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GUNNISON TUNNEL IS READY

gation Project.

SIX MILES OF MAMMOTH TUBE

Has Taken Four and a Halt Years of Work and \$5,000,000, but is Ezpected to Restore 150,-000 Acres.

A dogen or more years ago the traveler through Colorado who took the narrow-Black canyon was sure to have his atten- Water Users association. tion called to a great red brick hotel. half-asleep town of a thousand or so. The hotel was typical of a day that is hauled over the mountain by wagon at a time when there seemed no end to the mineral wealth of the state and when fortunes were made and spent in a year or a month.

Now Colorado has discovered that there are other ways of getting rich than by mining and that agriculture is one of them. The western part of the state has for many years had sections famous for their fruit. In fact the Rocky Ford cantaloupe is a native of the state. But the great problem has been water.

That problem the government is solving. and one of the many duties that will fall on President Taft on his western trip will be to open the great Gunnison tunnel, the States reclamation service.

This six miles of cement lined tube has doesn't follow that he will not get all or, on tap; orchard heaters are used in the most of it back directly and a great many spring to prevent the frost from killing problem of financing the tunnel is solved. was paid to the individual trees.

This region where it is predicted 50,000 persons will soon make their homes is the Uncompangre valley, through which runs the disappointing river from which it gets its name. The river at one time furnished enough water for irrigation purposes, but gradually it died out. Settlers who had built up prosperous farms moved away and young orchards were abandoned. Finally there were 40,000 acres under cultivation and perhaps four times that much land lying idle-just as good land, but useless without water.

Ten miles away through picturesque scenery, delightful to the visitor, but useless to the farmer, ran the Gunnison river, mountain fed and rock lined with a never falling supply of water. There was the problem to join the wasted water of the Gunnison to the wasted land of the Uncompangre valley.

The state tried it first and spent some \$25,000 drawing up plans to show the practicability of the 30,000 foot cut through granite and sandstone. It was twenty years ago that Colodado began its work, and now the federal government has finished it after four and a half years of actual digging.

The two gangs working in the bore met on July 6 of this year at a point in the tunnel 10,812 feet from the Gunnison river end. With that the hardest work is over and now all is in readiness for the president to start the flow of water.

The tunnel is the most remarkable feature of this great enterprise. It runs west L. Saunders, 1604 Fort Dearborn building, from the Gunnison river for 30,600 feet. and he has had a copyright and patent on It is lined throughout with cement and measures inside lixis feet. From its west-ern end runs the main canal, which is thirty feet wide at the bottom and eightythree at the top. With an average depth of ten feet of water this means about 1.300 high and twelve inches at the base. It cubic feet a second.

of the purchase of unwatered lands. The limit of land privately owned, for which water will be furnished to one head of a faimly, is 160 acres. Land privately President Taft to Open the Big Irri- owned must be listed with the Water Users association before government water will be furnished for it.

The one restriction which prevails on all lands to which government water is furnished is that there must be an actual bonafide settler on the land. These lands cannot be held indefinitely for speculation by nonresidents, nor can they be held by nonresidents and rented to others.

Purchasers of land watered by the government will be allowed at least one year to establish themselves as residents or to

dispose of their holdings by private sale. Lands not so settled upon or disposed of gauge train at Salida for the wonderful are to be sold at auction, after due adclimb over Marshall Pass and through the vertisement under the direction of the

The holder of an irrigation homestead which seemed strangely out of place in a entry proves up on his land after five years in the regular way and completes paying for his water in ten years. In case gone in Colorado. Every brick in it was of sale or relinquishment, another actual settler must take the place of the original entry man on the land and must spend a complete term of five years on the homestead, though, of course, only ten payments in all have to be made on the water rights, no matter how many times it

changes occupants. The reclamation service, besides building the tunnel and constructing the canals to bring the water from the tunnel's mouth over to the Uncompanyre river, has acquired all the important canals and irrigating systems from the Uncompangre. These will be reconstructed this fall and coming winter into one comprehensive and complete irrigation system.

Fruit is the thing these farmers who first project undertaken by the United don't have to depend on rain expect to grow rich on. Marvelous stories are told of the Colorado apples and peaches. But cost Uncle Sam more than \$5,000,000, but it it is not enough to have your water ready

more millions indirectly. The tunnel is to the blossoms. Moreover, the irrigated water 150,000 acres, and perpetual water orchard of Colorado looks very little like rights are to be sold only to actual settlers the old-fashioned orchard of our New who have ton years in which to pay, with- England forefathers, where pigs and catout interest. Multiply 150,000 by \$35 and the tle rooted in the grass and small attention

"Clean cultivation" is what they call the western system. After the first year or two the ground between and under the trees is kept perfectly bare. Not a blade of grass, not a weed is allowed. With that and spraying the eager farmer to be is assured that he can send his fruit to market with the guarantee of not a worm to a carload of apples.

