DUBUIS REPORT IS SUMMARIZED

CONCLUSIONS IN BRIEF ARE GIVEN

Report Now in Governor's Hands for Revision Will Contain Same Facts as Did First One-Certain Photographs Only Are Omitted.

Oregon Irrigation Co. project The Bulletin has been able to see a copy of the Dubuis report on the project, which has recently caused consider-

As engineer-inspector appointed by is \$120,000. the Descri Land Board Mr. Dubuis headgates and flumes. spent the summer of 1914 in making and assumptions of design which insted from the irrigable area constudies as to the physical condition were not fulfilled in construction, are of the canals and laterals of the C. responsible to a large extent for the O. I. Co. project. His report was pre-sented to the Desert Land Board and 12. The proper cost of maintenordered printed in December, but once and operation should be in ex-when, having been printed, it was cass of \$45,000 and should provide a e. T company appeared before the board temporary wooden structures, and objected. The accuracy of the report was not questioned but it was able by tessened seepage losses esti-alleged that there was had feeling mated by the Department of Agriculbehind it, and that its publication ture in Bulletin No. 126, is \$3,000

On the matter being referred to Governor Withycombe he had struck from the report certain allegedly prejudicial photographs and other matter not necessary as a part of the en-gineer's findings. It is understood that the report so changed will be is-sued in the very near future. Mr. Dutiufs, in company with Assistant Secretary McAllister of the Desert port would probably be out this of the transmission losses can be

As the main facts set forth in the report are the same in both the old and the new form and the leading points of the synopsis unchanged a portion of the conclusions are reproduced herewith.

Conclusions in Brief.

1. The total water lost in trans-lasion through the canals from point of diversion at the river to place of use on the farmers' land, including losses in farmers' ditches, tanges from 67 per cent to 75 per cent of the total amount diverted from the river.

The losses in main canals and laterals from river diversion to point of delivery by the company at or within one half mile of the farmers' land, range from 45 to 57 per cent of that diverted. Losses in main canals alone amount to from 25 to 40 per went of the water diverted from the

These heavy former seem to be due to the porous, seamy nature of the lava rock which underlies the greater part of the segregation, to the relatively shallow soil, and to the character of construction of the con-Caves, underground channels, and sink bules have been noted in

more shallow than proper, in order to avoid rock excavation. Where natural depressions were used the water has been allowed to spread over large Since the less of water la to a certain degree directly proportional to the wetted area, some of the excess

wetted area per 24 hours. Where the comy rock is escentiered, however, the lowes will rin up to 2.0 entic feet per 24 hours, and in the case of the North Canal the remarkable figure of 45.0 cube feet per course feet of well-area. county foot of weited area was ob-

It is believed that in cample dug entirely in earth without encounter-ing rock or aravel, the loss will be about 0.6 cubic lost ner square foot of wested area in 24 hours.

Evaporation loss in comparison with scopage and leakage loss is so small as to be negligible.

7. The greatest leases are in the main causts and the places of their occurrence are thus easily accessible. From this and other data at hand it is probable that losses in cause and laterals can be reduced to 46 per cent of the total water diverted from the river without resorting to expensive methods of lining.

8. The duty of water of 1.8 feet per acre in 90 days may be sufficient ofter the project is well settled and all lands are under cultivation, although the settlers have been using more than this amount. (The proper duty for this or any project is not that which gives the greatest crop yield per unit of water used, but must take into consideration the cost of the land and water, value of crops, cost of labor, and other investment costs, and should be that which shows the greatest not profit in money to the farmer. A proper distinction should be made between the "eco-nomic use of water" and the "eco-nomic duty of water," as they are

not evaconymous terms.)
9. The present capacity of the main canals is sufficient to water all the lands sold and natented and list-ed for patent, if losses are not breacht below 40 per cent. 19 The condition of wooden struc-

tures on the project is unsatisfactory. Many cannot be expected to stand five years longer, and some have alrendy passed the stage of economic pactulness. The estimated cost of replacing these wooden structures POLICIES THAT PROTECT.

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POLICIES THAT PROTECT.

