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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 2003. 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, 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) and Hoitink and Burk (1994, 1995, 1996, 1997, 1998); however, data from Appendix B – Wind Climatology (Hoitink and Burk 1994) are excluded.

Calendar year 2003 was warmer than normal<sup>2</sup> at the Hanford Meteorology Station with an average temperature of 55.6°F, 2.0°F above normal (53.6°F). The hottest temperature was 108°F on July 28, 29, and 30, while the coldest was 8°F on December 30. For the 12-month period, 9 months were warmer than normal, and 3 months were cooler than normal.

Precipitation for 2003 totaled 8.14 inches, 117% of normal (6.98 inches); calendar year snowfall totaled 8.7 inches (compared to the normal of 15.4 inches). April 2003 was the wettest April on record with 2.23 inches of precipitation (previous record 1.54 inches in 1995). July 2003 was the driest July on record with no precipitation recorded (previous record was a trace in 1980 and earlier years).

Calendar year 2003 had an average wind speed of 7.8 mph, 0.2 mph above normal (7.6 mph). There were 36 days with peak gusts  $\geq$ 40 mph, compared to a yearly average of 27 days. The peak gust during the year was 60 mph on October 28.

The heating-degree days for 2002-2003 were 4,706 (9% below the 5,160 normal). Cooling-degree days for 2003 were 1,331 (31% 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 2003 summary are 30-year averages based on the period 1971-2000.