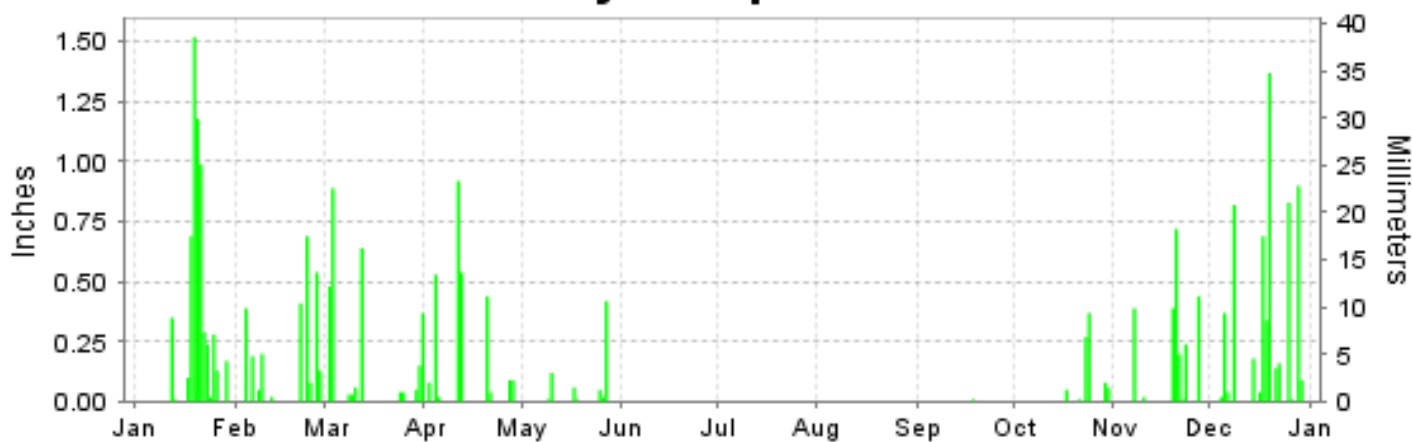
ISSN 0198-098X

SAN FRANCISCO, CALIFORNIA (KSFO)

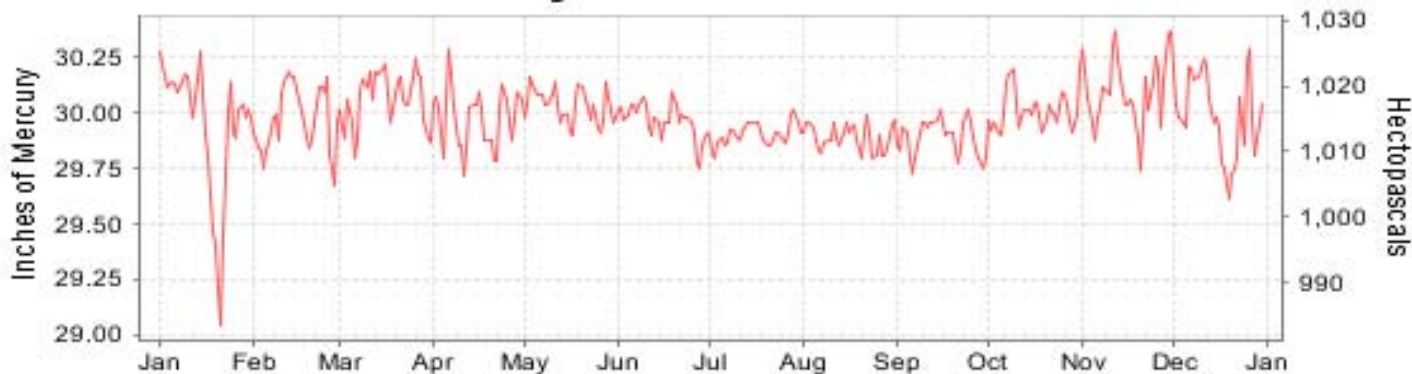
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2010

SAN FRANCISCO (KSFO)

