THE MORNING OREGONIAN, MONDAY, APRIL 9, 1906. PHASES OF INDUSTRIAL GROWTH IN THE STATE OF OREGON <text><text><text><text><text><text> partment. The estimate showed that the district contains about 70.000,000,000 feet of merchantable timber. Of this, there are only 14.000,000,000 feet on the Washington side while some 56.000,000,000 feet are on the Oregon side of the Columbia. ACTIVITY IN PLACER MINES whreby the United States is to acquire control of the Moore Brothers' canal on the west side of Link River. This canal has been used by the Moore Brothers for diverting water for irrigation and power purposes for the past 25 years. By the terms of this agreement they are to sur-render their canal right of way and all riparian and other vested rights to the waters of Link River, and are to receive therefore water for power purposes to the amount of 26 second-feet when act-ually negative. ASTORIA AS A **I IIMBER CENTER Reclamation Service Reports** Abundant Water Brings Prosperity HARNEY'S PROSPECTS FINE on Irrigation Projects. to Baker District. Clear Lake Reservoir Site. An agreement for the purchase of the lands for the Clear Lake reservoir site has been approved by the Secretary of the Interior. This purchase includes all the lands bordering on the lake which are below the upper contour of the reser-voir, and carries with it a quitclaim of all rights to the bed of said lake and a waive of all riparian and other rights connected therewith. The contract also contains a waiver of all claims to riparian right to Tule Lake. The necessary ab-stract and deed of conveyance for the transfer of the property are now being prepared. RAKER CITY, Or., April &-The place One of Largest Timber Belts BAKER CITY, Or., April 8.—The placer mining senson is now in full blast, and hundreds of claims are being worked in the Baker district. Some claims which have been lying idle for years are being operated at a profit this year on account of the unusual abundance of water, and the output promises to add materially to the total gold yield of this district. In the Graulic district miners are oner. on the Coast Tributary NEW BOARD OF TRADE DOING KLAMATH AND UMATILLA to the City. GOOD WORK FOR COMMUNITY. Efforts Principally Directed Toward In the Granite district miners are oper-ating this year with two mammoth Cal-fornia dredges. From the experiments conducted late last Fall it is believed Valuable Data Concerning Work is on Heron street, the main business thoroughfare, property on which is higher by 50 per cent than a year ago. Offers Birnet in the property are now being property and the property are now being property. At horough examination of the soil and material supply of the project has been had is in nearly all places of such character as to insure satisfactory results be brought under cultivation, and it is planted to make further investigations of the project are reported to be quite free from atkall. The water conditions of the project are reported to be quite free from atkall. The water conditions of the project are reported to be quite free from atkall. The water conditions of the project are reported to be quite free from atkall. The water conditions of the project are reported to be quite free from atkall. The water conditions of the project are reported to be quite free from atkall. The water conditions of the project are reported to be quite free of the project are reported to be quite free from atkall. The water conditions of the project are reported to be quite free of the sate and cultivated. Such a such are the water conditions of the project are reported favorable. The receive of about 50 inches. An other shows the free date of the lake indicate a loss from its surface of the lake indicate a loss form its free mater of the best indicate a the such and the recks exposed show great fisting the prokent favorable. The formation of the supplied with springs, a fact which also the indicate may exist. Securing Railroad Facilities. SEVEN MILLS NOW RUNNING East Umatilla Project. to Be Done in Oregon Is Owing to the great length of feed canal necessary for supplying the Carty reser-voir from Unatilla Rivers under the Umatilla project, and also because of the desirability of maintaining the lands west of Umatilla River free from any construc-tion which would increase the acre cost of a future project from John Day River, investigations were made early in the present season for a possible small proj-et for the lands on the east side of Uma-tilla River and bordering on the Colum-bia. To Publish Pamphlet. Contained in the were made the past week for corners at these dredges are going to prove profit-shie and will revolutionize mining in that treble their market price two years ago, and some of them refused. An option was secured at \$500 on a far-out lot that Document. section. They are operated at a small cost and handle a large amount of gravel, which, sithough running very low, yields HARNEY, Or., April & -- (Special.)-All Plants in Operation Night and Since its organization, four months ago, the Harney Board of Trade, has fully proved its worth to this commuthe owner offered time and time again a Day, but Unable to Fill Outyear ago for \$3000. Residence property is also in demand, and with more new mills and a larger force of workingmen, there is a demand ndsome profits on account of the im ches quantity handled. OREGONIAN NEWS BUREAU, Washstanding Orders-Two New nîty. in the matter of laying before The quartz mines are getting ready for the Spring run. Many of them have been idle during the Winter and some for sev-eral years. The Queen of the West in the various railroad companies, which are popularly supposed to be heading in this direction, the board has done a ington, April & .