

Snake River Said Turbulent Physically and Potentially

Lewiston, Idaho—(AP)—The Snake is a turbulent river, both physically and potentially.

Physically, it tumbles down out of the Wyoming mountains, plunges through the deepest gorge in North America and empties into the Columbia river 1,038 miles from its starting point.

Politically, the waters of the Snake appeared somewhat calmer in 1957 after the 11-year battle over Hells Canyon came to an end. That bitter public-vs.-private power fight ended with Idaho Power Company winning the right to build three dams in the Hells Canyon reach of the river.

But already another fight over dam sites is under way and this time the key word in the battle may be fish.

Four-Firm Combination
The principal antagonists are Pacific Northwest Power Company and Washington Public Power Supply System.

Pacific Northwest, which has applied for a license to build High Mountain Sheep dam, is a combination of four private utility firms. Washington Public Power, which has applied for a license to build Nez Perce dam, is a combination of 13 public utility districts in the State of Washington. Construction of either dam would make the other impossible.

In 1955, Pacific Northwest applied for a preliminary permit for a two-dam project known as Mountain Sheep-Pleasant Valley in the Middle Snake.

The federal power commission turned down the application to build the dams in January, 1958, with the suggestion that the company—or somebody—ought to build Nez Perce dam instead.

But Pacific Northwest returned with its proposal to build High Mountain Sheep dam in March, 1958. A hearing on that application had been set by the FPC for March 21 this year.

On March 15, the Washington Public Power group applied for a license to build Nez Perce. Hearings were put off to May 18, then July 18, and finally to Oct. 17.

Mrs. Eisenhower's Bronchitis Brings Fever and Pains

Washington—(Science Service)—The acute asthmatic bronchitis that has sent Mrs. Mamie Eisenhower to Walter Reed Army Hospital is, in layman's terms, an eruption of inflammation in the air passages leading to the lungs. Early symptoms may include slight fever, which Mrs. Eisenhower has, pains in the back and muscles, sore throat, inflamed nasal membranes with sneezing and watering of the nose and eyes, loss of appetite, and a feeling of being tired and restless.

The mucous membrane of the air passages often gets rid of the diseased lining by irritating a cough.

Cough May Persist
In uncomplicated cases, there is a fever of 101 to 102 degrees that lasts for three to five days. After this, the worst is over, although a cough may persist for two to three weeks. The lungs themselves are not usually involved, but they may make strange crackling sounds during healing.

The "customary treatment," the White House press secretary has mentioned, is usually bed rest until the fever disappears and a bland diet with large amounts of liquids. Some medication to reduce fever or relieve restlessness may be given. In asthmatic patients such as Mrs. Eisenhower, a drug that dilates the lung spaces may be given.

Train Missing; Sheriff Called

Moscow, Idaho—(AP)—In his career as a law enforcement officer Latah County Sheriff R. C. Lange has had to search for missing persons, missing animals and missing cars.

But he was more than a little astonished when he was asked to search for a missing train.

Local railroad officials became alarmed when their train did not arrive on schedule. It seems officials at Pullman, Wash., nine miles away, forgot to tell them about a minor accident that delayed the freight.

Lange was just starting out on a search when red-faced railroad men called. They found their train.

MECHANIZED FARMS
Chicago—Mechanization of U.S. farms is said to have increased by up to 250 per cent since the end of World War II.

The two applicants recently agreed to use data issued by the Army Corps of Engineers as the basis of their arguments in the joint hearing next fall, but there agreement ends.

Why all the fuss over two dams less than three miles apart and with less than 10 feet difference in height?

The issue lies in the fact that those three miles mean the difference between below the mouth of the Salmon river and above the mouth of the Salmon. And the Salmon river is the last great spawning ground for the Chinook salmon, which provide the major part of commercial and sport fisheries on the Columbia river.

South of Lewiston
High Mountain Sheep would be about 50 miles south of Lewiston, not quite one mile above the confluence of the Snake and Salmon. At 690 feet in height, it would back water to the tail-water of Hells Canyon dam, creating 875,000 kilowatts of power with an eventual capacity of 1,750,000 kilowatts.

Nez Perce dam would be about three miles downstream, below the mouth of the Salmon river. At 700 feet in height, it would create 1,200,000 kilowatts of power with an eventual capacity of 2,400,000 kilowatts.

The public power group bases its argument mainly on the greater power production of Nez Perce and says a crash program probably could solve the problem of fish passage while the dam is under construction.

Pacific Northwest bases its claims on the thesis that the area needs more power as soon as possible and Mountain Sheep can be built more quickly and without disturbing fish runs in the Salmon.

Chilean Quakes Said To Extend 31 Miles Deep

Washington—(Science Service)—The earthquakes in Chile extended 31 or more miles below the surface of the earth, seismologists at the U. S. Coast and Geodetic Survey here believe.

The scientists are now collecting and analyzing data from the quakes. They report 11 major quakes out of a total of about a thousand. They do not expect those to be the last from Chile. After shocks can be expected for several months.

Each quake produces three types of waves that are recorded by seismologists around the world. The primary and secondary waves come through the earth's interior. The third is a surface wave that follows the outside of the earth.

Can Calculate Distance
By studying the time intervals between the waves, a seismic expert can calculate the distance of the quake. Reports of the seismic waves also help determine quake depth.

Quakes can be several hundred miles deep. Shallow quakes, however, are only about 15 miles deep.

