

### Plowing by Steam.

The most extensive use of steam power for plowing is now in use on the Kerr ranch at Alessandro, in San Jacinto Valley, Riverside county. As there is talk that this immense steam plow will be taken to the Imperial Settlements during the coming year, a reference to the same that appeared in the Los Angeles Times will be of interest to our readers:

"Herewith is presented the picture of an immense steam plow in operation upon the ranch of Kerr & Kerr in the Perris Valley, in Riverside county. Farming is conducted upon a large and economic scale in many portions of Southern California, but in no locality has modern steam machinery been applied with such effectiveness and dispatch as upon the 8000-acre grain ranch of Kerr & Kerr at Alessandro.

"The engine used to draw this machinery has the power of fifty horses. The drive wheels are each eight feet high and the bearing surface forty-two inches wide. It consumes ten barrels of oil every twelve hours, its operation requiring the services of seven men, including blacksmith, cook and water haulers. Three men are with the engine to manage it and regulate the plows, running at the rate of three miles an hour. Each time in crossing the field fifty-five furrows are turned, eight inches wide and about four inches deep, covering a breadth of forty feet and six inches. This large machine requires eight horses to keep it supplied with water and fuel.

"From these figures it will be seen

is at work this season near Covina, displacing the work of seventy mules and doing the work in a most satisfactory manner upon a grain farm of 4000 acres. It will be seen from these figures that Southern California's achievements are great in farming operations, and that agriculture is second only to horticulture in the advancement of the material interests of this portion of the State. The operations in the Perris Valley are the most extensive and interesting of all, the remarkable character of the work attracting the attention of all who are interested in agricultural pursuits. The engine used on the Kerr ranch is manufactured by Daniel Best at San Leandro, Cal."

### A Big Reservoir.

The Union Water Company of Anaheim and Fullerton has taken steps to greatly increase its supply by constructing one of the largest reservoirs in Southern California. As these two localities, including the rich Placentia country, have rapidly settled up, there has for some seasons been a shortage of water during the summer, when it is most needed. The company has purchased near Yorba, just below the main irrigation canal and above the branch ditch running to Anaheim, one of the finest natural reservoir sites in the State. It cost \$7000 for the 100 acres. The big dam will cost \$20,000, the inlet \$600 and the outlet about \$16,000, but the latter will do away with two miles of sand ditch and old flumes, the replacing alone of which would cost \$6000. The outlet will have a carrying capacity of 700 inches, and will be constructed of

and gravel is mixed in about the proper proportions to make a good bond.

During the past few years this water company has spent between \$75,000 and \$100,000 cementing its ditches. It looks expensive, but pays in the long run, as much water is saved from seepage, and the cement ditches will never have to be replaced by the present stockholders of the corporation. There are 8000 shares in the company and no stockholder has been found who opposes the new reservoir.

As soon as possible the head of the main canal is to be extended from its present intake, below Rincon in Riverside county, up to the river to what is known as the "Narrows," a distance of 4000 feet. It is estimated that this will further increase the supply between 150 and 200 inches. This will give the company an additional 100 inches. The 4000 feet will be cemented and will cost about \$8000. The Santa Ana Valley Irrigation Company will pay half of the expenses, as it will get half of the water developed by the improvement.

The Anaheim-Fullerton Company is now expending \$10,000 in needed improvements on its main canal at Horseshoe Bend and will spend another \$5000 in ditch cleaning and repairs next month.—L. A. Times.

The Anaheim Union Water Company has a good water system and is proposing to make a fine reservoir that will be worth many times its cost, but it is not one of the largest reservoirs in Southern California. It will only hold about 1200 acre feet,

Suppose Maywood Colony had stopped with one advertisement? They would not have had a single settler. If Foster & Woodson had stopped with \$25,000 spent in advertising there would have been no Maywood Colony. If Los Angeles had stopped at a million, then Los Angeles would not now have been the Mecca of eastern tourists. We are met on all sides here with the question—"what's the use?"—Colusa Sun.

