



A Plan to Reclaim Vast Tracts of Arid Land.

IS characteristic of the restless ambitious American to seek an outlet for his surplus energies, either in wrestling with some great moral question or combating the forces of nature. Since the very beginnings of our DESERET EVENING NEWS: SATURDAY, NOVEMBER 24, 1900.

ood, the necessary conditions are al- rangement of "acequias," as they call contented human beings. Some of their eady present for the most remunera- them, as they at present exist in the works, in fact, are monumental, us, for ive returns at a moderate outlay. As province of Granada and existed at the instance, the gigantic dams and resero the advantages of irrigation in time Ferdinand and Columbus signed a voirs they have built and the hundreds reneral-of a method by which one contract for the discovery of America. of canals and conduits they have concan control his water supply, in The same names and the same methods structed for bringing water from the ffect the rainfall, being able to were applied by the Spanlards to their mountain ravines through barren, burnsupply the growing crops with just operations in California, and more than ing deserts to create blooming parathe amount necessary for their rapid a hundred years ago the mission fa- dises as abodes for prosperous families. growth and maturity at the proper thers raised immense crops of wheat, time-there is no question whatever. Ir- barley, etc., by pursuing the systems of rigation, in fact, insures abundant their ancestors in the mother countryrops to the full capacity of the land Spain. The Pueblo Indians of Arizona under cultivation and not alone one and New Mexico had "accquias" when year in a series, but any and every they were discovered by the Spaniards, Cal., which cort in round numbers about thanksgiving days, if they ever had year. It also increases rather than de- more than 300 years ago.

creases the productive capacity of the soil and destroys many insects injuri- in America may be traced along the one of the most attractive sheets of wa- Not that we should take pleasure in ous to vegetation. It produces almost coasts and rivers, which were, of perfect grains and fruits, the yields of course, the first to be brought under rrigated soils, as is well known, sur- cultivation, and it was many years bepassing all others of their kinds for fore the mountain boundaries were bro- ravine covers 721 acres, with a storage dze, though perhaps not for flavor. It ken down and the vast and fertile insures good health to the farmer or plains of the boundless west opened to It has a neighbor in a hear county, the we can tell, were the so called pligrim horticulturist, as he is not obliged to occupation. But in the process of detoll in a scalding sun or expose himself velopment even these have been fully to the extremes of winter temperature. occupied, and an ever increasing poput permits of the bunching of farms and lation is clamoring for new agricultural dwellings, so that the farmer need not worlds to conquer. It is only 51 years solate himself and family from all oth- since the Mormons gave the impetus to ers of his kind. It enables a given recent irrigation in America and set an or reservoir, if rightly located to store area to support the densest population, example for others to follow when they and finally, though the list of advan- turned up the arid alkaline soli of the tages has not been exhausted, it en- Great Salt Lake valley and planted nances the value of the soil and causes their scanty stock of potatoes, looking t to yield the largest returns of which to a crop that might save them from t is capable

to raise their crops by the application origin in America for aught known to the contrary, for when the Spaniards onquered Peru in the sixteenth century they found an elaborate system of anals conducting water to every part of the Incas' empire. When Cortez

has himself examined the perfect ar-

The first pathways of civilized man

starvation the following year. They Water, indeed, has become the solv- were probably taught by the Pueblo In- indirectly dependent upon forest conent of the western farmer's woes, and dians how to pursue the very best he also has the satisfaction of knowing methods, and others since have benefit. that its application to agriculture is by ed. Their success in making the wil- tion in the opinion of many qualified to gathered, and when they went to church no means in the experimental stage. If derness blossom with fruitful gardens we were to search for the beginning and farms and in establishing homes in pied mountain and forest lands owned all good they had to take their muskets of irrigation, we might go back to the what was then an arid desert has been by the government were a few years ago first known attempt at agricultural op- a constant incentive and reminder to withdrawn from sale and made permaerations and bring up in the veritable their neighbors. Intelligent co-opera- nent tracts of the vast national domain. garden of Eden, for the conjectural site | tion has been their guarantee of suc- The purpose of this act was, as already of Adam and Eve's paradise was within cess, and this has been followed in mentioned, the conservation of the forthe irrigable area of the east, where op- many colonies attempted since, notably ests in danger of destruction and the erations of this sort have been carried in the Greeley colony of Colorado, the consequent protection of the springs Among the negative causes for thankon for unknown centuries. It is known beauty and value of which were cre- and streams within their boundaries. that the Egyptians practiced irrigation ated by public spirit and enterprise Its wisdom is already manifest, in the before the pyramids were built; also combined. What these colonists have Yosemite National park, for example. that the Arabians. Assyrians, Chinese done others may do. But it is argued This wonderland was set apart by conand Italians have long been accustomed that these had the pick of the unoccupled lands and that the present arid latest to be added to the list being the brough canals, ditches, etc., of water areas are too vast and sterile to be at-aken from rivers, wells and lakes. tacked even by communal co-opera- dino mountains and San Gabrielle. Irrigation may be of equally ancient tive effort; in brief, that they need the With an area of about 1,400 miles, in the



THANGSGIVING HABIT A NATIONAL TRAIT.

