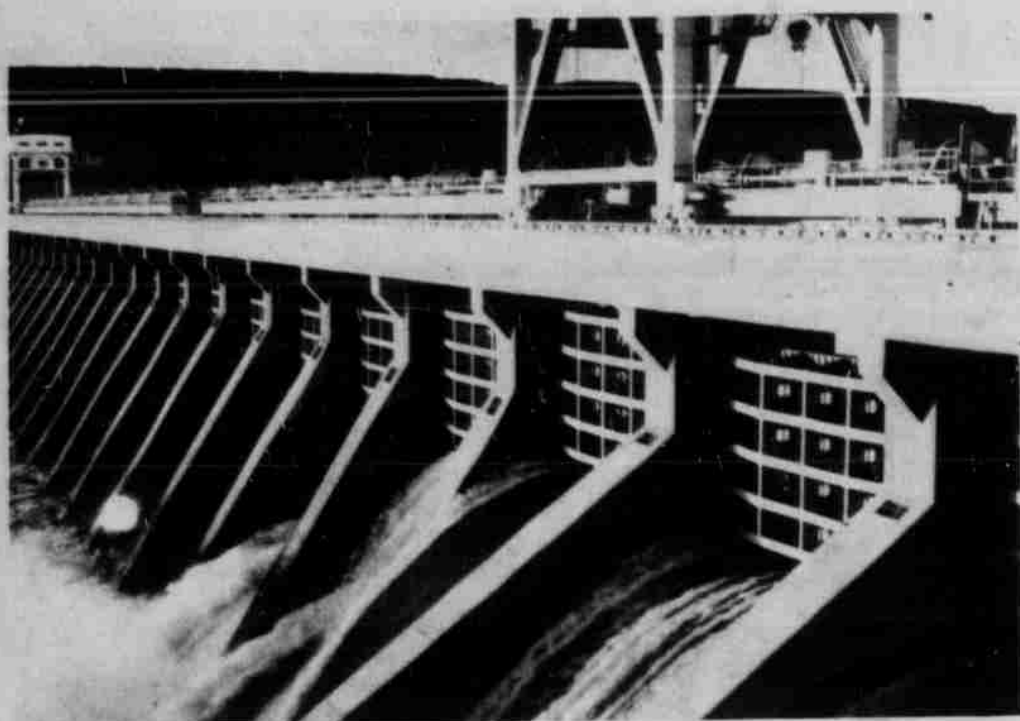




Spilling for fish at McNary Lock and Dam on the Columbia River near Umatilla. (Corps of Engineers photo)

Woman, 90, receives card from President

Maude Pointer received a special birthday greeting card from President Jimmy Carter at her recent 90th birthday party.

Mrs. Pointer was the guest of honor at a champagne brunch in Corvallis to honor her birthday.

Hosts were family mem-

bers.

Family attending included Bud and Harriet Batty of Heppner; Orville and Barbara Cutsforth of Heppner; Mark, Cathi and Donnie Pointer of Lexington; Hank, Kathi, Eric and Amy Pointer of Ione; Mary Louise Pointer of Seattle; Fred and Mary Driscoll Pointer of Calif.; George Pointer of Roseburg; Mrs. Don Pointer of Pendleton; Larry, Barbara and Michael Pointer of Scappoose; Jim and Kathy Pointer of Lebanon; Charley Pointer and Stephanie Hendrix of Redmond; and Donna Pointer Gray and Jeremy of Beaverton.

After the brunch there was a reception with more than 100 persons attending. Cake, punch and coffee were served. Seven of 10 grandchildren and five of seven great-grandchildren attended.

Douglas fir and other species, \$22.54.

The Round timber sale was sold May 28 to Louisiana-Pacific Corporation, high bidder, for \$756,032.00. The sale was appraised at \$272,444.00 for 11,000,000 board feet. The sale area is on the Ukiah Ranger District, Morrow County.

Final bid prices per thousand board feet were: ponderosa pine \$186.00; Douglas-fir and other species, \$23.17; lodgepole pine, \$40 per acre for 2024 acres and chippable lodgepole pine, \$9.74 per acre for 228 acres.

Forest Service reports on 2 timber sales

H.B. Rudolph, forest supervisor for Umatilla National forest, announces that the Hunter II and Round timber sales were sold during the month of May.

The Hunter II timber sale was sold May 14 to Harris Pine Mills, high bidder, for \$1,930,058.00. The sale was appraised at \$756,512.00 for an estimated 20,000,000 board feet.

The sale area is on the Heppner Ranger District in Morrow County. Final bid prices per thousand board feet were: ponderosa pine, \$97.25;

Fish can be saved from spinning turbines on Columbia

There are two ways to get juvenile salmon and steelhead down the lower Snake and Columbia rivers without submitting them to the dangerous and sometimes fatal trip through the spinning turbines of the eight multipurpose dams.

They can either be transported aboard tanker trucks and barges, or flushed through the spillways of the dams.

Transporting has proven to be fairly successful with more than five million fish hauled in each of the last two springs. Already this year, some four million have been hauled, according to fisheries biologists of the U.S. Army Corps of Engineers at Walla Walla.

The transportation system requires a fingerling bypass and collection system which has been installed at three of the eight dams—Lower Granite, Little Goose and McNary. But not all the fish arriving at these dams find their way into the bypass system.

For these fish and others arriving at the five other dams, there are two choices—go through the turbines at an estimated 15 percent risk of life and fin, or hope some of the river's flow is going through the spilling gates for a much safer passage.

Fishery biologists think there might be an answer. If they knew a little more about when, how and why the young fish approach the dam and how they might successfully attract them to the spillways, they might be able to flush them through in groups or schools, rather than simply spilling water in hopes the fish will be there.

Using special sonar equipment and hours of personal observation—often in the middle of the night—seven biologists and assistants are working this spring to try to determine if selective spilling is an answer.

In the Walla Walla District, sonar monitoring programs are underway at Lower Monumental and Ice Harbor dams on the lower Snake River and at McNary.

The researchers are seeking to determine if there are patterns of fish passage—that is, are there certain times of day juvenile salmonids are most likely to approach the dams?

They also want to determine if the fish usually approach the dam in tight schools or in spread-out groupings. Still another objective is to determine ideal spill volumes, spill patterns, and spill times to most successfully attract and pass the young fish through the spillway.

Success rates of various spill volumes will be compared to determine what minimum volume of spill is necessary to successfully attract and pass the fingerlings. When fish are attracted and are passing through the spillway, the volume will be decreased until passage decreases or stops. Then the volume will be increased until passage increases. The tests will be repeated until the ideal spill volume is determined.

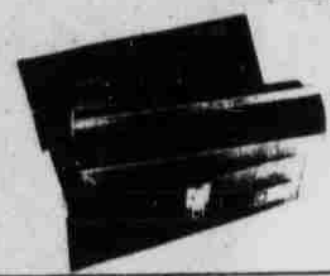
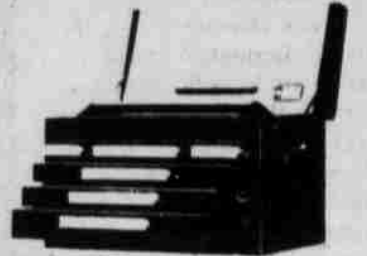
Though still experimental, biologists are confident that their research will lead to better efficiency in spilling water for fish passage. Combined with the transportation program, selective spilling

and powerhouse sequencing (shutting down the turbines during ideal fish spilling times), can make a significant contribution to Pacific salmon and steelhead survival.

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