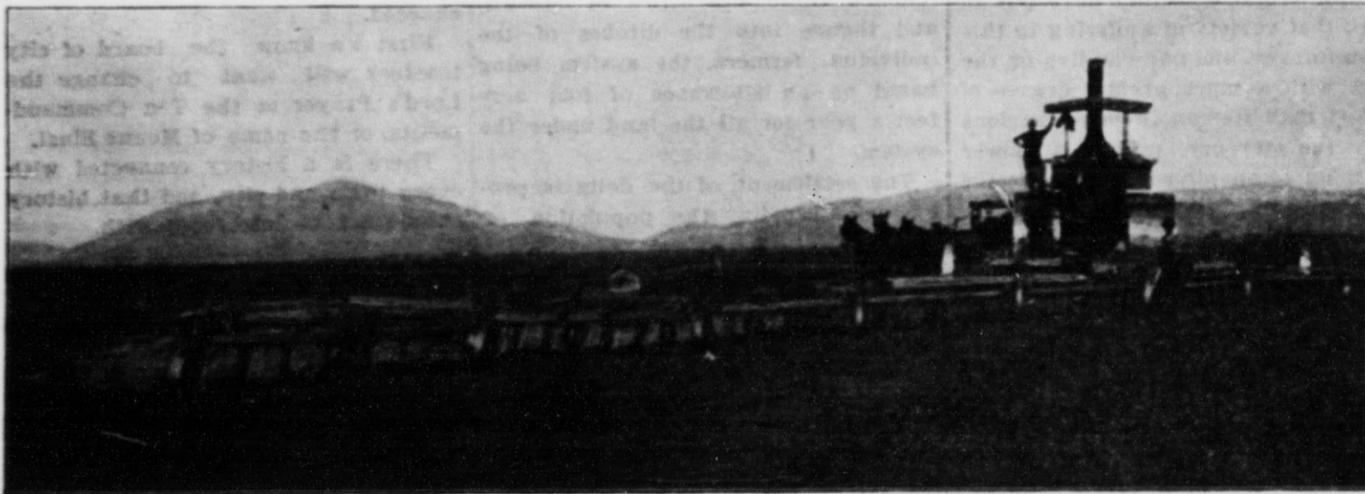
Advertising pays. Occasionally a business can be successfully run by little advertising, and then, again, it requires a large amount to be spent in printer's ink.

The land and water rights under the Imperial Canal system came under the first-named class. But little money has been spent—comparatively speaking—in advertising this section of country. It has advertised itself. Water rights and land have been sold that are worth in the markets today over \$2,000,000, and the sales are being made at the rate of 10,000 acres per month—more rapidly than the companies can construct the distributing ditches to deliver the water. However, the company at present are doing practically no advertising.

A new company has taken possession of the Lake View property in Riverside county, and has changed the name of the town to Algoton, says the Hemet News. This is the enterprise built up by Frank E. Brown of Bear Valley fame, who evidently retires from business in that locality.

If you have friends coming to California or you are going East this winter, 'twill be found profitable before arrangements are made for the trip, to consider the merits of the new Fast Service just inaugurated by the "Greater Union Pacific Railroad." This line has been practically rebuilt during the past two years and the train service is second to none on the American Continent. This month sees the inauguration of a new time schedule—three fast express trains—to and from California, equipped with Pullman modern wide vestibule palace sleepers, Tourist sleepers, dining, buffet and chair cars, everything up-to-date.

If you are interested or would like to have your friends in the East receive fuller particulars regarding this new service, write Geo. Lang, General Agent Union Pacific R. R., 250 South Spring street, Los Angeles, who will take pleasure in answering your inquiry.



KERR'S STEAM PLOW AT WORK AT ALESSANDRO, EAST OF RIVERSIDE. FIFTY-THREE PLOWS IN THE GANG. PLOWING CAPACITY ABOUT 125 ACRES PER DAY.

that a territory may be plowed every day in proportion to the force employed and the efficiency of the implements in use. The best record made so far, when all conditions were favorable, is seventy-five acres in four hours and forty minutes. To do this the machine was not slowed down, nor stopped during the run. The "land" was five miles around, giving this great engine a straight-away gait with but few turns in making the record. In operating this plow to the best advantage a water station is maintained at one corner of the field, from which the engine is supplied as needed. The average capacity of the machine is the plowing of 110 acres per day, and it is no small farm that would justify the use of a plow of this capacity.