It should be a matter of gratulation that as a nation we have fallen into the Thanksgiving habit instead of the op. posite, that we have augmented our feast days and reduced the number of Many great works might be cited, but fast days. When we come to look as an example of an engineering feat around the world and note the many accomplished after great expenditure of money and labor take the great peoples who have increased their days Sweetwater dam in San Diego county, of lamentation and fasting, while their \$1,000,000. It was considered one of the any, have become almost obsole finest in the country and impounded should rejoice and be exceeding glad, ter in California. At its maximum other people's troubles, but that we height of 70 feet the water in the arti- ought to rejoice that our joys have cial lake created by this dam across a more than kept pace with our sorrows. It is well known to all that the first capacity of nearly 9,000,000,000 gallons. to "set the pace" in America, so far as Bear Valley dam, which at its maxi- fathers, when they ordained a day of mum height of 60 feet covers 2,812 acres

with water and controls 21,000,000,000

gallons. Another (the Merced reser

volr) covers 800 acres and stores about

7,000,000,000 gallons. The cost of a dam

water for an immense area, is insignifi-

Of the various sources of irrigation

such as rivers, lakes and artesian wells

the first two are directly and the last

of the most beneficent acts of legisla-

cant when compared with the enhance

ment of values of the lands.

Thanksgiving fo their abundant crops the after they made that historiciand. ing on Plymouth Rock. As thelr condition might be regarded at the present day they had amai cause for relati ing, except in a

servation for continuous service. One negative way, for starvation was not far off even after their crops had been judge was that by which the unoccuto offer their praises to the Author of along for a chance "pot" at humane salvages" lurking in the adjacent forest.

In fact, it was not so much for what they had as for what they had not that the pilgrim fathers offered thanks. fulness one oid writer mentions his narrow escape from the pestiferous 'squnck," a small animal that fre quented the woods and highways and gress as a national reserve in 1890, the wore'a livery of black and white. An other was overflowing with rejolcing because he had at last "tasted a sup of New England ayre," which he declared almost as rejuvenating as the waters of the famous fountain of youth which Ponce de Leon had vainly sought a hundred years before.

But, according to historical annais, the very Indians of New England were imbued with the thanksgiving habit, and their annual feast, or green corn dance, may have been performed for centuries previous to the coming of the pligrims. Not that we would depreciate their endeavors in this direction. however, for, while the Indians may have had a periodical event of that character, they never succeeded in get. ting it universally observed. Our forefathers probably thought it more conducive to success to count their blessings than recount their sorrows, and it is well for their descendants, and others who have since migrated to this country, that they viewed the matter in this minently sensible manner.

The trouble with the pilgrim fathers was that they imagined they owned a copyright or had a patent on Thanksgiving day because they were the first to inaugurate it in America, but the records show that, while their obnoxious Dutch neighbors of Manhattan did

settlements, since the first attempts at planting colonies on the Atlantic coast of what is now United States territory, he has fought against and overcome the most gigantic physical obstacles and, incidentally, settled, off hand, as it were, questions of government, equity and diplomacy that have arisen in his triumphant march from ocean to ocean.

Viewed in its larger sense, then, the ninth annual session of the national ir rigation congress, just held at Chicago is an event of great importance. Without any cognizance of the personal aims and ambitions of its members, it may be asserted that the mere keeping of the subject before the people, the retention of it in the public mind as a question of national significance, will ultimately inure to the vast benefit of the country at large. More than 40 per cent of our area, it was asserted at a previous meeting of this congress, supported only 6,000,000 inhabitants, when, if judiciously watered, it could easily sustain at least 70,000,000. We expend millions every year in rebuilding levees. repairing the losses occasioned by floods and striving, as the saying is, to stop at the spigot what is really wasted at the bung. It has at last become ap parent to farsighted Americans that the proper mode of procedure is to go right to the sources of supply and there control in their inception what would otherwise prove devastating floods and deluges.

