Resources of Yuma County.

YUMA COUNTY.

A white man first set foot on what is one of the four original counties of the Territory. Many great reclamation projects are however on foot, and in a few years expect to see Yuma County rated as the

richest in the Territory. The first glimpse the traveler from California catches of Arizona is that of the picturesque town of Yuma, which is snugly since it is constantly supplying the land with the situated in the embrace of gentle rolling richestfertilizing elements. The soil of the valleys hills, upon whose creats and sides the is extremely rich in denomposed vegetable matter hills, upon whose creats and sides the modern homes of our superior civilization as a superior civiliz Arizona, the new empire of the West, upon | which may be considered a leading feature in its whose undeveloped riches the eyes of the fertility. It also readily takes up and retains rapidity that at present can hardly be re- particles are in a state of very fine division, which alized. But coupled with her geographi- renders it more productive than cearser soils. It cal position we find that she is the center acquiries heat readily in the daytime, and the loss of a country whose agricultural possibili- mains always warm and is not subject to sudden enues to wealth, nor crowd the poor manties are practically unlimited, being sur- changes of heat and cold. Besides its essential con- to the wall. by a soil the fertility of which stituents of water, organic or vegetable matter, exceeds that of the delta of the Nile, and wanting only water to become a paradise of bloom. Billions of gallons of that precious fluid have annually gone to waste at add to its fertility, though, of course, as is always and material elements of the Territory. Yuma's very doors, but already a reaction the case in soil analysis, its composition varies in is taking place and many enterprises are on foot to supply the life-giving waters of the yellow Colorado to the thirsty earth.

RIVERS OF YUMA COUNTY.

In regard to climate, healthfulness, fertility and productiveness of soil, facilities for cultivation, irrigation and abundance of cheap transportation by rail and by water, no part of Arizona can surpass Yuma county, which is destined to become one of We can safely say that the soil of Yuma County ichest and most prosperous counties in Arizona.

It lies between 32° 00' and 34° 28' north latitude and 113° 20' and 114° 40' west longitude. It contains 6,488,320 acres. It is about as large as the States of Rhode Vermont or Massachusetts.

The western boundary of Yuma County is formed by the Colorado river, which separates Arizona from California. The county is bounded on the north by Williams Fork and the Santa Maria river, whose waters flow into the Colorado; on the east Mexico. Its county sent is the town of of the most remunerative character.

The Colorado river drains the entire territory of Arizona, and every drop of water which falls on its mountains and plains on the continent. It is formed of the detritus

Yuma county, traversed by these great than any other county in the Territory, are covered with snow and ice. and far more than can be found in all Califernia.

immense tracts of lands which lie in this cach year, Every variety of vegetable raised is as any in the world.

outlet in this way and can be transported they found the Pima Indians wearing fabrics to all the markets and centers of population made of cotton grown in the Gila valley. in the East or West.

have e receptional railroad advantages.

and August, the heat is not oppressive.

every advantage to the production and curing of the thermometer in mid-sumthis staple article or the commerce. mer may at times rise above 100°, and oc- "Betides the fruits already mentioned, the or casionally even reach 110°, yet, owing to the absence of moisture in the air, it is not fully in the valleys of Southern Arizona. Orange oppressive. The atmosphere is pure, light trees are now in bearing in the Salt River valley and balmy. When the mercury marks the and at Yuons; while the bananas is also being culhighest extreme of heat, a person does not tivated at the latter place. The Arizona orange in pletion of two transcontinental lines of railroad across her territory—Arizona has feel that oppression or debility which is feit in the Eastern States when the mercury is ranging from 80° to 90°. The air is no dry that perspiration is absorbed as soon as it reaches the surface of the body, and this broad Union can be found a more desirable of an analysis of this broad Union can be found a more desirable of the parameter which and a force of moral character which recipo for the making of a home. No laborious produce any discomfort.

ready for the ploy. Trees and strubbery have so
LANDS AND SOILS.

