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MUTUAL LIFE NEW YORK Oldest **RICHARD A. McCURDY**, President America

Project Embraces Five Counties and Three of the State's Richest Valleys.

GREAT SCHEME

FOR IRRIGATION.

Utab Arid Land Commission Sub-

mits a Most Comprehensive

Plan.

IT INCLUDES THE TWO LAKES.

Work Will Cost Five Million Dollars

And Increase Land Values Thirty

WELL RECEIVED IN WASHINGTON.

Million.

One of the greatest irrigation schemes ever presented to the people of this state and by them submitted to the government of the United States, is that just made public by the Utah Arid Land commission. The scheme comprehends the expenditure of \$5,000,-900 for the conservation of the waters flowing into and through five of the state's most populous counties and embracing, without a doubt, three of the richest valleys in the entire west. The project provides for the deepening of Utah lake as already proposed; the construction of a diverting canal across the head waters of the Duchesne and Strawberry rivers; the building of a reservoir in Strawberry valley and a tunnel through the mountains so that the water can be made to flow into Spanish Fork river, the building of a long high line canal along the Wasatch mountains, above the valleys clear to the Bear river; the improvement of Bear lake as a reservoir; the diversion of the headwaters of the Binckfoot river into a reservoir and across into the Bear river; the building of a canal to supply lands on the west side of the Bear river; the utilization of the Ogden-Lucin cut-off as a dam to cut off the arm of the Great Salt Lake and making it dry, thereby reducing the area of the lake and the loss by evaperation and preserving this body of water, which in the past few years has been fast diminishing.

A point urged in connection with the proposed scheme is that the territory affected is already well under cultiva-



without irrigation. With the exception of Green river and its tributaries, all the streams of the state have their sources within the bor- | land. ders of the state and none terminate beyond its boundaries. All are torren-tial streams subject to great fluctua-tions and very little has been done to equalize the variability of the flow. Great scarcity in the water supply is experienced during the low water per-iod of each year, although not more than about one-fourth of the whole annual supply has been utilized, the other three-fourths being wasted by absorption and during the flood and winter seasons.

FLOW MUST BE REGULATED.

From the foregoing it is evident that to regulate the flow of the streams by means of storage reservoirs and to extend the irrigated area are matters of paramount importance to the future growth of the state. It is also clear when the disproportion of land to water supply is considered, that the greatest care should be exercised in selecting the land upon which the water is to be ultimately used. Only such lands as will return the greatest possible value for the water applied should be considered as worthy of the water, and the less worthy lands should be put to some subordinate auxiliary use without water. Because of the shorter seasons and the liability to late and early frosts in the higher valleys of the state, it is the rule that the lands of the lower valleys are most worthy of the water.

THREE VALLEYS AFFECTED.

stream that flows into the Great Salt Lake, has its source on the northern slopes of the Uintah mountains and The Wasatch and Uintah mountains are the sources of practically all of the water supply of the northern half of flows northward for a considerable dis. tance, then flanks the northern end of the Wasatch range and turns south-ward, traversing both Cache and Salt Loke valleys from the south of the s the state and the greater portion of the water flows naturally into the Great Salt Lake where it is dissipated by evaporation. The water in passing from mountain to lake traverses the three principal valleys of the state known as Cache valley. Sait Lake val-ley and Utah valley, respectively. Sait Lake valley is the lowest valley in the state, the elevation being about 4,200 feet above sea level. Utah and Cache valleys come next, each being about 4,500 feet above sea level. With re-spect to climate scenery, character of soil, etc., it is doubtful if these three valleys are excelled by any in the world. ous streams which form the Duchesne river, one of the principal tributaries of Green river. The Strawberry branch of the Duchesne flows through the Strawberry valley, situated immedi-ately over the crest of the Wasatch, east of Utah valley, at an elevation of about 7,500 feet above sea level, and having an ara of about 7,000 acres. The Strawberry valley and the waters of the Duchesne are all embraced within the Uintah Indian reservation, and

to be effected by means of sluice gates placed in the embankment and through which any excess of water may be discharged into the abandoned portion o the lake bed. While included in the general plan, it is not expected that this will be made part of the reclamation works but is suggested as incldental thereto. CALLS FOR PROMPT ACTION To insure the most complete success of the project it seems necessary that such timely action should be taken as will secure all the water sources that will be needed to consummate the entire enterprise. It will be readily seen that in view of existing conditions the people of Utah are not in a position to take hol of this project and develop it them-selves. Action on the part of the general government is required to effective-ly execute the proposed plan; one of the sources of supply consisting of water on an Indian reservation and other sources being situated either wholly or in part in other states.