LATITUDE: 37 ° 37'N LONGITUDE: -122° 23'W ELEVATION (FT): GRND: 8 BARO: 89 TIME ZONE: PACIFIC (UTC -8) WBAN: 23234

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	55.6	59.1	62.5	62.8	64.7	69.9	70.0	71.3	78.2	72.4	62.4	56.8	65.5	
	HIGHEST DAILY MAXIMUM	62	65	78	76	76	88	79	99	96	94	78	62	99	
	DATE OF OCCURRENCE	12	17+	19	25+	30	12	04+	24	27	12	15	06	AUG 24	
	MEAN DAILY MINIMUM	46.8	48.9	47.7	48.3	50.4	54.9	55.9	55.8	58.9	57.7	47.6	47.4	51.7	
	LOWEST DAILY MINIMUM	42	44	40	44	45	50	53	53	56	51	37	38	37	
	DATE OF OCCURRENCE	05	03	09	06	11	16	21+	02	14+	31+	26+	31	NOV 26+	
	AVERAGE DRY BULB	51.2	54.0	55.1	55.6	57.6	62.4	63.0	63.6	68.6	65.1	55.0	52.1	58.6	
	MEAN WET BULB	48.9	50.4	49.2	49.6	50.9	55.2	55.8	56.1	58.5	56.4	49.6	49.4	52.5	
	MEAN DEW POINT	47.1	47.9	44.0	44.5	46.0	50.4	51.4	51.9	52.6	50.1	44.5	46.4	48.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	0	2	5	2	0	0	9
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	418	298	299	278	223	102	67	77	13	58	299	392	2524	
	COOLING DEGREE DAYS	0	0	1	0	0	30	11	39	127	67	6	0	281	
RH	MEAN (PERCENT)	87	83	71	70	70	70	71	72	64	64	70	81	73	
	HOUR 04 LST	91	88	80	80	82	82	81	80	73	70	81	86	81	
	HOUR 10 LST	86	82	65	64	60	61	62	65	60	59	64	79	67	
	HOUR 16 LST	84	74	62	61	61	61	62	63	54	58	63	76	65	
	HOUR 22 LST	88	84	75	76	79	79	80	80	70	67	75	82	78	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	6	0	0	0	0	0	0	0	0	0	2	11	
	THUNDERSTORMS	2	0	0	1	0	0	0	0	0	0	1	1	5	
CLOUDNESS	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.)	29.95	29.97	30.06	29.96	30.03	29.96	29.02	29.89	29.88	30.01	30.10	30.00	29.90	
	MEAN SEA-LEVEL PRESS. (IN.)	29.96	29.99	30.08	30.00	30.05	29.98	29.92	29.91	29.91	30.03	30.12	30.02	30.00	
WINDS	RESULTANT SPEED (MPH)	2.3	2.2	5.8	8.0	11.8	13.1	10.2	10.5	9.0	5.7	4.0	1.7	6.5	
	RES. DIR. (TENS OF DEGS.)	14	25	27	26	27	28	29	28	28	27	27	18	28	
	MEAN SPEED (MPH)	6.4	7.1	9.2	11.7	13.5	14.1	11.8	11.8	10.3	8.6	7.1	7.0	9.9	
	PREVAIL.DIR.(TENS OF DEGS.)	13	28	28	28	27	27	29	29	29	28	28	29	27	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	44	35	35	37	44	38	39	38	32	31	37	37	44	
	DIR. (TENS OF DEGS.)	19	17	27	29	28	27	27	27	26	28	28	29	28	
	DATE OF OCCURRENCE	19	26	07	29	23	30	01	28	07	04	23	29	MAY 23	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	60	44	44	46	56	45	48	44	39	39	47	46	60	
DIR. (TENS OF DEGS.)	19	18	24	28	27	25	27	27	26	27	26	29	19		
DATE OF OCCURRENCE	19	26	03	29	23	18	01	28	07	04	20	29	JAN 19		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	5.97	2.70	2.78	2.75	0.69	T	0.00	T	0.01	0.84	2.41	6.00	24.15	
	GREATEST 24-HOUR (IN.)	1.84	0.77	0.94	1.44	0.42	T	0.00	T	0.01	0.54	0.99	1.43	1.84	
	DATE OF OCCURRENCE	18-19	23-24	02-03	11-12	27	24+		17	18	23-24	19-20	18-19	JAN 18-19	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	13	10	11	9	7	0	0	0	1	6	8	15	80	
PRECIPITATION 0.10	11	7	5	4	2	0	0	0	0	2	6	10	47		
PRECIPITATION 1.00	2	0	0	0	0	0	0	0	0	0	0	1	3		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0															

