

# 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

**July 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	92	62	77	+5	0	12				NW	7.9	25	WNW	21.3	685.8	0				
2	97	62	80	+8	0	15				NW	7.6	20	WNW	16.8	688.8	0				
3	102	62	82	+10	0	17				W	6.7	19	E	19.1	667.2	0				
4	104	64	84	+12	0	19				SW	7.9	26	WSW	19.2	667.2	1				
5	101	69	85	+13	0	20				W	7.5	34	W	17.8	586.8	7	KFR 2340			
6	85	60	72	-1	0	7				W	15.6	50	SW	33.6	640.2	2				
7	84	52	68	-5	0	3				NW	10.5	39	WSW	38.5	622.8	1				
8	81	54	68	-5	0	3				NW	10.2	31	WNW	37.5	540.1	3				
9	85	51	68	-6	0	3				NW	6.4	20	NW	38.1	645.0	0				
10	91	57	74	0	0	9				NW	7.5	19	NW	31.6	648.0	1				
11	102	66	84	+9	0	19				NW	9.5	29	NE	22.8	636.6	1				
12	99	68	84	+9	0	19	T			SW	11.4	40	WNW	31.8	611.4	3	T, DL, KFR 1805			
13	83	59	71	-4	0	6				NW	15.5	38	NW	42.6	508.8	7				
14	88	51	68	-8	0	3				E	5.6	16	WNW	39.0	649.8	0				
15	96	57	76	0	0	11				E	6.4	16	E	28.8	640.2	2				
16	100	66	83	+6	0	18				W	6.6	17	E	21.4	652.2	0				
17	103	63	83	+6	0	18				SE	6.3	20	ESE	27.0	584.4	5				
18	103	67	85	+8	0	20				NW	12.4	38	WNW	25.5	575.4	6				
19	94	66	80	+2	0	15				NW	8.9	30	WNW	29.5	643.8	0				
20	95	66	80	+2	0	15				N	7.2	22	N	25.1	572.4	3				
21	101	63	82	+3	0	17				W	5.9	21	ENE	22.4	627.6	0				
22	103	65	84	+5	0	19				NW	7.2	28	WNW	28.0	612.0	0				
23	97	70	84	+5	0	19				NW	12.1	37	NW	31.0	570.0	3				
24	92	64	78	-1	0	13				NW	7.5	28	NNE	40.2	535.2	3				
25	94	65	80	0	0	15				NW	6.6	23	WNW	37.8	466.8	4				
26	96	71	84	+4	0	19				NW	7.8	21	NNE	37.9	603.0	0				
27	100	68	84	+4	0	19				N	5.9	19	N	34.9	597.0	1				
28	104	68	86	+6	0	21				NW	6.1	25	NE	34.0	550.2	2	DL			
29	96	73	84	+4	0	19				N	8.2	23	N	32.6	484.8	4				
30	101	68	84	+4	0	19				E	5.8	18	ENE	27.5	579.6	2				
31	105	70	88	+9	0	23				SE	5.4	18	SE	29.1	569.4	1				
SUM	/ / / / /					0	455	T	/ / / / /			/ / / / /			/ / / / /			/ / / / /		
AVG	95.9	63.5									8.3					2.0				

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		T		A - Hail		AU - Aurora		BD - Blowing Dust							
(2) "T" in Columns 7-9 denotes a trace.		DEPARTURE FROM NORMAL		-0.27		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		T ON 12		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		1		0.25 OR MORE		0		BAROMETRIC PRESSURE (IN.)							
AVERAGE FOR THE MONTH		79.7		0.01 OR MORE		0		0.50 OR MORE		0		AVERAGE STATION		29.135			
DEPARTURE FROM NORMAL		+3.4		0.10 OR MORE		0		1.00 OR MORE		0		HIGHEST SEA LEVEL		30.100 ON 27			
HIGHEST		105		ON		31		SNOW, ICE PELLETS (SLEET) (IN.)		LOWEST SEA LEVEL		29.639		ON 5			
LOWEST		51		ON		9		TOTAL FOR THE MONTH		0		SOLAR RADIATION (LANGLEYS)					
NUMBER OF DAYS WITH:		GREATEST IN 24 HOURS		na		ON		na		AVERAGE DAILY TOTAL		602.0					
MAXIMUM 32 OR BELOW		0		GREATEST ON GROUND		na		ON		na		GREATEST DAILY		688.8 ON 2			
MAXIMUM 90 OR ABOVE		25		WIND (50-FT LEVEL)		LEAST DAILY		466.8		ON		25					
MINIMUM 32 OR BELOW		0		AVERAGE SPEED (MPH)		8.3		MISCELLANEOUS NUMBER OF DAYS									
MINIMUM 0 OR BELOW		0		DEPARTURE FROM NORMAL		-0.3		CLEAR		25		FOG		0			
HEATING DEGREE DAYS (BASE 65°F)		PEAK GUST		SW @ 50		ON		6		PARTLY CLOUDY		6		THUNDER		1	
TOTAL FOR THE MONTH		0		AVERAGE PSYCHROMETRIC DATA		CLOUDY		0		DUST		0					
DEPARTURE FROM NORMAL		-4		DRY BULB (°F)		80.3		WET BULB (°F)		59.5		RELATIVE HUMIDITY EXTREMES (%)					
SEASONAL TOTAL (SINCE JULY 1)		0		REL. HUM. (%)		29.8		DEW PT. (°F)		43.6		HIGHEST		78 ON 14			
SEASONAL DEPARTURE FROM NORMAL		-4		+DENOTES LATEST OF SEVERAL DATES		LOWEST		6		ON		4					