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tion and settlement and embraces cities and towns whose people are thrifty. prosperous and progressive citizens. It is estimated that the project will reclaim close to 1,000,000 acres of choice land, making room for 1,000,000 additional inhabitants, or on a basis of one acre to every individual person, and increasing land values in this state at least \$30,000,000. The scheme has been well received by the government and is fully set forth in the following statement presented to the secretary of the interior

TEXT OF THE PETITION.

Salt Lake City, Utah, Jan. 27, 1904, To the Honorable, the Secretary of the In-terior, Washington, D. C.-Sir-The arid land reclamation fund commission of Utah respectfully represents that since the filing of its application to have Utah lake considered as one of the pro-jects to be developed under the act of Congress of June 17, 1902, entitled, "An act appropriating the receipts from the sale and disposal of public lands in certain states and territories to the con-struction of irrigation works for the reclamation of arid lands," further inves-tigation has disclosed the fact that Utah lake is more porperly part of a larger plan than an entire one, as at first contemplated. The commission

therefore submits a more comprehen-slve project (which includes Utah lake) for the enlargement and utilization of the water supply for Cache, Sait Lake and Utah Lake valleys in the state of Utah, and asks that it may receive your early and favorable consideration. CONDITIONS PREVAILING.

The peculiarity of the situation in Utah with respect to the water supply seems to demand the following brief description of the conditions which genrevail. The total area of the about 53,000,000 acres, a large rally prevail. part of which is fertile and arable land. The water supply is so inadequate that when fully utilized not more than six or eight per cent of all the land of the



Your heart is not able to pump the blood fist enough to your lungs. Some of the other symptoms of Heart Trouble are: Pains in the Side, Back and Shoulder; Fainting or Weak Spells;

Dry Cough; Swelling of Feet and Ankles; Cold Feet or Hands, No one can afford to allow a weak heart to go without medicine, because weak heart means poor circulation, and poor circulation means weak lungs, stomath, liver, kidneys, etc.

If, therefore, you suspect heart trouble, begin taking Dr. Miles' New Heart Cure. teart Cure will do you good, as it is ndid tonic for the blood and nerves, and will revitalize your entire system. Finally, remember, Dr. Milea' Now Meant Cure is sold under a guarantee that the first bottle will do you good.

nat the first bottle will do you good. If it doesn't-sour money back. ⁹I was afflicted with heart trouble for are yours. I would be apparently all rant, and without a moment's warning would full as though shot. The attacks' were frequent, and a terrible dread par-based me, as I never knew when or where, hore under what conditions I wand be attacked, and when ar there wand the a the source of the most eminest build the source of the most eminest build be source of the most eminest build be source. I buggst taking a finitely source in as I fave not a source of the will be bugget a more at more. I used to bottles a source there were the source we as a source of the bugget a more at more. I used to bottles a source of the two sources is a bugget a source of the source of the

FREE Miles! Anti-

The present density of populatio

PIONEERS IN IRRIGATION.

therefore not open to entry or appro-The first irrigation institutions in the priation United States were established in these The Blackfoot branch of Snake river, in the state of Idaho, has its course in valleys nearly 60 years ago by the pioneer settlers of the state. The plan the high mountains a short distance to then initiated and subsequently adhered the northeast of where Bear river flanks the northern end of the Wasatch, to was one of small farms, intensive methods and co-operative ownership of immediately over the divide which sep-arates the waters of Snake river from all irrigation works. As a result of operations during these 60 years all of the water supply that can be made available through individual or ordinthose of the Great Basin. The waters of the Blackfoot are in the state of Idaho and except the flood and winter ary co-operative effort has, under this flow have been appropriated and are being used for irrigation in that state, system, been put to use and there is no further opportunity for great de-velopment, except through extensive and complicated works that involve en-At an elevation of about 6,100 feet the Blackfoot traverses several small val-leys which are now used as cattle gineering, legal and financial problems quite beyond the power of the previous-ly potential co-operative methods. ranches by parties who have acquired title to the land as well as the right to use the water for irrigation. On nearly all of the local streams of the three previously described valleys

Duchesne river.

storage reservoir.