The lands of Youn County comprise the reserved. The lands of Youn County comprise the reserved which would require years to mature in less favored with a tractions which would require years to mature in less favored over them. The city of Tucson, and which would require years to mature in less favored over them it is not by any means at preserved. which would require years to mature in less favored bottom and are moister and slightly mere fertile, if, indeed, it is possible to make comarinations whereall are so wonderfully productive and prolific. The uplands or means are warmer and, perhaps, slightly better for the cultivation of the culti

o the Gila and Colorado rivers have for the most part a deep sedimentary soil of brownish, gray sandy learn, resting, in most places, upon a gray clay subsoil at a depth of from ien to twenty feet permanent returns." below the surface. The clay subsoil forms a hard-pan which is impervious to water. These soils have sandstones, marks limestones, etc., mixed with ornighty rivers and have been gradually deposited during the course of conturies. The fertilizing its quantity varies from 0.1 to 0.5 per cent., can be produced in either tropic or temperate zone, though the water when even considerably discolor- will thrive in its rich and fertile suits. now Yuma County in 1771. It is the | ad by mud is good to drink, resembling in this res- WHY EMMIGRANTS SHOULD COME TO YUMA southwest division of the Territory, and of the sediments of the Colorado and of the Nile exhibits a wonderful similarity in the constituent parts of each. That of the Colorado exhibiting a triffe less potassa, most phosphoric acid and cur bonade of limestome beds through which the Colo rado passes. In other respects the sediment of the Colorade is almost identical with that of the Nile. labor. It will be noticed, therefore, that when this water is used for irrigation it is superior to artesian waters | can be grown. are crowding the adobe dwellings into tering the soil, decomposes the organic matters so eternal oblivion. Yuma is the gateway to that they can be taken up and nourish the plants which he can never hope to find in older whose undeveloped riches the eyes of the moisture, while the firmness of its particles affords because the country is advocatery are at present turned, and as such, overviacility for percelation and the activity of property values are increasing. she is bound to grow and prosper with a capillary action. In its mechanical composition its

different localities and is not always constant. more gravelly and in some places of a free, loamy, will soon be gone. calcareous character. The mesa lands are warm and generous. They seem especially adapted for the graps, elive and citrus fruits generally. Their soil regions of the United States that yields the ttom lands. It never cracks and retains moisture | zones. admirably in summer. It is of that character which will produce a wine that will keep good for fifty or water supply, variety of resources and a hundred years, and improve annually, not being liable to sour, or on exposure to the air, after one spear old, to become turbid and change color in the terprise. bottle or glass.

can nowhere be surpassed, containing as it does all

FRUIT CULTURE.

Fruit production throughout Arizona is a subdoubt, be the principal industry in Yuma County. up a great and prosperous county. Island, Connecticut and Delaware com- The remarkable results that have sprung from Island, Connecticut and Delaware com-bined, or as large as either New Hampshire, very superficial and imperfect culture has de-with less labor than in any other part of the y supernova and major and elimate of Yuma United States. County are poculiarly adapted for this branch of agricultural enterprise. The development of these resources is of the utmost importance and is attracting careful attention. Experiments have been made, with care, and facts in regard to the culture of different kinds of fruits have been collected which cannot fail to convince, even the most skeptical, of the wonderful superiority of Yuma County by the counties of Pima, Maricopa and over Southern California in fruit growing, and Yavapai, and on the south by Sonora, which must lead to a large and varied production,

The Commissioner of Immigration in his report, published in 1886, writes as follows of the rich valleys of the Gila, Colorado and Ealt rivers. "The soil of these valleys is among the riches

finds its way to this mighty river. It is which the streams for ages have brought down formed by the union of the Green and Grand rivers, fed by the streams which see. Ey constant overflows and change of channel, the deposit of this rich vegetable matter has formrise in the Rocky Mountains, and the melt- ed a soil of extreme fertility. Near the streams it ing snows cause a greater depth of water is a dark alluvial mold, well adapted to small in this river in summer than in winter, thus grains and grasses. Farther back there is a rich furnishing the most water at the season sandy loam, mellow and porous, and especially favorable for fruit culture. It has been already when it is most required for the purposes demonstrated that the productive capacity of these returns on money invested.

A firelation and agriculture.

