

AUDIT REVEALS FUND SHORTAGE

LAKEVIEW, Jan. 13. (Special)—A shortage in county funds totaling \$1324 was found here Saturday by C. H. Mason, Klamath Falls accountant summoned to make a special audit after Edgar Clark, former county treasurer, had admitted appropriating county money to his own use.

Clark has agreed to replace the money and to pay the cost of the special audit. The Lake county court is not expected to bring charges, being satisfied with Clark's pledge to make restitution.

Resigned Because of Health
The treasurer resigned recently, ostensibly for reasons of health. Soon after, a deficiency in the county funds was discovered by his successor, resulting in Clark's confession.

Hopper Poison Held Cause of Cattle Deaths

Cattle deaths which have recently plagued the Liskey brothers ranch were diagnosed as due to arsenic poisoning by Dr. W. H. Lytle, state veterinarian of the Oregon department of agriculture, who arrived in Klamath county Saturday to investigate the cases.

Dr. Lytle was of the opinion the arsenic came from particles of a grasshopper poisoning preparation which either may have been overlooked in clearing the Liskey fields or may have been washed by rains and snows from neighboring property onto the Liskey place.

Farmers and stockmen should be particularly careful in disposing of the grasshopper poison residue and of the sacks or barrels in which the substance is sold, Dr. Lytle warned. The poison is sodium arsenite, similar in taste to common salt, and as such will be eaten by cattle if it is available to them.

The veterinarian advised growers to examine their pastures carefully and to dispose of any of the poison residue as well as of the sacks or barrels in which the poison was stored. These should be deeply buried, Dr. Lytle said, as burning does not remove from the substance its noxious qualities.

Nazis Wont Examine Olympic Games Meat

BERLIN, Jan. 13. (UP)—Official preparations for the Olympic games Saturday included a dinner today by Minister of the Interior Wilhelm Frick exempting from German veterinary inspection all fresh meats brought into the country by foreign teams until the close of the international games.

The Olympic propaganda committee, virtually directed by the national minister of propaganda, Paul Joseph Goebbels, announced bans would be placed on all trashy souvenirs during the games and refused to sanction several products, including herring tins and mustard jars bearing Olympic symbols and socks interwoven with the five Olympic rings.