THE "ENDLESS CHAIN"

SAME STRUE

WEALTH OF COUNTIES.

These three valleys comprise Cache, Boxelder, Weber, Davis, Salt Lake and there is opportunity to store the flood and winter water which now goes to Utah counties; have about 175,000 people and contain property assessed on the basis of \$82,000,000. There are al-together about 1,000,000 acres of irrigable land in the three valwaste, and the general plan here pre-sented contemplates that this shall be done. Also that the headwaters of the Duchesne on the south and of the Blackfoot on the north shall be divirted from their present courses and be made to flow into these valleys for the leys, less than a third or about 307,000 acres being at present irrigated, the remainder, or about 693,000 acres purpose of increasing the water supply. having no water supply. This irri-gated area is apportionad among about ENGINEERING WORK NECESSARY 16,200 owners, making the average size In a general way, the engineering work required to accomplish this and provide for the proper distribution of the water throughout the several valof the irrigated farm about 30 acres There are, however, about 688,000 acres out of the 1,000,000 acres that are in private ownership, so that the average leys will be as follows: 1. The building of a dam from 50 to size of the farm consists of about 66 acres, more than half of which, or 36 acres, is without a water supply. 11 extreme cases the estimated value of

he right to the use of water, in Salt Lake valley, is as high as \$180,000 per second foot for city purposes, and \$70,-000 per second-foot for irrigation. While these figures should not be taken to ndicate the market value of the water they are fairly suggestive of its possible worth.

A FEW FIGURES.

The productiveness of the soil and the possibilities of these valleys are best indicated by the great variety and value of crops that have under favorable conditions been already produced, some of which are as follows:

Potatoes, per acre.....1,100 bushels Strawberries, per acre (gross)... 800.00 Irapes, per acre (gross)....... 1,200.00

OTHER RESOURCES.

for many years, suffered terribly from indigestion, was also troubled with chronic bladder complaint and could not stand more than two hours at one time. I could not do my housework. "I was always drinking coffee-al-most lived on it-and the more I drank the more feeble I felt, sometimes I would collapse suddenly and fall in a The present population consists o rugal, energetic, prosperous and pro-ific communities whose constantly in-creasing numbers would naturally over-flow onto and occupy the immediately afacent lands, but who, because there is no water supply for these lands, are now forced to find footing elsewhere there are supply for these lands, are would collapse suddenly and full in a helpless heap and would be weak for hours after. I was very emaciated and part of the time wished that I could die. I was so miscrable. "Since the lucky day I began to drink Postum Food Coffee in place of coffee, wonders have taken place for I have gained in tiesh and strength, can do my own work, have given up wish-ing I could dis, my bladder trouble is better and I feel a different woman al-together. Coffee you know is a paculiar slave driver. It first flatters and then demands that the slave keep it up or suffer. It is suffer either way inless one goes on to Postum Food Coffee. Then the change is case and the spell to their own great detriment as well as hat of the state. A public school system that will compare favorably with that of any other state has been stabilished. Churches and other pubestablished. Churches and other pub-lic buildings have been provided which are ample to accominodals as much larger population that could be quick-is and promably solided there if the water supply would permit. Atopie transportation facilities are already provided, the mining industry affords an excellent local market for all the produces of insignifiers stations in each of the three valleys create a mire and promable market for all the ords of the three valleys create a mire and promable market for all the ords of the three valleys create a mire and promable market for about 200,000 terms of boots and produce about 50,-Thon the change is casy and the spell

ans of boots and produce about 30, 50,000 poincie of sugar unnually.

WOULD BUSCAIN & MILLION.

"My doughter was weak and thin and niving away every day from coffse-drinking. She thought she could not give it in an I gave her some Postum and told her by give it a good util-she gave in coffee calusiv and has stendily gamed in strength and health and to be the basile over anonry hother hould he

WILL GET MONEY BACK.

