## **Committee Report Gives** Interesting Figures on **Tumalo Irrigation Plan**

Deschutes river to Tumalo Creek to given yesterday at the Commercial club luncheon, as follows:

"The Tumalo project originally 6300 acres of land under this system tion the past season, and it has been found that there was sufficient surthe limit allowed by the state of sales until more water can be provided. Nothing has developed since the completion of the Tumalo dam to discredit the engineers' original estimates that there was enough water in the water shed of Tumalo Creek and its tributary streams-such as Crater Creek, Bull Creek Spring, etc. -to irrigate the full estimated tract of 22,500 acres, and, in fact, the 10,500 acres additional for the so-

called Tumalo extensions. The whole difficulty to date is the failure of the reservoir site to hold water. Attempts have been made to plug up are results, achieved in reservoirs in the leaks in the ground, and some success has been met with, but at best it is a slow process, and the ultimate success of making it watertight throughout is still problematical.

"Now it is desired to divert water or more. 14,500 acres, since experience to date be made to hold water then there is natural flow.

"It is admitted by the sponsors for sible, on account of prior rights, to others that we know not of'. secure this amount of water, or in fact any at all from the natural flow

Interesting statistics concerning cers of the State of Oregon and the the Tumalo irrigation project are con- Reclamation Service, dated Decem- there is abundant use for its ertire tained in the report of a special Com- ber, 1914. Most of you will remem- flow, including what might be imber that in that year the state and the mercial club committee, composed of United States Reclamation Service J. P. Keyes, H. W. Skuse and H. J. each appropriated \$50,000 for a sur- the expense of distributing on the Executive Committee Meets and Out-Overturf, who investigated the feas- vey of this region, and one of the obibility of diverting water from the jects of the investigation, to use the words of this report on page 19, was 'the providing of storage (a) in a aid in watering the lands included in reservoir on Deschutes river just the Tumalo project. The report was above Benham Falls, as earlier co- mentioned in the beginning of this operative work, referred to above, had disclosed the possibilities of storage by a dam located just above the

Marsh.' To make a long story short. Tumalo reservoir." this investigation resulted in nothing plus water to permit the irrigation of very definite on these points, and we 8000 acres altogether, and this is quote again from the same report on page 102, as follows:

"''As a practical consideration affecting the selection of a storage reservoir in a region such as this, where the formation is admittedly fissured and cavernous and where heavy underflows are known to exist, it must be recognized that there is an element of chance in any of these surface depressions, termed reservoir sites, forming tight reservoirs.

" 'It is impracticable to determine these matters by examination or experiment. All that can be relied on other volcanic regions having similar characteristics."

"Now, it is admitted by those who have investigated the subject that the reservoir to south of Crane Prairie from the Deschutes river to supply is almost monotonously uniform. At sufficient water to make up the de- the time the above quotation was butaries for irrigating 22,500 acres not been completed, but in the light additional water to irrigate at least sumed that if this reservoir cannot 1918 convention was outlined. shows only \$999 acres can be irri- little hope of finding a water-tight gated by the Tumalo alone from its basin above Benham Falls. The prop-

the language of a famous poet, 'like this project that it would be impos- flying from those ills we have to Mr. De Armond mentioned, while an-

"We do not wish to take the stand of the Deschutes river during the gation which appears feasible and tained. irrigation period of six months each practicable, and we should heartily year, and hence it will be necessary indorse appropriation of funds for

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proximately as fast as the money is expended.

"On the other hand, to secure any water whatever from the Deschutes river would require, according to the sponsors for this scheme, approximately \$425,000 before anything would be known as to its success, Furthermore, it seems an economic waste to spend \$225,000 on a canal to divert water from the Deschutes river to another water shed when

pounded during the non-irrigating season, in its own natural basin where land is very much lower.

