## The McCook Fribune.

By F. M. KIMMELL.

#### IRRIGATION IN NEBRASKA

It is absolutely essential to the ox- farmer and the homesteader. istence of agriculture in a part of The character of these counties conditions of agriculture and the and its people. under cultivation.

manding importance deserves.

It is in this large territory that orado, and has precisely similar tion of one or the other of these the people of Nebraska may make connections to deal with.

a thorough test of irrigation as a It was the good fortune of Colo- In describing local enterprises, in means of rendering agriculture as rado to be so hopelessly rainless contemplation or actually underprosperous and as staple as any that its people perfectly under- way, this branch of the subject ALL HOME PRINT. other human pursuit. To put it stood that irrigation was a necessi- will be more fully discussed with stronger, it is here that the test ty. Next to having plenty of rain direct application to localities. must be made in order to prevent the great blessing is to have none, the retrogradation of the country apparently, for then no valuable upon the artesian method, which is The greatest single problem that back to wild prairie, or mere graz- time is wasted in waiting for im- perfectly understood and remains concerns the development of Ne- ing grounds-in order to prevent possibilities to transpire and no- only to be determined, with regard braska is the problem of irrigation. the cowboy from driving out the body goes to work under false pre- to particular districts, by skillful tenses.

terest capital and carry the grand fiend should lose himself back of Gunnison valley.

It is no easy matter to exactly to justify the publication of a work Manitoba. Enough was stored at The same results have been obdefine the arid and semi-arid re- on "Picturesque Nebraska." be successfully disputed that with- people who dwell in the arid and year, besides the great quantities periment of that kind:

methods, and much of it to both.

It is unnecessary to elaborate engineers. It is worth while, how-

All agriculture in Colorado is ever, to say a word about the the state; it is necessary to any- will be discussed with more detail by artificial irrigation and inde- method of tapping the underthing approaching an even pros- when particular branches of the pendent of rainfall. Six of the ground flow in the valleys of the perity in any part; and, in the subject are taken up, but it is im- largest irrigating canals in the Platte and Republican, which conopinion of daring thinkers, the portant to indicate at the outset United States have either been cerns a very large territory and is time will come when the changing the main features of the country completed, or are in progress of less understood.

The best illustrations of this construction, in the Arkansas valenlarged home market for western There is probably no finer cli- ley, ranging from 24 to 100 miles method to be found at present in farm products will make it desira- mate in the United States than in length. During the past seas- Nebaaska is in Buffalo county, ble, if not necessary, in every part that of the arid region. It is adapt-of our 76,000 square miles that is ed to the growth of all the cereals gion reached by these and smaller constructed a ditch sixteen miles and of perhaps the largest variety canals has stood out in striking in length for the purpose of secur-The BEE purposes, in a series of profitable crops that can be contrast to the poverty and distress ing water power. They at first deof articles to consider the subject grown anywhere in the world. Its of parts of Nebraska and Kansas. pended upon the surface supin all its bearings-the existing attitude ranges from 2,000 to 5,- On the week begining October 5th ply. In dry seasons this failed need of it:the benefits it promises; 000 feet, which contributes much the first carload of grapes ever them, and engineers of national the progress already made; the to its healthfulness. Everywhere shipped from any point in Colora- reputations were sent for to investsources of water supply; the vari- the soil is deep, rich and strong. do was sent from Canyon City to igate the underflow. They became ous methods of distribution; the The surface of the country, though Denver. At the same time there perfectly satisfied that an inexaid needed from state and nation- very largely a rolling prairie, pos- were on exhibition at the state fair haustible supply of water ran al governments; the cost of con- sesses more variety than can be in Pueblo magnificent displays of through the loose gravel bed that structing systems; how they are to found elsewhere in the state. This fruit of all kinds from the valleys lies beneath a strata of clay at the be paid for, and the expense to the is especially the case in the west- of the Gunnison and Arkansas. river bottom. Dredges were set consumer. The intention is to ern counties, where there are land- Thousands of bushels of apples- at work and the canal continued first furnish a complete exposition scapes beauties that would surprise some of them fifteen inches in cir- up the stream below the level of of this subject, then to arouse and the Nebraskan who is acquainted cumference, raised from trees six the river, deepening as it went. center the attention of the state with this state only by a study of years old-were waiting for harv- The work practically demonstrated and, finally, by these means to in- the map on the wall. If a Kodak est at Fremont and throughout the the wisdom of the engineers. Water was found in aburdance, and undertaking to success. Some- the range of Sidney hills, and not The prosperity of the San Luis when the operations are completed

thing of good will result if it find his way to the railroad again valley was immense. The great- there will be a large square basin awakens the interest that its com- until he had wandered over half a est wheat crop ever known was below the surface of the river to dozen counties, he would bring harvested, and it was of a quality serve as a perpetual fountain for OUR ARID AND SEMI-ARID REGIONS. back on his camera material enough equalled only by the best No. 1 water supply and irrigation.

