

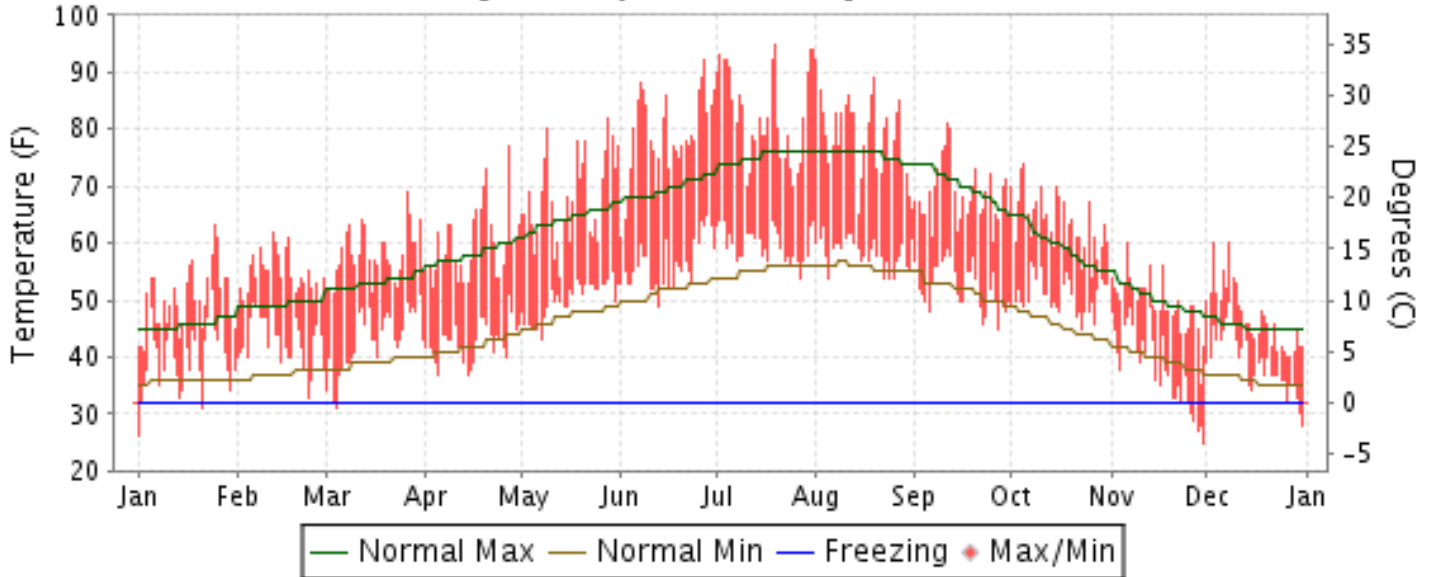


2015 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

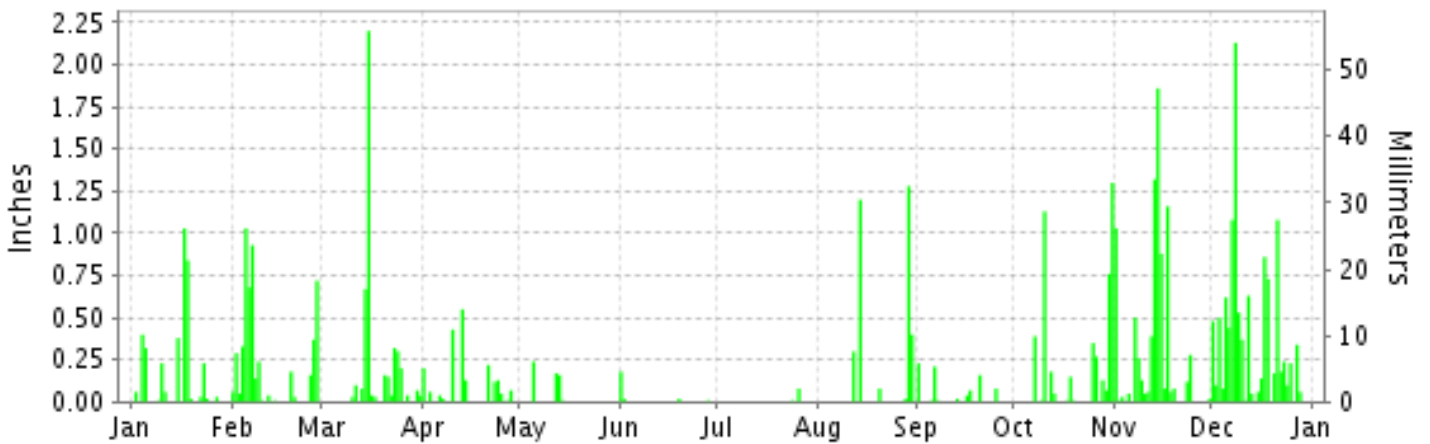
ISSN 0198-5442

SEATTLE, SEATTLE - TACOMA AIRPORT (KSEA)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL CENTERS for
ENVIRONMENTAL INFORMATION (NCEI)
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NCEI