A glance at the charts Issued by the last census will show that the most densely populated areas of the United States lie in those of the greatest rainfall, and, though this fact may be af-

and figures, the people of the United heat. States have done a great deal of thick- The arid region of the United States

cialists. dreaded bugbear of the transcontinen- utilized for forest conservation and the tal pioneers, the Pacific "forty-niners" building of vast storage basins for the and. American desert"-will soon become a great destruction if their spring floods thing of the past. It has been a fugi- were uncontrolled. tive for several years, as new states. Not less than half a million acres and territories have been staked out have already been brought under irri and filled up with hardy inhabitants, gation and made to yield their wealth It, and the witchery of water will trans. must pass unnoficed.

fected by the question of accessibility, sequent trip across the same section he still it is only in a modified form. The suddenly became aware of a change in relative values of farm lands also show temperature, the shimmering sonds that, while in the sections of greatest were exchanged for dusky glades, the rainfall and those where irrigution is murmur of waters tilled the air, and on already established lands may be worth every side was blossoming vegetation. \$5,000 and more per square mile, in All had been accomplished in the space those containing the so called arid sec. of a few years by the mere boring of tions they are rated at \$100 per square artesian wells and the planting of trees mile or less-in fact, as practically val- and flowers in the irrigated soil where ueless. Since the completion of the before it was impossible to raise a sincensus of 1890, with its suggestive facts gle shrub in the terrible and continuous

ing and, having come to the conclusion is popularly supposed to comprehend that what is beneficial to a few mil- Arizona, southern California, Colorado, lions of the nation's people is also ben- Idaho, Montana and New Mexico, the eficial to all, have through their repress portions of Oregon and Washington lysentatives in congress authorized a na- ing to the east of the Cascade range tional recognition of the subject of trei- Utah and Wyoming. The extent of the gation. Congress has made tentative arid area is computed at about 900,000. appropriations, as well as granted 000 acres, and if it were made a billion tracis to the several states, and the de- a few years ago this figure might not partment of agriculture has rendered have been excessive, since much of it is valuable assistance in experimentation of a nature precluding accurate survey through the medium of its trained spe- At least two-thirds of this area, it has been estimated, is available for irriga-It now appears in fact that the tion and much of the remainder can b

their successors-that "great waters of rivers, that would cause

and now the irrigationists have got it of fertility that for uncounted centuries ed, nature's treasures come to light. on the run and seem likely to chase it lay dormant in the arid soll. Space And so it may be said of irrigation: into its hole. In fact, the great Amer- would be lacking to enumerate the Where water is most needed to develop ican descri is destined to vanish utterly thousands of individual and communal the latent resources of the soil, there from the earth, and its epitaph, already efforts at irrigation, and even the nota- we find just the right combination of wriften in advance upon its tombstone, ble transformations of great states like soli and climate to yield the richest re-will be, "Water did it!" Water can do California, Idaho, Wyoming and Utah suits. With a high temperature and form the sterile tracts into fertile farms have become known to all, and it would the year, with a volcanic soil or one in and cause the desert to blossom as the be a work of supererogation to cite which are saits soluble in water and rose. What it can do has already been them in this connection. But it is convertible into the richest sort of plant

The contractor who built the city hall estimated at \$10,000,000. Of this amount about \$3,000,000 will be expended upon han lives, \$125,000,000 and 200 ships have bacco at a stand in the corridor of that the Midway. The Midway will thus been lost in fruitless efforts to find the fit who is now the Midway. The Midway will thus been lost in fruitless efforts to find the fit who is now the Midway. The Midway will thus been lost in fruitless efforts to find the fit who is now the Midway. The Midway will thus been lost in fruitless efforts to find the fit who is now the Midway. The Midway will thus been lost in fruitless efforts to find the fit who is now the Midway. The Midway will thus been lost in fruitless efforts to find the fit who is now the Midway. The Midway will thus been lost in fruitless efforts to find the fit who is now the fit which was recently not the fit which was recently n smallest coin now current in Europe,

Attention has recently been called to

gators have good reason to point with melting in the spring, and the rivers pride to their achievements, to the ob- are affected favorably. So, take it all to have humanitarian sentiments recstacles which they have overcome, to in all, the experiment of protecting the ognized as they are today. The next the innumerable products they have forests and at the same time conservraised and shipped and to the sections ing vast pleasure grounds for the peo- cluded in the body politic, and nothing they have rescued from desolation and ple has proved an unqualified success. made into edenal dwelling places for

about one-tenth of a penny, is the the time of Peter the Great who may be sic, but refrained because deafness was which the Lette society proposes to enough for the lesser lights of his has said to have reached a ripe age is the present Grand Duke Michael, the sole it might come upon him in his prime erect in a Berlin suburb as a model house for 2,000 young girls, who will be

