IBOX 21 TLAIS -

O.R. Holcomb, the state commissioner of arid lands has filed his biennial report with Governor Rogers.

The report estimates that there are about 3,000,000 acres of arid lands in the state and of these at least 1,000,000 acres can be profitably irrigated. Experience has demonstrated that irrigation under the control of the state is most economical and successful to the farmers and that when properly controlled, irrigated from are the mostprofitable as yielding the greatest returns. It is therefore suggested in thereport that the state take control of all irrigation development as done in Wyoming and other estern states to the extent of regulating the use and distribution of streams and bodies of water, keeping in view vested rights and the rights of prior appropriations.

The greatest region in the state in wh ch irrigation is at present carried on is doubtless the Yakima country. I this region irrigation has hitherto been obtained by comparatively cheap and i expensive systems.

The lower levels of land in the section have, however, all been practically covered by irrigation systems, leaving the higher levels yet to irrigate, which must of course be of greater cost per acre.

A system tocover about 215,000 acres of the higher lands of this section was projected by ol. L.S. Howlett in 189596. This sytem provided for a main canal 150 miles in length, taking water from the Natchez river. Under this system were selected 85,566.97 a res of public lands, vacant, and the total estimated cost of the system is \$2,824,000. There were of public, private and railroad lands under this system a total of 285,000 acres of irrigable land, making the cost per acre for irrigating QQ under this system \$9.90

A reconnois ance has also been made during the past three months to develop a water supply of about 10,000 acres of land lying north and

stant Dime-noitemalors

west of North Yakima but asyst no definite plans have been adopted and no section of land made.

A very economical plan to irrigate 8,470 acres land north of the The report estimates that there are about 5,000,000 scres of Columbia river in Douglas county by a gravity canal from Priest rapids ers, co 0,000, I treed to seem to bine etate ent thirty one miles in length, is now about to be accomplished. wonstrough bedeater ylderleng if successful, will be accomplished under the provisions of the act of 1897. The total estimated cost of this system is \$33,200 or \$4.15 per acre. Of this cost the sum of about \$3,000 cash t and ter design of gathleit as elegation, son and ore amount will be necessary to expend for materials, sup lies and engineering and the remining \$30,000 being estimated for labor. If the od se ada averae vaito ine ghino; ni emp se daemoleveb moltagira present plans are successfully consummated the latter would require abod bre enserve to notified with the sevent initialized to incirc ond no cash outlay but be paid for entirely byland reclaimed There is every reason to believe that this system will be completed anoldali orgas and in successful operation within another year.

Another very promising immigration field comprises the land in the vicinity of Pasco. Surveys have beenmade to ascertain the possibility of watering certain of these lands by gravity from nake river, and others by gravity from Yakima river bymeans of crossing the Columbia with submerged pipes...Yakima Herald,

section was projected by "of. I.S. Howlett in 139505. This sytem provided for a main canal 150 miles in length, taking water from the "atones river, timbr this system were selected 55,555.97 a rest of public lands, vacent, and the total estimated cost of the system is \$2,624,000. Frame were of public, private and railroad lands under this system a total of 285,000 seres of irrigable land, sking the cost per acre for irrigating 00 under this system #9.60

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Irrigation:

Irrigation, as applied to the arid lands of Washington, was the subject of a paper prepared by C.R. Smith, engineer in charge of the Yakima Irrigating and Improvement company's works at Kiona and read at the monthly meeting of the Engineers and Architects recently at the society's rooms in the Morthern Pacific headquarters building at Tacoma.

The paper deals with bunch grass plamns or table lands which form the wheat belts known as the big Bend, Palouse and Walla Walla district which Mr. Smith says wave an elevation of 2,000 feet above sea and produce from 30 to 60 bushels of wheat and 75 bishels of oats to the acre and corresponding amounts of flax and barley.

he low lawing sage brush regions contiguous to the streams and which in the state of nature become barren wastes of arid deserts each year during the summer, are treated to great length.

The Columbia and Snake rivers in Eashington, he says, have no alluvial bottom lands such as are found along the Mississi mi, Missouri and other rivers.

These latter, at their junction with the larger streams, have formed little deltas of made lands composed of a light sandy loam, having a disintegrated volvanic ash base, overlying bars of washed gravel. Such bars being sometimes cemented with clay or hard pan. These are the only irrigating tracts along the smaller streams and larger rivers proper, but each of these has its own tributary, valleys and feeders....Of this class of lands With itas county has probably some 400,000 acres, over three fourths of which lie in one body in the valley of the sime name.