METEOROLOGICAL DATA FOR 2015

SEATTLE (KSEA)

LATITUDE: 47° 26'N LONGITUDE: 122° 18'W ELEVATION (FT): GRND: 370 BARO: 434 TIME ZONE: PACIFIC (UTC -8) WBAN: 24233

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	50.3	54.5	57.9	59.9	68.0	78.9	82.6	79.0	68.5	63.6	49.4	47.1	63.3	
	HIGHEST DAILY MAXIMUM	63	62	69	77	82	92	95	92	81	74	60	60	95	
	DATE OF OCCURRENCE	25	12	26	27	28	27	19	01	11	05	06	08+	JUL 19	
	MEAN DAILY MINIMUM	39.8	43.0	43.2	42.8	50.2	56.4	59.9	58.5	52.5	50.9	38.2	38.9	47.9	
	LOWEST DAILY MINIMUM	26	33	31	37	43	49	54	54	45	45	25	28	25	
	DATE OF OCCURRENCE	01	23	04	14+	07	13	27	25+	27	23	30	31	NOV 30	
	AVERAGE DRY BULB	45.1	48.8	50.5	51.4	59.1	67.7	71.2	68.7	60.5	57.2	43.8	43.0	55.6	
	MEAN WET BULB	42.8	45.4	46.0	45.3	52.5	57.1	59.9	59.2	54.6	53.4	41.3	40.2	49.8	
	MEAN DEW POINT	40.6	41.5	41.0	39.4	47.2	49.2	52.0	52.5	50.2	50.6	38.0	36.6	44.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	1	10	1	0	0	0	0	0	12
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM <= 32°	3	0	2	0	0	0	0	0	0	0	7	3	15	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	612	448	441	401	181	29	2	10	142	231	626	677	3800	
	COOLING DEGREE DAYS	0	0	0	0	7	118	203	132	14	0	0	0	474	
RH	MEAN (PERCENT)	86	78	72	67	69	56	56	61	72	81	81	80	72	
	HOUR 04 LST	89	85	84	81	87	76	75	79	85	90	88	84	84	
	HOUR 10 LST	86	75	67	62	65	52	50	58	66	76	78	79	68	
	HOUR 16 LST	83	70	60	53	52	37	38	43	57	75	76	77	60	
	HOUR 22 LST	88	80	78	73	73	59	62	64	78	84	83	81	75	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	14	3	2	0	1	0	0	0	1	3	5	1	30	
	THUNDERSTORMS	0	0	0	1	0	0	0	2	0	1	0	0	4	
PR	MEAN STATION PRESS. (IN.)	29.73	29.63	29.65	29.63	29.54	29.57	29.54	29.52	29.54	29.54	29.62	29.41	29.58	
	MEAN SEA-LEVEL PRESS. (IN.)	30.23	30.12	30.15	30.12	30.02	30.05	30.02	30.00	30.03	30.03	30.11	29.90	30.07	
WINDS	RESULTANT SPEED (MPH)	1.5	1.4	2.2	2.0	2.4	2.7	2.2	1.8	0.9	1.0	1.1	6.1	1.1	
	RES. DIR. (TENS OF DEGS.)	16	09	20	20	25	32	29	26	24	18	15	16	21	
	MEAN SPEED (MPH)	5.4	6.9	6.5	7.4	6.3	7.3	6.7	7.1	6.8	6.8	7.9	9.7	7.1	
	PREVAIL.DIR.(TENS OF DEGS.)	19	02	21	20	21	01	22	21	36	36	02	11	21	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	40	32	31	25	23	22	18	35	24	31	37	39	40	
	DIR. (TENS OF DEGS.)	22	22	20	20	22	34	34	21	22	20	21	22	22	
	DATE OF OCCURRENCE	18	02	15	11	04	05	17	29	20	10	17	09	JAN 18	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	59	43	39	33	32	28	28	46	31	45	51	53	59	
DIR. (TENS OF DEGS.)	22	21	19	22	22	34	24	21	21	20	20	22	22		
DATE OF OCCURRENCE	18	02	15	11	22	05	13	29	20	30	17	09	JAN 18		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.66	5.27	4.47	2.03	0.58	0.23	0.09	3.28	0.83	4.81	8.37	11.21	44.83	
	GREATEST 24-HOUR (IN.)	1.62	1.12	2.20	0.60	0.31	0.20	0.08	1.35	0.23	1.79	2.08	2.36	2.36	
	DATE OF OCCURRENCE	17-18	05-06	15	13-14	12-13	01-02	26	29-30	01	30-31	14-15	08-09	DEC 08-09	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	14	17	16	13	4	4	2	6	9	14	20	25	144		
PRECIPITATION 0.10	7	11	8	7	3	1	0	4	3	9	11	20	84		
PRECIPITATION 1.00	1	1	1	0	0	0	0	2	0	2	4	3	14		
SNOWFALL	SNOW,ICE PELLETS,HAIL	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	T	
	TOTAL (IN.)	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	T	
	GREATEST 24-HOUR (IN.)	18							12				27+	DEC 27+	
	DATE OF OCCURRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0	
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

