

## Mother Earth Gets Checkup Like Human Patient Through Amazing Gadgets Devised by Soil Experts

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AP Science Reporter

EAST LANSING, Mich.—Soil scientists have wired up Mother Earth for tests like a human patient getting a complete checkup. They take her temperature, in the air above the earth, and from half an inch to 60 inches below the surface. They know how deep the earth is frozen.

They have a finger on her pulse, of life-giving water. They know how much rain or snow falls, how much penetrates, and how deep it goes. They know how much rain has rolled away, and how much precious topsoil was carried with it.

They know how much energy the sky and sun scatter over the patches of earth they are measuring. They know how much wind blows.

What they're learning will benefit farmers and city folks all across the frost belt of the northern tier of states. It will help

control springtime floods, and tell road builders, pipe layers, about frost depth that they need to know, in a hurry.

Amazing instruments. It's done with an amazing set of instruments, which are almost completely automatic. The work is the Michigan Hydrologic Research Project of the Michigan Agricultural Experiment Station in cooperation with the U. S. Department of Agriculture's Soil Conservation Service. Heading it up are Dr. V. R. Gardner, experiment station di-

## Despite Blockade, Children Get Fed



Children in Berlin's hospitals, cut off from fresh milk and eggs by the Russian blockade, are eating a diet of powdered milk and eggs. The American authorities released the powdered foods, which this 5-year-old girl victims of bone tuberculosis samples at Zinnwald Hospital. (Photo by NEA-Arme staff correspondent Erich Engel.)

rector, Dr. C. E. Miller, head of the department of soil science, and George A. Crabb, Jr., Hydrologic Research Project Supervisor.

The main purpose is to learn how freezing and thawing of soils affect run-off of water, erosion, and flood flow under different conditions of land use.

The tests are run on three plots, one a woods, the other two bearing different crops in different years.

Cause of Flood Shown

Floods spilled forward this

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## Tri-City Group Enjoys First Camp At Diamond Lake

Thirty-eight boys and 11 men from Canyonville, Riddle and Myrtle Creek camped together at Diamond Lake last week in the first annual Tri-City Boy Scout camp.

Camping on a spot reserved for them by Dick Hook, recreation guard, at the south end of the lake, 100 yards from the water, Tri-City scouts hope that they established what will become a tradition for that area.

Bob Lilly, scoutmaster at Riddle, served as camp director. He was assisted by W. L. Worrall, scoutmaster at Canyonville. Lee Presnell of Canyonville was in charge of the camp mess.

Organized on a semi-military basis, the camp included a bugler who sounded calls for meals, assembly, etc. Camp and mess inspections were a part of each day's program.

Classes were held in scout advancement, swimming, map and compass work, nature study, hiking, and camp craft. The program included boating, fishing and other forms of recreation.

Bert Springstead of Canyonville hauled equipment to the camp in his truck. Johnny Sellers of Myrtle Creek transported the boys in a large school bus. Equipment included bedrolls, stove, griddles, pots and baking dishes, three boats, two outboard motors, and seven tents. The cooking equipment is part of the permanent purchases made for the camp.

Bob Proctor, Mr. Raymond, both of Canyonville; Mr. Ritchie, Jack Markham and Gene Cornelius, all of Riddle, and the Rev. A. A. Rutledge, Myrtle Creek, completed the roster of adults who attended the camp.

Boys who attended the camp included:

Bob Springstead, Andy Worrall, Jim Jellinek, Blake Hardy, Vernon Sealer, Clyde Zumwalt, Delbert McGinnis, Walter Gibson, Charles Pickett, Ed Pickett, Dick Inman, Bill Reese, Neal Raymond, Bud Trask, Bill Worrall, Bob Strickland and Gene McDonald from Canyonville; Bill Vaughn, George Vaughn, Ralph Adair, Remond Ritchie, Richard Mann, William Lilly, Kerry Hovner, Robert Frode, Gerry Garron, Larry Gillespie, Donald Lawrence, Steve Baxter and Ken Madden from Riddle; Jack McCloud, Dick Kemp, Jerry Jones, Ralph Butler and Jim Rice from Myrtle Creek.

Thomas Paine's pamphlet, "Common Sense," was credited in 1776 with crystallizing sentiment in favor of independence for Britain's colonies in North America.

spring because the ground was melted and the top surface of the ground thawed, the water seeped down. But at a depth of 18 inches the soil still was frozen and the water began to flow downhill. The soil temperature measurements, spread over wide areas, could give warnings of prime conditions for floods. And the soil studies may show how land use in the frost belt can minimize flood dangers.

The amount of moisture in the soil at different depths is obtained by means of a system block wired with two electrodes. The amount of resistance to current depends on the wetness and temperature of the block. Daily records are obtained from 54 points below the surface.

One electrical device measures the direction and velocity of the wind. Another tells the total miles of wind that pass over the ground during the day.

How much energy radiates from the sun and sky to the earth is measured by pyrhemometers. Such exact knowledge can help farmers in choosing varieties of crops that will do best.

Rain gauges tell how much moisture falls. Baffles and flumes situated at the low points on each of the three plots show how much water has run off, and how much soil goes with it.

## Bounty on Jay-Walkers When Shot—With Camera

RICHLAND, Wash.—(AP)—Officials in this atomic energy town have placed a bounty on every jay-walker shot outside the safety crossings.

It isn't as bloody as it sounds. To combat jay-walking, amateur photographers are paid \$1 for every picture they turn in of a resident caught outside the crossing lanes.

If the snapshot is accepted the photographer gets his dollar and the culprit finds his picture in the local paper.

## Vanport Still Entitled To School Funds, Ruling

SALEM, Ore., July 21.—(AP)—The Multnomah County School

Superintendent must give the Vanport School District its share of county school fund when he makes the apportionment next December, Attorney General Neuner ruled today.

Although the school district was flooded and the school buildings destroyed, the district cannot be considered as abandoned, Neuner ruled.

Neuner said the Vanport School Board still functions to conserve and protect the districts assets and property.

BROTHERS IN SMALL WORLD MILES CITY, Mont.—(AP)—Dan Rogers, old time Miles City range rider, sat down in a restaurant to order breakfast and the waiter asked him if he knew the man next to him at the counter. Rogers didn't, so the waiter intro-

duced him to his brother, Bernard Rogers, newly arrived from County Down, Ireland. Dan left the old country five years before his brother was born and they never had met.

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