

December Floods Set River Runoff Records, Destroy Much Geologic Survey Equipment

The Christmas floods on the Pacific Coast not only set many new stream runoff records, they also destroyed an estimated \$660,000 worth of Geologic Survey gaging stations and cables, the Department of the Interior reported last week.

Hollis M. Orem, engineer in charge of the Survey's Current Records Center at Portland, said 68 gaging stations and 43 gaging cables in Oregon, Washington, Idaho, and northern California were demolished.

Built To Withstand Floods

"These stations had been designed to stand the largest flood for which there was any knowledge, with a margin of safety, but the unprecedented flows in the streams and rivers of the Northwest wiped them out," Orem said.

Gaging stations are structures — made of concrete, wood or metal — placed alongside streams to house water-measuring devices. Gaging cables extend across the streams to carry the measuring equipment.

Orem said the floods knocked out 29 stations and 14 cables in Oregon, five stations in Washington, two in Idaho, and 32 stations and 29 cables in northern California. Total cost of replacing these streamflow measuring structures amounts to \$208,000 in Oregon, \$318,000 in California, \$19,500 in Idaho, and \$28,700 in Washington. Partial damage also occurred at many stations and many others were put out of action.

High runoff, that portion of precipitation which appears in surface streams, for December was recorded in all of Oregon, most of Idaho, southern Washington and in part of the Flathead-Clark Fork basin of Montana. The unusually high runoff resulted in monthly mean streamflows many times the seasonal average in the southern part of the Pacific Northwest.

For example, monthly mean adjusted flow of the Willamette River at Albany, Ore. was the highest for December in 73 years of record.

Near Boise, Idaho, the mean adjusted flow of the Boise River was the highest for December

in 77 years of record. The Umpqua and Rogue Rivers in southern Oregon recorded their highest mean flows in 60 years at Elkton and Raygold, respectively, and the Umatilla River near Umatilla had its highest December flow in 62 years.

The Survey's report showed that although the crest stage of the Willamette River at Portland was substantially reduced by operation of flood-control reservoirs upstream, the Survey's Water Quality Branch measured a flow of 391,000 cubic feet per second on Dec. 24.

Projecting the rating curve upward to the Christmas day peak of 29.8 feet would indicate a flow of about 440,000 cubic feet per second at Portland at the height of the flood.

Rain Increased 200 Percent

A report by the U.S. Weather Bureau's River Forecast Center illustrated the unusual intensity of the precipitation which fell over the Northwest in December. For the month, precipitation was 200 percent or more of average southeast of a line extending from Brookings, Ore. through Yakima and

Spokane, Wash. to Kalispell, Mont.

At several stations in the Deschutes Basin of central Oregon and the Big Wood Basin of Idaho there was more precipitation in December than the entire annual amounts in some dry years.

Monthly mean flow of the Columbia River at The Dalles was 163 percent of the December average in the 15-year base period (1948-62) after adjusting for aggregate storage release during the month from nine major power reservoirs and

for storage gain in Lake Chinook.

Computed mean flow of the Columbia at the mouth was 196 percent of the 15-year average after adjusting for reservoir storage changes.

Water Storage Up

December - end storage in nine major power reservoirs of the Columbia system was 1,393,900 acre-feet more than last year, and about 2,143,000 acre-feet more than the seasonal average in the 10-year period (1954-63).

In 25 large irrigation reser-

voirs, storage at the end of December was about 1,496,000 acre-feet more than last year and about 2,078,000 acre-feet above the seasonal average in the 10-year period. December-end ground - water levels were a little higher than average for the Pacific Northwest as a whole. Soil moisture was high at the end of the month.

In January, according to the U.S. Weather Bureau, the mean adjusted runoff of the Columbia River at The Dalles is expected to be about 155 percent of the 15-year January average.

Oregon's Education Expenses Up 9.2 Percent Since 1953

The State Board of Education finds that expenditures for elementary and secondary education have increased an average of 9.2 percent each year during the 10 years from 1953-54 to 1962-63. The total spent in 1962-63, the most recent year for which audits have been completed, was \$191,187,574.

During this same period, current expenditures per pupil in average daily membership have increased from \$299.23 to \$472.58, an increase of \$173.35 per pupil or 57.9 percent. The average annual increase has been 5.2 percent.

As State Board Chairman Eugene Fisher has stated, a major reason for the rising overall cost of Oregon education is the increasing number of students to be educated.