NORMALS, MEANS, AND EXTREMES SEATTLE (KSEA)

LATITUDE:
47° 26'N

LONGITUDE:
122° 18'W

ELEVATION (FT):
GRND: 370 BARO: 434

TIME ZONE:
PACIFIC (UTC -8)

WBAN: 24233

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	47.2	49.9	53.7	58.5	64.7	69.9	75.8	76.3	70.5	59.7	50.9	45.7	60.2
	MEAN DAILY MAXIMUM	68	45.1	49.0	52.3	57.4	64.2	69.6	74.4	75.1	69.6	59.4	50.5	45.5	59.3
	HIGHEST DAILY MAXIMUM	71	64	70	78	85	93	96	103	99	98	89	74	66	103
	YEAR OF OCCURRENCE		1981	1968	2004	1976	1963	1995	2009	1981	1988	1987	2010	2014	JUL 2009
	MEAN OF EXTREME MAXS.	68	55.6	59.5	64.5	73.2	81.2	85.1	89.8	88.5	84.4	72.7	61.2	55.9	72.6
	NORMAL DAILY MINIMUM	30	36.9	36.9	39.3	42.2	47.3	51.9	55.6	55.9	52.1	45.8	40.0	35.6	45.0
	MEAN DAILY MINIMUM	68	35.2	36.8	38.3	41.3	46.6	51.5	54.2	55.2	51.7	45.6	39.6	36.0	44.3
	LOWEST DAILY MINIMUM	71	0	1	11	29	28	38	43	44	35	28	6	6	0
	YEAR OF OCCURRENCE		1950	1950	1955	1975	1954	1952	1954	1955	1972	1949	1955	1968	JAN 1950
	MEAN OF EXTREME MINS.	68	22.9	25.9	29.6	34.1	38.7	45.5	49.4	49.6	43.6	35.3	28.0	24.1	35.6
	NORMAL DRY BULB	30	42.0	43.4	46.5	50.3	56.0	60.9	65.7	66.1	61.3	52.8	45.4	40.6	52.6
	MEAN DRY BULB	68	40.2	42.9	45.3	49.4	55.4	60.6	64.3	65.2	60.6	52.5	45.1	40.8	51.9
	MEAN WET BULB	32	38.3	38.3	41.1	43.6	48.3	52.4	56.0	56.6	53.8	48.1	41.5	37.2	46.3
	MEAN DEW POINT	32	37.0	36.7	39.6	42.2	47.0	50.8	54.3	54.9	52.3	47.0	40.7	36.3	44.9
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.1	0.5	1.4	0.8	0.2	0.0	0.0	0.0	3.0
	MAXIMUM <= 32	30	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.6
MINIMUM <= 32	30	6.4	5.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.6	7.7	23.9	
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	711	605	574	440	285	144	49	36	132	380	586	755	4697
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	6	21	71	70	21	0	0	0	189
RH	NORMAL (PERCENT)	30	81	77	76	73	72	70	68	68	73	80	82	82	75
	HOURLY 04 LST	30	85	83	86	85	86	85	83	84	88	89	86	85	85
	HOURLY 10 LST	30	82	78	76	72	70	69	67	67	72	79	81	83	75
	HOURLY 16 LST	30	75	68	62	58	56	55	50	48	54	66	76	79	62
	HOURLY 22 LST	30	81	78	78	76	75	74	70	70	76	82	83	82	77
S	PERCENT POSSIBLE SUNSHINE	30	28	40	50	52	56	56	64	65	62	43	28	23	47
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	52	4.8	2.8	1.6	0.7	0.4	0.3	0.8	1.4	2.9	5.2	3.8	4.9	29.6
	THUNDERSTORMS	68	0.2	0.3	0.6	0.7	0.8	0.6	0.7	0.8	0.6	0.4	0.6	0.3	6.6
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	52	6.7	6.5	6.3	6.2	5.7	5.6	4.2	4.5	4.8	5.9	6.6	6.7	5.8
	MIDNIGHT-MIDNIGHT (OKTAS)	32	6.6	6.1	5.8	5.9	5.5	5.3	4.1	4.2	4.4	5.3	6.3	6.4	5.5
	MEAN NO. DAYS WITH: CLEAR	52	2.8	3.0	3.4	2.7	4.4	5.1	10.2	9.0	8.1	4.0	2.5	2.3	57.5
	PARTLY CLOUDY	52	3.9	4.2	5.8	7.3	8.8	7.9	9.5	9.7	8.5	7.4	4.2	3.9	81.1
	CLOUDY	52	24.3	21.1	21.9	20.0	17.7	16.9	10.5	11.9	13.0	19.5	23.3	24.9	225.0
PR	MEAN STATION PRESSURE(IN)	32	29.55	29.55	29.54	29.56	29.55	29.56	29.57	29.55	29.55	29.57	29.55	29.57	29.56
	MEAN SEA-LEVEL PRES. (IN)	32	30.08	30.05	30.03	30.05	30.04	30.04	30.05	30.03	30.03	30.06	30.04	30.06	30.05
WINDS	MEAN SPEED (MPH)	32	8.4	8.5	8.5	8.2	7.8	7.7	7.4	7.0	7.0	7.3	8.4	8.4	7.9
	PREVAIL.DIR.(TENS OF DEGS)	49	20	20	20	22	22	22	22	22	36	20	20	19	22
	MAXIMUM 2-MINUTE: SPEED (MPH)	19	41	39	44	37	30	36	28	35	36	39	43	52	52
	DIR. (TENS OF DEGS)		21	21	19	19	21	23	22	21	20	22	22	22	22
	YEAR OF OCCURRENCE		2014	2008	1999	2010	2010	2008	2014	2015	1999	2007	2013	2006	DEC 2006
	MAXIMUM 3-SECOND SPEED (MPH)	19	59	53	60	47	40	46	36	46	43	53	59	69	69
	DIR. (TENS OF DEGS)		22	22	18	18	22	23	22	21	21	22	21	22	22
YEAR OF OCCURRENCE		2015	2008	1999	2010	2005	2008	2014	2015	2011	2007	2013	2006	DEC 2006	
PRECIPITATION	NORMAL (IN)	30	5.57	3.50	3.72	2.71	1.94	1.57	0.70	0.88	1.50	3.48	6.57	5.35	37.49
	MAXIMUM MONTHLY (IN)	71	12.92	9.11	9.44	6.53	4.76	3.90	2.39	4.59	6.17	8.96	15.63	11.85	15.63
	YEAR OF OCCURRENCE		1953	1961	2014	1991	1948	1946	1983	1975	2013	2003	2006	1979	NOV 2006
	MINIMUM MONTHLY (IN)	71	0.58	0.35	0.57	0.33	0.12	0.13	T	T	T	0.31	0.74	1.37	0.12
	YEAR OF OCCURRENCE		1985	1993	1965	1956	1992	1951	2013	2012	1991	1987	1976	1978	MAY 1992
	MAXIMUM IN 24 HOURS (IN)	71	3.22	3.41	2.86	3.32	1.83	2.21	0.85	1.75	2.23	5.02	3.78	4.18	5.02
	YEAR OF OCCURRENCE		1986	1951	1972	1991	1969	2008	1981	1968	1978	2003	2006	2007	OCT 2003
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	18.2	14.7	16.9	14.3	12.0	9.1	5.0	4.8	7.9	13.1	18.4	17.6	152.0
PRECIPITATION >= 1.00	30	0.8	0.3	0.3	0.2	0.0	0.2	0.0	0.1	0.1	0.5	1.2	0.9	4.6	
SNOWFALL	NORMAL (IN)	30	1.4	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.7	6.8
	MAXIMUM MONTHLY (IN)	59	57.2	13.1	18.2	2.3	T	0.0	0.0	T	T	2.0	17.5	22.1	57.2
	YEAR OF OCCURRENCE		1950	1949	1951	1972	1993		2013	2015	1972	1971	1985	1968	JAN 1950
	MAXIMUM IN 24 HOURS (IN)	59	21.4	9.8	7.4	2.3	T	0.0	T	T	T	2.0	9.4	13.0	21.4
	YEAR OF OCCURRENCE'		1950	1990	1989	1972	1993		1980	2015	1972	1971	1946	1968	JAN 1950
	MAXIMUM SNOW DEPTH (IN)	54	21	11	7	2	0	0	0	0	0	2	8	10	21
	YEAR OF OCCURRENCE		1969	1969	1989	1972						1971	1985	1974	JAN 1969
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.6	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	2.2	