Sugar beets, onions, alfalfa, everything, in fact, except corn, these are some of the crops that can be raised in this once deserted district, but it is the fruit farms that turn out the stories of sales of \$1,300 worth of peaches or \$1,000 worth of pears

to the acre.

SIXES THAT BECOME NINES Novel Device of an Inventor's that Becomes Nearly Perpetual

Is the figure "6" lighter than the figure "9?" Or, to put it in another way, is the figure "9" heavier than the figure "6?" Still again, will figures, so placed on the spokes of a wheel that such figures will be "9s" going down and "6s" going up, keep the aforesaid wheel revolving con

Motion.

tinually without any motive power? These thoughts were extracted from the mind of a man who watched what purports to be a perpetual motion device in full operation. The machine is the invention of W. everything connected with the device in THE OMAHA SUNDAY BEE: SEPTEMBER 19, 1909



"As a clinched I might say that the cab-

Bible in Every Language. proval of the candidacy, the permit to en- bages are onto the fact that we are going State Superintendent Riggs has sent let-According to the 105th report of the British and Foreign Bible society the

use of the tunnel and canals. After leav- of the spokes is a blown glass affair with which it is confidently predicted will light with electricity all the farmhouses which The machine, so called, is guaranteed to man by the General Federation. are expected soon to spring up.

ing the district.

The statement of conditions obtaining in the valley has recently been issued:

Of the 150,000 acres included in the Unmore or less rough, remote and inaccessi- continuously."

from settlement. None of this government land is now open for settlement. None of

line laterals are built to water it. The greatest opportunities in the Uncom- guaranteed remedy. 50c. Sold by Beaton of a candidate for this privilege by the pahgre valley are and will be in the way Drug Co.



"WOLFE'S-COLUMBUS" GMENCE SHOES

for Children

You will note the improvement immediately, because these shoes are built on nature's lines. They insure all five toes abundant room. Give the bones and muscles of the foot a chance to develop and grow. Relieve the strain on the merces and mounted grow. Relieve the strain on the nerves and promote a correct walk and carriage. Be-sides their bealthful qualities and neat appearance. Firstee" Shoes are the most economical, because of their wonderful wearing qualities. Our guarantee: "Good Wear or a New Pair." All first class dealers sell 'em.

The Wolfe Bros. Shoe Co. COLUMBUS, OHIO.

invention will be put. Bu authority of the Board of Dirtcors, The machine is about eighteen inches the education committee of the General consists of thirteen glass spokes running Federation of Women's Clubs makes the are given below. Irrigation is the chief, but not the only from a steel and cork axle, and at the end following announcement:

use of the tunnel and canais. After leaver the figure '9' on it from one point of view, either Oxford, Cambridge or London uniand this will be used for a power plant from another point of view it has the figure versity, for the year beginning October. "6" painted on it.

run as long as the materials in it with- The scholar shall be selected from

tinuously. Back of the wheel is a card which is tion to register. supposed to inform the inquisitive person companyre Valley reclamation project who is wondering why the wheel turns

Some of the people believe the card,

The greater part of the government land others don't, but at least the card is as fiver with whom she has her initial corres-was filed upon as homesteads as soon as near as anyone has come to a true solu- pondence, duplicate copies of credentials possible. it was certain that the canal would be tion of the problem of the little wheel's in regard to her good health, her mental built. The balance has been withdrawn motion .- Chicago Inter-Ocean.

Lifelong Bondage

it will be offered for settlement until high to dyspepsia, liver complaints and kidney Admission to examinations will be altroubles is needless. Electric Bitters is the lowed only upon the written certification leader, her subject to be "The French

national chairman of the General Federation, whose address is given below. This permit will only be issued upon the request of a state federation president or chairman of education. Therefore any college graduate wishing to enter GET YOUR DUDS IN ORDER this competition must first make her can-

Activities of the Organized

Bodies Along the Lines of Un-

dertaking of Concern to Women.

two federation officers of the state whose addresses are given later. If her qualifications are deemed adequate to warrant the great courtesy of examination accorded by the Rhodes Trust, then this officer may formally present her name to the

national chairman of education for a permit to enter the examination. The examinations are given in mathe natics, Latin and Greek. The trustees have decided that any candidate from the United States who passes the qualifying

examination in mathematics and Latin shall be elegible, although he may not pass the examination in Greek. The same rule will be applied to the women candidates for the scholarship. The examinaments regarding the time, place and genof the candidate.

The papers are read and rated at Ox-

contributing state.

ter the examinations is granted upon presentation to Miss Gill. A copy of all credentials should be filed at the same time with Mrs. Potter. Their addresses

Miss Laura Drake Gill, chairman of the

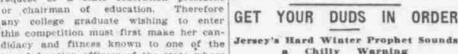
Mrs. Frances Squire Potter, secretary of 1910, will be awarded to an American wo- the Committee of Selection. University of Minnesota, Minneapolls, Minn.