Yakima valley has 700,000 acres though at least half of it is yet unavailable being within the boundaries of the Simcoe Indian reservation. Walla Walla county, along the river of thesame name, has 3000 acres that it is necessary to irrigate while along the Snake river in Walla Walla. Columbia. Asotin and Garfield counties there is

an aggregate of about 4000 acres strung out along on det ched bars and plats ranging from 100 to 400 acres each.

There is also a small irrigation district at Columbus in Klickitat county, of say 1000 to 1500 acres. Franklin county, although possessing no land low enough to profitably irrigate from gravity ditches has recently formed, under our new state law known as the Cleman bill, an irrigation district of 19,000 acres, surrounding Pasco and lying between the Columbia and Snake rivers, at their junction which it is proposed to cover with water pumped fromb the Snake river to an elevation of 110 feet. Also, there is along the bank of the Columbia river, between the Snake and the Walla Walla rivers, an additional strip of some 8,000 acres which can readily be redeemed in the same way.

Of the 1,250,000 irrigable acres referred to by Mr. Smith, he says not to exceed 150,000 have been redeemed at present. Probably there is an actual cultivation of not more than 75,000 acres now under waterand susceptible to cultivation. Mr. Smith divides thus:

Kittitas valley, 50,000 acres, with an average elevation of 1500 to 1800 feet above sea level. Products mostly grain, vegetables, and hay and possessing a few fine apple orchards.

Wenatchie valley, 5,00° acres altitude 600 to 80° feet. Products mostly grapes, peaches, corn.

Yakima valley proper together with its various prolongations, the Cowychee, Natcheez, Moxee, etc. 90,000 acres at from 900 to 1200 feet where are raised hops, grapes, neaches, sweet notatoes, Indian corn, broom corn, sorghum, tobacco, all the variousgrains, graeses and vegetables.

Walla Walla valley, 3000 acres with about the same elevation and variety of products as \mathbf{Y}_{akima} .

Anong the Smake river, 1000 acres, altitude 500 feet, devoted to peaches.

The most inviting field for the work for which my office was created I found to be in that part of Yakima county lying bet een the Yakima and Columbia rivers and above the great Sungyside canal.

In June, 1895, was commenced the work of running a line for a canal 150 m les in length and land lying therunder susceptible of irrigation was examined and out of the vacanc even sections there were selected 85,566.97 acres of excellent lands which has been withdrawm from the public domain.

Lying in the to nships containing these sections re other lands selcted by the state for the benefit of the various institutions granted by the enabling act; also the regular school sections.

These lands will ever remain valueless until reclaimed by irrigation and they add an acreage of about 20,000 to the ones given above.

Abundant water for this immense acreage can be had from the Natcheez river reinforced by a series of reservoirs.

The faults in the federal statutes became more and more apparant as one attempt after another failed to secure contracts for construction of irrigation works.

The monetary depression was largely responsible, but not wholly.

By the term of the federal and state laws the land itself may be made

the basis of security for the cost of building canals, reservoirs, flumes etc.

The security was faulty in the matter of obtaining title. After correspond with commissioners in other states where the conditions were identical a combined effort was made and the matter laid before congress.

Washington, Idaho, Montana and Wyoming were before the arid land committee by their commissioners and a modication was secured. A comparison of the former act with the amendment shows the advantage gained in the motte of making the land available as security without waiting for the

building of lateral canals, or the actual reclamation and sale of the lands in detail before patent can issue to the state.

There is a strong sentiment in favor of giving the de ert lands outright to the state in which theh lie and such a measure will be urged upon congress at the coming session.

The cost of selecting the lands withdrawn up to this time is

\$\Phi^7,035\$; value of land is 75 cents per acre, the lowest price at

which it can be sold is \$64,175.23; value of the land with

cost of irrigation added, \$6\$1,752.30 . The expenses of the commission,

to date, are as follows:

Slary of commissioner, \$2,716.53; office rent \$200; clerk hire

\$1,165; salary of engineer, \$717; expenses of United States land office filings \$1,115; expenses of furnishing office, \$117.75; stationery and su plies \$135; traveling expenses #317; total \$7, 035.29.