PRECIPITATION (inches) 2015 SEATTLE (KSEA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	8.54	4.41	2.67	1.38	1.71	0.68	1.10	0.10	1.89	4.21	7.98	3.67	38.34
1987	5.98	2.05	5.53	2.61	2.38	0.16	0.39	0.29	0.91	0.31	3.21	6.11	29.93
1988	4.07	0.71	3.75	3.20	3.01	1.56	0.50	0.28	1.75	2.24	8.43	3.48	32.98
1989	2.78	3.43	5.79	2.80	2.78	1.14	0.64	0.89	0.54	2.98	6.13	4.79	34.69
1990	9.41	3.72	2.58	2.54	1.98	3.05	0.58	0.71	0.05	5.79	10.71	3.63	44.75
1991	4.46	4.69	4.66	6.53	1.39	1.29	0.28	2.17	T	1.31	5.33	3.31	35.42
1992	7.82	3.09	1.68	4.12	0.12	1.14	0.89	0.66	1.15	2.45	5.57	4.09	32.78
1993	4.09	0.35	4.80	4.54	2.86	2.48	1.27	0.16	0.03	1.54	2.20	4.48	28.80
1994	2.51	4.47	3.17	2.27	1.43	1.25	0.28	0.30	1.69	3.51	5.79	8.15	34.82
1995	4.48	4.97	4.07	2.05	0.81	1.46	1.34	1.81	0.91	3.93	10.40	6.37	42.60
1996	7.34	8.35	2.06	5.37	2.07	0.59	.77	1.32	1.85	5.54	5.23	10.18	50.67
1997	7.02	1.99	8.15	4.32	1.87	1.64	1.20	1.27	3.41	5.83	3.93	2.63	43.26
1998	7.15	3.31	3.96	0.99	1.98	1.11	0.41	0.35	0.72	3.48	11.62	8.98	44.06
1999	6.84	6.95	3.66	1.49	2.12	1.86	1.18	0.92	0.17	2.26	9.60	5.06	42.11
2000	3.77	5.25	2.82	1.48	3.27	1.61	0.23	0.33	1.12	3.00	3.27	2.51	28.66
2001	2.70	2.07	2.73	3.16	1.39	3.05	1.03	2.32	0.83	3.13	9.26	5.89	37.56
2002	5.98	4.17	2.82	4.29	1.11	1.73	0.64	0.04	0.42	0.67	3.51	5.98	31.36
2003	8.39	1.76	6.34	2.74	1.16	0.51	0.06	0.32	0.89	8.96	6.77	3.88	41.78
2004	6.36	2.44	2.14	0.65	2.51	0.71	0.16	3.00	2.80	2.80	3.16	4.37	31.10
2005	4.44	1.20	3.71	3.68	3.32	1.63	1.03	0.29	0.75	3.02	5.52	6.85	35.44
2006	11.65	2.55	2.18	2.73	1.65	1.67	0.06	0.02	1.43	1.55	15.63	7.30	48.42
2007	6.22	3.38	4.42	0.69	1.46	1.34	1.44	0.73	3.16	3.32	3.71	9.08	38.95
2008	4.26	1.47	3.65	1.90	0.89	1.64	0.48	2.87	0.78	2.17	6.52	4.10	30.73
2009	5.40	1.51	4.16	3.36	3.61	0.18	0.06	1.16	1.75	5.54	8.96	2.75	38.44
2010	6.17	3.52	3.76	3.49	2.83	2.49	0.31	0.64	4.80	5.24	5.05	8.69	46.99
2011	4.99	3.05	6.29	4.47	3.20	1.42	0.70	0.13	1.29	3.45	5.16	2.24	36.39
2012	6.83	3.63	7.20	2.68	2.05	2.96	1.04	T	0.03	6.71	8.28	6.85	48.26
2013	4.16	1.58	2.74	5.89	2.38	1.30	T	1.35	6.17	1.54	3.79	1.66	32.56
2014	3.70	6.11	9.44	4.18	3.15	0.73	0.77	1.81	2.23	6.75	4.84	4.79	48.50
2015	3.66	5.27	4.47	2.03	0.58	0.23	0.09	3.28	0.83	4.81	8.37	11.21	44.83
POR= 68 YRS	5.67	3.94	3.89	2.65	1.82	1.45	0.72	1.11	1.80	3.59	6.12	5.82	38.58