13. The value of water made avail- unsafe, per second foot seved. On the basis ing to \$45,500 irrigable seres, the loss to the community represented by the present sucpage loss us against the allowable loss provided for in contract is about \$800,000. Should the losses be reduced to 40 per cent a saving to the community of \$500,-000 would result. The cost of reducing losses even to 39 per cent should be far less than \$300,000

eliminated if proper maistenance be

done as estimated in item 12 above. 15. Seepage losses must be greatly reduced, or the canals must be en-larged if all the lands now under the canal system are to be watered. view of the water supply situation the former expedient is the most advisable and to accomplish this it is recommended that the maintenance and operation department be greatly increased and a systematic effort made to reduce the excess wetted area of canals, to discover and cement leaks in canals, and drops, to work out effective designs of structure and systematically replace the worn-out structures with better ones, to the end that the system be more efficiently operated, that the maintenance and operation costs be decreased, and that there be a positive assurance that there will be an adequacy of canacity to supply all lands now under the canal system.

16, it has been stated in the past that engineers as a rule make an allowance of 20 per cent of the total irrigable lands in a project for lands which will never be irrigated, such as lands taken up by roads, buildings. cont upon even our netnal byestment beds of atreams, high hand, waste but only upon such portions thereoleds of streams, high land, waste lands, rights of way and even towns.

projects in the Northwest including in this way the investment upon tional reputation

in view of recent investigations of the second treatment of the second real per 24 hours. Where the seamy rock is encountered, however, the lowes will run up to 2.0 cycle the feet per 24 hours, and in the considered on this project the seamy rock is encountered, however, the lowes will run up to 2.0 cycle the per 24 hours, and in the considered on this project to be considered on this project to be considered on this project to the feet per 24 hours, and in the

endgates and flumes. areas, stream bed areas and some 11. (assificiency of maintenance rights of way have already been elimsidered under the project.

No practicable rule to make any such allowance in the actual distribution of water has ever been sug-

e. The poor condition of irrigation about to be published, officers of the proper slaking fund to replace the system and uncertainty regarding duty of water render such allowance

d.The following legal question presents itself: Has not the settler the right to demand all the water his contract calls for regardless of the amount of land he has in cultivation? Has any irrigation company the right to sell water rights for, may, 20,000 acres of land and provide water for only 16,000 acres on the theory that 4,000 acres will not be in cultivation?

For sign painting see Edwards .-

BY COMMISSION

(Continued from page 1.)

permitted to collect a revenue there

If Rend does not increase in size this amount of our investment here based upon what revenue it can produce. We are under the regulation of the Public Utilities Commission and placed by us in the live, revenue producing part of our investment without the consent of the commission. It thus appears that, along with the other business interests of the city. we too have gambled heavily on the future in our investment, and only as the community as a whole grows and prospers can we expect to make good.

"It would seem that the order of the Commission should effectively settle the question as to whether competition in public utilities ought to be We are not permitted to charge rates sufficient to pay a return of 8 per places where this rock is exposed.

Attention is called to the fact that toully necessary to supply the needs to the bare been built wider and in the recent reports on irrigation of the community at any given time. Attention is called to the fact that really necessary to supply the needs projects interminated with and ad-incent to this project, so mention is made of any such allowance, although the matter of water supply and irri-sation requirements have been most carefully considered by men of na-investment upon which the public investment upon which the public

"Rates in this instance have been

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at any time in the future, the public ina just cause for complaint either in the matter of rates or service, reof can be had through the same

'In the matter of water rates the ommission found that the schedule as a whole is not unduly high and is not unreasonable but they found that hey did not bear equitably and ratlasses of consumers. For this reason reclassification of the consumers made and the new makes it obligatory to install water meters in many cases of the larger The order also fixes general meter rate for water and gives any consumer the right to demand metered service under certain onditions which are fixed in the or-

The schedule of rates ordered by the commission will be placed in ef-fect as of July 1st without waiting the twenty days granted and custo-marily taken."

CHAUTAUQUA COMING NEXT YEAR

(Continued from page 1.)

and Col. W. H. Miller, also spoke at Colonel Miller Pleases.

