

# Pacific Northwest National Laboratory

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

## HANFORD METEOROLOGY STATION

25 MILES N.W. OF RICHLAND, WASHINGTON

MONTH

### CLIMATOLOGICAL DATA

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

**January 2011**

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	26	14	20	-10	45	0				NW	7.3	16	NW	83.4	147.0	6	
2	28	13	20	-11	45	0				NW	5.5	16	NW	81.2	139.2	4	
3	26	8	17	-14	48	0				SE	3.3	10	SSE	84.2	178.8	0	
4	22	11	16	-15	49	0				NE	2.3	7	SSE	91.6	40.8	10	F
5	32	22	27	-5	38	0	T	T		NW	3.2	8	NW	81.2	84.6	10	
6	34	24	29	-3	36	0				NW	3.3	11	NW	81.1	65.4	10	
7	34	26	30	-2	35	0				NW	3.9	15	W	83.5	39.6	10	HAZE
8	46	27	36	+4	29	0				W	8.5	23	W	58.2	132.0	1	
9	35	23	29	-4	36	0	T	T		NW	6.6	15	WNW	75.1	69.6	10	KFR 1300
10	28	22	25	-8	40	0				NE	5.9	14	NW	56.5	52.8	10	
11	26	17	22	-11	43	0	0.02	0.3		NW	7.8	19	WNW	64.7	71.4	10	F
12	30	22	26	-7	39	0	0.08	0.9	1.2	NW	5.6	14	WNW	86.9	115.2	9	F
13	51	29	40	+7	25	0	0.07		0.7	NW	7.4	23	WSW	88.2	106.8	7	F, GL, WFR 0900
14	60	45	52	+19	13	0				SW	16.5	51	SSW	64.0	82.2	9	
15	53	40	46	+13	19	0	0.22			W	7.1	30	SW	81.9	24.6	10	F
16	63	37	50	+17	15	0	0.01			SW	15.2	55	SW	76.1	105.6	9	F, WFR 0740
17	59	38	48	+15	17	0				W	12.4	56	WSW	57.3	153.0	1	KFR 0030
18	45	31	38	+5	27	0	T			NW	7.2	21	W	74.8	49.8	10	
19	44	23	34	+1	31	0				W	4.8	13	NW	79.9	163.2	1	
20	38	24	31	-2	34	0				NW	4.0	12	ESE	92.8	59.4	9	
21	47	28	38	+4	27	0	0.05			NW	5.0	30	WNW	90.8	43.8	9	F, KFR 1845
22	53	32	42	+8	23	0				W	7.1	35	W	73.0	156.0	1	
23	61	33	47	+13	18	0				NW	6.7	20	NW	79.8	130.8	8	
24	44	32	38	+4	27	0	T			NW	3.7	11	E	88.0	59.4	10	
25	44	27	36	+1	29	0				NW	4.1	9	E	93.3	147.0	7	F
26	37	34	36	+1	29	0				NW	2.8	10	WNW	97.3	30.0	10	F
27	37	34	36	+1	29	0				NE	2.4	7	WNW	93.8	39.0	10	F
28	43	32	38	+3	27	0	T			NE	4.0	13	NW	95.8	76.2	10	F
29	40	30	35	-1	30	0	0.08			NW	5.7	20	NW	98.0	50.4	10	F
30	38	29	34	-2	31	0	T	T		NW	8.3	17	NNW	63.3	93.6	10	KFR 0030
31	32	20	26	-10	39	0				NW	5.0	12	NNW	61.3	81.6	10	
SUM					973	0	0.53	1.2									
AVG	40.5	26.7									6.2						7.8

**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		0.53				A - Hail AU - Aurora BD - Blowing Dust					
DEPARTURE FROM NORMAL		-0.41				BS - Blowing Snow D - Dust DL - Distant Lightning					
GREATEST IN 24 HR		0.23	ON	15-16		DS - Drifting Snow F - Fog GL - Glaze					
NUMBER OF DAYS WITH:						IC - Ice Crystals K - Smoke T - Thunderstorm					
TRACE OR MORE		13	0.25 OR MORE		0		BAROMETRIC PRESSURE (IN.)				
AVERAGE FOR THE MONTH		33.6	0.01 OR MORE		7		AVERAGE STATION		29.394		
DEPARTURE FROM NORMAL		+0.2	0.10 OR MORE		1		HIGHEST SEA LEVEL		30.723 ON 31		
HIGHEST		63	ON	16		SNOW, ICE PELLETS (SLEET) (IN.)		LOWEST SEA LEVEL		29.666 ON 16	
LOWEST		8	ON	3		TOTAL FOR THE MONTH		1.2 SOLAR RADIATION (LANGLEYS)			
NUMBER OF DAYS WITH:		GREATEST IN 24 HOURS		1.2	ON	11-12		AVERAGE DAILY TOTAL		90.0	
MAXIMUM 32 OR BELOW		9		GREATEST ON GROUND		1.2	ON	GREATEST DAILY		178.8	ON 3
MAXIMUM 90 OR ABOVE		0		WIND (50-FT LEVEL)				LEAST DAILY		24.6 ON 15	
MINIMUM 32 OR BELOW		24		AVERAGE SPEED (MPH)				6.2 MISCELLANEOUS NUMBER OF DAYS			
MINIMUM 0 OR BELOW		0		DEPARTURE FROM NORMAL				-0.1		CLEAR 5 FOG 12	
HEATING DEGREE DAYS (BASE 65°F)		973		PEAK GUST		WSW @ 56 ON 17		PARTLY CLOUDY 4 THUNDER 0			
TOTAL FOR THE MONTH		973		AVERAGE PSYCHROMETRIC DATA				CLOUDY 22 DUST 0			
DEPARTURE FROM NORMAL		-9		DRY BULB (°F)		33.5 WET BULB (°F)		31.3 RELATIVE HUMIDITY EXTREMES (%)			
SEASONAL TOTAL (SINCE JULY 1)		3191		REL. HUM. (%)		79.9 DEW PT. (°F)		27.5 HIGHEST 100 ON 29+			
SEASONAL DEPARTURE FROM NORMAL		-20		+DENOTES LATEST OF SEVERAL DATES				LOWEST 42 ON 8			