Chile is in a particularly bad part of the Pacific earthquake belt, which rims the Pacific and runs through Japan, the Philippines, Alaska and the West Coast of North America.

In 1922, 1928 and 1939, Chile experienced earthquakes of magnitudes nearly as great as the biggest of the recent series.

The biggest quake in Chile's recent series had a magnitude of 8.9. San Francisco's 1906 quake was 8.3. The world's record was made in the same year in Ecuador: 8.9.

Old Books Lugged To New Library

St. Louis—Scholars might appreciate the rare books in the new Plus XII Memorial Library at St. Louis university, but they were just a pain in the back to others.

While the transfer of 200,000 books was being made from the old library, one workman straining under a heavy load of priceless volumes grunted:

"Boy, they build a brand new library—you'd think they'd buy new books for it."

Official Should Have Taken Own Advice

Phoenix, Ariz.—Phoenix City Manager Ray W. Wilson sent a memo to all department heads suggesting a campaign to eliminate errors in letters and reports.

Wilson's memo began: "We are doing better, but . . ."

Recreation Offered

Recreations include an internal program of patients' choices of phonograph disks, quizzes, film shows and concerts.

In the large grounds is a farm which helps to provide a substantial part of the patients' food. The grounds are also dotted with villas, built to take 30 or 40 patients. All the houses are linked to a steam heating plant, thus avoiding any risks of fire from open coal, gas or electric heaters.

The hospital will cost about \$6 million when it is finished in a few weeks' time.

Ireland Mental Hospital Offers Beauty Treatment

Londonderry, Northern Ireland—(Science Service)—The first completely new mental hospital to be built in the British Isles since before World War II is now being finished on a 420-acre site overlooking Lough Foyle here. Sections of it are already in operation and Dr. D. J. C. Dawson, the medical superintendent, is introducing many revolutionary "tricks to help the patients back to health."

"We are trying to break away from the old hospital atmosphere here," Dr. Dawson said. "Patients are not given hospital beds in wards but the kind they might have at home in separate houses."

Unlocked Doors Featured
A beauty parlor for women patients, a barber's shop for the men, weekly dances and unlocked doors are other features. The women get their beauty treatments and hair sets free.

"We regard the beauty service as a part of the treatment," Dr. Dawson explained. "It is first-class for the women patients' morale."

The hospital has a large number of workshops covering various trades and there is also a substantial range of occupational therapy activities. It also has a recreation hall, gymnasium, store, canteen and library.

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Fisherman Loses Race to Own Boat

Provincetown, R. I.—Lobster fisherman James Pierrera, 51, fell out of the boat as he was setting his lobster pots.

The boat chugged off into the fog, and Pierrera swam the 100 yards to shore.

He found the boat, named "Follow Me," lashed ahead of him.

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Hawaii Had Ample Warning of Danger From Seismic Wave

Washington—(Science Service)—Twelve hours before seismic sea waves hit Hawaii and killed at least 26 persons, officials there were advised of the wave and told when it would hit, the U.S. Coast and Geodetic Survey here reports.

The advisory notice and prediction were issued in Hawaii at 9:59 p.m. Greenwich time, Sunday, May 22. A firmer warning was issued at 4:47 a.m., Greenwich, on Monday.

The waves hit at 10:22 a.m., Greenwich, on Monday—just 22 minutes later than the time predicted 12 hours before. Yet at least 26 in Hawaii were killed. And throughout the Pacific as many as 180 persons were reported dead or missing.

Still, Barnard D. Zetler, chief of the Currents and Oceanography Branch of the Survey here, said the time was "luxurious."

For example, waves originating from the Aleutian trench extending from Alaska never permit such long warnings. The waves themselves take only about four and a half hours to reach Hawaii.

How Tides Begin
Tidal waves originate from irregular trenches on the ocean floor.

Oceanographers believe earthquakes cause great landslides at these trenches and that the landslides start the sea waves. Thus, oceanographers frown on the name, "tidal wave," which implies the wave is caused by the moon and sun, as are tides.

The scientists prefer "seismic sea wave" because it better indicates the cause and nature of the waves. And a Japanese term, "tsunami," is favored in many scientific journals.

"Tsunami" means "port wave." The tidal wave cannot be seen at sea. In fact, ships head out to sea when warned of a tidal wave. The ships would be wrecked in port, where the waves reach great heights. But ships at sea are not hurt. People on the ships do not even notice the waves.

At sea, a wave may be a hundred miles long but will be only a foot or two high. It may travel at 400 to 500 miles an hour.

Warning Network
The Pacific's tidal wave warning network was set up by the U. S. Coast and Geodetic Survey after waves in 1946 had devastated Hawaii. Twenty-one Pacific tide stations are now in operation.

They have only part-time employees who wind clocks and record data.

But after seismic stations have located a quake that might cause a wave, the part-time employees are told to man their stations. They then send the exact time the tidal wave crests at their stations to the Honolulu Magnetic Observatory of the Coast and Geodetic Survey. The Observatory is the center of the

Survey's seismic sea wave net. From the stations' reports the Observatory can figure the speed of the waves and predict when they will hit other areas.

Quick communication throughout the net is made through the military radio system. The U. S. warning network is the only one of its kind in the world. It operates only in the Pacific. The eastern U. S. is protected from Atlantic tidal waves by the Continental Shelf.

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