

# 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

**September 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	82	56	69	-2	0	4				NW	8.6	27	WNW	50.6	432.0	4				
2	85	51	68	-3	0	3				N	6.9	20	ENE	41.2	482.4	7				
3	89	59	74	+4	0	9				NW	6.8	28	WNW	35.8	485.4	2				
4	85	55	70	0	0	5				NW	16.6	47	NW	30.7	498.0	0	KFR 1930			
5	75	53	64	-6	1	0				W	14.1	36	NW	38.5	465.6	4				
6	77	50	64	-6	1	0				E	6.0	20	ESE	43.6	455.4	8				
7	70	56	63	-6	2	0	0.03			NW	6.5	17	NW	65.4	189.0	9				
8	73	55	64	-5	1	0	0.02			W	7.2	17	W	65.2	291.6	9	DL			
9	76	55	66	-2	0	1	0.05			NW	10.6	31	NNW	51.5	303.0	7				
10	75	49	62	-6	3	0				SW	9.7	28	WNW	43.9	433.8	3				
11	76	48	62	-6	3	0				W	5.7	18	WNW	46.3	439.2	5				
12	85	44	64	-3	1	0				NW	6.8	26	NW	48.4	445.8	0				
13	83	51	67	0	0	2				W	5.6	18	NW	48.2	408.0	6				
14	85	53	69	+2	0	4				NW	5.9	15	SSE	46.9	430.8	2				
15	82	52	67	+1	0	2	0.03			SW	6.7	45	W	51.9	288.0	9				
16	82	59	70	+4	0	5	0.07			SW	6.2	20	SW	65.6	279.0	9				
17	79	60	70	+5	0	5	0.16			N	7.2	17	WNW	64.5	321.6	10	DL			
18	72	54	63	-2	2	0	0.31			E	3.6	19	W	81.5	242.4	9	DL			
19	68	58	63	-1	2	0	0.21			S	10.0	34	S	80.4	136.2	10	KFR 0830			
20	74	53	64	0	1	0				SW	13.8	38	SW	55.9	322.4	5				
21	71	50	60	-3	5	0				NW	6.0	22	WNW	53.7	364.2	4				
22	72	49	60	-3	5	0				NW	6.3	15	WNW	51.6	366.0	3				
23	65	49	57	-5	8	0	0.07			SW	6.7	23	SW	69.0	132.6	10				
24	74	45	60	-2	5	0				E	5.4	14	ENE	73.2	294.6	6	F			
25	79	50	64	+2	1	0				SE	5.1	15	ENE	66.1	383.4	0				
26	82	53	68	+6	0	3				SW	9.2	33	WSW	63.3	204.0	9	KFR 0500			
27	86	55	70	+8	0	5				SE	4.9	13	ESE	65.6	361.8	1				
28	90	57	74	+12	0	9				NW	8.8	31	WNW	58.4	375.0	0				
29	81	56	68	+6	0	3				NW	8.1	16	NW	46.8	374.4	0				
30	84	58	71	+10	0	6				NW	9.1	16	N	39.0	357.6	0				
31																				
SUM					41	66	0.95		0											
AVG	78.6	53.1									7.8						5.0			
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			0.95			A - Hail		AU - Aurora		BD - Blowing Dust			
(2) "T" in Columns 7-9 denotes a trace.							DEPARTURE FROM NORMAL			+0.62			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			0.51	ON	18-19		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		9	0.25 OR MORE		1	BAROMETRIC PRESSURE (IN.)							
AVERAGE FOR THE MONTH							65.8		0.01 OR MORE		9	0.50 OR MORE		0	AVERAGE STATION		29.141			
DEPARTURE FROM NORMAL							-0.1		0.10 OR MORE		3	1.00 OR MORE		0	HIGHEST SEA LEVEL		30.215	ON	2	
HIGHEST			90	ON	28		SNOW, ICE PELLETS (SLEET) (IN.)						LOWEST SEA LEVEL		29.695	ON	19+			
LOWEST			44	ON	12		TOTAL FOR THE MONTH			0			SOLAR RADIATION (LANGLEYS)							
NUMBER OF DAYS WITH:							GREATEST IN 24 HOURS		na	ON	na		AVERAGE DAILY TOTAL			352.4				
MAXIMUM 32 OR BELOW							0		GREATEST ON GROUND		na	ON	na		GREATEST DAILY		498.0	ON	4	
MAXIMUM 90 OR ABOVE							1		WIND (50-FT LEVEL)						LEAST DAILY		132.6	ON	23	
MINIMUM 32 OR BELOW							0		AVERAGE SPEED (MPH)			7.8			MISCELLANEOUS NUMBER OF DAYS					
MINIMUM 0 OR BELOW							0		DEPARTURE FROM NORMAL			+0.5			CLEAR		11	FOG		1
HEATING DEGREE DAYS (BASE 65°F)							PEAK GUST		NW @ 47	ON	4		CLOUDY		9	THUNDER		0		
TOTAL FOR THE MONTH							41		AVERAGE PSYCHROMETRIC DATA						CLOUDY		10	DUST		0
DEPARTURE FROM NORMAL							-34		DRY BULB (°F)		65.3	WET BULB (°F)		55.1	RELATIVE HUMIDITY EXTREMES (%)					
SEASONAL TOTAL (SINCE JULY 1)							53		REL. HUM. (%)		54.8	DEW PT. (°F)		46.9	HIGHEST		100	ON	24	
SEASONAL DEPARTURE FROM NORMAL							-31		+DENOTES LATEST OF SEVERAL DATES						LOWEST		12	ON	4	