"The Kerrs' farm contains 8000 acres, and should the engine be driven at its regular gait it would require nearly five hours to cross the field at its greatest length. The use of this machine is not an experiment. Last year 6000 acres were harvested by this labor-saving machine. Could this be used on small grain farms to advantage? Mr. Kerr says it could not. On ranches of over 1000 acres each it would be an economic proposition, but it would consume too much time and energy in turning this great engine to be successful upon a smaller acreage of land.

"For last season a combined harvester was drawn by the engine and averaged over 100 acres of wheat in a day, cutting, thrashing and sacking the crop in first-class style. It has an average capacity of 2000 sacks per day, and with it the owner can harvest his increased acreage next summer in a style worthy of a great farmer. One of these great field engines

is at work this season near Covina, displacing the work of seventy mules and doing the work in a most satisfactory manner upon a grain farm of 4000 acres. It will be seen from these figures that Southern California's achievements are great in farming operations, and that agriculture is second only to horticulture in the advancement of the material interests of this portion of the State. The operations in the Perris Valley are the most extensive and interesting of all, the remarkable character of the work attracting the attention of all who are interested in agricultural pursuits. The engine used on the Kerr ranch is manufactured by Daniel Best at San Leandro, Cal."

Water will be stored in the big reservoir in the winter and the run from it will begin about June. It will supply Anaheim with 600 inches of day water, twelve hours daily for 100 days. In summer this quantity of water is worth \$8500 for the 100 days. Water sales in the Anaheim end of the district now foot up annually \$8000, this being for both day and night, but the reservoir will do away with night water runs, and the water Anaheim now receives will sell for \$10,000, being a net gain of \$2000, which will pay the interest on the cost of the reservoir. Water can be stored in the reservoir so that Anaheim irrigators can get double that now used when they desire it, and the "Mother Colony" can grow all sorts of things. All the water comes down the main canal to a point above Yorba, the head of the Anaheim branch ditch. The main canal goes on to Placentia and Fullerton. Giving Anaheim the stored water will increase the Fullerton-Placentia supply from about 300 to 500 inches of day water, 100 days, when most needed.

The capacity of the new reservoir will be 51,392,762 cubic feet. Deducting 20 per cent. for evaporation and seepage during the periods of exposure, according to a late survey just made by the company's engineer, H. Clay Kellogg, the reservoir will supply 793 inches of water for sixty days, twelve hours a day, without refilling. There is abundant building material for an earth dam immediately adjoining the reservoir site. The clay, sand

while Bear Valley reservoir holds 60,000 acre feet. Hemet reservoir holds 9000 acre feet; Escondido reservoir—the smallest storage reservoir in Southern California—holds 4700 acre feet, and the new Lower Otay reservoir in San Diego county holds 42,137 acre feet. Large reservoirs cost money and they are generally worth more than they cost.

Los Angeles is having trouble just now over religion in the public schools. Some Christmas carols were given out for the children to learn in which the praises of the infant Jesus are very pronounced. Some Jews objected, and hence there is a discussion. The law says that there shall be no religion taught, and it is very evident that there is none taught as a rule, for the percentage of Christian people is not on the increase.—Colusa Sun.

It would be an impossibility for teachers to keep the Christian religion out of the schools, for every time a date is written Christ's position in the Christian world is recognized. This year is Anno Domini—the year of our Lord—1901, and the fact that Christ was born 1901 years ago is recognized. Every time a Jew or Gentile signs a check, he recognizes the existence of Christ as being at the head of the Christian religion in the date line.

The amount of gold coin in actual circulation in the world is estimated by the Bank of England officials to be about 865 tons.

## Imperial Telephone Company

A. G. WALIN, Manager

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