In the purposes demonstrated that the productive capacity of these valleys is not surpassed by lamis of equal area in It will be seen that for the entire distance any part of the United States. So rapid and prolific developed. along its western boundary. Yuma County is the growth of the fruits, cereals and regetables of New Mexico and is fed by numerous streams, among the most prominent of which are the San Pedro, Agua Fria, Hassayampa and Salt rivers. It flows west through Yuma County and empties into the Colorado at the town of Yuma. bered, is nearly perpetual summer. Snow never falls in these southern vallova. The farmer begins lands that can be utilized by the sinking of nated by the field notes an official part of the state of the sinking of nated by the field notes an official part of the state of the sinking of nated by the field notes an official part of the state of the sinking of nated by the field notes and official part of the state of the sinking of nated by the field notes and official part of the state of the sinking of nated by the field notes and official part of the state of the state of the sinking of nated by the field notes and official part of the state of rivers from its northern to its southern, his harvest is ready. Roses are in bloom, fruit and from its eastern to its western bound trees are blossoming, and the grain fields are a sea aries, possesses a far greater water supply of green, when the fields of the Eastern farmers munities.

zones can be produced in the valleys of Arizona. This water is now being diverted from its Wheat, corn barley, oats and all the small grains natural chaunels by means of numerous give a yield of from twenty-live to fifty bushels to large irrigating canals, and utilized for the purpose of reclaiming and irrigating the immerse tracts of lands which lie in this favored country, and which are as fertile the United States can be grown in Arizona, and

nowhere are they found of better quality. The Southern Pacific Railroad crosses the tropical vallers produce cotton, sugar-cane, to-Colorado river at the town of Yuma and bacco, home and rice. With the exception of the runs through the county, following the sugar-cane, but little attention is paid to the cultigenerol course, and at an average distance of about four miles south, of the Gila river, rendering all the lands susceptible of irri-experiment in Arizona, for it is on record that rendering all the lands susceptible of irri-gation and cultivation, can find an easy when the Europeans first penetrated this region, her people, while the cumulative effect of

"But it is their adaptability for fruit culture that assures to these valley lands a deuse popula-Another competing railroad is projected tion and a prosperous future. Almost every varfrom San Diego, California, to the town of Yuma, and thence along the north side apple, pear, plum, peach, apricot, quince and use of the Gila river. Thus Yuma County will take a rous yield. The grape of all varieties is at home is a scramble for franchises. Nothing more From San Diego, California, to the town lety known can be raised in their fruitful soils. Thu THE CLIMATE OF YUMA.

The climate of Yuma for sine months of the year has no equal, as we believe, in the world, and during the remaining three and unsurposed by any native product as a table months of the year, comprising June, July beverage. Experiments with the raisin grape period which every western state has experiments of the year, comprising June, July have shown that this climate and soil possess period which every western state has experiments with the raisin grape period which every western state has experiments with the raisin grape period which every western state has experiments with the raisin grape period which every western state has experiments with the raisin grape period which every western state has experiments with the raisin grape period which every western state has experiments with the raisin grape period which every western state has experiments and soil possess.

at no time in the summer does the heat clearing of the land is required; it lies almost The population of Arizona is Mexican.

The foregoing statements are not exaggerated been slowly formed by the decomposition of shales, deriul land. Pineapples, dates, almosds and walnuts will do well. Strawberries, raspberries, black ganic and vegetable matter, washed down by the berries, currants, gooseberries, and all varieties of small fruits can be successfully cultivated. Indeed, Yuma County is not only the natural home of the citrus and semi-tropical fruits, as almost every and Gila rivers resembles that from the Nile, and fruit, nut, plant, grain, grass or vegetable which

COUNTY.

Because the climate is perfect. Pecause the soil is fertile and prolific. Because land is abundant and cheap.

Because a home can be made with little Because so great a variety of products

Decause the yield is large and the price

always remunerative. Because life is a luxury in a land when

Because there are chances for a poor man

Because, unlike Southern California it does not require a small fortune to secure a

Because the country is advancing and

Because capital does not block all the av-

Because Uncle Sam has yet many farms

Because good land is becoming scarce, and The soil of the uplands, or messs, is lighter and if you don't catch on now, your last chance Because the country is one of the few

ntains more magnesia, lime or chalk than the products of the temperate and semi-tropic Because the worker receives a fair com-

pensation for his labor, and the 'rustler' has a field for the display of his energy and en-

Because there are neither blizzards or tornadoes, earthquakes nor inundations snow-storms nor cyclones.