NORMALS, MEANS, AND EXTREMES SAN FRANCISCO (KSFO)

LATITUDE: 37 ° 37'N LONGITUDE: -122 ° 23'W ELEVATION (FT): GRND: 8 BARO: 89 TIME ZONE: PACIFIC (UTC -8) WBAN: 23234

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	55.9	59.3	61.2	64.3	66.8	69.9	71.1	71.7	72.7	69.7	62.0	56.1	65.1
	MEAN DAILY MAXIMUM	65	55.8	59.0	61.1	63.8	66.6	70.0	71.3	72.0	73.4	70.1	62.8	56.3	65.2
	HIGHEST DAILY MAXIMUM	83	72	78	85	92	97	106	105	100	103	99	85	75	106
	YEAR OF OCCURRENCE		2009	1930	1952	1989	1984	1961	1988	1993	1971	1987	1967	1958	JUN 1961
	MEAN OF EXTREME MAXS.	65	64.4	68.2	73.2	79.0	84.2	88.4	86.5	86.8	90.2	85.8	74.1	64.4	78.8
	NORMAL DAILY MINIMUM	30	42.9	45.5	46.8	48.1	50.5	52.9	54.5	55.5	55.1	52.4	47.5	43.0	49.6
	MEAN DAILY MINIMUM	65	42.4	44.8	46.1	47.6	50.2	52.7	54.1	54.9	54.7	51.9	47.3	43.2	49.2
	LOWEST DAILY MINIMUM	83	24	25	30	31	36	41	43	42	38	34	25	20	20
	YEAR OF OCCURRENCE		1928	1929	1929	1929	1929	1932	1928	1935	1929	1929	1931	1932	DEC 1932
	MEAN OF EXTREME MINS.	65	34.0	37.2	39.0	41.6	45.1	48.4	50.3	51.0	49.8	45.3	39.2	35.0	43.0
	NORMAL DRY BULB	30	49.4	52.4	54.0	56.2	58.7	61.4	62.8	63.6	63.9	61.0	54.7	49.5	57.3
	MEAN DRY BULB	65	49.1	51.9	53.6	55.7	58.4	61.3	62.7	63.5	64.1	61.0	55.1	49.8	57.2
	MEAN WET BULB	27	46.5	48.2	49.1	49.9	52.2	54.2	56.3	57.0	56.6	54.0	50.3	46.4	51.7
	MEAN DEW POINT	27	44.7	46.0	46.8	47.2	49.5	51.5	53.9	54.9	54.4	51.5	47.8	44.3	49.4
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	0.4	1.0	0.6	0.3	1.1	0.4	0.0	0.0	4.0
	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	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3
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	482	354	339	266	201	120	77	56	62	131	298	476	2862
	NORMAL COOLING DEG. DAYS	30	0	0	0	4	10	21	23	26	38	20	0	0	142
RH	NORMAL (PERCENT)	30	80	78	76	72	72	72	74	75	75	73	76	78	75
	HOURLY 04 LST	30	87	86	83	82	84	84	86	87	85	83	84	85	85
	HOURLY 10 LST	30	80	77	72	65	64	63	66	68	68	69	72	77	70
	HOURLY 16 LST	30	68	66	64	60	60	58	60	61	60	60	63	67	62
	HOURLY 22 LST	30	81	80	79	77	79	79	82	83	81	78	78	79	80
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISIB <= 1/4 MI)	47	2.5	1.7	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.5	1.1	1.7	8.1
	THUNDERSTORMS	65	0.4	0.5	0.4	0.2	0.1	0.0	0.1	0.1	0.3	0.2	0.2	0.3	2.8