- The fourth annual re-port of the Reclamation Service, just issued, contains an elaborate resume ett for the lands on the cast side of Ums-tilla River and bordering on the Colum-bla. A small reservoir site, lying principally in the northeast corner of T. 4 N. R. 2 E. was investigated. This would have 6000 to 2000 acre-feet capacity by the construction of an embankment 70 to 30 feet high. Lying below are some 20,000 acres of irrigable land, at an elevation of from 300 to 500 feet above see level, which can be supplied from this reservoir. Records of stream measurement on Umatilla River at Gibbon since 1896 and at additional stations on the river since 180 show that an ample supply of water is available, with a comparatively small feed canal. During the past season a general topo-graphic map on a scale of 11-3 miles to one inch has been made of the entire irrigable area, both of the larger Uma-tilla Topographic surveys have been made of the reservoir site on a scale of 1900 feet to one inch, and the detail to-paraphy developed of the dam site and feed-canal lines on a scale of 19-3 made and feed-canal lines on a scale of 900 feet to one inch. The pits have been made of the reservoir site on a scale of 1900 feet to one inch, and the detail to-paraphy developed of the dam site and feed-canal lines on a scale of 900 mar 90 feet to the finch. Test pits have been put down over the larger part of the embank-ment line and at the proposed spillway site. Ederock is encountered at the dam site at a depth of 21 to 25 feet below the surface. From these surveys entimates of quantifies and cost are being prepared for the consideration of a board of con-sulting engineers. Ones to Be Installed. for houses that cannot be supplied. The activity is general, and not confined to any particular part of the city. of the Klamath irrigation project in Southern Oregon and Northern Califor-nis, as well as some important facts bearing on the Umatilla project in work which would have been impossi-Cornucopia district is to have a new ten-stamp mill and an electric power plant of its own. There is considerable activity ble of accomplishment without such an organization and has justified the wis-The launching of the steam schoener Quinault at the Lindstrom yards Saturday was the fifth of its kind here in the past eight months. Following up the building ASTORIA Or, April 5.-(Special i-Never before in the history of Astoria and Classop County has the lamber indu-try been so solite or the demand for the null products so great as at present. There are now in Astoria and outlying districts reven hig mills and day, yet are unable to fill all orders received. During the past free months several hig Eastern com-paries have acquired large tracts of tim-ber in this vicinity. One of them has al-feredy purchased a site for a mill, and before the coming Summer has passed work will have been commenced on the construction of at least one if not two sumill plants that will exceed in capac-ity any of the local ones now in opera-tion. organization and the justified the wis-dom of its charter members. The board was organized, with Jas-per Davis as president: Theodore Cole-man, as secretary; Mrs. S. E. Drink-water, as treasurer; C. W. Loggan, as vice-president and K. A. K. Richardin that district this Spring, as the promo-Eastern Oregon. The Malheur project is also discussed, but the facts are of little importance inasmuch as it has ers believe that the Eagle Valley Rati-road will certainly be built, and if it is all those mines out there will be worth of these schooners contracts have been signed for four others, which will be in frame in a short time and rendy for sea about midsummer. These steam schoon-ers cost from \$55,000 to \$90,000 each, and been virtually agreed to turn this over big money. to private enterprise. Describing the Klamath project, the The Cornucopia mines are more m. J. C. Buckland and Mr. Dalton, an able than those of the Sumpter district for the reason that they concentrate much more cheaply. Even 6 miles from directors. Immediately after assuming their duties the officers set to work to the Gray's Harbor yards are turning out more of them than probably any other on the Coast. The marine railway, finished report says: report says: The project derives its water supply from two distant sources, and for this reason is naturally divided into two dis-tinct units, which for convenience have been called the "upper" and "lower" proj-ect. The net area of irrigable lands in-cluded in the upper project, according to preliminary surveys, is 68.366 acres. These and Upper Klamath Valleys. lay before the various railroad com railroad they can ship their concentrate panies the various natural advantages of Harney County and to offer assistat a profit. The Cornucopia Mines Company, which is owned by the Searies estate, of New York, is again out of debt, having paid last year, is also bringing a good deal of epair business here. The sale of scats for the opening of the repair ance in the matter of finding passes for such roads as might desire to cross the mountains coming into or going out new Aberdeen theater indicates that it the mountains coming into of going