

CO in the Neighborhood?

Bear Facts — # 19

Carbon Monoxide is the stable pollutant most commonly related to automotive traffic. Data gathered over a Fall week, at a residential site, reveal CO peaks which correspond to expected travel periods.



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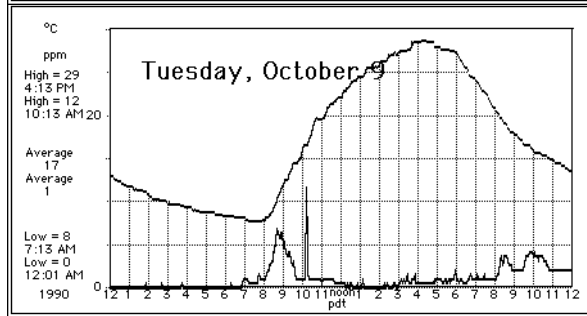
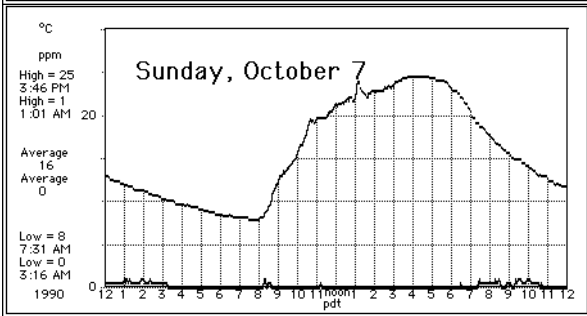
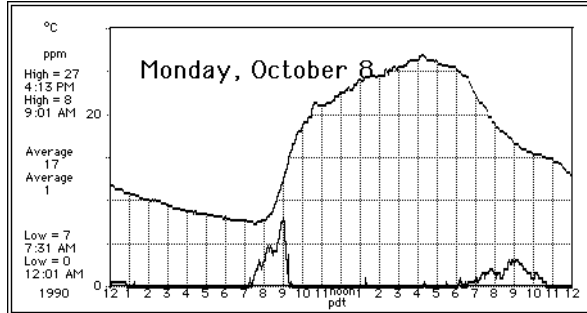
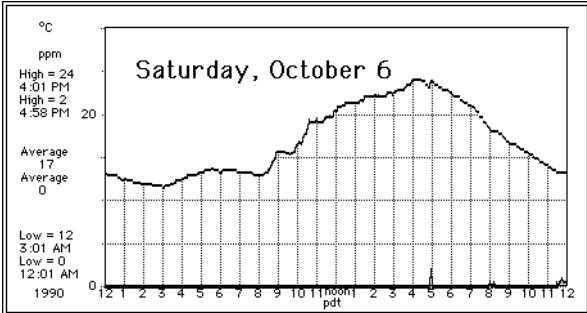
the DataBear

Bear Facts are published to provide useful insights into the operation and applications for the DataBear™ Measurer and associated complete instruments.

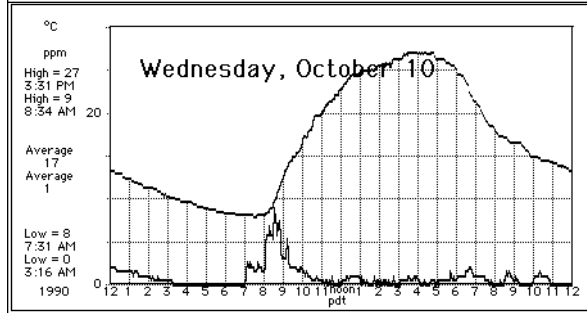
A Week of Carbon Monoxide (ppm. within grid) and Temperature (°C. grid/clear interface) Measurements

weekends

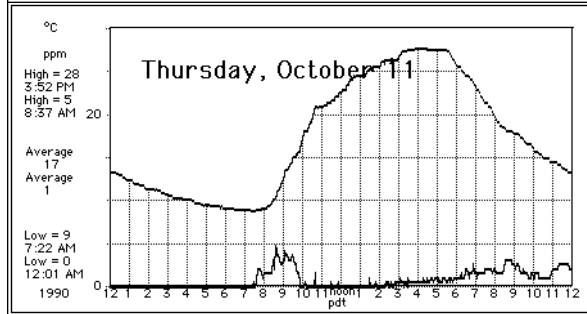
workweek



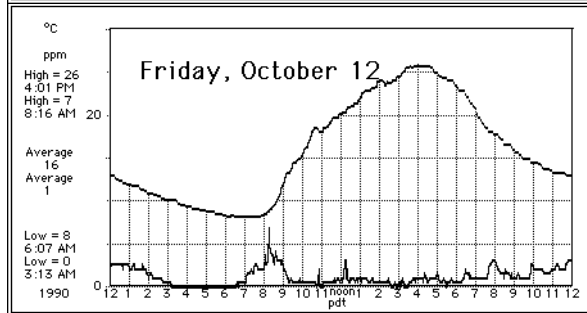
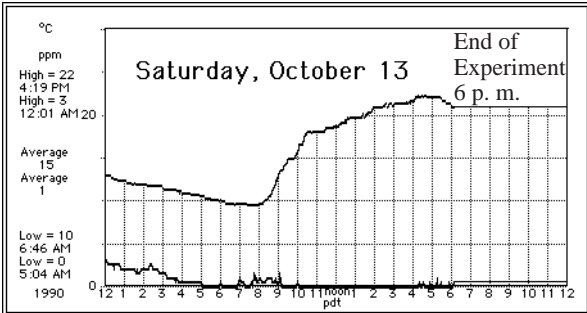
The measurements shown on this page are directly from the Sense-Your-World! display software supplied with each DataBear Measurer—the data were gathered in a suburban neighborhood, about 100 feet from a local busy street (Embarcadero Road, Palo Alto, California). The CiTiceL CO Sensor was connected to the DataBear and both CO and temperature samples were saved each 3 minutes. The 7,680 samples were read at the end of the test.



The same CO data, averaged into hour means using Microsoft Excel, are displayed in a 3-D example plot (over) using DeltaGraph software supplied by DeltaPoint, Inc., Monterey, CA.



The California ambient air CO standard is 20 ppm. This week, while traffic was clearly identified, the quality of the air was good; the maximum hourly value was just over 5 ppm. On the weekends the air was clean, despite a major football game on the 13th!



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One of the first ambient air studies gathered using Langan CO Measurers. It shows regional air quality influences and one of the common uses of this convenient instrument.