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	55	5.0	5.0	4.6	4.2	3.6	3.0	2.4	2.6	2.6	3.1	4.2	4.7	3.8
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.7	4.9	4.6	3.9	3.4	3.2	2.6	2.8	2.6	3.0	4.0	4.3	3.7
	MEAN NO. DAYS WITH: CLEAR	69	8.5	7.8	9.5	10.8	13.5	16.2	20.3	18.8	17.9	15.5	11.1	9.4	159.3
	PARTLY CLOUDY	69	7.5	7.3	8.7	9.3	9.7	8.6	7.5	8.6	8.2	8.9	8.3	7.5	100.1
	CLOUDY	69	15.0	13.1	12.8	9.9	7.8	5.2	2.8	3.3	3.6	6.5	10.6	14.1	104.7
PR	MEAN STATION PRESSURE (IN)	27	30.10	30.05	30.01	30.03	29.98	29.94	29.90	29.90	29.92	29.99	30.08	30.10	30.00
	MEAN SEA-LEVEL PRES. (IN)	27	30.13	30.07	30.07	30.05	30.00	29.96	29.96	29.95	29.93	30.01	30.10	30.13	30.03
WINDS	MEAN SPEED (MPH)	27	7.1	8.6	10.6	12.6	13.8	14.1	13.3	12.4	11.0	9.3	7.7	7.4	10.7
	PREVAIL. DIR. (TENS OF DEGS)	36	28	28	28	28	28	29	29	29	29	29	28	28	29
	MAXIMUM 2-MINUTE: SPEED (MPH)	14	54	60	46	49	46	47	40	38	40	48	51	48	60
	DIR. (TENS OF DEGS)		17	18	26	28	26	28	26	27	28	27	18	17	18
	YEAR OF OCCURRENCE		2008	2006	2000	2009	1999	2005	2006	2010	2009	2009	2002	2002	FEB 2006
	MAXIMUM 3-SECOND SPEED (MPH)	14	68	71	52	60	56	58	49	48	52	62	66	64	71
	DIR. (TENS OF DEGS)		17	18	19	29	27	28	26	27	27	17	17	18	18
YEAR OF OCCURRENCE		2008	2006	2009	2009	2010	2005	2005	2007	2009	2009	2002	2005	FEB 2006	
PRECIPITATION	NORMAL (IN)	30	4.45	4.01	3.26	1.18	0.38	0.11	0.03	0.07	0.20	1.04	2.49	2.89	20.11
	MAXIMUM MONTHLY (IN)	83	11.26	13.64	9.01	6.36	3.81	0.86	0.35	0.66	2.30	7.30	7.94	12.30	13.64
	YEAR OF OCCURRENCE		1993	1998	1958	1958	1957	1967	1977	1976	1959	1962	1973	1955	FEB 1998
	MINIMUM MONTHLY (IN)	83	0.24	T	T	T	0.00	0.00	0.00	0.00	0.00	T	0.00	0.01	0.00
	YEAR OF OCCURRENCE		1991	1953	1934	1977	2001	1928	1930	1996	2002	1978	1929	1989	SEP 2002
	MAXIMUM IN 24 HOURS (IN)	83	5.71	3.41	2.46	2.66	1.54	0.83	0.35	0.60	2.30	3.74	2.43	3.33	5.71
	YEAR OF OCCURRENCE		1982	1998	1982	1958	1957	1967	1977	1997	1959	1962	1994	1955	JAN 1982
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.0	10.3	10.9	5.8	3.1	1.1	0.3	0.6	1.6	3.6	7.9	9.0	65.2
PRECIPITATION >= 1.00	30	1.4	1.1	0.6	0.1	*	0.0	0.0	0.0	0.0	0.3	0.5	0.6	4.6	
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
	MAXIMUM MONTHLY (IN)	69	1.5	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5
	YEAR OF OCCURRENCE		1962	1996	1995									1932	JAN 1962
	MAXIMUM IN 24 HOURS (IN)	69	1.5	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5