Monte Vista to keep a large mill tained in Kansas. A recent official gions of Nebraska, but it cannot A large proportion of the 60,000 running day and night for one report in that state says of an ex-

be successfully disputed that with-out irrigation no crop is certain, year in and year out, west of 100th last ten years. Outside of the United States—in the lake region is New in the lake region for or sheet water is reached at had a reputation as an irrigation are very small, the inhabitants are crop was almost a total failure, a depth of seven feet below the sur-



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crank before the theory had a doz-principally homesteaders. They save for a few exceptional instances. face. By commencing a ditch at en followers in the state-says this are good representatives of the This fact only added a brighter any given point in the valley three is the best arbitrary line that can sturdy class of settlers and have tinge to the gilt-edged prosperity feet deep-the usually depth for be drawn from north to south to made Nebraska and other western of irrigated Colorado. From the irrigating purposes-and extendmark the invisible point where states what they are. Most of San Luis valley and the Divide ing it up the valley at a grade of the reliable rain belt blends into them started with only their brawn carload after carload was shipped three feet to the mile a distance the hopelessly arid country.

The 100th parallel divides the government had promised to give therefor. An entire trainload left would be just seven feet deep; or, state almost exactly in the middle, them when they had fulfilled the Greeley for Chicago on October in other words, the underflow FRANK passing through Keya Paha, conditions of settlement. These 6th. The returns seem almost would be reached. By extending Brown, Blaine, Custer, Dawes, Gos- men and their wives and children fabulous. There is scarcely any the ditch another mile up the valper, and Furnas counties. Not all are made of good stuff. They do limit to the variety of crops that ley with the same grade, it would the counties west of this division not ask the earth. A very small can be grown under favorable con- then just be eleven feet deep, or are equally destitute of natural section of it is sufficient for their ditions that exist in the irrigated four feet into the underflow-bearmoisture. Those along the Kan- demands. And they come with portions of Colorado. Of the mat- ing in mind that the underflow is sas border have frequently raised the expectation of enduring some ter of profit I need say no more struck at seven feet below the surgood crops of all kinds, and all the of the hardships of privations and than that I have talked with farm- face, which is on a level with the others have had unusually favora- sacrifice while the country is set- ers of Las Animas county who bed of the river. By extending ble seasns when they have fairly tling up and the homestead get-gladly pay \$30 per acre annual the ditch a half mile further up the repaid the toil of the farmer. It ting under way. But when crops rental for the use of irrigated farms valley with the same grade as beis here, however, that the arid and fail in part the hand of adversity near a good local market. And fore, the ditch is then just thirteen semi-arid region exists, and that rests heavily upon them. When they this is in sight of the New Mexico feet deep, or six feet into the unthe aid of irrigation must be invok- fail entirely they suffer and pinch, mountains, far remonte from the derflow, or of course six feet beed if it is ever to become anything and, finally, call for help. Some- great Denver market. better than it is today.

sely settled, and partly because tree. they are largely sandy, and partly It is needless to write of the tries. will suffice. In some of them the dence of God, or the ingenuity of mate productiveness? sheep industry is just now very man, can but show them a way to Box Butte, Scott's Bluff, Banner, realized.

the point where natural moisture soil beneath their feet if the provi- has reserved for the greatest ulti- of equal size for \$10,000 less."

ka. They are as follows: Lincoln, of the intelligence and the capital sources which must be depended ceeding articles will be cheerfully

These counties belong properly to matter of history, and a very anci- little influence," he voiced the con- way in Nebraska. W.E.SMYTHE.