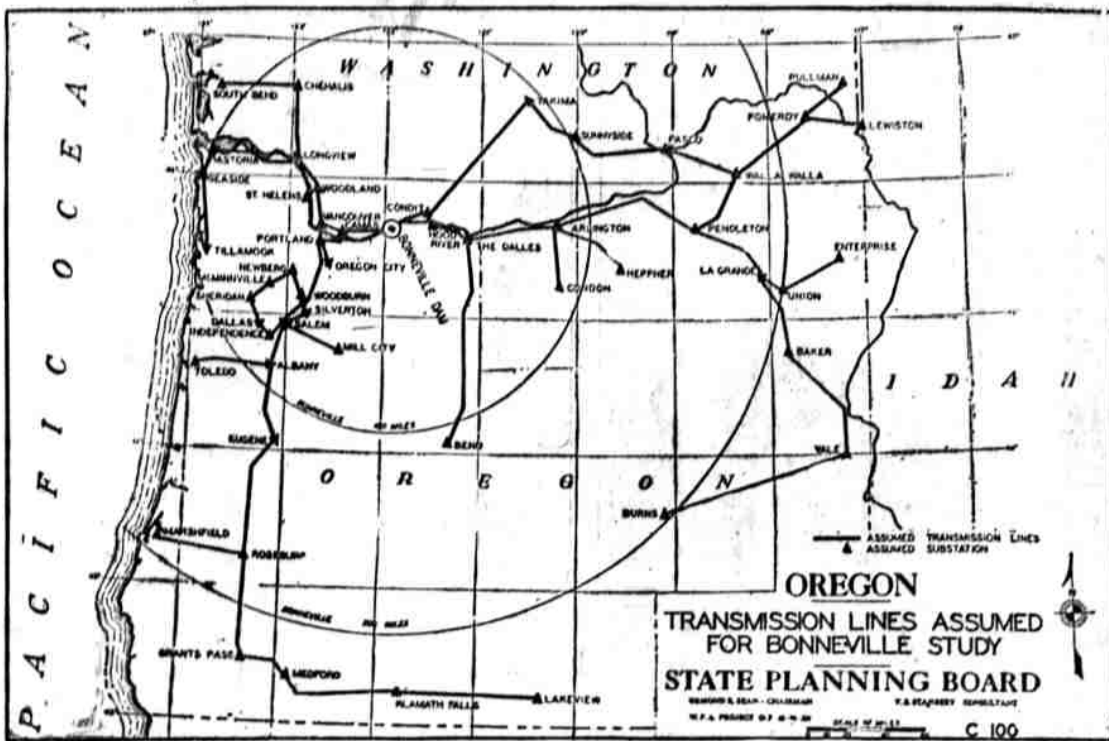
Ceremonies Held For John Gilbert

BEVERLY HILLS, Cal., Jan. 13. (UP)—With a solemnity that was in striking contrast to the hysterical tributes paid other screen lovers, quiet funeral services were held here Saturday for John Gilbert, idol of millions of women in the days of silent pictures.

Martin Names Four Wild Life Delegates

SALEM, Ore., Jan. 13. (UP)—Governor Martin Saturday selected four delegates to represent him at a national conference on wild life conservation to be held in Washington next month. He named George W. Peavy, president of Oregon State college; Brigadier General T. E. Riley, Salem; George Alken, Ontario; and Dexter Rice, Roseburg, Alken and Rice are members of the state game commission.

Bonneville Power Distribution Studied by Planning Board



The above map, prepared as part of a study on distribution of power from Bonneville to the entire state of Oregon, shows the location of transmission lines and substations, in accordance with assumption of engineers that within 15 years use of power in the state will increase two and one-half times over the amount used in 1934, and that Bonneville will supply the increase. The report, prepared by the advisory power committee of the Oregon state planning board,

also outlines two methods of figuring costs of transmission, as shown in the tables above. Those preparing the report have figured costs of production at the plant and costs of distribution to substations, based on what they term "favorable and optimistic assumptions." No attempt was made to figure costs to consumers, and the engineers point out that the figures should not be regarded as official, but as a guide to possibilities of the project.

TABLE 1 (ONTARIO PLAN)
Costs of electrical energy delivered at substations based on a 40 per cent load factor and allocation of capital and annual transmission costs proportioned to substation demand and transmission distance.

SUBSTATIONS	Estimated demand kilowatts	Cost of Delivered Energy Per Kw. Hr.		
		(Miles) Transmission	(Miles) Substation	(Miles) Total
Willamette Valley Area—				
Portland	30	1.07	1.07	2.14
Oregon City	49	1.77	1.77	3.54
Salem	84	2.50	2.50	5.00
Coastal Oregon Area—				
Astoria	124	3.50	3.50	7.00
Tillamook	170	5.07	5.07	10.14
St. Helens	70	2.16	2.16	4.32

TABLE 2 (TENNESSEE PLAN)
Cost of electrical energy delivered at substations based on a 40 per cent load factor and total capital and annual costs charged uniformly throughout the transmission system.

SUBSTATIONS	Estimated demand kilowatts	Cost of Delivered Energy Per Kw. Hr.		
		(Miles) Transmission	(Miles) Substation	(Miles) Total
Willamette Valley Area—				
Portland	30	2.57	2.57	5.14
Oregon City	49	4.33	4.33	8.66
Salem	84	7.11	7.11	14.22
Coastal Oregon Area—				
Astoria	124	10.14	10.14	20.28
Tillamook	170	14.22	14.22	28.44
St. Helens	70	6.44	6.44	12.88

NOTE: Generation charges for bracketed substation loads were estimated as combined under one contract.

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Based on the assumption that Oregon within 15 years will consume two and one-half times as much electrical power as was used in 1934, and that all of the increase will be supplied by the Bonneville power project, a comprehensive report on producing and transmitting costs from this source has been completed by the advisory power committee of the State Planning Board. The report will be placed in the hands of Governor Martin for release to the public today. It is announced by J. C. Stevens, consulting engineer of Portland, who is chairman of the board's power committee.