	YEAR OF OCCURRENCE		1962	1996	1995	1987								1932	JAN 1962
	MAXIMUM SNOW DEPTH (IN)	48	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) 2010 SAN FRANCISCO (KSFO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	5.92	2.21	3.60	0.24	0.07	T	T	T	0.28	2.35	4.89	3.91	23.47
1982	8.81	2.82	7.63	3.25	T	0.06	T	T	0.96	1.95	5.34	3.99	34.81
1983	6.83	6.64	8.50	3.11	0.32	T	0.01	T	0.57	0.10	6.03	6.23	38.34
1984	0.46	1.47	1.36	0.68	T	0.03	T	0.11	0.05	1.96	6.12	1.89	14.13
1985	0.74	2.35	3.30	0.12	0.05	0.29	0.03	0.02	0.18	0.69	3.19	1.61	12.57
1986	4.04	8.09	5.84	0.39	0.15	T	0.01	T	0.47	0.02	0.06	1.66	20.73
1987	2.80	3.52	1.98	0.16	0.06	T	T	T	T	0.93	1.64	4.51	15.60
1988	3.92	0.38	0.05	2.02	0.29	0.60	T	T	0.03	0.42	2.31	3.65	13.67
1989	1.25	1.28	4.00	0.78	0.04	0.01	T	T	1.24	1.40	1.34	0.01	11.35
1990	3.06	2.28	0.79	0.20	1.55	T	0.01	T	0.20	0.19	0.28	1.79	10.35
1991	0.24	3.76	6.07	0.61	0.21	0.11	T	0.27	0.04	1.73	0.23	2.70	15.97
1992	2.04	6.44	4.12	0.25	T	0.39	0.00	0.14	T	1.12	0.15	6.04	20.69
1993	11.26	4.68	2.34	0.41	0.55	0.16	T	T	T	0.45	1.47	2.19	23.51
1994	2.50	5.26	0.24	1.12	1.52	0.03	T	T	0.10	0.33	5.73	2.49	19.32
1995	8.89	0.38	8.75	1.41	0.93	0.60	T	T	T	0.03	0.02	6.41	27.42
1996	6.92	6.03	2.89	1.40	1.24	T	T	.00	T	.76	2.56	6.97	28.77
1997	7.52	0.31	0.25	0.30	0.21	0.24	T	0.60	T	0.68	6.41	3.87	20.39
1998	8.20	13.64	2.05	2.24	2.37	0.03	T	0.00	0.09	0.62	2.43	0.96	32.63
1999	2.96	4.59	2.80	2.18	0.10	0.18	0.00	0.06	0.27	0.46	1.47	0.43	15.50
2000	5.83	8.46	1.74	1.30	0.53	0.14	0.00	0.01	0.07	2.14	0.91	0.44	21.57
2001	3.87	6.12	1.02	1.56	0.00	0.10	0.00	0.00	0.11	0.31	4.51	8.54	26.14
2002	1.38	1.50	2.13	0.36	0.48	T	0.00	0.00	0.00	T	2.94	10.75	19.54
2003	1.43	2.45	1.17	4.42	0.63	0.00	T	T	T	T	2.17	6.41	18.68
2004	3.02	4.57	0.67	0.10	0.07	T	0.00	T	0.04	3.19	1.22	6.42	19.30
2005	4.27	5.10	3.74	1.70	1.15	0.30	T	0.00	0.08	0.08	1.23	9.34	26.99
2006	2.45	2.30	6.13	4.01	0.37	T	0.00	0.00	0.00	0.33	1.64	3.37	20.60
2007	0.65	4.14	0.27	1.14	0.09	0.00	0.01	0.00	0.15	1.97	0.58	2.65	11.65
2008	7.61	2.04	0.23	0.03	T	0.00	T	0.01	0.00	0.32	1.82	2.36	14.42
2009	0.69	6.40	2.35	0.27	0.36	0.04	T	0.00	0.27	2.96	0.20	3.07	16.61
2010	5.97	2.70	2.78	2.75	0.69	T	0.00	T	0.01	0.84	2.41	6.00	24.15
POR= 65 YRS	4.23	3.51	2.79	1.36	0.39	0.11	0.02	0.04	0.17	1.01	2.33	3.77	19.73