So far the only the lands most easily and cheaply irrigated have been withdrawn. Yet this acreage will, when watered, support 8,500 families. Surveys, estimates and maps preliminary to a withdrawa, of about 3,000 acres of land on Crab breek have been made and are now pending before the United States general land office.

Other lands in the state may be added to the withdrawls sufficient to bring the total acreage to the possible million conditionally granted, though at a gre ter cost for surveys and reclamation; These are notably lands lying in Franklin and Adams counties in Lincoln and southern D uglas counties and in Okanogan. Possible means of reclaming these lands and rendering them probitably habitable have been considered.

It is the opinion of the commissioner that in the interest of economy it is to the state's interests to first con ract for reclaiming the lands already selected, and steps looking to this and the colonization of these lands have already been taken with reasonable hope for success within the coming year-Herald, Dec. 3, 1896.

.887,89%

el,968,555, or a cost of ,000 wis.l? per sere irrigated. The

Washington, August 13-Chief tatistician I.G. Powes has transmitted to the director of the census a report of irrigation in the state of "ashington for 1902.

VIRCLAMONION 10 LU 10

Irrigation in Washington is fonfined practically to the territory east of the Cascade mountains which ranging nor th and south divide the state into two parts.

eside the ditches actually operated in 1902 there are a numer that of ditches some of them covering extensive areas, which did not of a carry water until 1903.

In 1899 the number of irrigators in Washington was 3,513; and the number of acres irrigated 135,470. The figures for 1902 are respectively 4,585 and 154,962. The cost of irrigation exp systems in operation was in 1898 \$1,679,319 and in 1902 \$2,330,758. The total length of the main ditches in 1902 was 1,095 miles-The Yakima Herald, August 19, 1903.

... Nearly four-fifths of the irrigated acreage of "ashington and nearly one half of the irrigated farms are found in the Yakima valley. The Yakima river has its source in Keechelus lake on the eastern slope of the Cascade mountains in "ittitas county. and flows through Kittitas and Yakima counties joining the columbia near Kiona.

There has been since 1899 important development in irrigation systems in the Yakima walley.

Two la ge canals have been constructed and the older systems along have been extended.

The total number of farms irrigated in 1902 from the

Yakima river and its tributaries and from springs and wells in

the Yakima valley was 2,505 and the area irrigaged 121,705

acres. There were operated 255 irrigation systems which cost

syst ms, cost of 11,245, average of 910.67 per sere, 17 miles ditense

total length of main ditches was 618 miles. More than half of the irrigated area in the valley is water from the Yakima river direct. The principal tributary of the Yakima river is the Natches river which in 1902 supplied water to 575 farms having an irrigated area of 20,232 acres. Irrigation between the mouth of the Okanogan river and the mouth of the Yakima river is practiced charly for fruit growing.

While the p centage of incress of irrigation from the Okanogan river and tributaries since 1902 has been small. There were in 1902 62 irrigated farms and a watered area of 2,237 acres. The 45 irrigation systems in operation cost #12,374 or an average first cost of #5.48 per acre. Total length of main ditches was 34 miles

Most of the land is watered from the Similkameen river and Conconnully creek and their tributaries.

There is very little irrigation in "ashington from the Columbia river and its gributaries above the mouth of the Okano an . In 1902 there were 126 ir igated farms with an average area of 18.9 acres and 78 irrigation systems representing a con ruction cost of \$\psi 14,369\$ or an average of \$\psi 6.05\$ an acre. In 1902 there were irrigated farms in Western "ashington with acrea of 1,025, 16 systems, cost of \$\psi 11,245\$, average of \$\psi 10.97\$ per acre, 17 miles ditches 1903.

Washington, March 2-A conclusion that the proposed Columbia basin project in Washington and Oregon physically is feasible and that attention should be focused upon the factors which will determine the financial feasibility was contained in a report of the special board of engineers made public by the interior department yesterday.

The total coast of the favored plan is estimated at \$193,359,595 or \$158 per acre and the initial expenditure to irrigate the first lands at \$2 \$54,000,000.

Listing five basic irrigation schemes under consideration the engineers declared the most desirable and involved 1,224,000 acres, 80 per cent of which is lass A land and utilized both the Spokane river and the Pend O'Reille (copy) river for the water supply.

