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**CLIMATE DATA FOR
EDUCATION**

During the past two years, the Utah Climate Center has been working on programs and climate data sets to assist elementary schools in Utah. Based on these experiences, we have created a computer-based climate instructional kit for third through fifth grade students.

The program has been tested in the Farmington and Logan areas of the state. The test version called The Climate Time Machine Kit will soon be mailed to all elementary schools in Utah.

The kit contains oodles of information about weather in Utah and other states and is distributed on CD-ROM. The CD-ROM also contains the computer program "The Climate Time Machine" for use in accessing the weather database. The program allows students to search for temperature and precipitation amounts on any given date from a list of stations throughout the world including over 600 Utah stations. The kit includes five lesson plans and projects that teach many of the concepts needed to meet new core curriculum requirements for elementary schools in Utah. These lesson plans contain imaginative projects that require the use of problem solving, research, experimentation, and analysis.

The projects are designed to link weather with science, history, geography, and writing. "The Climate Time Machine" uses color graphics, and is friendly and easy to use. The main screen has four distinct areas. One area shows a map of the world. Here, the student can zoom in on any location of interest e.g., any continent, country, or state. Once the student has zoomed in on a particular state, the program displays county lines, topography, and the location of that state's

weather stations. A second part of the screen shows an alphabetical list of weather stations where data are available. Any station from the list can be selected to be viewed. A third portion of the screen allows the student to select the day, month and year of interest. The remaining portion of the screen displays the particular weather information for the selected station.

The weather information includes maximum and minimum temperature, precipitation amounts, snowfall, and snow depth for the appropriate date selected. Data values are displayed in large, bright-red numbers. Also shown are the highest, lowest and average values for the selected date. In addition to this, a graph shows the trends of temperature for the entire month in which the date occurs.

The first thing most students want to do is find out what the weather was like at the location and on the day they were born. Another popular choice is to find out what the weather was like on the dates of particular historic events, such as, the Apollo flight, the Kennedy assassination, or when the Berlin Wall came down. Others may be dreaming of leisure and relaxation, and just want to determine average and extreme weather conditions at different times of year in their favorite vacation spot. It's true, science is fun!

Don Jensen, Utah State Climatologist

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