Because the vast and varied resources the country are yet to be developed.

Because the wealth of its mines, its farm ject of great interest at present, and will no ing valleys, and grazing lands, will yet build

> Because there is health in every breeze and strength and vigor smeler its cloudle

> Because the settler need not spend a life-time in felling trees and grubbing out Because vegetation is so rapid that in two

> years the home is surrounded by a growth of trees and shrubs which would require five years to develop in a colder clime.
>
> Because fortunes here await the ventur me, and health welcomes the afflicted.

> Because the country has a brilliant future and you want to be in the "swim." Because in its pure, dry invigorating air, epidemic diseases cannot live or germinate. Because its people are generous, liberal, hospitable and progressive.

WHY CAPITAL SHOULD SEEK YUMA COUNTY Because its mines are the richest. Because its grazing lands are the best. Because its farming lands are valuable an

productive. Because it gives assurance of the largest

Because it is a young, growing county with an assured future.

Because there are many openings in a new country which cannot exist in older com-

Because property values are rapidly ad-

Because Arizona's boom is yet to come.
Because it is a virgin field, ready for the
seed which will produce a golden harvest. ARIZONA.

Arizona stands at the threshold of ar era of wonderful social and industrial development. There can't be a doubt about the fact. The dawn for which she has many things, which made but small im-pression as they transpired singly, is now commanding for her a full share of attention and interest abroad among home-

seekers and capitalists.

Arizona has reached that climactice period which every western state has exafter long and weary struggle and doubt, with each side of the balance first up and then down, the clouds of despondency have suddenly rolled away, and a sunturst of energizing hope has thrilled the drooping spirits of the people to greater and braver endeavor than before.

For the last twelve years the subsidence

APPLICATION FOR A PATENT-NO. 636.

U. S. Land Office, Tueson, Ariz., December 22, 1894. Notice is hereby given that Charles W. Prange. vhose postoffice address is Harrisburg, Arizona has filed his application for a patent for fifteen hundred linear feet of the Ophir mine or vein bearing gold and silver, with surface ground six bundred feet in width, situated in Ellsworth Mining district, county of Maricopa and Territory of Arizona and designeted by the field notes and official plat on file in this office, as survey No. 1142, said survey No. 1142 being described as follows, to

Beginning at Corner No. 1, I. M., identical with corner No. 1 of the location, a redwood post marked 1--1142, U. S. L. M. No. 1142 bears S. 41 deg. 20 Thence S. 27 deg. min. 30 W., 300 feet to Corner

No. 2, a redwood post marked 2-1142, Thence N. 52 deg. 30 min. W., 1500 feet to corne

o. 3, a redwood post marked 3 -- 1142. Thence N. 37 deg. 30 min. E., 300 feet to Corne No. 4, a redwood post marked 4—1142. Thence N. 37 deg. 30 min E., 273.8 feet to Corne

No. 5, a redwood.post marked 5--1142. Thence S. 53 dag. 30 min. E., 1500,88 feet to Corne No. 6, a redwood post marked 6-1142.

Thence S. 37 deg. 33 min. W., 300 feet to corne No. 1, I. M., the place of beginning. Magnetic variation 13 deg. 30 min. E., contaînin

20,21 acres. The location of this mine is recorded in the scorder's office of Maricopa county, in Book No. 5 page 436 of mining claims.

There are no adjoining claimants excepting owner of Sunrise mining claim on the Northeast, Any and all persons claiming adversely any por tion of said Ophir mine or surface ground, are re quired to file their adverse claims with the Registe of the United States Land Office at Tucson, Pins county, Arizona, during the sixty days period of oublication hereo', or they will be barred by virtue of the provisions of the statute.

EUGENE J. TRIPPEL, Register. DAMRONA CRENSHAW, Attorneys for Claimant

(First Insertion Doc. 1st, 1894.)

Mining Application No. 633.