The engingers' findings are being studied by the Columbia

Basin project commission composed of "lwood Mead and Francis M.

Goodwin. The latter's final report will be submitted to Secretary

Work who will for ard it to congress if he meets with his approval

settlement: the possibility of growing diversified crops; climate, transportation to eastern and foreign markets; farm credits and the elimination of land speculation are discuss d in the report of the examining board consisting of Louis C. Hill, Joseph Jacobs, Charles H. Locher, Richard R. Lyman, Arthur J. Turner and C.L. Walker.

A summary of the board's conclusions follows:

That the e is included in the maximum project which can be served from the Spokane and Pend O'Reille rivers or from Pend O Reille alone 1,650,000 acres of gravity and 233,000 acres within a 100-foot pumping life making a total reclamation area available of 1,883,000 acres.

"That the high cost per acre of the Columbia river pumping projects, the fact that they involve a permanent loss to agriculture of about 350,000 acres of the best lands and the greater initial expenditure required makes them less attractive than the gravity projects.

"That the state should assume its proper share of the responsibility for collecting payments from the settlers and also should bear its proper share of losses, if any, incident to the development of the project.

"The 1,224,000 acre project, 80 per cent is classed A land and utilizing both the Spokane and the Pen o'Reille river as its water supply source, is the most desirable of the projects."

It was estimated by the good engineers that the net capital required of a settler on the proposed project will range from \$2,500 to \$4,500 to commence operations. A study of various factors connected with the settlement led the board to fix five years as the maximum time in which the entire irrigable area would be settled by farmers and the land under cultivation.

"A carefully worked out schedule of farm operations" the board states," indicates that an 80acre farm in the more favorably situated lands of the project will at the end of the fi th year return a gross annual revenue of \$4,100 of which \$1,000 would be available for debt reduction."

The board pointed out that the price per acre cost of the pumping plants which provide for pumping water directly out of the Columbia river in addition to the fact that 350,000 acres of the best land cannot be reached by canals, makes them less attractive than gravity the gravity plan.

TICO Tama at all

F.T. Crowe, who has been engineer in charge of construction of the great earth-fill dam at Rimrock will on July 1 move to Denver and become general superin endent of construction for the reclamation service. Mr. Cowe is receiving a substantial promotion in reconiting of his successful construction work for the service with which he has been connected since April, 190600 1904. During this time he has been engineer in charge of the construction of six dams and has been connected in a supervisory capacity with the work on two others.

Mr. Crowe succeeds to the position now held by James Murn who has resigned to become connected with A.P. Davis, former chief of the reclamation service at Oakland, it is understood. Mr. Davis has been engaged in engineering work at the California city since he left the service and recently asked Mr. Munn to b come associated with him.

When F.E. Weymouth, chief engineer of the service asked Mr. Crowe to become general superintendent of construction which is considered next to the highest engineering position in the reclamation service the Yakima man wanted permi sion to finish the dirt work at Rimrock first. That will be done in June according to the schedule worked out.

When R.K. Tiffany and Guy Finley and the rest of the reclamation engineers bragged about Yakima I used to laugh at them, Crowe confesses. I told them they were foolish to get so anchored to a place. Now I feel just as they do. I tell you after h ving lived in construction camps and little towns for some years, Yakima certainly does look mightly good and I would like to make my home here.

In his new position Crowe will spend about half of his time at the Denver headuuarters and for the rest will be on the road examining the various construction jobs being done for Uncle Same

Among the important dams with which he has been connected at the Arrowrock and Jackson Lake dams--The Yakima Daily Republic,
May 10, 1924.

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IBX41 Yakim Dukon - Reservat.]

Irrigation

Indians

Agent Jay Lynch was over from the Yakima Reservatin Monday and when approached by a Herald representative regarding the attitude in the controversy between Indians and the N.P. Yakima and K. Irrigation Co. as to the taking of water from the Yakima river for irrigation purposes said in effect that he had simply stated the facts to the department at the request of the Commissioner of Indian affairs, and had made no recommendation except in one particular.

He thought that the matter of appropriation of water from streams that bounded the reservation would become a serious question in time and one which would effect this entire country.

of the same.

According to the treaty of 1855 the Indianswere ceded the exclusive right to the fishing in the reservation boundary streams which included the Ahtanum and the Yakiama, but nothing was said about irrigation nor was the subject of irrigation considered at that time. Since then it has grown to be of vital importance and the water has come to be considered the life of the country.

