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## Summary

This document presents the climatological data measured at the U.S. Department of Energy's Hanford Site for calendar year 2004. Pacific Northwest National Laboratory<sup>1</sup> operates the Hanford Meteorology Station and the Hanford Meteorological Monitoring Network from which these data were collected. This report contains updated historical information for temperature, precipitation, wind, normal and extreme values of temperature and precipitation, and other miscellaneous meteorological parameters. Further, the data are adjunct to and update Hoitink et al. (1999, 2000, 2001, 2002, 2003, 2004) and Hoitink and Burk (1994, 1995, 1996, 1997, 1998); however, data from Appendix B – Wind Climatology (Hoitink and Burk 1994) are excluded.

Calendar year 2004 was warmer than normal<sup>2</sup> at the Hanford Meteorology Station with an average temperature of 54.6°F, 1.0°F above normal (53.6°F). The hottest temperature was 107°F on August 13, while the coldest was -14°F on January 5. For the 12-month period, 7 months were warmer than normal, and 5 months were cooler than normal.

Precipitation for 2004 totaled 7.96 inches, 114% of normal (6.98 inches); calendar year snowfall totaled 22.9 inches (compared to the normal of 15.4 inches). The 11.4 inches of snow which fell on January 1 was the greatest amount ever recorded during a 24-hour period. The previous record was 10.2 inches on February 18-19, 1993.

Calendar year 2004 had an average wind speed of 7.0 miles per hour (mph), 0.6 mph below normal (7.6 mph). There were 22 days with peak gusts  $\geq 40$  mph, compared to a yearly average of 27 days. The peak gust during the year was 63 mph on January 30.

The heating-degree days for 2003-2004 were 4,998 (3% below the 5,160 normal). Cooling-degree days for 2004 were 1,135 (12% above the 1,014 normal).

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<sup>1</sup> Pacific Northwest National Laboratory is operated by Battelle for the U.S. Department of Energy.

<sup>2</sup> Normals for the 2004 summary are 30-year averages based on the period 1971-2000.