"This," says Chairman Fisher, "has affected the number

of educators needed. The shortage of teachers has, in turn, resulted in increased average salaries, as our schools have tried to attract and hold teaching talent. In 1953-54 the average salary of Oregon teachers and administrators, grades 1-12, was \$4,134; in 1962-63 it was \$6,250, an increase of 51.2 percent."

Fisher notes that, despite this increase, Oregon educators' salaries continue to fall behind those in the neighboring states of Washington and California. Washington's comparable average salary in 1962-63 was \$6,435; and California's was approximately \$7,560.

Another factor contributing to the rising costs of elementary and secondary education is the depreciation of the dollar's purchasing power. According to the consumer price index, it took \$1.13 to buy in 1962 what one dollar could buy in 1953.

The public is demanding additions to the basic curriculum so that youngsters learn more at earlier ages, Fisher said. Specific programs are also being developed for both the low achievers, who might formerly have been school dropouts, and the academically able and gifted. "In addition," he said, "efforts to reduce dropouts have called attention to the need for expanded vocational education programs."

"These many new educational programs require special facilities, which often raise building costs. They are justified by the resulting improvements in the learning situation. Schools are doing a better job of educating our youngsters."

Style Show Plans Started

Plans for their spring style show were eyed by Ashland Sceptomists last Friday at their noon luncheon meeting in the Mark Antony Hotel.

The annual fashion event, which will be held this year sometime before Easter, will be under the chairmanship of Mrs. Louise Walters and Mrs. Ray Clary.

Discussion also concerned the club's spring attendance contest which is expected to get under way in February.

Concert At SOC Slated For Sunday

Wendell Nelson, pianist and musicologist, will present a concert in Churchill auditorium, Southern Oregon College next Sunday at 3 p.m.

Nelson's appearance on the campus is sponsored by Student Music Educators, Chapter 345, of which Dr. Glenn Matthews is the adviser.

Nelson, a member of the faculty at the University of California at Santa Barbara, has presented lectures and concerts in Greece, France, London, and various other European countries, appearing under the sponsorship of the Cultural Division of the United States Embassy. He is widely known as a teacher, music critic and as a contributor to music magazines. He has been awarded several music prizes, and is an honorary member of two national American music societies. He has made numerous appearances as guest artist with the Paganini Quartet.

There will be no admission fee for Nelson's concert at SOC, Dr. Matthews said, although an offering will be taken for the benefit of the Music Scholarship Fund.

Cliff Dwellers

The Cliff Dwellers were prehistoric American Indians who lived in the southwestern part of the U.S. about 1050 to 1300 and built their homes and granaries on cliff ledges, many of which are still in evidence in the western part of the nation.

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Able, Gifted Program Begins At SOC

Fifty-nine students at Ashland High School will participate in this year's Jackson County Able and Gifted program to begin at Southern Oregon College Saturday.

Approximately 230 students in the county will take part in the eight-week program, now in its third year of operation.

Students will attend one of several college-level classes, taught by SOC professors. Classes, to be held from 9 a.m. to noon on Saturdays, will include biology, mathematics, creative writing, world literature, art, and economics.

59 to Participate

Sixty Ashland High School students were originally selected to participate in the program, but one student had to drop out because of Saturday morning conflicts.

Gaylord Smith, principal of Ashland High School, said he thought the program is "very worthwhile." He said he was pleased with the results from previous years and that unfavorable comments about the program have been at a minimum.

To be selected for the program students must have an IQ of 120 or higher, be in the 95th percentile on the composite score of the Iowa Test of Educational Development, and have a teacher's recommendation.

Foreign Teachers Visiting State

Seven elementary teachers from five countries are visiting in Oregon during the next four weeks, until Feb. 12, as participants in the 1964 International Teacher Development Program.

This program, authorized by the Fulbright-Hays Act of 1961, is administered by the U.S. Office of Education, in cooperation with the Department of State, and implemented in Oregon through the State Department of Education.

Each visitor will observe classes and administration in one school district during January. Miss Aida Quiroga, Bolivia; Panagiotis (Peter) Kostoulas and John Zarokostas, Greece; Bounchan Siathone, Laos; Miss Idalia Mucharrax and Miss Silvia Quintana, Mexico; and Mrs. Anne Ruth Mhina, Tanganyika, will stay in Pendleton, Ontario, Lake Oswego, Bend, Portland, Corvallis, and Astoria, respectively.