In the opinion of Mr. Lynch the settlers along the Ahtanum have no rights to the waters of that stream and he says he has instructions to prosecute all who violate the treaty obligations; but while the appropriation of the water for irrigation purposes have pr ctically left the main stream of the Ahtanum dry during the irrigation season, Mr. Lynch recognizes that to enforce the strict letter of the treaty in this respect would practically ruint the farmers along the creek, and he has mn consequence taken no action.

In his opinion the proper solution of the question would be the making of another treaty and the purchase by the government of the water franchise from the Indians.

Indians

On Friday afternoon of last week in response to the request of Paul Schulze, ameeting of citizens was called in the rooms of the Yakima club for the purpose of taking some action regarding the objections which had arisen in the Indian department in respect to the dam which the N.P.Y. and K Irrigation Co; has constructed across the Yakima fiver.

guaranteed by treaty of 1855 in regard to fishing.

coots to'l

Fred R. Reed occupied the chair.

Mr. Schulze outlind plans of the company he represents. The stated that many difficulties had been encountered and obstacles placed in their way, one of which was the attitude of Indian Agent Lynch regarding the company's dam and the appropriation of water from Yakima river. He said he had copies of the agent's letter in which the of icial had taken a position against their projects and endeavored to cause them trouble at Washington.

Speeches were also made by A.N. Fitch of Tacoma and R.K.

Nichols of this city. Following is a copy of Agent Lynch's

letter which Schulze referred to:

Yakima agency, Fort Simcoe, Wash, Oct. 31, 1891:

Hon Commissioner of Indian affairs.

Sir: IN reply to yours land 37084 1891 36566,

I mail you in separate package a plan of the dam now in the course of construction across the Yakima river which was made at my request by the engineer in charge of the work; also this letter in regard to the matter. After examination perhaps it would be well to return the same or a copy, to this office.

I have examined the work being done and proposed. I don't think the dam, if built on the plan submitted and described in letter of chief enginer, will seriously in erfer with the rights of the Indians

one of the articles of agreement, purchasing the Wenatchee fishery provides that the Indians shall decide in council how the money shall be expended.

When the sale had been ratified by congress I was instructed by the commissioner to call the Indians together in council to decide how the money should be expended. This I did and it brought forth one of the largest councils I ever saw; so many were present they could not be accommedated in the council chamber and it was necessary to use the school building.

In the presence of Inspector McCorm ck wo was here at the time the Indians decided after mature deliberation that the money should be expended in irrigation. This decision was reached and reported to Washington more than 14 months ago and not a word of dissatisfation was heard so far as I know for 13 months fter and not until the matter had passed both the I dian and inderior departments and I was instructed to proceed with the work.

opposite or near Toppen sh. This is untrue. I propose to take the water out 1 2 or 13 miles above Toppenish in township 28 above the dam of the Sunnyside Ditch c mpany and only two miles from the gap. It is also claimed that dissatisfaction exists because I did not propose bringing the water out at the gap. This is impossible for congress has passed a bill granting the Columbia irrigating company the tight to build an irrigating canal a half mile below the gap. They have filed their map of definite location and it has been approved by the interior department, therefore it was impossible for me to conform to the wishes in locating at this partic lar point. I did the next within best thing I could. I went 1 1-2 miles of this location, just as near as I dared to go.

at so much per acre which if accepted would have amounted to bout \$35,000. On Dec. 23, 1893 the onorable commission wired:

"Impress upon the Indians that conggess will pay no unreasonable sum for the extinguishment of their title to lands in question.

Make the best terms you can in reason and justice to the Indians and the government and agree upon a lump sum instead of a certain price per acre. If agreement is not satisfactory, of course congress will not ratify same. The price the Indians name is out of the question and would ot be recommended by this office."

the amount suggested by the honorable commissioner.

Any fair minded man can see that instead of swindling the Indians I was endeavoring to make the very best trade I could for them.

In discussing the injustice of not paying this money to the Indians in cash, it should be remembered that double this amount is expended upon the reservation every y ar. It costs the gove nment more than \$99,\$3,000 a month to run this reservation and to pay the 42 white and Indian employer. It must also be remembered that this is gratutious on the part of the government for they have fulfilled their treaty obligations with those Indians 15 years ago.