Colonel Miller's two lectures from the Chautauqua platform were on on the farms and the evils of the mail L. M. McReyholds, I. M. Mch

themselves into an Indian tribe calling themselves "Modocs." Cecil E. Denman, H. Palmer, A. L. French was elected chief, Bessie French, H. P. Smith, O. C. Cardwell, Smith, medicine woman, Dorothy N. A. Southwick, R. J. Todd, D. D. Gerrish, Harriet Heyburn, Lester Greenwald, F. H. May, E. J. Mer-

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ent-Teacher Association on the results already accomplished here.

The Guarantors.
The following have signed the guaranty for next year's chautauqua: Fred N. Wallace, Tumalo, W. D. Barnes, Tumalo, F. H. Pinkstaff, H. W. Skuse, G. E. Rainey, G. community up-building, keeping boys. Hoover, J. C. Jensen, S. E. Roberts, on the farms and the evils of the mail L. M. McReynolds, T. W. Triplett, J.

arers.

Mrs. S. McIntosh, John Steidl, The
Marian Ballou Fisk with chalk Owl Pharmacy, J. D. Davidson, R. talks and Marietta La Dell with impersonations both pleazed their audiences, while Arthur A. Franzke and Senator Burkett, in more serious discussions of present day problems presented their subjects in a masterly manner. Senator Burkett's lecture McKay, J. N. Hunter, P. O. ally adament of the construction of George and Construction of George a

manner. Senator Burkett's lecture tonight, on Government Ownership of Railroads is looked forward to as one of the big numbers on the program.

The Junior Chautauqua week for the children has been the funior Chautauqua under the supervision of Miss Nelly Van Hook, whose ability and charm have made her a favorite of the children form the first. Miss Van Hook has met the children every morning in the big tent where she has told stories and directed the children formed.

Ciyde M. McKay, J. N. Hunter, F. O.
Minor, Geo. P. Gove, Genevieve Msc.
Laurin, Dell Purker, Mrs. Dencer, H.
J. Overturf, H. A. Miller, O. A. Thorsen, Chas. E. Short, C. S. Hudson, A. M. Pringle, H. C. Ellis, U. C.
Coe. B. Ferrell, H. H. De Armond, Geo. S. Young, D. E. Hunter, C. A.
Paul, R. M. Smith, H. D. Corkett, R.
N. Palmerton, C. L. Mannheimer, B.
Stover, M. E. Coleman, R. W. Sawyer, ability and charm have made her a favorite of the children from the first. Miss Van Hook has met the children every morning in the big tent where she has told stories and directed the children formed.

Yesterday the children formed. directed the children in games.

Yesterday the children formed Caldwell, Fred Huey, C. P. Niswon-

TALK IS QUOTED

(Continued from page 1.)

Tumalo, Mary Benn, Alfalfa, F. L. sire to increase our trade relations.
Shaw, Sisters, Roscoe Howard, Deschutes, Bend: L. C. Furst, F. Ellizek of a direct railroad, they are obchutes. Bland: L. C. Furst, F. El-kins, R. Spencer, J. P. Keyes, Mrs. F. L. Fish, O. C. Henkle, E. M. Thompson, R. H. Loven, E. E. Han-na, H. E. Allen, W. W. Faulkner, H. W. Skyse G. F. Palmer G. F. loyalty, they are making strenuous efforts to get in closer touch with people and markets of their own

> Two railroads are now projected. the Southern Pacific of which there in a gap of only 85 miles, and the Oregon Trunk now completed to Bend with a gap of 110 miles. Our party covered the latter gap by automobile and I find it a section unusually adapted to economical railroad construction. Am informed by citi-

> must be seen to be appreciated and that the views of Crater Lake along are worth many times the expense

the entire trip.
"With the impetus that a through line would give to Klamath county, its possibilities are hard to compre-I believe it is up to us here in Portland to co-operate with these people in every possible way in their efforts to get better transportation facilities and to make them part of Oregon instead of California, which they are at present in all but name and spirit."

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