WBAN : 24233

AVERAGE TEMPERATURE (°F) 2015 SEATTLE (KSEA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1986	44.9	42.8	49.2	48.1	55.7	62.7	61.7	68.4	59.1	54.3	45.3	42.0	52.9
1987	40.5	46.3	48.9	52.0	56.9	62.6	64.2	66.1	62.6	55.8	48.5	39.2	53.6
1988	40.1	44.4	45.6	50.3	54.9	59.6	65.3	65.4	60.5	55.4	45.4	41.9	52.4
1989	40.5	35.9	43.7	53.4	56.0	63.2	64.5	65.3	64.1	53.1	47.0	42.9	52.5
1990	42.5	40.0	47.1	52.1	54.7	59.8	68.0	67.3	63.4	51.2	46.6	35.3	52.3
1991	40.0	47.7	44.1	49.1	54.3	58.9	66.8	66.6	62.9	52.9	47.3	43.7	52.9
1992	43.9	47.3	50.3	53.1	59.8	65.0	66.7	66.8	60.0	54.4	45.5	38.8	54.3
1993	37.9	42.3	48.1	50.6	59.6	60.6	61.2	65.5	61.9	55.4	42.0	41.4	52.2
1994	44.9	40.4	48.5	52.3	58.2	60.6	67.9	67.3	64.4	52.8	42.4	41.7	53.5
1995	46.4	45.9	47.8	51.8	60.1	62.7	67.0	63.0	64.0	52.5	49.1	42.4	54.4
1996	39.7	43.2	47.2	51.5	53.1	60.5	67.9	66.5	59.2	51.1	43.1	39.3	51.9
1997	41.1	41.9	44.8	49.2	58.2	59.5	64.5	67.7	62.2	51.3	48.4	41.5	52.5
1998	42.2	45.8	46.6	50.4	54.9	59.9	67.6	66.8	63.1	52.6	46.7	39.9	53.0
1999	42.0	42.5	44.3	48.5	51.8	58.2	62.4	64.8	60.8	52.2	47.9	42.0	51.5
2000	40.3	43.7	44.5	50.9	53.8	60.6	64.3	63.5	60.2	52.8	42.5	40.8	51.5
2001	42.0	40.7	45.4	48.0	55.4	57.6	62.5	64.8	59.8	50.9	46.7	41.5	51.3
2002	40.7	41.9	41.9	48.8	53.1	61.1	65.0	65.2	60.6	51.4	47.1	43.0	51.7
2003	45.8	41.7	46.8	48.9	54.8	62.8	67.9	66.4	62.6	54.3	42.8	41.8	53.1
2004	40.3	44.5	47.6	53.3	57.0	63.4	68.2	67.1	58.8	53.3	45.0	42.5	53.4
2005	42.1	42.6	49.1	50.8	58.2	59.9	65.6	66.8	59.5	54.0	42.9	42.7	52.9
2006	46.6	42.9	45.5	50.3	56.8	63.1	67.5	65.9	62.3	52.3	44.2	40.6	53.2
2007	38.0	43.6	47.1	50.6	56.6	60.3	67.8	65.6	60.0	50.6	44.3	39.8	52.0
2008	38.7	43.9	43.5	47.0	56.1	58.4	64.9	65.9	61.0	51.7	49.2	36.9	51.4
2009	39.1	41.7	41.7	49.2	56.3	63.8	69.5	65.6	62.4	52.2	46.7	37.9	52.2
2010	47.0	46.8	47.1	49.5	53.2	58.3	64.6	65.4	60.9	53.3	43.2	43.2	52.7
2011	41.8	39.3	45.2	45.5	52.3	59.4	64.2	65.8	64.0	52.2	43.1	39.2	51.0
2012	39.8	43.3	43.2	50.8	55.3	58.3	64.3	67.9	62.7	53.8	46.9	41.5	52.3
2013	38.2	44.4	47.9	50.9	58.6	64.8	68.0	69.4	63.5	51.7	47.9	39.7	53.8
2014	44.3	41.7	48.5	52.0	59.1	62.0	69.2	69.1	64.8	58.0	46.0	45.3	55.0
2015	45.1	48.8	50.5	51.4	59.1	67.7	71.2	68.7	60.5	57.2	43.8	43.0	55.6
POR= 68 YRS	40.2	42.9	45.3	49.4	55.4	60.6	64.3	65.2	60.6	52.5	45.1	40.8	51.8