"In conclusion we are, therefore, obliged to recommend that the petition for \$2000, or any other amount, to be used in surveying the canal report, be not approved by the Bend Commercial club. On the other hand, we would recommend the appropriawas designed to irrigate 22,500 acres; falls; (b) in a reservoir at Crane tion of state funds as suggested in tion, the Oregon Irrigation Congress Prairie; (c) in a reservoir at Odell the foregoing for continued efforts will open on Wednesday, January 2. have been sold and put under cultiva- Lake; (d) in a reservoir at Big in filling up the leaks in the main

> **TUMALO PUZZLE** TO BE FEATURE

PAY ESPECIAL ATTENTION TO CLARES H. H. De ARMOND.

(From Saturday's Daily.)

That especial attention will be devoted to the Tumalo project problem geologic formation underlying all of at the coming session of the Oregon this country from north of Tumalo Irrigation Congress in Portland in Corvallis. An invitation was extend-Japuary was the statement this morning of H. H. De Armond, member of ficiency of the Tumalo and its tri- written; the Tumalo reservoir had the executive committee of the con- lege, who came before the commitgress, just returned from a trip to tee as the representative of President This would mean enough of experience since, it must be as- Portland, where the program for the Reports will be filed on all the irri-

gation projects in the state, in order Friday with the annual meeting of osition appears to us-to paraphrase that comparisons with next year's re- the State Drainage association. ports, to show progress, may be made,



IN PORTLAND.

lines Program to Cover Four Days-Technical Discussions

PORTLAND, Nov. 23 .- Meeting here for its seventh annual convenat the Imperial hotel. The session

the decision reached by the executive committee of the congress, composed of H. H. De Armond, of Bend; George Russell, of Prineville; Harry Gard, of Madras; Jay H. Upton, of Prineville; Ralph Cowgill, of Medford; J. W. Brewer, of The Dailes, and J. N. B. Gerking of Tumalo, at their meeting here. Joseph T. Hinkle, IRRIGATION CONGRESS WILL president, and Fred N. Wallace, secretary of the congress, met with the comtaittee to aid in mapping out the PROJECT'S PROBLEMS, DE- formal program for the next session

**Program Outlined.** 

All of the four days will be occupled by the congress in running through the formal progress here in Portland, with the exception of Thursday evening, January 3, and the following day, which will be spent at ed by Professor W. L. Powers, head of the irrigation and drainage department of the Oregon Agricultural col-Kerr, requesting that the delegates to the congress be present at a banquet in Corvallis on Thursday evening and meet in joint convention on Lane Sought As Speaker.