WBAN : 23234

AVERAGE TEMPERATURE (°F) 2010 SAN FRANCISCO (KSFO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	51.1	54.0	53.2	56.2	59.0	65.0	61.7	63.0	62.7	58.6	56.3	52.2	57.8
1982	45.1	51.7	51.3	54.6	57.4	59.7	61.7	63.3	64.0	61.1	52.3	48.9	55.9
1983	48.0	53.4	54.1	54.7	57.8	61.5	65.1	66.9	68.3	64.4	55.5	53.4	58.6
1984	51.3	52.9	57.0	56.0	61.8	61.3	65.6	64.4	69.7	60.4	53.8	47.7	58.5
1985	46.4	51.6	51.4	59.0	58.6	65.2	64.8	64.0	63.2	60.7	52.0	47.1	57.0
1986	53.7	56.3	57.1	56.2	58.6	62.5	62.4	61.2	62.9	61.4	57.1	50.3	58.3
1987	49.3	53.3	54.9	59.2	61.6	62.4	63.1	65.1	64.0	63.9	57.0	50.5	58.7
1988	50.6	54.5	56.5	58.1	59.5	62.5	65.3	65.0	63.1	61.4	56.5	50.4	58.6
1989	48.3	48.4	54.9	60.8	59.8	62.7	62.8	64.0	61.4	60.8	56.4	50.1	57.5
1990	49.9	49.2	53.3	58.5	59.0	62.4	64.5	66.3	66.4	63.1	56.0	46.4	57.9
1991	50.1	55.3	52.2	55.7	56.9	59.4	63.7	64.4	62.9	62.8	57.5	50.8	57.6
1992	48.9	56.1	57.4	60.6	63.4	63.6	65.8	63.8	65.3	65.4	56.8	49.8	59.7
1993	49.3	52.5	57.5	58.1	62.2	64.8	64.8	67.3	63.1	63.4	56.3	50.1	59.1
1994	51.5	50.6	56.0	56.8	58.5	61.5	62.1	64.5	64.1	60.1	49.9	48.0	57.0
1995	52.2	54.1	53.9	55.0	57.0	60.8	64.8	63.0	63.2	62.5	58.4	53.7	58.2
1996	51.8	54.9	56.0	59.1	60.4	61.5	63.2	62.7	63.0	60.9	56.3	53.9	58.6
1997	50.9	53.4	56.1	58.2	64.4	62.3	64.0	66.9	68.3	61.8	57.7	51.1	59.6
1998	52.8	52.3	55.0	55.7	57.7	61.6	62.8	64.3	64.3	60.3	54.2	47.0	57.3
1999	49.3	50.4	51.0	54.6	55.5	59.6	61.9	63.8	63.6	62.5	57.1	51.1	56.7
2000	52.4	53.5	54.4	58.2	60.2	62.9	61.4	63.6	66.2	60.0	52.6	51.6	58.1
2001	48.8	51.0	55.7	53.6	62.6	62.6	62.7	63.2	62.9	62.4	57.3	51.7	57.9
2002	49.0	53.3	53.8	56.7	58.0	61.4	63.9	64.4	64.8	61.2	57.5	52.6	58.1
2003	53.8	52.2	55.9	54.3	58.9	62.8	63.0	66.4	66.9	63.2	53.9	52.0	58.6
2004	50.3	52.2	59.4	59.4	60.4	61.7	64.8	66.5	67.4	60.8	55.3	52.2	59.2
2005	49.7	55.0	57.2	56.8	61.5	61.9	64.4	63.4	62.4	61.3	57.2	53.1	58.7
2006	51.6	52.9	51.1	55.6	59.8	63.3	65.8	63.5	62.4	60.5	55.5	50.3	57.7
2007	48.0	52.4	55.9	56.1	58.8	61.3	64.2	64.4	64.3	59.9	55.7	49.5	57.5
2008	48.4	51.7	53.7	55.4	58.7	61.5	62.8	64.4	65.0	63.2	57.8	48.9	57.6
2009	51.3	52.1	53.8	56.4	59.4	62.9	62.3	65.6	66.2	61.8	56.6	49.2	58.1
2010	51.2	54.0	55.1	55.6	57.6	62.4	63.0	63.6	68.6	65.1	55.0	52.1	58.6
POR= 65 YRS	49.1	51.9	53.6	55.7	58.4	61.3	62.7	63.5	64.1	61.0	55.1	49.8	57.2