The report was prepared from data furnished to the board's committee by Colonel T. M. Robins, division engineer, North Pacific Division, U. S. Engineer corps, from studies made by his staff. Although crammed with valuable and informative facts and figures, the costs in the report, due to the fact that they are based largely on optimistic and favorable assumptions, have no official standing and should not be construed as a basis for future rates, the power committee points out.

No Estimate Made
"In their very nature, the costs represent the least possible price at which power could be delivered to substations, unless some further reductions of the charge against power, in addition to that of navigation assuming part of the capital cost, is forthcoming," the report states. "The costs set forth, however, answer immediately the inquiry in the minds of a number of outlying communities and utilities as to whether they should proceed to develop local power resources or wait for power to be supplied from Bonneville."

No estimates are made for the

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able by the ultimate development at Bonneville is more than twice that generated in Oregon during the maximum year of record.

Members of the board's power committee, who prepared the report, are J. C. Stevens, chairman, consulting engineer, Portland; R. H. Dearborn, vice-chairman, Dean of Engineering, Oregon State Agricultural college, Corvallis; Arthur J. Farmer, assistant manager, Portland chamber of commerce; C. I. Grimm, head engineer, U. S. Engineer department, Portland; J. W. McArthur, superintendent, Eugene water board; Eugene F. R. Schenk, consulting engineer, Portland; George H. Wisting, assistant general manager, Northwestern Electric company, Portland; V. B. Stanbery, planning consultant, National Resources Committee.

Complete tables, showing the engineers' estimate of costs of production and of transmitting power to all sections of the state, are presented in the report. A map showing routing of lines and location of substations is also included.

The report presents, without recommending preference of either, two distinct methods of analysis of transmission costs to the state from Bonneville.

"Under the first plan," says the report, "each substation is assumed to carry its proportionate share of the capital cost of the transmission system as well as its share of the annual charges, the allocation between substations being based upon the peak demands and their relative distance from the point of generation. It was further assumed that independent contracts would be made for firm power at each main substation based on the cost of power at those substations. This method of computation results in a varying cost of energy throughout the transmission area and is similar in theory to the method used by the Ontario Hydroelectric Commission operating in Canada.

"Under the second plan, fol-

lowing a method of analysis adopted by the Tennessee Valley Authority, the capital and annual costs of the transmission system within the entire territory served have been lumped into a single unit. The effect of this method is to subsidize the outlying and low demand districts at the expense of the nearer and larger power-consuming portions."

Engineer Data Used
The report is based on the following assumptions, which, engineers point out, are of course subject to change:

1. The Bonneville plant will have an installed capacity of 432,000 kilowatts, or 600,000 nominal horsepower, and all of the salable power available from this capacity will be distributed to 51 substations within a period of 15 years from beginning of operation of the plant.
2. Half the cost of the dam, fishways and reservoir, and all the cost of the shiplock are charged off to navigators, and the balance to power.
3. The capital cost of the facilities charged to power generation for the ultimate development of 10 units of 60,000 nominal horsepower each is \$46,000,000, including interest during construction, as of the date of completion.
4. The annual costs charged to the generation of power are made up of four per cent interest on the capital cost over a period of 50 years, replacement fund set up to restore equipment, maintenance and operation, and carrying costs of unused generating facilities over the 15-year period.
5. Capital cost of the transmission system, including 51 re-

ceiving stations, is \$43,270,000. 6. Annual cost of transmission of power in wholesale blocks to the 51 receiving stations is made up of four per cent interest on the capital cost of that portion of the transmission system complete and in operation, amortization of the capital cost at the end of 60 years, replacement fund, and maintenance and operation.

7. The power distributed to each of the 51 receiving stations is in proportion to the present use within the area tributary to each.

Trainman Killed As Locomotive Runs Into Slide

FORT BRAGG, Calif., Jan. 13. (UP)—Herman Gustafson, fireman on the California & Western railroad, was killed Saturday when a locomotive, running light, crashed into a slide five miles east of Fort Bragg. William King, engineer, was injured seriously. The locomotive was wrecked. The wreck was discovered by a searching party sent out on a handcar from Fort Bragg when the locomotive failed to arrive. Gustafson was dead. King was brought to a hospital at Fort Bragg. Physicians said he would recover. King and Gustafson were the only persons aboard the locomotive.

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