out of the Harney Valley. will be a "standing room only" night, which is a pleasing sign for managers. Every seat will be disposed of long before the opening date, April 19, and the occaoff all labor liens which were filed during <text><text><text><text><text> the Winter. Pierre Humbert came up from California and following him came a check for \$5000 from New York. The Outlook for Water Suply. Letters were written to half a dozen companies stating the need of the Harney country for railroad facilities and the desire of the board to assist in securing them. With these letters Water Supply in Oregon. The source of water supply for the us-per project is Clear Lake reservoir, on Lost River. In California, which it is planned to supplement by the Horse Fly reservoir, on Miller Creek in Oregons All lands in the upper project to be irrigated are situated in the State of Oregon. The net irrigable area of the lower project, as determined from preliminary surveys, is 18,065 acres, situated in kiamath and Lower Pro-Valleys. It is proposed to include in the lower project and lands in Pre-Valley which can be made irributary to the water supply of that project and to irrigate about 15,000 acres of additional land by pumping. The irrigable lands in Klamath Valley extend from the upper end of the valley, at Klamath Falls, to Kena, Or., and in-clude irrigable areas on either side of the type, portions of the beds of which it is valley, and extend into the State of this valley. The water supply for the lower project is there Klamath Lower the lower project and the supper cleans are included with-in this valley. The prejections of the beds of which it is proposed to reclaim, are included with-in this valley. The preject hand extend into the State of the project has the lower project of the project has the projec Water Supply in Oregon. been in demand from points nearly as far away as Olympia, and Governor Mead has been invited to be present. The in-stallation of furniture has been going on all week, and it is expected that every-thing will be commisted by the opening of a concrete for Company has been operat-ing on the vein uncovered in the Red Jacket and has been taking 2000 a day from the pans. The mine is now on its feet again and promises a profitable run Astoria is admirably located to become one of the heading lumber centers of the Pacific Coast. Not only is it situated on the shores of Oregon's mighty waterway, with direct rail connection to all parts of the country, but there is more standing imber directly tributary to it than to any oher city in the world. There are six big and distinct timber districts, the logs from which must of necessity ind their way to the market via Astoria and the Lower Columbia River. Astoria is admirably located to bee printed matter descriptive of the coun-try was inclosed. From all the companies address other mines in the Cornucopia district are taking on new life. The Banger will be run by an immense power plant which is to be installed at once by the replies have been received thanking the board for its courtesy and promising to give careful consideration to the claims of the Harney district. Especialfor the consideration of a board of con-sulting engineers. Studies are also being made of the use of water through the existing ditches take ing water from Umatilla River, in order to determine the rights of the Govern-ment to use the water under the project and also for use in any adjudication of water rights which may be required. A hydrographic map on a scale of 1000 feet to one inch is being made of the lands and irrigation system below the proposed diversion. The measurement of ditches and collection of other data re-lating to use of water from Umatilla River above this point is being done by the State Engineer at the expense of the state. thing will be complete by the opening night Great interest is now centered in the which is to be initiality at once by the new company which has been formed to take charge of the property. The Indiana copper mine is going to start up about April 15. It has 200,000 tons of ore on the dump, which will be ly encouraging letters were written the board by the Corvallis & Eastern and the O. R. & N. Co. In addition to working to secure allotment of the tidelands, title to which the market via Another Columbia River. The first and most convenient of these is the one which has an outlet in Young's Bay, down the Lewis and Clark, Young's Kiatskanine and Walluski Rivers, all of Kiatskanine in the southeset of Astoria, has been brought to a successful settlement. The millowners have been worry-ing over the proposition for many years, and the recent survey by the Government. In addition to working to secure railroads the board is doing much for the Harney Valley in the matter of se-curing data concerning agricultural and grazing iands and irrigation possimade into copper matte at once. Devel opment work will be continued, and un less the railroad project falls through the Indiana will join with other company Kiatskanine and Walluski Rivers, all of which rise to the southeast of Astoria, some 30 or 40 miles distant, in the Ne-halem or Crescont Range of mountains. For many years the local mills drew their supplies chiefly from these forests. The result is that much of the good tim-ber has been logged, and it is necessary to go far up the rivers and back into the was looked upon as the beginning of a much-hoped-for settlement, which is soon now