U. S. LAND OFFICE, TUCSON, ARIZ., whose post-office address is Harrisburg, Arizon has made application for a patent for fifteen hund red linear feet of the U.S. Grant mine or vein bear ng gold and silver, situate in Ellsworth Mining District, Maricopa County, Arizona, and described in the official plat and field notes on file in this office

Beginning at cor. No. 1, L. M., identical with orner No. 1 of the location; a redwood post 4 in quare, 41 ft. long, set 11 ft. in the ground, sur rounded with a mound of stone, and marked 1-1144. U. S. L. M. No. 1142 bears S. 8 deg. 50 min E., 1095.2 ft. Thence N. 37 deg. 30 min. E. 300 ft to corner No. 2. identical with cor. No. 2 of location a redwood post 4 in, square, 41 ft, long, sot 11 ft in the ground, surrounded with a mound of stone and marked 2-11:4. Thence N. 52 deg. 30 min. W 1500 ft to cor. No. 3, identical with cor. No. 3 of the cation, a redweed post 4 in. square 41 ft. long 9 min. W., 300 ft. to cer. No. 4, identical with Cor. No. 4 of the location, a redwood post 4 in square, 43 ft long, set 13 ft. in the ground, sur rounded with a mound of stone and marked 4-1144. Thence S. 37 deg. 30 min. W. 350 ft. to cor No. 5, identical with Cor. No. 5 of the location, wood post, 4 in. square, 41 ft. long, set 11 ft. in the ground and surrounded with a mound of stone and marked 5--1144. Corner No. 5 of survey No. 1142 bears S, 37 deg, 30 min. W., 26.2 feet. Thence S 52 deg. 30 min. E. 1500 ft. to cor. No. 6, identical with Cor. No. 6 of the location, and also identical with Cor. No. 6 of survey No. 1142., a redwood post 4 in. square, 41 feet long, set 11 ft. in the ground, surrounded with a amound of stone, and marked 6-1144. This post is also marked 6-1142. Thence N. 37 deg. 30 min. E., 300 ft. to Cor. No.

1, 1. M., the place of beginning. Containing 20.46 acres. Magnetic variation 13 deg, 30 min. E.

The location of this Mine is recorded in the Reorders office of Maricopa county, Arizona on page 40 and amended location on page 141 of Book No. 8 of Mining Chaims. Adjoining chaimants are the Ophir mine, survey No. 1142, on the south and the Samelse mine, survey No. 1143 on the south and the Samelse mine, survey No. 1143 on the southeast.

All persons holding adverse claims thereto are required to present the same before this office within sixty days from the first day of publication hereof, or they will be barred by virtue of the provisions of the status. isions of the statut EUGENE J. TRIPPEL, Register.
DAMBON & CRENSHAW, Attorneys for Chiman

APPLICATION FOR A PATENT .- NO. 637

U. S. LAND OFFICE, Tucson, Ariz., December 22, 1894. Notice is hereby given that Charles W. Prange, whose postoffice address is Harrisburg, Arizo a has filed his application for a patent for fifteen bundred linear feet of the Sunrise mine or vein, bearing gold and silver, with surface ground six this office as Survey No. 1143, said Survey No. 1145 being described as follows, to-wit:

Beginning at corner No. 1, I. M. identical with are covered with snow and ice.

Every variety of grains, grasses, fruits and vegetables grown in the temperate and semi-tropic fruits are better than in any other part of the United States.

Because the opportunities for engaging in corner No. 1 of the location, and also identical with corner No. 1, I, M. of survey No. 1142, a red-with corner No. 1, I, M. of survey No. 1142, a red-with corner No. 1 of the location, and also identical with corner No. 1, I, M. of survey No. 1142, a red-with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1. M. Indentical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location, and also identical with corner No. 1 of the location with corner No. 1 of the loc side 1-1142, U. S. F. M. No. 1142 bears S., 41 deg. 20 min. E. 807,5 feet. Thence S, 9 deg. 15 min. E. 300 feet to corne

io. 2; a redwood post marked 2-1143 Thence N. 80 deg. 45 min. E., 1500 feet to corne No. 3, a redwood post marked 5-1143.

Thence N. 9 deg. 15 min. W., 800 feet to Corne No. 4, a redwood post marked 4--1143. Thence N. 9 deg 15 min. W., 200 feet to corn No. 5, a redwood post marked 5--1143.

