

# 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 2010**

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	32	16	24	-12	41	0	0.01		6.3	W	3.1	8	SSE	97.0	76.8	10	F
2	34	29	32	-3	33	0	T	T	5.0	NW	2.8	8	NW	95.4	60.6	10	F
3	31	27	29	-6	36	0	T		4.4	NW	8.2	19	WNW	95.2	42.0	10	F, GL
4	36	26	31	-3	34	0			4.3	NW	6.7	15	NW	77.8	75.6	10	
5	33	28	30	-4	35	0			3.9	NE	5.9	15	NE	72.0	75.6	10	
6	36	21	28	-5	37	0			3.6	SE	3.9	11	NW	78.6	86.4	8	
7	36	26	31	-2	34	0	T		3.4	NW	7.5	19	NW	85.6	72.0	10	KFR 0700
8	40	27	34	+1	31	0	T		2.9	SE	4.3	13	SW	90.8	126.0	4	F, GL
9	53	29	41	+8	24	0	0.21		2.0	SW	9.2	33	SW	84.3	79.2	9	F, KFR 2215
10	46	30	38	+5	27	0				W	6.4	31	WSW	78.7	50.4	8	
11	33	29	31	-2	34	0	0.34	2.5		NW	7.5	18	NW	97.0	12.6	10	F, WFR 1830
12	59	32	46	+13	19	0			2.0	SW	12.0	36	SW	80.5	40.2	9	F
13	56	38	47	+14	18	0	0.05			NW	5.3	18	NW	86.1	117.6	3	
14	50	36	43	+10	22	0	0.07			SW	16.3	50	SW	72.3	112.2	3	F, KFR 0600
15	45	27	36	+4	29	0	T			SW	5.2	18	SW	73.2	78.6	9	
16	40	31	36	+4	29	0	T			NW	8.3	17	NW	86.2	100.8	9	
17	40	29	34	+3	31	0				NW	8.7	16	WNW	75.5	121.2	2	
18	33	25	29	-2	36	0	0.11	1.9		NW	6.8	19	NW	86.7	64.8	10	F
19	34	27	30	-1	35	0	0.10	1.5	1.5	NW	5.8	16	SW	90.0	40.8	10	F
20	33	28	30		35	0	0.07	0.9	2.6	NW	5.2	17	WNW	96.8	62.4	10	F
21	36	25	30	+1	35	0			1.7	W	5.5	14	W	91.4	121.2	9	
22	33	25	29	-1	36	0	0.13	0.9	1.5	NW	4.1	13	NW	97.5	24.6	10	F
23	34	31	32	+2	33	0			1.6	W	3.4	11	W	99.6	32.4	10	F
24	37	30	34	+4	31	0			0.8	W	4.3	11	WNW	96.9	79.8	10	F
25	40	28	34	+4	31	0			0.5	NW	5.8	16	NW	88.7	51.0	10	F
26	46	30	38	+8	27	0				SW	9.6	40	SW	76.8	106.2	6	F
27	46	36	41	+11	24	0	0.02			SW	9.5	34	SW	68.4	72.6	10	
28	51	34	42	+13	23	0	0.51			NW	8.7	30	SW	78.3	58.8	10	
29	40	29	34	+5	31	0	0.20			W	12.0	34	W	68.1	65.4	10	KFR 0415
30	32	20	26	-3	39	0				NW	8.4	23	N	51.2	108.0	4	
31	28	12	20	-8	45	0				NW	5.3	14	WNW	74.8	133.2	4	
SUM					975	0	1.82	7.7									
AVG	39.5	27.8									7.0						8.3

NOTES:		PRECIPITATION (IN.)				MISC. PHENOMENA NOTATIONS USED IN COL. 17					
(1) Unless otherwise specified, the daily summary period is from midnight to midnight Pacific Standard Time.		TOTAL FOR THE MONTH		1.82		A - Hail		AU - Aurora		BD - Blowing Dust	
(2) "T" in Columns 7-9 denotes a trace.		DEPARTURE FROM NORMAL		+0.71		BS - Blowing Snow		D - Dust		DL - Distant Lightning	
(3) The Langley (Col. 15) is the unit used to denote one gram calorie/cm².		GREATEST IN 24 HR		0.71 ON 28-29		DS - Drifting Snow		F - Fog		GL - Glaze	
		NUMBER OF DAYS WITH:				IC - Ice Crystals		K - Smoke		T - Thunderstorm	
TEMPERATURE (°F) (3-FT LEVEL)		TRACE OR MORE		18		0.25 OR MORE		2		BAROMETRIC PRESSURE (IN.)	
AVERAGE FOR THE MONTH		33.6		0.01 OR MORE		12		0.50 OR MORE		1	
DEPARTURE FROM NORMAL		+1.9		0.10 OR MORE		7		1.00 OR MORE		0	
HIGHEST		59		ON		12		SNOW, ICE PELLETS (SLEET) (IN.)		LOWEST SEA LEVEL	
LOWEST		12		ON		31		TOTAL FOR THE MONTH		7.7	
NUMBER OF DAYS WITH:		GREATEST IN 24 HOURS		2.5		ON		11		AVERAGE DAILY TOTAL	
MAXIMUM 32 OR BELOW		4		GREATEST ON GROUND		6.3		ON		1	
MAXIMUM 90 OR ABOVE		0		WIND (50-FT LEVEL)		AVERAGE SPEED (MPH)		7.0		MISCELLANEOUS NUMBER OF DAYS	
MINIMUM 32 OR BELOW		27		DEPARTURE FROM NORMAL		+0.9		CLEAR		3	
MINIMUM 0 OR BELOW		0		PEAK GUST		SW @ 50		ON		14	
HEATING DEGREE DAYS (BASE 65°F)		975		AVERAGE PSYCHROMETRIC DATA		CLOUDY		24		DUST	
DEPARTURE FROM NORMAL		-57		DRY BULB (°F)		34.0		WET BULB (°F)		32.2	
SEASONAL TOTAL (SINCE JULY 1)		2218		REL. HUM. (%)		83.6		DEW PT. (°F)		29.2	
SEASONAL DEPARTURE FROM NORMAL		-17		+DENOTES LATEST OF SEVERAL DATES		HIGHEST		100		ON	
						LOWEST		35		ON	