

## THE BONNEVILLE DAM CHRONICLE

HOOD RIVER, OREGON

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JOHN H. TRAVIS.....Editor

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### THOSE MUTILATED SALMON

Fingerling salmon were literally battered to pieces when put through a four-foot turbine at 360 revolutions a minute at the Cazadero Dam during the past week. Harlan B. Holmes, aquatic biologist of the United States Bureau of Fisheries, headed the test which was planned by the state game commission. Only about 10 per cent of the fingerlings escaped alive, it was reported.

The newspaper account of the experiment naturally makes one anxious regarding the possible injury to fingerlings that may be drawn through the turbines at Bonneville. However, that anxiety should be dissipated by the report of the commissioner of fisheries on "Bonneville Dam and Protection of the Columbia River Fisheries." It was ordered printed last month.

The report shows that the Bonneville turbines turn at the very low rate of 75 revolutions per minute, as compared with 360 at Cazadero.

The smallest opening the fish will encounter in the turbine gates will be 4 by 11 feet. Furthermore, the report says, changes in pressure are not regarded as dangerous, since experimental tests have shown that fish can withstand extreme changes of pressure of compression and decompression is very rapid; on the other hand, fish that have become adapted to high pressures over a considerable period suffer on decompression. Fingerling salmon, as a rule, swim at the surface levels of the water, and it is not likely that they will become accustomed to high pressures from swimming in the depths of the Bonneville pool. This habit also makes it unlikely that any considerable number will be drawn downward to pass into the intakes.

On approaching the powerhouse, fingerling salmon will encounter a distinct current entering the conduits of the auxiliary water supply. These openings will be screened, however, and the fish will naturally pass them and enter the adjacent opening to the fingerling passes. The ice chute at the powerhouse receives water from a channel extending entirely across the dam, skimming the surface layers. It is anticipated that quantities of fingerlings will likewise find their way over the dam by this means. At the spillway dam downstream migrants can probably pass through the spillway gates without injury, although here again, the discharge will be at some 30 feet below the surface. Similar fingerling passes are provided at each end of the spillway dam to which the fish are attracted by currents of water entering the screened intakes of the conduits of the auxiliary water supply. Hence, there seems to be no great reason for anticipating serious interference with the downstream passage of fish at the spillway.—The Dalles Optimist.

### MORE THAN A FAD

Just a few years ago when the first auto trailers began to appear in this section there were local citizens who looked them over and pronounced them just a passing fad.

The vacation season just reaching its close has proved how far off they were, with every highway in the land literally cluttered with them. Like the moving picture and the radio, both of which were pronounced fads when they first appeared, the trailer is not only here to stay, but seemingly destined to become a great industry. In fact, it has already reach gigantic proportions, with more than 50 plants engaged in manufacturing them,

and some of these plants working as high as 2000 employees. States that cater to tourists are spending large sums in building parks, or camp sites, in which these trailers can be accommodated; on the Columbia River Highway, west of here, large signs are in evidence advertising these parks; at least two national magazines are being published in the interest of trailer owners and already a national organization has been formed of the owners of auto trailers with a membership that even now runs well into the thousands.

Social problems that will result from a population on wheels are easily visualized. Camping where they stop at night, occupants of these houses will soon present a sanitation problem. Probably the solution will be requiring trailer houses to stop for the night at designated camps—not parked at the side of the road as has been the case on the Columbia River Highway during the summer.

We sometimes agree with the village philosopher from our old home town who used to say that half the unhappiness in the world is caused by failure of plans which were unreasonable in the first place.

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**Check**

**Check**

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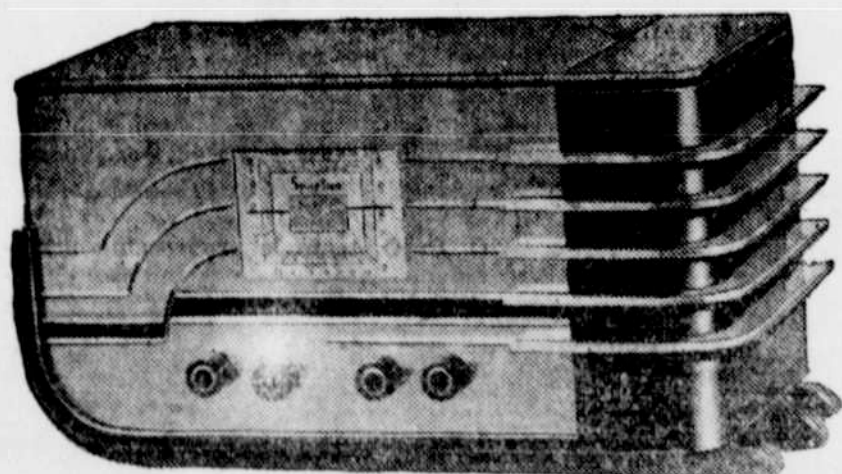
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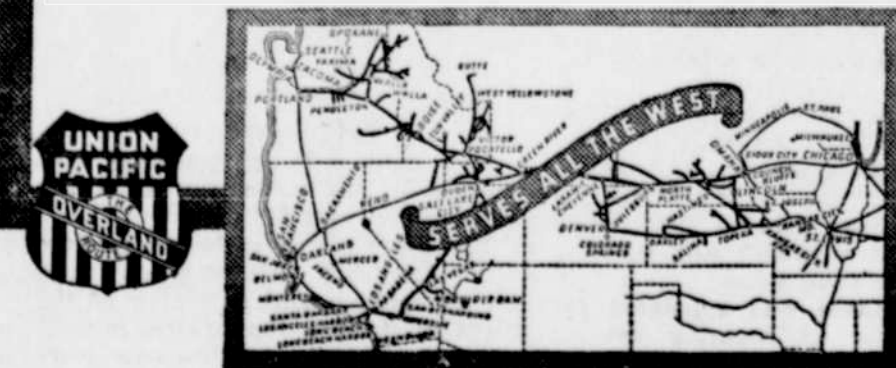
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Today's housewives appreciate the amazing short-cuts that canned foods bring to the kitchen—thanks to modern canning methods and the fertile lands of the Golden West. Delicious fruits and vegetables, picked at the peak of their natural goodness, packed in containers by methods which retain their flavor and freshness—tasty tuna and salmon straight from the ocean or rivers—flavorful preserved meats prepared under government supervision—rich condensed or evaporated milk from cows pastured on the west's abundant fields!

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