Thence S. 80 deg. 45 min. W., 1500 feet to corne No. 6, a redwood post marked 6-1143, Thence S. 9 deg, 15 min. R., 300 feet to corner No I. L. M., the place of beginning. Magnetic variation 13 deg. 30 min. E.; containing

19.77 acres, exclusive of Survey No. 1142. The location of this mine is recorded in the Recorder's office of Maricopa County, Arizona, in Book No 5, page 435 of Mining claims. There are no other claimants adjoining excepting

the owner of Ophir mining claim on the northwest Any and all persons claiming adversely any por tion of said Sunrise mine or surface ground, are gister of the United States Land Office at Tucson, Pima County, Arizona, during the sixty days period of publication hereof, or they will be barred by virtue of the pravisions of the Statute.
EUGENE J. TRIPPEL, Register.
DAMRON & CRENSHAW; Attorneys for Claimant

> 1st Insertion Feb. 9th, 1895. NOTICE.

TERRITORY OF ARIZONA, | 88. County of Yuma

To W. J. Oswald:—
You are hereby notified that I have expended Nine Hundred (\$900.00) Dollars in labor and improvements upon the Northern Bell Mining Claim, in Knoxville Mining District Yuwa County, Arizona Territory, being the amount required to hold said premises for the years ending respectively, January 1st, 1887; January 1st, 1888; January 1st, 1889; January 1st, 1890; January 1st, 1891; January 1st, 1892; January 1st, 1893; January 1st, 1894 and January 1st, 1895 under the provisions of section 2324, Revised Statute of the United States. And if within ninety (90) days from publication hereof, you fail or refuse to contribute your proportion of such ex-



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THE ARIZONA SENTINEL

Published Weekly in Yuma, is one of oldest and most reliable newspapers of Arizona, devoted to the progress of the Territory in general and Yuma County in particular.

Loyal! Active! Liberal! Courteous!

Its columns will be devoted to fruit growing, farming minng, stock raising, irrigation and the opening

up, settlement and development of the

vast region of grand country that lies in Southern Arizona and its

> surrounding country.

AT IS ONE OF THE OLDEST PAPERS IN THE Territory.

It is the OLDEST and has the LARGEST CHRCULATION

The Latest and Most Reliable News Al-INDEPENDENT IN ALL THINGS,

NEUTRAL IN NOTHING. ITS POLICY IS SURE TO PLEASE ALL FAIR MINDED READERS

The oldest and most influential; the largest and best weekly paper in Western Arizona, especially adapted to the needs of those who wish any information in regard to the valley of the Colorado, the Nile of the West. It presents both sides of all matters pertaining to the public interest. It has no enemies to punish, no friends to pet, but treats all alike fair and truthful.

"With Charity for all and Malice toward None."

Subscribe for the SENTINEL, and keep posted as to what is going on in Yuma County, one of the most favored sections of Arizona.

ONLY \$3 PER YEAR. SAMPLE COPIES FREE. J W. DORRINGTON

Yuma, Arizona.

JOB PRINTING

Every Description,

Yuma's Climate.

Weather Observer A. Ashenberger furnishes us with the following important facts relative to the climate, rainfall and weather at Yuma.

The following data from the records of the U. S. weather Bureau are from observations taken for periods ranging from five to twenty years and are published by request of the Hen. Mayor of Yuma;

Mean actual barometer.-Yuma, 29.76 thes; Denver, Col., 24.73 inches. Mean annual temperature. - Yuma, 73°; piter, Fla., 73°. Mean maximum temperature during month of July.—Yuma, 106.6°; iPhoenix,

Mean minimum temperature during month of July.—Yuma, 77°; Galveston, Tex., 79°.

Mean minimum temperature during month of January.—Yuma, 42°; Tueson, 35°; Phoenix, 32°. Highest temperature recorded.—Yuma, 118°; Phoenix, 119°; Fort Lapwai, Idaho,

Lowest temperature recorded.—Yuma, 22°; Riverside, Cal. (Voluntary observer's record.), 21°; Jacksonville, Fla., 15°; Galveston, Tex., 11°. Mean relative humidity.—Yuma, 44%. San Diego, Cal., 75%; Chicago, 74%; Pen-sacola, Fla., 76%; Port Angeles, Wash.