to be made by the state. All mill-owners have been interested in the quesbilities. W. E. Burk, of Portland, has given ies in creeting a smelter at Baker City. E. H. Behr, of Omaha, representing Eastern capital, is here looking over the tion, and will act quickly when it con W. E. BUTK, of Portland, mas given the board assurance of the carly suc-cess of his plan to irrigate a large section with artesian water, and Wil-liam Hanley, president of the William Hanley Company, which is interested time to purchase the lands from the state. Most of the tideland frontage is on the Chebalis River, which flows into Gray's of California. The water supply for the lower project is Upper Klamath Lake: the point of di-version will be made at the head of Link River, shout 15 miles above the town of Klamath Falls. The work of making final locations of canal lines and the preparation of final plans for construction work has up to the present time been confined to the lower project. Unpatented and Excess Holdings. field with a view to erecting the smeller Unpatented and Excess Holdings. Of the total area of irrigable lands un-der the project less than 1000 acres remain unpatented or not entered. Each old sec-tion of land is either patented to or claimed by the Northern Pacific Raffway Company under rallroad grant. Other lands have been entered in a few cases by homestead entries, but generally by desert-land entries, but generally by desert-land entries, planning to reclaim the lands by water from one of several ditches either proposed or partly con-structed. Of these latter the Maxwell Land & Irrigation Company owns the most extensive, and with other rights has acquired by purchase the title to be-tween 600 and 600 acres of land which would come under the proposed Govern-ment polect. Negotiations are being car-ers looking toward the acquirement of their rights, and an agreement on their part to subscribe their excess holdings. Withdrawals from all entry have been made for lands covering the reservoir site and trigable lands. ber has been logged, and it is necessar, to go far up the rivers and back into the summits of the divides between them is order to find ample timber. Still, there is yet a vast quantity of Ore-con pine and much spruce to be found in hose great forests, to say nothing of the burdles, which is very abundant, com-Harbor proper Aberdeen is becoming the center of such organizations as the Salvation Army and the Volunteers of America and Rescue Mission workers. The local branches of SUCCESS WITH WALNUTS another large irrigation project, has mitributed much valuable information meeting the reclamation of the dry these organizations are all prosperous, having good halls and pleasant quarters. Mrs. Spohn-Wood, who came here, from Tacoma and established the gampel mis-ston, will go to Portland this week and begin similar work there with her hus-Innots of this district. This information, together with data secured from farmers and stock-raisers, is to be embodied in a pam-philet soon to be published by the board bemlock, which is very abundant, esse-inly along the Lewis and Clark River, Location of Main Canal, PIONEER OF THE INDUSTRY nd cedar, which is well scattered Final location of the main canal from se head of Link River to near Olene, a istance of about ten miles, has been Forests Above Tongue Point. TELLS OF HIS METHODS. or free distribution among prospec The public schools, which are prospering The next accessible body of timber This main canal is designed to carry This main canal is designed to carry 1560 second-feet of water, having a max-imum velocity of 2.51 feet per second, and will supply that portion of the Klamath Valey east of the Klamath River. The design of the headgates for this main canal is of concrete, fitted with steel gates. The gates, six in number, are facth is by 11 feet, and are designed to carry a maximum head of 19 feet. Hand power will be used for operating the gates. tive settlers. The phane schools, which are prospering under new teachers and a new superin-tendent, have a larger attendance than at any time in their history. On Friday night the first of a series of dechanatory contests was held to select a speaker for a county contest to be held in Hequian next work. Miss Schneider was awarded The next accessible body of timber is that found on the Gregon shores of the Columbia above Tongue Polnt, and which funds, or can find, ontlet down Mary's Greek. Bear Creek, Gnat Creek, Blind Slough. Plympton Creek and Westport Slough. Much of this, lying within a few miles of the Columbia, has also been logged, chiefly for the Portland market. Bit on the higher slopes, for 15 miles back to the Summit of the Nebalem Divide, crowning the northern extremity of the Coast Range, the Oregon pine or fir is miles east of Tongue Point. In fact, this Last year an effort was made to se cure the erection of a grist mill to meet the growing needs of the valley in the matter of grinding the wheat and other grains now produced in this wheat and other grains now produced in this Failures of Early Settlers Due to Waterusers' Association. The Klamath Water Users' Association was organized March 4, 1966, and is regu-arly incorporated under the laws of the state of Oregon, with a capital stock of Planting of Unsuitable Varietics-Profits in Nutgrowing. ity and subscriptions to the at of \$5000 were secured to the where the e decision for her rendition of a select in from the "Merchant of Venice."