State Department of Education staff briefed the seven on Oregon education after their arrival last week from Milwaukee, Wis., where they spent three months at the University of Wisconsin attending classes in educational areas of particular interest to them.

Gov. Hatfield will meet with the teachers on Feb. 8, and State Superintendent of Public Instruction Leon P. Minear will meet with them on Feb. 10, near the conclusion of their stay.

Nebraska and New Mexico were selected along with Oregon to host the 26 elementary teachers currently participating in this phase of the International Teacher Development Program.

Dellenback Tells Solons Of Jacksonville Area

Rep. John R. Dellenback, speaking under the order of business "announcements," today addressed the Oregon House of Representatives telling them of the events surrounding the opening of the reconstructed United States Hotel last weekend in Jacksonville.

Dellenback commented that Jackson County, and Jacksonville in particular, is one of the most historic portions of the state, and is an "important link with the past." He spoke of the discovery of gold in Rich Gulch in 1851, and the arrival of C.C. Beekman in 1852. The anecdote which is so well known to many in Jackson County was related by the speaker—that of the entertainment of President Hayes in the U.S. Hotel who, when presented with a bill in excess of \$100, commented, "I only wanted to stay in your hotel—not to buy it!"

Dellenback told the assembly that there are plans underway for the restoration of 44 buildings in the core area of Jacksonville, and great hopes are held by those interested in the eventual complete restoration of this delightful frontier town.

The speaker concluded his remarks by saying, "I invite all of you to visit this land of the Shakespearean Festival, this and of the Britt Music Festival, and see for yourselves the things which are taking place in Jacksonville."

Outer Mongolia, landlocked in the heart of Asia, has gone in for commercial fishing, exporting whitefish and other catch taken from its rivers and lakes.

There are more than 100 species in the tree farms of the Pacific northwest, 23 being of major commercial importance.

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Lithia Park Camping Proposal Rejected By Park Commission

There will be no tent or outdoor camping at the Lithia Auto Court site this summer.

By unanimous vote, the Ashland Parks Commission last night turned down a suggestion to establish camping in Lithia Park on a yearly basis until such time that camping facilities could be established somewhere else either in or near Ashland.

Commission Secretary-Treasurer Archie Fries, Jr., issued the following policy statement regarding last night's decision:

"When Lithia Park was created, and for many years afterward, it was adequate to serve the needs of Ashland and the surrounding area for park purposes and still permit use of the auto park section for overnight and semi-permanent camping and residential purposes.

Growth Noted

"With the steady growth of Ashland and the Rogue Valley and the rapidly increasing number of tourists, especially in the last ten years, overcrowding of the picnic and other fa-

\$9 Million Slated For State Schools This Fiscal Year

Senator Wayne Morse said today that the administration's education program which he is sponsoring in the Senate would bring about \$9,036,748 to Oregon schools per fiscal year. The nation-wide expenditure the first year will be \$1,225 billion.

Nearly \$7 million of this will go into schools faced with educating the children of very low income families in an effort to upgrade their education and lift them out of a recurring family pattern of poverty.

The remainder of the Oregon funds will provide \$1,069,776 for supplementary education centers and services, \$980,782 for school library materials, and \$133,013 to strengthen the State Department of Education.

QUICK QUIZ

Q—What territory is embraced in the Delmarva peninsula?
A—Most of Delaware and parts of Maryland and Virginia.

ilities in the park has indicated the urgent need for development of additional areas for the use of our people.

"Recognizing the needs of the community and looking to the future, the Ashland Park Commission, in 1959, gave notice that the auto park lease would not be renewed beyond Sept. 15, 1964 and that the buildings would be removed in accordance with plans to provide more space for park purposes.

"To eliminate conjecture as to use of the park, the park commission wishes to make clear that it does not intend that any portion of lands dedicated for park purposes shall be developed for any use other than for public parks and that overnight camping shall be prohibited therein."

Other Action

In other action, the group briefly discussed recommendations for next year's budget and received a storm damage report of Lithia Park.

It was also disclosed that Charlie, one of the zoo's monkeys, lost a toe by amputation recently after it became infected.

The commission was told that Charlie "was doing as well as could be expected."



Among native Australians "message sticks" are used to carry information. Notches are made on a branch in the presence of the messenger, who receives his instructions while they are being made. American Indians also used notched sticks to record various tribal incidents.

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