One thing the government is determined stand the erdinary wear and tear. It is among the graduates of American colleges A decided innovation in local Young on, and that is that only real settlers inclosed in a small glass case, put there of good standing. The age of the success- Women's Christian association work was shall come into this newly watered ter- to show that no wires make the device go ful candidate, when she enters upon her the visiting of the stores and office buildritory. As a matter of fact there is now or that no other unseen articles are used scholarship, shall not exceed 27 years, and ings of the city where young women are no land open for free settlement, but the to make the perpetual motion device keep she shall be unmarried. She is expected to employed, by the association's board of control of the water rights gives the fed- its momentum. The giass wheel and the enter either upon undergraduate work for directors last Thursday. The object of the eral authorities the whip hand in regulat- glass blown bulbs with the figure "9" or honors or upon research work in which- visit was a desire on the part of the board "6" painted on them turn to the left con- ever of the above named universities she to personally meet the business men of may arrange with the committee of selec- the city and present to them the work of

the association in its greatly broadened Each candidate competing for the schol- scope as it is to be carried on during nearly 100,000 acres is land which has long without any visible means. It reads as folbelonged to private parties. The other 50,000 acres lies for the most part above the lines of the caula pullt from the Un-ball for the caula pull for the caula the lines of the canals built from the Un- being so much more than the '6' overbal- who are competing for the Cecil Rhodes discussion of them. Wholly inadequate companyre river many years ago and is ances the latter, causing the wheel to turn scholarships. She must also file with the quarters have greatly limited the associaundersigned secretary of the committee of tion's work in the past, and it is not yet selection, and with her state federation of- generally understood how extensive it is

> The Society of tht Fine Arts will open its and normal qualities, her literary and winter's work Thursday, October 7, when scholastic attainments and her promise a meeting will be held at the Public Liof distinction. brary. Mrs. Howard Baldrige will act as

Salons of 1900" and "Artists' Life in Paris." Mrs. Baldrige has spent the summer abroad, much of the time having been passed in Paris. She will return home about October 1.



a Chilly Warning Note.

Columbus Roarty of Greenwood Lake,, a noted New Jersey weather prophet, has thrown a chill into the natives by announcing a hard winter. Before giving out his private tips he was in earnest confab with the corner grocery man. Columbus was inquiring about the market quotations on goloshes and ear muffs, and drove a hard bargain by trading a fat pullet that had stopped laying and set of mosquito acreens for the cold weather protectors.

The prophecies of Columbus Roarty-he refuses to call them prognostications or even predictions-have been accepted for thirty years as only a little in advance tions are to be held October 10 and 20 next, of fact. He is so sure about the weather in every state of our country. Announce- that he always buys his winter supplies in summer and the reverse. Il his propheeral conditions may be obtained from the cles are based on signs from nature. After secretary of any university in the vicinity he had traded with the grocer he gave

"We're going to have a mighty cold winford by official examiners and returned to ter." said Columbus. "Everything points to the national chairman. The committee of a cold fall and riproaring winter. For selection then submits the names of the one thing, have you noticed this season's successful competitors to the state edu-corn. Every ear has grown long whiskers, cation officers, who determine which one and that's a sure sign. The corn seems to of their candidates shall be deemed in have the sense of a Morris county granger scholarship and promise of distinction to in this respect. A wise farmer'll grow a best represent the interests of the state. good crop of whiskers as winter advances. The final selection between the various The harder the winter the longer and State candidates shall rest with the com- thicker the whiskers. The same way with mittee of selection. Any state may sub- the corn, I've never noticed longer breezmit a candidate, but if the choice shall finally rest between a candidate

"You may have noticed too, that the from a state which has contributed toward sunflowers blossomed early. That means the scholarship and a candidate from a that we will have an early frost and early non-contributing state than preference snow. We will have a blizzard of the 1888 shall be given to the candidate from the brand along about the middle of November. Then, look at the apple trees. I

In this state, the application may be can't remember when we had such a pool made to either Mrs. F. H. Cole, 1919 Span- crop. That means that the trees are storcer street, Omaha Neb., or to Miss M. ing up all their sap and energy against

its to have a record-breaking winter. When a ters to all county and city superintendents to have a record-breaking winter. When a man says 'cabbage-head' to mean an ig-noramus he doesn't know what he is talking about, for the cabbages are the talking about, for the cabbages are the wisest of vegetables. Every head of cab- tion to be held in Des Molnes for Novemwisest of vegetables. Every head of cab-bage on my farm this summer is growing thick, tough leaves-and all because they thick tough leaves-and all because they thick because they thick tough leaves-and all because they the touch the to A scholarship of \$1,500, to be held at Education Committee, G. F. W. C., 1325 thick, tough leaves-and all because they been held during the holiday week beare providing warm coverings for the cold tween Christmas and New Year's, and this

one different languages.