PORTLAND, April 5.--(To the Editor, --Your editorial headed "Nutgrowing," in last Sunday's Oregonian, has evidently has summary s Oregonian, are synthing been read by a good many people, for 1 had a number of telephone calls, as well as numerous visits at my office, rein-forced by a great many letters, all area-ing information on this important subof Tongue Point. In fact, this ous forest extends to the South

Though I have not written or said any-Though I have not written or said any-thing on this subject for some time, these requests come to mr, possibly, because I was the first one to experiment along those lines with various varieties to as-contain which were last adducted for our contain which were last adducted for our

enterprise, but the lateness of the sen-son prevented the consummation of the scheme. The officers of the Board of Trade have this Winter taken up the matter and the outlook for the carry-ing out of the scheme is very bright and it will be rapidly developed as some as the opening of Spring Justifles doing so

oon as the opening of Spring justi-Several parties who expressed n the Eastern States have gotiations looking to taking an interest and investing in the capital

for Klamath Project.

In the location of the main cara-ful consideration was given to the ad-visability of carrying the canal around the hill on the line of the Ankeny canal or through the hills by a tunnel. The first route would involve the construction of a portion of the canal through the town of Klamath Falls. It was believed by the board of engineers that the con-struction of an open channel carrying a swift current of water through the set-tled portions of the town should be avoid-ed, and that the tunnel line possessed other advantages in economy of mainte-nance.

continuous forest extends to the points. Scappone a distance of nearly 80 miles. The third body of limber is that on the merith or Washington slope of the Colum-hia Valley. These slopes are from three to ten miles long up to the highest sum-inits and plateaus of that rugged region and extend from a point near Fort Carby, is Valley, to ten miles long up 10 miles and plateaus of that ranged and inits and plateaus of that ranged and inits and plateaus of that ranged and init stand plateaus of that ranged and only and extend from a point near Fort Canby, certain which were conditions. Large walnut trees were growing in different parts of our state, some of which were over 40 years old and never bad borne any nuts which. I discovered were the "Los Angeles," a very tende variety of soft-shell wainuts, which bear only in a few counties of Southern Ca They include the Wallacut and the Chi-nook, flowing into Baker's Bay; Deep Riv-er and Gray's River, flowing into Gray's Bay; several creeks running into "Elilott's Bay, and the Skannokawa, the Elokomin and other streams farther up the Colum-

e fourth great accessible body of tim-The fourth great accessible body of this-hor is what is known as the Necanicum spruce belt. The Necanicum River, with two branches, is 5, muss long and its watershed is on an average ten miles, while. It flows into the ocean near Tillawhile. It flows into the accean near train & mook Head, and meets the Astoria & Columbia River Railroad at Seastile. It is the most westerly of the little rivers heading in Saddle Mountain, and, being nearest the ocean, its forests are chiefly sprace, with hemlock a good second.

# Spruce Near Seacoast.

sprace belt, it may be remarked, is within 12 miles of the sencoast. As a con-sequence of this scientific fact, the Lewis and Clark Basin has much sprace timber, while only in the lower portion of the the square mile,

next great timber belt within Asthe basin of the Nehalem The stream is about 100 miles in which it rises in the eastern is about 100 miles in which it rises in the eastern is and bottom lands, in fact, red hill lands and the stream bottom lands, in fact, red hill lands and the immediate construction of a complete construction of about 150,000 worth of work. Portland will have an opportunity to furnish this amount of material in competition with other deal-That stream is about 150 miles with a watershed averaging some les in width. It rises in the eastern

stock.

fornia, brought there by the friars of the early Spanish settlements. This led me to investigate the subject thoroughly. I found that the staminate, or male blossom, appeared some six weeks before the pistilate, or female blossoms: hence no pollination, and, in consequence, he nuts. It is now 16 years, when I first started facilities.

