

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

May 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 | 70 | 36 | 53 | -5 | 12 | 0 | | | | NW | 7.7 | 39 | E | 46.2 | 528.0 | 5 | | | | | |
| 2 | 65 | 48 | 56 | -2 | 9 | 0 | 0.06 | | | W | 8.3 | 30 | WSW | 55.8 | 259.2 | 10 | | | | | |
| 3 | 67 | 44 | 56 | -3 | 9 | 0 | | | | W | 7.7 | 27 | W | 50.6 | 450.0 | 9 | | | | | |
| 4 | 66 | 36 | 51 | -8 | 14 | 0 | 0.08 | | | SE | 7.2 | 30 | S | 68.2 | 310.2 | 9 | WFR 2245 | | | | |
| 5 | 68 | 48 | 58 | -1 | 7 | 0 | | | | SW | 20.6 | 57 | SW | 44.3 | 586.2 | 0 | KFR 0200 | | | | |
| 6 | 66 | 44 | 55 | -4 | 10 | 0 | 0.02 | | | SW | 11.1 | 39 | WSW | 62.0 | 274.8 | 8 | WFR 0530 KFR 1520 | | | | |
| 7 | 66 | 43 | 54 | -6 | 11 | 0 | | | | W | 14.5 | 33 | WNW | 44.8 | 507.6 | 3 | | | | | |
| 8 | 68 | 36 | 52 | -8 | 13 | 0 | | | | E | 6.7 | 20 | E | 44.6 | 625.2 | 0 | | | | | |
| 9 | 72 | 40 | 56 | -4 | 9 | 0 | | | | NW | 6.8 | 19 | NW | 41.5 | 596.4 | 1 | | | | | |
| 10 | 76 | 44 | 60 | -1 | 5 | 0 | T | | | SE | 6.4 | 39 | SW | 40.7 | 571.2 | 3 | KFR 2100 | | | | |
| 11 | 73 | 47 | 60 | -1 | 5 | 0 | | | | SW | 15.3 | 34 | SW | 39.8 | 613.8 | 2 | | | | | |
| 12 | 63 | 42 | 52 | -9 | 13 | 0 | T | | | W | 15.5 | 39 | WNW | 41.5 | 485.4 | 6 | KFR 1200 | | | | |
| 13 | 62 | 36 | 49 | -12 | 16 | 0 | 0.02 | | | S | 8.2 | 32 | SW | 51.8 | 349.2 | 10 | WFR 2145 | | | | |
| 14 | 72 | 49 | 60 | -2 | 5 | 0 | | | | SW | 15.3 | 36 | NW | 45.4 | 577.2 | 2 | KFR 0500 | | | | |
| 15 | 72 | 37 | 54 | -8 | 11 | 0 | | | | E | 5.5 | 21 | NNE | 40.1 | 630.6 | 2 | | | | | |
| 16 | 83 | 41 | 62 | 0 | 3 | 0 | | | | SE | 4.8 | 20 | E | 38.0 | 607.2 | 8 | | | | | |
| 17 | 91 | 46 | 68 | +6 | 0 | 3 | | | | NW | 5.6 | 21 | E | 37.2 | 607.2 | 9 | | | | | |
| 18 | 92 | 56 | 74 | +12 | 0 | 9 | | | | W | 8.9 | 31 | W | 35.7 | 641.4 | 3 | | | | | |
| 19 | 73 | 43 | 58 | -4 | 7 | 0 | T | | | W | 12.3 | 42 | SW | 41.5 | 634.2 | 3 | KFR 0100 | | | | |
| 20 | 70 | 40 | 55 | -7 | 10 | 0 | | | | W | 7.1 | 26 | WSW | 38.0 | 634.2 | 2 | | | | | |
| 21 | 76 | 43 | 60 | -3 | 5 | 0 | | | | NW | 7.8 | 19 | NW | 33.9 | 643.2 | 3 | | | | | |
| 22 | 82 | 49 | 66 | +3 | 0 | 1 | | | | NW | 7.2 | 20 | NW | 28.1 | 659.4 | 1 | | | | | |
| 23 | 87 | 56 | 72 | +8 | 0 | 7 | | | | NW | 8.4 | 34 | WNW | 28.9 | 622.2 | 1 | | | | | |
| 24 | 89 | 56 | 72 | +8 | 0 | 7 | | | | NW | 9.9 | 33 | NW | 22.8 | 663.6 | 0 | | | | | |
| 25 | 87 | 48 | 68 | +4 | 0 | 3 | | | | NW | 7.6 | 30 | WNW | 29.2 | 654.6 | 0 | | | | | |
| 26 | 84 | 49 | 66 | +2 | 0 | 1 | | | | NW | 8.6 | 27 | WNW | 36.4 | 588.6 | 10 | | | | | |
| 27 | 84 | 51 | 68 | +3 | 0 | 3 | | | | W | 6.8 | 22 | NW | 40.2 | 594.6 | 6 | | | | | |
| 28 | 90 | 54 | 72 | +7 | 0 | 7 | | | | NW | 6.5 | 15 | E | 30.0 | 658.2 | 0 | | | | | |
| 29 | 97 | 58 | 78 | +13 | 0 | 13 | | | | NW | 6.9 | 26 | W | 30.3 | 625.8 | 3 | DL | | | | |
| 30 | 99 | 66 | 82 | +17 | 0 | 17 | | | | NW | 9.6 | 32 | WNW | 22.3 | 666.6 | 0 | | | | | |
| 31 | 95 | 63 | 79 | +13 | 0 | 14 | | | | W | 7.2 | 24 | W | 20.5 | 605.4 | 8 | | | | | |
| SUM | / / / / / / | | | | | | 174 | 85 | 0.18 | / / / | | | / / / | | | / / / | | | / / / | | |
| AVG | 77.6 | 46.7 | | | | | | | | | 9.1 | | | | | | 4.1 | | | | |