The treaty pr vided that schools, shops and certain annuities would be allowed for a period of twenty years. This twenty years expired long ago. but through the recommendatio of agents the year expired long government has continued to maintain the schools and help these I dians in many ways. Their children from the ages of 6 to 13 are clothed and fed and eduxated free of charge. Their horses ar shod, their wagons, plows and harness repaired by the blacksm th, carpenter and harness maker free of charge, their grain is ground, lumber sawed and dozens of articles too numerous to mention are given them free of charge.

Yahma Reservation--Irrigation

Work is progressing rapidly on the reservation ditch. There are now about thirty teams and seventh men employed and there have bee many more applications for employment both by Indians and whites.

Among the former are several who were at first opposed to construction of the ditch under the incitement of the attorneys inter sted but who now realize that Agent Erwin while acting under the instructions of the department was also looking to their future welfare.

Business men and citizens now recognize that the recent attacks on the agent were utterly without foundation and uncalled for. The attorneys who have been working on the contest applied last week to Judge Hanford an an injunction but evidently failed as no such order has been made by the federal court—Yakima Herald, June 2, 1896.

Judge Hanford has issued an order temporarily restraining Agent Irwin from building the reservation ditch. The order was a surprise to Mr. Irwin and to total attorneys who believe it was secured through misrepresentation and misapprehension on the part of Judge Hanford. The hearing whas been set for June 15 qt Seattle where Agent Irwin has gone with the necessary documents showing his authority for the work from the Indian department—Yakima Herald, June 6, 1896.

Judge Erwin returned on Wednesday from Seattle where he was called so make answe in the injunction case to restrain him from continuing the work of constructing the reservation irrigation di ch. The commissioner of the general land office and the secretary of the interior had previously decided in his favor and now the federal court has told the obstructionists that they have no standing. This.c Yakime Herald, June 18, 1896.

Five dissatisfied Indians yesterday figured in the United States court as applicants for an injunction to prevent the Indian agent of the Yakima reservation from expending \$20,000 for the construction of an irrigation canal, but Judge Hanford denied the applications.

Several years ago the gove nment purchased a fishery from the tribes comprising the Yakima nation, paying therefor \$20,000. The terms of the purchase were such that the money was to be expended in such manner as the general council of the nation should deem best.

A general council was held in March, 1895, and it was there determined that the money be expended in cutting an irrigation canal some 25 miles long. The various tribes were well represented in the council and it was generally considered that a wise considered that a wise considered had been reached, inasmuch as the $I_n^{\rm dian}$ holdings would be much enhanged in value by the construction of such a canal while at the same time the terms of the work were such that every cent of the money was to be paid to the $I_n^{\rm dian}$ themselves forwork and the entire amount would thus ultimately find its way back into their hands. Itwas estimated that the canal would render cultivable between 20,000 and 30,000 acres of land.

The petioners however ,urged on it would seem by their attorneys, determined for some reason to pppose the canal.

Reservation-Canal

The act passed by the house of representatives and amended by the senate authorizes the prewident to appoint a commission of three, not more than two of whom shall be of the same political party and not more than one of whom shall be a resident of any one state, to negotiate with the Yakima Indians for a surrender of a portion of their reservation lands, and for such mofidication of existing treaties as may be deemed desirable, such agreement being subject to subsequent ratification by congress. For this purpose \$6,000 is appropriated.

The act also provides for an extension of two years from July 24th, 1896 for the completion of the irrigation canal authorized under the act granting to the Columbia Irrigation company a righ of way through the Yakima Indian reservation—Yakima Herald, June 25, 1896.

Three miles of the reservation ditch have been completed and this week the main camp will be moved to a point five miles beyond the present camp.

A well-boring machine has been taken there to sink for water-Yakima Herald , August 6, 1896.

Agent Erwin, Clerk Banks and Engineer Kingsbury were in Sunday from the rese vation ditch where the payment of \$2,800 on the July roll had just been made.

The main ditch is now completed for a distance of eight miles and lumber is on the ground for the building of the headgates, when water will be turned in.

Another ditch, the intake of which is a few miles west of Toppenish, has also been started. This was decided upon in lieu of one of the main laterals. It will be four miles long and will water 4,000 acres of choice land--Yakima Herald, September 10, 1896.