HEATING DEGREE DAYS (base 65°F) 2015 SEATTLE (KSEA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	58	37	102	284	485	792	767	590	593	435	316	165	4624
1988-89	60	38	162	291	583	708	749	807	654	340	273	93	4758
1989-90	41	29	68	362	534	677	689	696	547	379	312	158	4492
1990-91	29	23	61	420	546	913	767	475	639	472	322	179	4846
1991-92	24	40	90	368	526	654	645	507	447	351	171	63	3886
1992-93	26	22	151	322	580	805	834	629	517	427	170	135	4618
1993-94	113	48	120	290	685	723	618	682	503	373	209	132	4496
1994-95	23	5	43	369	671	713	570	527	527	390	160	118	4116
1995-96	19	77	60	382	471	693	779	630	543	399	362	135	4550
1996-97	42	32	167	422	649	793	732	640	622	468	211	159	4937
1997-98	38	11	95	416	489	718	700	533	562	433	307	152	4454
1998-99	21	21	79	376	543	771	706	623	634	487	400	218	4879
1999-00	101	42	141	393	504	706	760	611	628	415	340	154	4795
2000-01	60	65	146	373	668	745	707	675	599	504	305	218	5065
2001-02	86	44	150	430	547	723	746	640	709	481	363	143	5062
2002-03	55	46	134	412	533	675	590	648	556	478	308	117	4552
2003-04	16	11	108	326	656	713	757	589	530	344	243	97	4390
2004-05	23	19	177	355	596	691	702	622	487	419	219	150	4460
2005-06	34	17	161	336	655	687	565	612	596	433	255	91	4442
2006-07	33	31	110	388	616	752	833	589	545	423	267	146	4733
2007-08	6	24	164	440	613	773	808	601	659	532	281	226	5127
2008-09	42	53	123	405	468	864	797	649	714	465	273	70	4923
2009-10	29	36	99	385	545	835	552	502	552	456	359	196	4546
2010-11	76	61	124	354	648	669	711	714	612	575	386	165	5095
2011-12	45	26	80	389	652	791	778	626	670	421	298	194	4970
2012-13	49	15	89	340	534	724	823	567	523	416	203	49	4332
2013-	9	6	96	405	506	778							
2013-14	9	6	96	405	506	778	632	643	504	385	188	94	4246
2014-15	14	9	42	212	563	603	612	448	441	401	181	29	3555
2015-	2	10	142	231	626	677							