be depended upon to make them essary to refer to what has been somewhat generally held. Bu-T. B. McPherson of Arapahoe, fit for reliable agriculture. Ten done in other countries and other scientific demonstration put uttert who managed the anti-amendment of them are almost worthless, ex- ages, however. We need not re- ly to rout all questions of the recampaign in the valley with such cept for grazing, without it. In vive the recollection of irrigation liability of the underground flow conspicuous success, is rewarded nearly all of them experiments on the Nile, nor describe the meth- in the bed of the Platte, the Rewith the vice-presidency of the have been carried far enough to ods which have made the farmers publican, the Arkansas and other Union Stock Yards bank at South demonstrate that the water supply of Japan a marvel of thrift, to con- rivers that cut their path through Omaha. is ample. In several, considerable vince anybody that the application the plains. progress has already been made or water by artificial means to a There are three great systems WHEN the alliance lamb is safewith large public systems or small soil containing every element of of water supply for irrigationly deposited in the democratic tigprivate ditches. Together they strength will produce great and the surface and underground rivhave an area of 18,218 square regular crops, with which it is ers, the artesian well, and the that lamb will be infinitely worse miles-more than the states of hopeless for "natural farming" to storage, or reservoir system. Nethan the first estate. Rhode Island, Delaware, Massa- compete. But, by way of demon- braska will make use of the two chusetts, New Jersey, Connecticut, strating the practical fruits of irri- former methods, and it is already New Hampshire or Vermont, and gation, it is well to quote the ex- practically demonstrated that near-ONLY 531,399 claims for penhalf as much as the total of these perience of the state which adjoins ly every one of our arid and semi- sions have been filed since the first our arid region on the west, Col- arid regions is open to the cultiva- of June. seven states.

and brain, and the land which the to the east and big prices realized of one mile, the ditch at that point low the bed of the river. From

times they move away. That is It is to be assumed that neither that point the uniformed depth of Twenty-five counties and a por- what it means when we see the space nor time need be wasted in thirteen feet is retained, giving tion of several others lie west of prairie schooner-driving the further fortifying the theory that the ditch the same grade as the the 100th parallel. Of these, ten gaunt stock before it and trailing irrigation pays. If more evidence river, namely, seven feet to the may be left out of the present con- the family mare and her youngest is needed it can be furnished with- mile. Into this ditch, thus dug, sideration, to be taken up later, behind it-drift slowly eastward out limit from the experience of drained the underflow. The propartly because they are very spar- in the direction of the old roof- New Mexico, Arizona, Utah, Cali- blem is solved. It is a success. fornia and various foreign coun- From the dam the ditch is conducted along the higher lands at a

because practical investigation has heroism of the frontier, but there It is a fact not open to dispute grade of only one and seven-tenths yet determined little as to the na- are families all over the arid re- that where capital has been found feet per mile-the usual grade for ture and extent of their available gions who are trying to brave it to make the water flow over our irrigation purposes. The ditch, water supply. They are also so out, and who would blush to see arid acres prosperity has come to when completed, will be twentywell adapted for grazing purposes the inside of their sod house expos- abide. The question for Nebraska five miles in length and will cost that it may be a question for many ed to the view of the world. Why is, when will her people begin in about \$60,000. With the experiyears whether they will be found do they stay and endure? Because earnest to reclaim that large por- ence these men have had, they say profitable for cultivation beyond they know the possibilities of that tion of her domain which nature they could construct another ditch

Neither government experts nor

THE WATER SUPPLY.

private investigators any longer profitable. Apart from these, and water it. They know the home- The question of the water sup- entertain the slightest doubt the the other seven counties of which stead they have fought so hard to ply for the arid regions is not now abundant supply of water available but a small portion lies west of stay with will yield them a hand- a matter of anxiety to the friends for the irrigation of the arid and the parallel, we have fifteen coun- some living, educate their children, of the irrigation movement, though semi-arid regions in Nebraska. ties which may first be taken for and lay up a competence for old there are still found occasional Facts, suggestions or criticisms the empire of irrigation in Nebras- age. But without the assistance skeptics who"take no stock" in the in connection with this and suc-

Keith, Perkins, Deuel, Cheyenne, of the state the dream can never be upon. When Bill Nye said "the received as valuable contributions Platte river is about a mile wide to their completeness. Next Sun-Kimball, Chase, Dundy, Hitchcock, PRACTICAL FRUITS OF IRRIGATION. and an inch thick," and that it day's article will deal with the irri-Hayes, Frontier and Red Willow. The success of irrigation is a "has a large circulation but very gation enterprises already under

the arid region and irrigation must ent history at that. It is not nec- tempt for western streams that is

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