| 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 | | 0.18 | | A - Hail | | AU - Aurora | | BD - Blowing Dust | | | | | |
| (2) "T" in Columns 7-9 denotes a trace. | | DEPARTURE FROM NORMAL | | -0.37 | | 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 | | 0.08 ON 4 | | 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 | | 7 | | 0.25 OR MORE | | 0 | | BAROMETRIC PRESSURE (IN.) | | | | | |
| AVERAGE FOR THE MONTH | | 62.2 | | 0.01 OR MORE | | 4 | | 0.50 OR MORE | | 0 | | AVERAGE STATION | | 29.174 | |
| DEPARTURE FROM NORMAL | | +0.4 | | 0.10 OR MORE | | 0 | | 1.00 OR MORE | | 0 | | HIGHEST SEA LEVEL | | 30.321 ON 8 | |
| HIGHEST | | 99 | | ON | | 30 | | SNOW, ICE PELLETS (SLEET) (IN.) | | LOWEST SEA LEVEL | | 29.497 | | ON 4 | |
| LOWEST | | 36 | | ON | | 13+ | | TOTAL FOR THE MONTH | | 0 | | SOLAR RADIATION (LANGLEYS) | | | |
| NUMBER OF DAYS WITH: | | GREATEST IN 24 HOURS | | na | | ON | | na | | AVERAGE DAILY TOTAL | | 563.6 | | | |
| MAXIMUM 32 OR BELOW | | 0 | | GREATEST ON GROUND | | na | | ON | | na | | GREATEST DAILY | | 666.6 ON 30 | |
| MAXIMUM 90 OR ABOVE | | 6 | | WIND (50-FT LEVEL) | | | | | | LEAST DAILY | | 259.2 | | ON 2 | |
| MINIMUM 32 OR BELOW | | 0 | | AVERAGE SPEED (MPH) | | 9.1 | | MISCELLANEOUS NUMBER OF DAYS | | | | | | | |
| MINIMUM 0 OR BELOW | | 0 | | DEPARTURE FROM NORMAL | | +0.2 | | CLEAR | | 19 | | FOG | | 0 | |
| HEATING DEGREE DAYS (BASE 65°F) | | 174 | | PEAK GUST | | SW @ 57 | | ON | | 5 | | PARTLY CLOUDY | | 3 | |
| TOTAL FOR THE MONTH | | 174 | | AVERAGE PSYCHROMETRIC DATA | | | | CLOUDY | | 9 | | DUST | | 0 | |
| DEPARTURE FROM NORMAL | | +18 | | DRY BULB (°F) | | 63.1 | | WET BULB (°F) | | 49.3 | | RELATIVE HUMIDITY EXTREMES (%) | | | |
| SEASONAL TOTAL (SINCE JULY 1) | | 5560 | | REL. HUM. (%) | | 39.7 | | DEW PT. (°F) | | 35.4 | | HIGHEST | | 98 ON 4 | |
| SEASONAL DEPARTURE FROM NORMAL | | +433 | | +DENOTES LATEST OF SEVERAL DATES | | | | LOWEST | | 9 | | ON | | 24 | |