One of the remarkable things about a West Kensington (London) church A manufacturer of paste jewelry at the late Max Muller was that he never informed the public that five pews the Paris exposition says that the best at Lexington, Va., and is professor Andrew Hrnejar. Naturally, no one ev-er calls him by his last name—he is simply known as Andy. the fact that a deeper cause is a lack of the fact that, while the men of the employed a stenographer or a type- were for sale, and that said pews were customer he ever had was the shah. The total cost of the Pan-American oxygen. exposition, exclusive of exhibits, is now The Greek lepton, which is worth is building but he study of mu-

not adopt it until some time after, yet their countrymen in Holland had observed a similar ceremonial as far back as 1575. In a desultory way Thanksgiving day was observed in the colonles every two or three years-that is, the citizens of any particular county or township that had been blessed with overflowing harvests would get together and offer thanks for their favors, at the same time decrying those who did not also come forward

with alacrity to acknowledge the boun ties of beneficent Providence. As to the motive for the Thanksgiving festivals, it depends somewhat upon the point of view. For example, when General Washington announced the first national Thanksgiving in recognition of a return of peace after victories over the British and the adoption of a constitution for the United States in 1789. it is quite likely that a certain king across the water, or, to be exact, George

III, was not enthused with the idea. A proclamation of Thanksgiving was issued by President Madison in 1815, at the close of our second war with Great Britain, but it was not until "Honest Abe" was in the presidential chair, in 1864, that the festivity took on a really national cast and was universally

adopted as a legal holiday throughout Yosemite includes at least 20 snowclad the length and breadth of the Union. peaks among its lofty mountains, hun- For quite a generation of time, now, the dreds of beautiful streams and lakes, American people have been celebrating glorious waterfalls, immense groves of the recurrence of the last Thursday in gigantic trees, gorges, canyons and November as a day of Thanksgiving and valleys, in which there is a great prayer, and it certainly looks as though diversity of vegetation. It was such a they have more cogent reasons each fine grazing ground that the sheepmen, year for the continuance of the festimainly Mexican herders, drove vast val. Thanksgiving, in fact, is perhaps flocks into this region every spring, our sole anniversary of national character that does not appeal to some spedestroyed millions of shrubs and young clai sentiment, as selfishness or patriotism, lament for the dead or pandering to the living, and can be universally year, the herdsmen would set fire to the observed without heartburnings or narforest and thus complete the work of row minded motive. To the bountiful Benefactor of



age of electricbarren. It is not claimed that the sol- ity and steam, when the powers of the

diers are altogether a benefit, since earth and sky have been harnessed to they assist the Indians in depleting the do our bidding, when the cumulative streams of fish, but in the main they products of all centuries past are forced into our service, when, even though the Forest fires no longer rage, endanger- rich may be richer, the poor are better ing the lives of visitors; springs are off in general than at the beginning of the small shrubbery retains the snow admitted, the worth in man is acknowledged, even if the individual is sometimes oppressed. It is a great advance great step will come when they are inelse will so hasten that event as our na-A. M. D. tional Thanksgiving.

> rem. The quantity he took to Persla was enormous.

Colonel John M. Brooke, who designed the ram Merrimac and thus revolutionized marine warfare, is still living emeritus of physics in the Virginia Milliresidence on the outskirts of the city to

FREDERICK A. OBER.

very heart of the Sierra Nevada, the

These not only ate all the grass, but

trees by browsing. When they went

back to the lowlands in the fall of the

One of the first things done after

the acquisition of the Yosemite as a na-

tional park was to establish there a

troop of United States soldiers, the

commander of whom was de facto su-

perintendent of the reservation, with

authority to arrest and expel every

intruding sheep herder, with his flocks.

The result is shown in the returning

destruction.

JUST LITTLE PICK UPS.

building.

simply known as Andy. The total cost of the Pan-American oxygen.

represent more than the total cost of north pole Sabetha, Kan., has a citizen named some very pretentious expositions held

These instances consequent absence of cold throughout

MANNAVANAVAN

EL CAPITAN,

MERCED RIVER AND

IN THE SAN GABRIELLE RESERVATION

BRIDAL VEIL FALLS.

beauty of the park, which is now carpeted with flowers, small trees and shrubs, where before the soil was so denuded that it was almost absolutely

have been of great value.

intelligent supervision of Uncle Sam and his powerful arm to save them again welling forth from the hillsides, this century. Universal brotherhood is from disaster. However this may be, the great irri- and prevents floods caused by rapid