HEATING DEGREE DAYS (base 65°F) 2010 SAN FRANCISCO (KSFO)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1981-82	112	65	71	197	252	389	611	364	416	307	241	154	3179
1982-83	100	63	47	130	376	491	521	322	330	301	225	113	3019
1983-84	33	1	18	43	281	354	415	342	242	269	124	115	2237
1984-85	43	34	5	147	328	527	570	370	416	180	192	27	2839
1985-86	49	51	60	158	382	546	343	236	239	260	191	78	2593
1986-87	77	113	62	122	228	447	477	320	309	168	128	85	2536
1987-88	60	16	40	70	233	445	440	296	259	212	184	78	2333
1988-89	40	29	71	128	246	447	511	455	308	162	160	94	2651
1989-90	70	38	103	138	249	454	459	437	356	189	185	94	2772
1990-91	33	13	8	77	262	570	454	265	387	273	244	166	2752
1991-92	57	44	65	96	223	434	494	252	226	133	52	58	2134
1992-93	20	49	34	40	235	466	480	346	225	201	100	54	2250
1993-94	33	11	71	67	256	455	408	396	273	238	200	118	2526
1994-95	91	43	46	154	446	522	388	301	338	293	242	143	3007
1995-96	48	79	73	98	192	344	398	289	270	187	149	128	2255
1996-97	75	73	71	155	255	333	431	317	270	194	76	74	2324
1997-98	32	8	2	109	222	422	370	348	301	269	218	109	2410
1998-99	81	59	57	147	320	550	483	403	428	315	289	170	3302
1999-00	104	47	75	92	229	423	381	327	328	207	169	94	2476
2000-01	106	56	32	151	367	409	497	384	282	334	107	95	2820
2001-02	76	60	74	100	225	408	489	321	340	241	212	120	2666
2002-03	48	56	60	138	218	379	339	354	276	313	190	108	2479
2003-04	70	16	27	88	325	396	448	365	181	187	142	101	2346
2004-05	23	6	27	151	286	390	470	275	237	240	101	90	2296
2005-06	34	58	86	115	225	363	410	333	426	276	166	68	2560
2006-07	53	59	84	137	278	448	517	346	281	264	205	117	2789
2007-08	39	45	48	158	270	474	508	378	344	284	228	138	2914
2008-09	90	52	53	79	215	492	419	354	340	277	182	70	2623
2009-10	91	35	31	104	250	483	418	298	299	278	223	102	2612
2010-	67	77	13	58	299	392							

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COOLING DEGREE DAYS (base 65°F) 2010 SAN FRANCISCO (KSFO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1981	0	0	0	17	1	61	17	7	7	3	0	0	113
1982	0	0	0	1	12	5	7	15	23	12	0	0	75
1983	0	0	0	0	7	16	42	66	119	32	0	0	282
1984	0	0	0	4	33	10	70	24	152	9	0	0	302
1985	0	0	0	8	1	38	50	28	11	33	0	0	169
1986	0	0	1	2	0	11	5	0	7	16	0	0	42
1987	0	0	0	4	29	15	9	26	17	43	0	0	143
1988	0	0	0	11	19	8	55	34	23	24	0	0	174
1989	0	0	0	40	6	35	8	15	2	16	0	0	122
1990	0	0	0	1	3	23	23	58	58	24	0	0	190
1991	0	0	0	0	0	6	21	29	13	33	2	0	104
1992	0	0	0	9	10	21	53	18	49	58	0	0	218
1993	0	0	0	0	18	58	33	91	19	26	1	0	246
1994	0	0	0	0	4	18	4	30	27	8	0	0	91
1995	0	0	0	0	0	26	48	26	25	29	0	0	154
1996	0	0	0	18	16	30	22	9	21	36	0	0	152
1997	0	0	1	0	65	1	5	78	107	15	7	0	279
1998	0	0	0	0	0	13	23	44	45	6	0	0	131
1999	0	0	0	9	0	15	17	19	41	24	0	0	125
2000	0	0	2	10	27	36	2	20	73	1	0	0	171
2001	0	0	0	0	38	30	13	10	16	28	0	0	135
2002	0	0	0	0	3	18	20	46	59	31	0	0	177
2003	0	0	0	0	10	48	16	69	90	38	0	0	271
2004	0	0	13	25	4	7	25	63	104	26	0	0	267
2005	0	0	5	0	1	3	22	17	14	6	0	0	68
2006	0	0	0	0	11	26	82	17	14	6	0	0	156
2007	0	0	1	0	21	12	19	32	35	6	0	0	126
2008	0	0	0	5	39	40	30	40	62	30	5	0	251
2009	0	0	0	23	15	14	13	61	73	12	3	0	214
2010	0	0	1	0	0	30	11	39	127	67	6	0	281