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COOLING DEGREE DAYS (base 65°F) 2015 SEATTLE (KSEA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1986	0	0	0	0	22	27	10	124	26	0	0	0	209
1987	0	0	0	0	11	42	39	80	35	5	0	0	212
1988	0	0	0	0	7	10	79	56	36	1	0	0	189
1989	0	0	0	0	2	47	32	45	46	0	0	0	172
1990	0	0	0	0	0	10	129	100	21	0	0	0	260
1991	0	0	0	0	0	0	85	96	34	0	0	0	215
1992	0	0	0	0	18	68	83	85	8	0	0	0	262
1993	0	0	0	0	10	8	1	72	32	0	0	0	123
1994	0	0	0	0	1	5	120	86	29	0	0	0	241
1995	0	0	0	0	15	55	88	20	34	0	0	0	212
1996	0	0	0	1	0	2	137	81	1	0	0	0	222
1997	0	0	0	0	4	0	29	100	17	0	0	0	150
1998	0	0	0	2	1	6	108	84	29	0	0	0	230
1999	0	0	0	0	0	18	29	43	22	0	0	0	112
2000	0	0	0	0	0	28	44	27	8	0	0	0	107
2001	0	0	0	0	11	3	14	44	0	0	0	0	72
2002	0	0	0	0	0	33	63	59	7	0	0	0	162
2003	0	0	0	0	1	56	111	63	42	0	0	0	273
2004	0	0	0	0	0	53	129	91	0	0	0	0	273
2005	0	0	0	0	17	5	58	78	4	0	0	0	162
2006	0	0	0	0	8	42	118	67	35	0	0	0	270
2007	0	0	0	0	11	13	99	50	19	0	0	0	192
2008	0	0	0	0	14	36	47	88	8	0	0	0	193
2009	0	0	0	0	7	41	174	64	28	0	0	0	314
2010	0	0	0	0	0	2	71	81	8	0	0	0	162
2011	0	0	0	0	0	2	27	60	59	0	0	0	148
2012	0	0	0	0	3	0	33	113	28	0	0	0	177
2013	0	0	0	0	13	49	113	155	55	0	0	0	385
2014	0	0	0	1	14	11	152	145	44	2	0	0	369
2015	0	0	0	0	7	118	203	132	14	0	0	0	474

SNOWFALL (inches) 2015 SEATTLE (KSEA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1987-88	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T	0.0	0.0	0.0	T
1988-89	0.0	0.0	0.0	0.0	T	T	1.0	5.8	7.4	T	T	0.0	14.2
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	T	9.8	T	0.0	T	0.0	9.8
1990-91	0.0	0.0	0.0	0.0	0.0	3.8	0.4	0.0	2.5	T	0.0	0.0	6.7
1991-92	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
1992-93	0.0	0.0	0.0	0.0	T	6.7	1.3	1.4	0.0	0.0	T	0.0	9.4
1993-94	0.0	0.0	0.0	0.0	T	0.0	0.0	2.1	0.2	0.0	0.0	0.0	2.3
1994-95	0.0	0.0	0.0	0.0	T	1.9	0.0	0.2	T	0.0	0.0	0.0	2.1
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.5	0.0	0.0	0.0	0.0	11.0
1996-97	0.0	0.0	0.0										
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-06													
2006-07													
2007-08													
2008-09						13.9	3.9	2.5	3.0	T	0.0	0.0	
2009-10	0.0	0.0	0.0	0.0	T	T	0.0	0.0	T	0.0	0.0	0.0	T
2010-11	0.0	0.0	0.0	0.0	2.5	0.5	2.8	2.0	0.0	T	0.0	0.0	7.8
2011-12	0.0	0.0	0.0	0.0	T	0.0	9.6	T	0.9	T	0.0	0.0	10.5
2012-13	0.0	0.0	0.0	0.0	0.0	0.6	T	0.0	T	0.0	0.0	0.0	0.6
2013-	0.0	0.0	0.0	0.0	0.0	1.1							
2013-14	0.0	0.0	0.0	0.0	0.0	1.1	0.0	2.9	T	0.0	0.0	0.0	4.0
2014-15	0.0	T	0.0	0.0	0.8	0.0	T	0.0	0.0	0.0	0.0	0.0	0.8
2015-	0.0	T	0.0	0.0	0.0	T							
POR= 69 YRS	0.0	T	0.0	0.0	0.7	2.1	3.9	1.4	1.0	T	T	0.0	9.1

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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 SEATTLE SEATTLE - TACOMA AIRPORT (KSEA)

The Seattle-Tacoma International Airport is located 6 miles south of the Seattle city limits and 14 miles north of Tacoma. It is situated on a low ridge lying between Puget Sound on the west and the Green River valley on the east with terrain sloping moderately to the shores of Puget Sound some 2 miles to the west. The Olympic Mountains, rising sharply from Puget Sound, are about 50 miles to the northwest. Rather steep bluffs border the Green River Valley about 2.5 miles to the east and the foothills of the Cascade Range begin 10 to 15 miles to the east of the airport.