That the government can be amply secured in the repayment of whatever money may be expended by it in the execution of the proposed plan is apparent. The majority of the water users will be old settlers having other im-proved lands and sufficient means to enable them to pay the annual install-ments as they become due. The ability to pay will be greater than in the case of new colonists, and in the existence of such property and assets will be assurance that the obligations will be promptly met.

While most of the lands that would be irrigated under the proposed plan are held in private ownership and might be properly classed as semi-arid, there are very potential reasons why they should receive the benefit of the re-clamation fund. As has been shown, the conditions as to location, climate, altitude and productiveness are most tavorable. Part of these lands are al icady owned and occupied by bona ide settlers whose magnificent achievements in the colonization, irrigation and redemption of the great American desert prove their entire worthiness of the trust to be reposed in them and afford ample assurance that the best possible use will be made of the precious water

ALREADY WELL ESTABLISHED.

These people have schools, churches and other conomitants of civilization that a new colony could not possibly acquire in less than a generation Without a substantial increase in the water supply the commonwealth not grow, and, indeed, many of the present inhabitants of these valleys are now seriously contemplating remova to other localities where an ample sup ply of water can be obtained. Alread many families have left this part o 3. The construction of a tunnel about three and one-half miles long through the crest of the Wasatch mountains, the crest of the Wasatch mountains, by which the water stored in the Strawhe state because of the scarcity ter, and some have gone beyond t confines of the republic. Is it not strict harmony with the benign spi and purpose of the law to have it The Coffee Drinker Knows What It Is. applied as to preserve homes and com-munities already established, as in thi case as well as to provide new home The person who uses drugs (such as coffee) looks forward only to more and more of the stimulant. and create new commonwealths? Whithis commission is in hearty sympath

this commission is in nearty sympath, with every effort to reclaim arid lands and establish new homes, it canno avoid the conviction that preference, should be given to such propositions a contemplate the preservation of exist-ing homes and the enlargement of com-numities already established. The benefits that would result from the execution of the plan here out lined and offered cannot of course, b-correctly mensured, but the commission 'I was little better than an invalid

lined and offered cannot of course, be-correctly measured, but the commission confidently predicts that within teo-years after its accomplishment an-within the time in which the cost of the works is required to be paid, the population and would of these valleys will both have increased three-fold. In consideration of the foregoing an-of the great aid which the presen-and experience of the people of these valleys must contribute to an enter prise of this kind, it appears plain to alleys must contribute to an enter-rise of this kind, it appears plain the commission that he more worth, ince or people can be found than the ere afforded for the successful appli-ation and operation of the reclama-ion law, and it is therefore excension invested that immediate steps be for quested that immediate steps he tais to that mul-

Respectfully submitted. Utab Arhl Land Reclamation Fun

Commission, By A. F. DOREMUS, K S. HICHARDS.



HOARSE COUGHS -STUFFY COLDS

are the kind that settle on the lungs and develop into

PLEURISY PNEUMONIA and CONSUMPTION

FOLEY'S HONEY AND TAR stops the cough and heals the lungs and prevents serious results from a cold.

Consumption Cured

Foley & Co., Chicago. Gentlement-FOLEY'S HONEY AND TAR cured me of consump-Dana, Ind., Sept. 28, 1902. tion after I had suffered two years and was almost desperate. Three physicians failed to give me any relief and the last one said he could do me no good. I tried almost every medicine I heard tell of without benefit until FOLEY'S HONEY AND TAR was recommended to me. Its effect right from the start was magical. I improved steadily from the first dose and am now sound and well, and think FOLEY'S HONEY AND TAR is a God-send to people with Throat and Lung Trouble. Yours very truly, Mrs. Mary Ambrose.

FOLEY'S HONEY AND TAR contains no opiates and does not constipate like ordinary cough medicines.

THREE SIZES-25c, 50o and \$1.00

The 50 cent size contains 2! times as much as the small size, and the \$1.00 size almost 6 times as much.

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100 feet in height to convert Straw-berry valley into a reservoir having sufficient capacity to hold all the wat. ers that can be practically diverted in-to it from the several branches of the 2. The excavation of a channel 30 to 50 miles long, following about 7,600-foot contour by which to intercept the said waters of the Duchesne river and convey them into the Strawherry valley

that may be confided to their care.