SNOWFALL (inches) 2010 SAN FRANCISCO (KSFO)

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	T	0.0	0.0	0.0	0.0	0.0	T
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	T
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
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	0.0	0.0	0.0	0.0	0.0
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	T	T	T	0.0	0.0	0.0	0.0	T
1989-90	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
1990-91	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
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
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	0.0	0.0	0.0										
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-													
POR= 52 YRS	0.0	0.0	0.0	0.0	0.0	T	T	T	T	0.0	0.0	0.0	T

WBAN : 23234

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. 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.</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 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.</p> <p>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.</p>
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2010

SAN FRANCISCO INTERNATIONAL AIRPORT CALIFORNIA (KSFO)

The station is located in the central Terminal Building of the San Francisco International Airport, which is on flat filled tideland on the west shore of San Francisco Bay. The bay borders the airport from the north to the south-southeast. San Bruno Mountain, 5 miles to the north-northwest, rises to 1,300 feet. A north-south trending ridge of coastal mountains, 4 miles to the west, varies in elevation from 700 to 1,900 feet, being highest southward along the peninsula. The Pacific Ocean west of the ridge is 6 miles from the airport. A broad gap to the northwest of the station, between San Bruno Mountain and the coastal mountains, allows a strong flow of marine air over the station and dominate the local climate.

San Francisco Airport enjoys a marine-type climate characterized by mild and moderately wet winters and by dry, cool summers. Winter rains, occurring from November through March, account for over 80 percent of the annual rainfall, and measurable precipitation occurs on an average of 10 days per month during this period. However, there are frequent dry periods lasting well over a week. Severe winter storms with gale winds and heavy rains occur only occasionally. Thunderstorms average two a year and may occur in any month.

The daily and annual range in temperature is small. A few frosty mornings occur during the winter but the temperature seldom drops below freezing. Winter temperatures generally rise to the high 50s in the early afternoon.

The summer weather is dominated by a cool sea breeze resulting in an average summer wind speed of nearly 15 mph. Winds are light in the early morning but normally reach 20 to 25 mph in the afternoon.

A sea fog, arriving over the station during the late evening or night as a low cloud, is another persistent feature of the summer weather. This high fog, occasionally producing drizzle or mist, usually disappears during the late forenoon. Despite the morning overcast, summer days are sunny. On the average a total of only 14 days during the four months from June through September are classified as cloudy.

Daytime temperatures are held down both by the morning low overcast and the afternoon strengthening sea breeze, resulting in daily maximum readings averaging about 70 degrees from May through August. However, during these months occasional hot spells, lasting a few days, are experienced without the usual high fog and sea breeze. September, when the sea breeze becomes less pronounced, is the warmest month with highs in the 70s. Low temperatures during the summer are in the mid-50s.

A strong temperature inversion with its base usually about 1,500 feet persists throughout the summer. Inversions close to the ground are infrequent in summer but rather common in fall and winter. As a consequence of these factors and the continued population and economic growth of the area, atmospheric pollution has become a problem of increasing importance.

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