

Appendix B: Daily Plots of Burns and Eugene Data

The following pages contain plots of global, beam, and diffuse daily data for 1997 from Burns and Eugene. Burns and Eugene represent two distinctive climate zones. Eugene is located in the verdant Willamette Valley while Burns is situated on the high desert plateau in eastern Oregon.

Also included are plots of the daily insolation on tilted surfaces for Eugene. These plots demonstrate how the incident energy changes when the solar collector is tilted at various angles. As the tilt angle increases from 30° to 90° , incident energy on the tilted surface increases in the winter and decreases in the summer. The optimum tilt for a solar system depends on the use of the system.