other feature will be short talks by out for the convention will eliminate, farmers relating their experiences on as far as possible, all technical disof objecting to any scheme of irri- irrigated lands, and the results at- cussions, and turn the convention over to the practical irrigationists In regard to the Tumalo project, it of the state who are actually workhas been suggested that private par- ing upon the land. An effort will be to build a reservoir somewhere south making the present Tumalo project ties, who are interested in the devel- made, however, to secure Secretary of Bend to impound the waters of the a success if possible. As the matter opment of irrigation projects in the of the Interior Franklin K. Lane, Deschutes river during the non-irri- now stands, enough water is now go- state, may lay a proposal before the Judge Will R. King or some other gating season, and hold them there ing to waste in the Tumalo drainage desert land board in the near future prominent official of the department, for use during the irrigating season, area sufficient to irrigate approxi- under which they would agree to to address the convention in explan-The estimated cost of this project, mately 24,500 acres-see pages 80 take over the work, complete it, mar- ation of the Chamberlain bill now based on costs of 1914, is approxi- and 81 of the co-operative report- ket the lands and reimburse the state pending before congress providing for mately \$340,000,000 including and every effort and means should be for the \$450,000 expended on the the government guaranty of irrigation and drainage district securities The state irrigation securities law, Tumalo reservoir, and it is known the Tumalo project and various other **Business and Professional Cards** "Some success has already been ob- that the reports made by them are Oregon subjects, will have a promthis estimate that on the present cost tained in scaling up the leaks in the now being considered as a prelimi- inent part on the program, while the of labor and material this estimate main Tumalo reservoir, and in our nary to putting the new proposal up theory will undoubtedly be presented that the state and government should unite in an attempt to enact such legislation as will make it easy for soldiers and sailors returning from active service to enter upon and ac-Bend 11 11 quire irrigated farms. After Rabbit Hunt Desert Land Board Men Will Inspect **Deschutes** Project (From Thursday's Daily.) SALEM, Nov. 22 .- (Special + • bullet lodged in the spine and • • to The Bulletin.)-Attorney • + caused total paralysis of the + + General Brown and State En- + . . gineer Lewis in the near future . The two boys had been hunt- + will visit the Suttles Lake Irri- + • ing rabbits on the Sather ranch • • gation project and the Des- + • east of town and were preparing • • chutes project at La Pine. The • + to return home about 4 o'clock. + + first project will be visited to + ◆ Robert, who is 15 years of age, ◆
◆ investigate relative to irriga- ◆ had the gun and was unloading .
tion district bonds and the sec- . • it. His finger caught in the • • ond to see if some means can- • • trigger and the gun went off. • • not be found to solve the prob- • • the charge striking his brother, • • lems which confront the Des- • who was standing near by. The + + chutes project. A controversy + • child was taken to the Bend + • has arisen between J. E. Morson • hospital and left on the evening + + of the project, and A. A. Aya, of + • train for Portland, accompanied • • La Pine, as to abandonment of • by his mother and brother. An + + the East Side, and the two Des- + operation for removal of the + ert Land Board members will + bullet will be performed by . . report on this subject to the . · · Desert Land Board. Grocery.



river to the Tumalo system. It is another drainage area into it. admitted by the engineers who made 25 per cent, making a total of \$425,- ued as fast as practicable until it is take approximately \$220,000.

We do not pretend to pass on This work can be done at comparathese estimates, nor upon the feas- tively small cost, say \$10,000 or so ibility of the project as a whole. All per year, and the sealing of the leaks we can do is to rely on the reports of can be done progressively and the songineers qualified to do so. For this reservoir used as fast and to the expurpose we have referred to the re- tent they are closed up; and the reports made by the co-operating offi- sult will be known consequently ap-

\$175,000,000 for constructing a di- exhausted to conserve that water beversion canal from the Deschutes fore attempting to divert water from made a careful examination of the

would have to be increased at least opinion, this work should be contin- to the board.

000, of which the canal itself would definitely proven whether the whole reservoir can be sealed up or not.

For baby's bath Protects him from chill -keeps him comfy. In-stant heat, Easily caried. Fuel consumed only when heat is needed no waste. No smoke or odor. STANDARD OIL COMPANY (CALIFURNIA) WITH PEARL ΟШ PERFECTION **OIL HEATER** FOR SALE BY F. DEMENT & CO.

BEND HARDWARE CO. SKUSE HARDWARE CO. project. Engineers have recently

Boy Accidently Shot by Brother

(From Monday's Daily.) While removing shells from a . .22 caliibre revolver yesterday • afternoon, Robert Ingemann + · shot his 11 year old brother, · • George, in the right side. The • \* lower limbs.

Dr. K. A. J. McKenzie. Ingemann, a carpenter. **.....** CITY VALUATION IS

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## **Complaint Almost Gone.**

"Foley's Honey and Tar is great," writes L. W. Day, 65 Campbell Ave., E. Detroit, Mich. "It relieves bron-chitis quickly. My complaint has al-most gone and I hope never to have it again." Time and the experience of theorem of the city of Bend for the pres-ent year is indicated in the prefimof thousands have proved that there is no better medicine for coughs, colds or croup. Get the genuine. Sold everywhere.—Adv. Sold everywhere .- Adv.

Highest cash price paid for all is \$797,410 or an increase of \$253,kinds of furs, hides, wool, pelts. 960 over last year's figures which 323c included the utilities. The utilities Briggs' Second Hand Store.