Mean annual rainfall .- Yuma, 3 inches;

Mean annual rainfall.—Yuma, 3 inches; Tucson, 13 inches; Jacksonville, Fla., 55 inches; New Orleans, La., 62 inches; Neah Bay, Wash., 162 inches.

Average annual number of rainy days.—Yuma, 14; Tucson 49; St. Louis, 115; Washington, D. C., 126; New York, 126; Baltimore, 133; Chicago, 136; Cincinnati, 141; Atlanta, Ga., 141; Rochester, N. Y., 171; Tatoosh Island, Wash., 186.

Average annual number of cloudy days.—Yuma, 17; Sacramento, Cal., 45; Oswego, Yuma, 17; Sacramento, Cal., 45; Oswego,

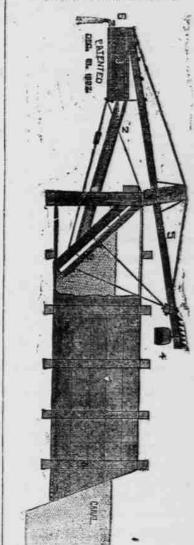
Average annual number of partly cloudy days.—Yuma, 69; Sacramento, Cal., 76; Oswego, N. Y., 124. Average annual number of clear days.— Yuma, 279; Portland, Ore., 92; Oswego, N.

N. Y., 173.

Average hourly wind velocity.—Yuma, 6 miles; Dodge City, Kan., 12 miles; Sandusky, O., 13 miles. Highest wind velocity recorded .-- Yuma, 54 miles; San Francisco, Cal., 60 miles.

NORTON'S Automatic Water Gate

TO PREVENT OVERFLOW IN



Irrigating canals. 1) itches and Reservoirs.

The above ch; illustrates an AUTOMATIC WATER GATE, to regulate and keep in subjection the rise of water in canal, the to an over-abundant flow, or to sudden rises in the canal owing to ant flow, or to sudden rises in the canal owing to severe rains or storms.

It is particularly valuable to have such a Water Gate placed in lower bank of canal, at such points along its line Where there are Bayines, Gullies, Arroyce, Foot Hills, Buttes, or Tableland, as any rains or storms bring down at such points a surplus of water that is very dangerous to the banks of canal. The Waste Gate, however, will prevent such damage, at it is

SELF-ACTING AND A PERFECT SAFETY VALVE

SELF-ACTING AND A PERFECT SAFETY VALVE
Relieving the canal, at short intervals, of its surplus water, thus preventing the washing away of banks, and causing great damage generally, no alone to canal, but property owners all along the line, who may suffer more or less damages there after for the want of water owing to the damaged condition of capal, and while such repair, are being made. Not only is it valuable to relieve canal of its actiputs water, to prevent damage and expense, but by its use the first cost of canal construction will be materially lessened, as the banks need not be made so high or wide.

The device is extremely simple, and comparatively linespensive. Its plan of operation is this:
There is a pipe fastened to an opening in the vertical gate, 1. When the body of water rises to the level of the upper end of pipe, 2, water rune freely into the tank, 3, which is immediately filled, thus overbalancing the weight, 4, which is on the other end of lever, 5, thus forcing open the gate, which suddenly relieves the canal of a large surpius of water. When body of water recedes below a certain level, no more water is admitted to the tank; therefore empties itself by a small faucest opening, 8, at the bottom; this being done, the weight overbalances tank, and brings down the lever, which, being rigid to the swinging gate, closes it. This operation continues at short intervals, 80 long as the body of water keeps rising over a certain level. The lever, gate, pipe and tank are all rigid, and hinge, or pivot, on a horizontal shaft. The gate, flume or bex can be made any height, width, or length desired. The gate can be hinged between any builthead without hox.

The Water Gate is a Perfect Safety Valve, and is to a body of water what a satety-ralve is to steam. They can be made any airs, exercing with

C. W. BARNHART.

SAN FRANCISCO, CAL. Please write for price list and further information giving length, top and boltom dimensions of canal. All plans and specifications farnished with every