PORTLAND HAS AN ADVANTAGE to experiment and planted a number of English walnut trees, or rather French walnut trees, as the former is only a commercial term, and no one would think of planting anything else but the French varieties. I planted all grafted trees, for which I paid \$1.50 per tree, and includ-ed Proeparturien, Parisienne, Gerotina, Franguette, Maynite and Chaberte, out of which I finally selected Mayotte and Economics as been advected for our wills. to experiment and planted a number of In Best Position to Furnish Supplies KLAMATH FALLS, Or., April L-(Spi KLAMATH FALLS, Or., April 5.-(Spe-cial.)-Portland's merchants and dealers in equipment and material required by the United States for construction work on the Klamath project have an advan-tage in furnishing such supplies over San Francisco dealers, by reason of the fact that the Government land grant to the rallwash between Reservice Longton, Cal

Franquette as best adapted for our solls, climate and market, with some Chaberte, as these latter are preferred by confec-

as these latter are preferred by confec-tioners for chocolate candles. Freeling that the high figures charged for grafted trees, walnut culture would not become popular, I further experi-mented by growing my own trees from seed, for which purpose I sent to An-drieaux. Vilmorin & Co., Paris, France, the largest seed house in the world, and bought first generation nuts of Mayette and Pranquette, and grew about 200 trees which of course, were second gen-eration, and best adapted for our Coast, gring most of them away to ascertain their adaptability to the various solis; the results were very gratifying, whether planted on the Coast ranges, Puget Sound, red hill lands and bottom lands, in fact, everywhere where there was no bandpan. In walnut-growing three titings are while only in the lower portion of the Young's River Basin is any spruce to be found. So, too, the other regions and imber sections on the Lower Columbia, farther than 12 miles from the seaconst, have very little or no spruce. This Ne-chnicum district is heavily timbered and will average nearly \$300,000 feet of spruce wile average nearly \$300,000 feet of spruce

other advantages in economy or mainte-nance. The turnnel is 196 feet long and hus a cross-sectional area of 165.5 square feet. It is designed for a maximum velocity of 10.1 feet per second. The canal at the approaches to the tunnel, where the cut-ting is deep, is of contracted section and, together with the tunnel, is to be lined with concrete to withstand the high ve-locities. Diamond-drill investigations on the line of the tunnel show that the ma-terial is principally a deposit of soft lara ash of such quality as to permit econom-ical tunnel construction. The Kiamath Falls Irrigating Com-Several other industries are under advisement pending the negotiations for a railroad. One of the most feasible of these is that of securing a branch factory for the manufacture of paper from sagebrush and the distillation of from sage brush and the distillation of the shrub's essence. The patentee has given the board assurance that Har-ney would be a good point for such a factory upon the securing of railroad factors.

in the location of the main canal care-ful consideration was given to the ad-

ical tunnel construction. The Kiamath Falls Irrigating Com-pany's (Ankeny) canal line for the first mile of its course, along Link River, is available for use as a power canal in connection with the construction of the tunnel line and for purposes of generating power for pumping. Below this point the Ankeny canal will be enlarged and used for several miles.

## Work on Keno Cut.

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larly incorporated under the laws of the State of Oregon, with a capital stock of 2000.000. As set forth in its articles of incorpora-tion, "one of the enterprises in which the assist the Reclamation Service of the United States in carrying on projects for irrigating and render fit for agticul-tural and other purposes swamp and marsh lands and render fit for agticul-tural and other purposes swamp and marsh lands and overflowed lands covered by water belonging to shareholders of this corporation; to enter into any agree-ment with the proper representative of the United States with reference to the collection and payment of any and all riarges made under the Federal statutes for the works providing water for the lands of its shareholders; to apply with the provisions of any Federal statutes supplicable to the work done by the United States in connection with such system of water supply, and any rules and regula-tions established thereumer: to perform any and all acts necessary or appropriate for the accomplishment of any of the said or in any rules and regula-tions catabilished thereunder: to perform any and all acts necessary or appropriate for the accomplishment of any of the said or any fing incident there-io."