The mild climate of the Pacific Coast is modified by the Cascade Mountains and, to a lesser extent, by the Olympic Mountains. The climate is characterized by mild temperatures, a pronounced though not sharply defined rainy season, and considerable cloudiness, particularly during the winter months. The Cascades are very effective in shielding the Seattle-Tacoma area from the cold, dry continental air during the winter and the hot, dry continental air during the summer months. The extremes of temperature that occur in western Washington are the result of the occasional pressure distributions that force the continental air into the Puget Sound area. But the prevailing southwesterly circulation keeps the average winter daytime temperatures in the 40s and the nighttime readings in the 30s. During the summer, daytime temperatures are usually in the 70s with nighttime lows in the 50s. Extremes of temperatures, both in the winter and summer, are usually of short duration. The dry season is centered around July and early August with July being the driest month of the year. The rainy season extends from October to March with December normally the wettest month, however, precipitation is rather evenly distributed through the winter and early spring months with more than 75 percent of the yearly precipitation falling during the winter wet season. Most of the rainfall in the Seattle area comes from storms common to the middle latitudes. These disturbances are most vigorous during the winter as they move through western Washington. The storm track shifts to the north during the summer and those that reach the State are not the wind and rain producers of the winter months. Local summer afternoon showers and a few thunderstorms occur in the Seattle-Tacoma area but they do not contribute materially to the precipitation.

The occurrence of snow in the Seattle-Tacoma area is extremely variable and usually melts before accumulating measurable depths. There are winters on record with only a trace of snow, but at the other extreme, over 21 inches has fallen in a 24-hour period. Usually, winter storms do not produce snow unless the storm moves in such a way to bring cold air out of Canada directly or with only a short over water trajectory.

The highest winds recorded in the Seattle-Tacoma area were associated with strong storms crossing the state from the southwest. Prevailing winds are from the southwest but occasional severe winter storms will produce strong northerly winds. Winds during the summer months are relatively light with occasional land-sea breeze effects creating afternoon northerly winds of 8 to 15 miles an hour. Fog or low clouds that form over the southern Puget Sound area in the late summer, fall, and early winter months, often dominate the weather conditions during the late night and early morning hours with visibilities occasionally lower for a few hours near sunrise. Most of the summer clouds form along the coast and move into the Seattle area from the southwest.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is November 11 and the average last occurrence in the spring is March 24.

Station History

SEATTLE, WA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
TACOMA	1944-11-01	1944-11-21	47° 25'	-122° 18'			AIRWAYS
SEATTLE TACOMA AP	1973-01-01	1981-02-01	47° 27'	-122° 18'	400		COOP, WXSVC
SEATTLE TACOMA INTL AP	1981-12-31	1996-10-01	47° 27'	-122° 18'	400		COOP
SEATTLE TACOMA AP	1948-01-01	1949-01-01	47° 25'	-122° 18'	384		AIRWAYS, COOP
SEATTLE TACOMA INTL AP	2002-04-02	2011-03-07	47° 26'	-122° 18'	370		ASOS, COOP
SEATTLE TACOMA AP	1949-01-01	1950-01-01	47° 27'	-122° 18'	384		AIRWAYS, COOP
SEATTLE TACOMA INTL AP	1981-02-01	1981-12-31	47° 27'	-122° 18'	400		COOP, WXSVC
SEATTLE TACOMA INTL AP	1996-10-01	2002-04-02	47° 27'	-122° 18'	400	.5 MI W	ASOS, COOP
SEATTLE TACOMA INTL AP	2011-03-07	Present	47° 26'	-122° 18'	370		ASOS, COOP
SEATTLE TACOMA AP	1950-01-01	1973-01-01	47° 27'	-122° 18'	400		AIRWAYS, COOP
SEATTLE TACOMA AP	1944-11-21	1948-01-01	47° 25'	-122° 18'			AIRWAYS

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1996-10-01	2002-04-02	HOURLY	2400	TB	RCRD	
PRECIP	2007-05-17	2011-03-07	HOURLY	2400	TB	RCRD	
PRECIP	2007-05-17	2011-03-07	DAILY	2400	TB	RCRD	
TEMP	1996-10-01	2002-04-02	DAILY	2400	HYGR		
PRECIP	2002-04-02	2007-05-17	HOURLY	2400	TB	RCRD	
PRECIP	1982-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	1982-01-01	1995-07-01	HOURLY	2400			
WIND	2007-05-17	2011-03-07	HOURLY	2400	UNKN		
TEMP	2011-03-07	Present	DAILY	2400	ATEMP		
WIND	1996-10-01	2002-04-02	HOURLY	2400	ANEMCUP		
TEMP	2007-05-17	2011-03-07	DAILY	2400	ATEMP		
PRECIP	1944-11-01	1982-01-01	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	1995-07-01	1996-10-01	DAILY	2400	UNIV	RCRD	ROOF
TEMP	2002-04-02	2007-05-17	DAILY	2400	ATEMP		
WIND	2002-04-02	2007-05-17	HOURLY	2400	ANEMCUP		
WIND	2011-03-07	Present	HOURLY	2400	UNKN		
PRECIP	1995-07-01	1996-10-01	HOURLY	2400	ANEMSONIC		
TEMP	1995-07-01	1996-10-01	DAILY	2400	HYGR		
PRECIP	2011-03-07	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2011-03-07	Present	DAILY	2400	PCPNX		
TEMP	1944-11-01	1982-01-01	DAILY	2400	HYGR		
TEMP	1982-01-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1996-10-01	2002-04-02	DAILY	2400	TB	RCRD	
PRECIP	2002-04-02	2007-05-17	DAILY	2400	TB	RCRD	

* 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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