

Pacific Northwest National Laboratory

Operated by Battelle for the U.S. Department of Energy

HANFORD METEOROLOGY STATION

MONTH

25 MILES N.W. OF RICHLAND, WASHINGTON

CLIMATOLOGICAL DATA

LATITUDE 46° 34' N., LONGITUDE 119° 36' W., ELEVATION (GROUND) 733 FEET

December 2009

DATE	TEMPERATURE (°F) (3-FT LEVEL)						PRECIPITATION			WIND (50-FT LEVEL)				AVERAGE REL HUM %	SOLRAD (LANGLEYS)	SKY COVER (TENTHS FROM SUNRISE TO SUNSET)	FRONTS AND MISC. PHENOMENA
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HEATING DEGREE DAYS (BASE 65°F)	COOLING DEGREE DAYS (BASE 65°F)	TOTAL (WATER EQUIVALENT IN IN.)	SNOW, ICE PELLETS (SLEET) (IN.)	SNOW, ICE PELLETS (SLEET) OR ICE ON GROUND AT 0400 (IN.)	PREVAILING DIRECTION	AVERAGE SPEED (MPH)	PEAK GUST SPEED (MPH)	PEAK GUST DIRECTION				
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17
1	44	27	36	0	29	0				NW	7.4	16	NE	66.1	130.8	5	
2	40	23	32	-3	33	0				NW	6.9	15	NW	69.5	138.0	0	
3	32	16	24	-11	41	0				S	3.9	10	NW	85.4	123.6	7	
4	31	14	22	-12	43	0				W	3.7	8	SSE	89.5	67.8	8	F
5	33	16	24	-10	41	0				SE	4.3	19	ENE	88.8	130.8	6	F, KFR 2345
6	34	16	25	-8	40	0				NE	21.4	46	ENE	35.9	84.0	10	BD
7	23	6	14	-19	51	0				NE	10.1	22	NE	36.1	135.0	0	
8	23	-1	11	-22	54	0				SW	5.0	11	NE	58.7	136.2	3	
9	24	0	12	-21	53	0				W	3.5	8	E	67.0	133.8	4	
10	21	-3	9	-24	56	0				W	4.0	9	WSW	67.6	133.2	0	
11	23	-2	10	-23	55	0				NW	2.9	7	SW	74.7	139.8	9	F
12	24	6	15	-18	50	0				SE	2.4	8	NW	76.3	50.4	10	
13	33	10	22	-11	43	0				E	4.1	11	NNW	81.8	96.6	6	
14	32	18	25	-9	40	0	0.06	0.7		NW	7.9	19	WNW	74.6	127.8	8	F
15	29	24	26	-6	39	0	0.14	0.5	1	NW	5.1	18	WNW	93.0	38.4	10	F, GL, KFR 1900
16	31	19	25	-7	40	0	T		1	NW	3.7	11	NNW	96.9	78.6	8	F, GL
17	34	24	29	-2	36	0	T		1	NW	7.3	19	WNW	95.4	93.0	8	F
18	39	34	36	+5	29	0	T		1	W	3.4	12	WNW	93.3	56.4	10	F
19	37	33	35	+4	30	0	0.04			NW	3.4	11	WNW	99.0	38.4	10	F
20	38	35	36	+6	29	0	0.06			NW	3.1	12	WNW	98.6	27.0	10	F
21	48	30	39	+9	26	0	0.11			NW	6.6	27	W	90.8	43.8	10	F, KFR 1545
22	44	26	35	+5	30	0				W	5.4	14	W	72.8	111.6	3	F
23	37	19	28	-2	37	0				NW	3.8	12	WNW	79.8	121.2	8	
24	34	17	26	-4	39	0				NW	7.1	16	WNW	81.2	129.6	5	
25	31	21	26	-4	39	0				NW	7.0	13	NW	82.2	51.6	10	
26	31	14	22	-8	43	0				NW	5.2	12	NW	85.3	85.8	6	
27	29	11	20	-10	45	0				NW	3.8	9	ESE	93.2	159.0	2	
28	28	22	25	-4	40	0	0.03	0.3		NW	2.8	6	NNW	90.1	48.6	10	
29	29	24	26	-3	39	0	0.06	1.2	T	NE	3.5	9	NE	93.5	28.8	10	F
30	31	14	22	-7	43	0	T	T	1	NW	4.0	10	SSW	94.2	143.4	4	F
31	30	18	24	-4	41	0	0.21	2.1	1	NW	4.1	12	NW	98.2	25.8	10	F, WFR 1400
SUM					1254	0	0.71	4.8									
AVG	32.2	17.1									5.4						6.8

NOTES:

(1) Unless otherwise specified, the daily summary period is from midnight to midnight Pacific Standard Time.

(2) "T" in Columns 7-9 denotes a trace.

(3) The Langley (Col. 15) is the unit used to denote one gram calorie/cm².

TEMPERATURE (°F) (3-FT LEVEL)		PRECIPITATION (IN.)				MISC. PHENOMENA NOTATIONS USED IN COL. 17						
TOTAL FOR THE MONTH		0.71				A - Hail AU - Aurora BD - Blowing Dust						
DEPARTURE FROM NORMAL		-0.40				BS - Blowing Snow D - Dust DL - Distant Lightning						
GREATEST IN 24 HR		0.21	ON	31		DS - Drifting Snow F - Fog GL - Glaze						
NUMBER OF DAYS WITH:						IC - Ice Crystals K - Smoke T - Thunderstorm						
TRACE OR MORE		12	0.25 OR MORE	0		BAROMETRIC PRESSURE (IN.)						
AVERAGE FOR THE MONTH		24.6	0.01 OR MORE	8	0.50 OR MORE	0		AVERAGE STATION		29.379		
DEPARTURE FROM NORMAL		-7.1	0.10 OR MORE	3	1.00 OR MORE	0		HIGHEST SEA LEVEL		30.534 ON 24		
HIGHEST		48	ON	21		SNOW, ICE PELLETS (SLEET) (IN.)						
LOWEST		-3	ON	10		TOTAL FOR THE MONTH				4.8		
NUMBER OF DAYS WITH:						SOLAR RADIATION (LANGLEYS)						
GREATEST IN 24 HOURS		2.1	ON	31		AVERAGE DAILY TOTAL				93.8		
GREATEST ON GROUND		1	ON	31+		GREATEST DAILY				159.0 ON 27		
WIND (50-FT LEVEL)						LEAST DAILY				25.8 ON 31		
AVERAGE SPEED (MPH)		5.4				MISCELLANEOUS NUMBER OF DAYS						
DEPARTURE FROM NORMAL		-0.7				CLEAR		6	FOG		15	
PEAK GUST		ENE @ 46		ON	6	PARTLY CLOUDY		8	THUNDER		0	
TOTAL FOR THE MONTH		1254	AVERAGE PSYCHROMETRIC DATA				CLOUDY		17	DUST		0
DEPARTURE FROM NORMAL		+222	DRY BULB (°F)		24.6	WET BULB (°F)		23.2	RELATIVE HUMIDITY EXTREMES (%)			
SEASONAL TOTAL (SINCE JULY 1)		2481	REL. HUM. (%)		81.0	DEW PT. (°F)		18.9	HIGHEST		100 ON 31+	
SEASONAL DEPARTURE FROM NORMAL		+242	+DENOTES LATEST OF SEVERAL DATES				LOWEST		23	ON 7		