for the accomplishment of any of the said purposes or anything incident there-to. The assignment of the lands of the project has been taken up by the Water last has been taken up by the Water been subscribed under the terms of the reclamation act. These assignments pro-serves of 169 acres, which has been fixed as the maximum area for which water may be obtained by any one person. The one which should be first constructed for three reasons, first, the necessity for present development of the country, and provide for future growth is greater on the lower project. Is assured, and, have been signed by private landowners, under the lower project. It is expected that by project sufficient data on that water sup-ply of the lower project is and the engi-the one work on a begun on the upper pay water in data on that water sup-ply be an thand to enable the engi-ties waters than is at present possible. Concrete Construction Costly.

### **Concrete Construction Costly.**

<text><text><text> Murine Byo Remedy Cures Byos; Makes Weak for Strong, Southes Eye Pain, Doesn't Smart

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ington, April & Commendable progress is being made on the National irrigation works in Oregon and California. On the Klamath project the Secretary of the in-terior has formally approved the contract terior has formally approved the contract between the Klamath Waterusers' As-sociation and the United States. This is a ratification of the plans for construc-ing the Klamath project and involves the ultimate irrigation of about 25,000 acress of land. The amount equals the total irrigated area in Southern California proper. Construction contracts amount-ing to approximately \$400,000 have been along and construction work is now unsigned and construction work is now un-der way by contractors Mason, Davis & Co., of Portland, Or. The Pacific Portland Cement Company.

IRRIGATION IN CALIFORNIA

**Only Perfect Levees in Country Are** 

Planned for Yuma Project.

OREGONIAN NEWS BUREAU, Wash-

of San Francisco, was the successful bid-der for 10,000 barrels of cement at 51.55 per barrel for use on this work. This firm is now supplying cement on the for-ty-thousand-barrel contract for the Yuma project, and has also furnished all the ce ment so far used on the Truckee-Carson project. The board of engineers which met at Klamath Falls on March 3 considered plans for new construction work and arranged details for the building of the entire project. On the Yuma project the Secretary of

the Interior has authorized the construc-tion of the Glia Valley levees by force account at an expense of \$100,600. These levees will be the only perfect levees ever constructed in this country. The work constructed in this country. The work was started on March 12. In connection with the levee work the Secretary has authorized the purchase of 109 mules with their equipments, and the Governwith their equipments, and the doverne ment is now prepared to purchase these animals. In accordance with the gen-eral policy of the service a number of small contracts amounting to approxi-mately \$1099 each have been let to the farmers of the Yuma Valley for the ex-tension of the Yuma Valley jeves toward the Mexican line.

undergoing an unnatural st Frequent and prolonged attacks of pain weaken the gen-

Pain in the

Is a danger signal, warning

you that the brain nerves are exhausted-irritated, and are

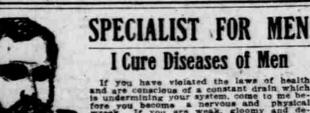
Head

erative power of the nerve cells of the brain, and lead to loss of memory, melancholy, spasms, epilepsy, and frequently insanity.

When the brain nerves are weakened they are unable to supply sufficient nerve force to the nerves that control the lungs, heart, stomach and other organs, and these organs are thus robbed of energy, and unable to meet the demands upon them, and they get sick. Stop the head pains with Dr. Miles' Anti-Pain Pills, and the influence upon your general health will be greater than you can realize.

"I want to tell you how thankful I am for Dr. Miles" Anti-Pain Pills. From a child I have been subject to sick headache, and never found any lasting relief until I received a sample of Dr. Miles" Anti-Pain Pills while in Geneva six years ago. By taking one it usually throws off my pain, so I can go about my home duties." MES ALMA GATES. R. F. D., No. 4, Geneva, Ohio. Dr. Miles" Anti-Pain Pills are sold by

Dr. Miles' Anti-Pain Pills are sold by your druggist, who will guarantee that the first package will benefit. If it fails he will return your money. 25 doses, 25 cents. Never sold in bulk. Miles Medical Co., Elkhart, Ind



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