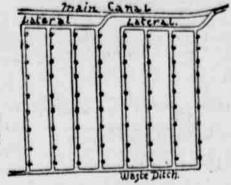
THE FARMING WORLD.

GARDEN IRRIGATION.

A Science That Is Not as Well Understood as It Should Be.

Irrigation is being adopted by the successful gardeners and small-fruit growenough argument to convince anyone of the value of irrigation. Thorough the yield. In this sense the application of moisture by the hand of man has be-



SCIENTIFIC IRRIGATION.

come a science. Although practiced for the past 6,000 years, and a necessity in the production of crops in two-thirds of the world, irrigation is but little understood by many of the best farmers and gardeners in the United States. The science dispels droughts, and makes crops annual successes. At best, the rain-dependence is only an uncertain substitute for independent soil moisture by irrigation.

The sources of artificial water supply are so numerous that there is no necessity for any section of the country suffering from a lack of rainfall. Runming streams can be tapped by constructing gravity canals; springs may be easily developed, and their waters vtilized; wells and cisterns can be pumped of their supply by windmills and other lifting devices. When once acquired, a water-right is worth more than the land it irrigates, even in the sections where rainfall moisture is depended upon for soil food. Gardens and small-fruit orchards and vineyards are especially benefited by irrigation, even though there is an abundance of rain for general field crops. The scientific application of water at the exact time needed solves the long-mooted problem of whether or not the garden pays for any except the professional market feeder. Many abandoned farms in the east could be reclaimed and made to pay as well as desert lands are redeemed in the west and converted into

earthly homes of paradise. Several systems of irrigation are practiced, but probably the most general method is the furrow plan. This consists in a main canal, which carries the water to the head, or highest point of the land, where it is divided into smaller laterals and conveyed by them to the furrows. These small furrows lead the water along near the roots of the trees or plants, and after passing through the entire lot, empties into a waste ditch, which carries it into a creek or other stream, to be used again by the farmers below. The time occupied in irrigating a given era depends upon the kind of crop and nature of the soil. In ordinary garden soil containing much manure and little clay a small stream may run from one hour to three times that long on a row eight to twelve rods in length. In most sections it is advisable to make irrigating furrows not more than 20 rods in length, as the ends next the ditch, or main canal, get too much water from soaking while the stream is finding its way to the lower end of the furrows .- Joel Shomaker, in Farm and Fireside.

ORCHARD AND GARDEN.

Make quality rather than quantity the principal aim. New land is best adapted to the

growth of berries. Fruit trees or plants will not take

care of themselves.

Grapes thrive best in well-cultivated and well-drained land.

Having the orchard trimmed up keeps the trees bearing well.

No fruit repays judicious pruning and trimming better than the pear.

Cherry trees must be grafted early Union. if good results are expected.

Choose young, thrifty trees, with good roots and straight, clean tops. All trees that have roots or tops

bruised or mangled should be dis-In setting out a tree, save some of

the top soil, especially to put around the roots.

sap by preventing the ground from right position and inject into each warming up too soon. Nectarines and apricots can be

grown anywhere that the peach or prune will thrive well Either red clover alone or clover and

orchard grass is best to be used in seeding down the orchard. Do the grafting before the buds swell.

the buds need the stored-up nourish-

them, so the trees will get the benefit of the cultivation.- St. Louis Republic.

BOVINES THE PIONEERS.

Oxen, and Not the Railroads, Settled the Western Country.

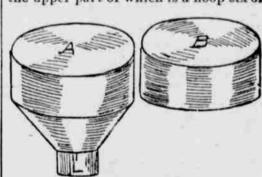
"It is the horse, and not the railroad, which should be given most of the credit of settling this western country." said a state senator, in discussing a bill to regulate freight rates the other ers throughout the world. The fact day. He was mistaken. The most pothat water can be applied to fruits and | tent influence in settling all the westvegetables at any time required is ern empire was the ox. It alone could stand the burden across the burning sands, as with little food and less water tests in the rain belt regions have dem- it plodded its patient way toward the onstrated that irrigation makes better- setting sun. Anyone familiar with the flavored products and more than doubles | earlier days can testify to this. The trail followed by the California '49ers was literally fenced with skeletons of horses, but seldom could the bones of an ox be found.

Another thing which may not be generally known, but which is, nevertheless, a fact, is that in those days an ox train would cross the continent in less time than a horse train. It was the old story of the turtle and the hare. We once heard an old '49er say that no dog ever made the trip from the Missouri river to California unless it was carried in a wagon. Next to man, the ox can go further afoot than anything which lives, with possibly the exception of the camel. Next to the ox the mule was no doubt the most enduring animal engaged in the freight traffic on the great plains before the iron horse made its way to the mountains. The mules used in the overland work were mostly bred in Missouri from the best Spanish and Maltese stock, and for generations great breeding establishments were kept up for the purpose of supplying this trade. Some day the mule family will have a monument in this country.- Denver Field and Farm.

STRAINING THE MILK.

No Task in the Dairy Needs to Re

Done More Carefully. No work on the farm should be more carefully done than the straining of milk. A strainer made with a wire screen, though often used, is very imperfect and should be discarded. The writer has found the strainer illustrated herewith simple, cheap and perfect in its work. A is simply a large funnel, the upper part of which is a hoop six or



AN EXCELLENT STRAINER.

eight inches deep, with the top of the hoop a little larger than the bottom. Fig. b is a tin hoop similar in shape but trifle smaller than the hoop which forms the top of the funnel. When I wish to use the strainer I place a piece of muslin 18 inches square over the top of the funnel (a) and the hoop (b) is put on top of the cloth, which is pushed down inside the top of the funnel. A perfect strainer with a cloth bottom is thus obtained. The bottom of the funnel is made to fit the top of my milk cans. When ready to milk, the strainer is placed in the top of the can and taken to the barn, and as soon as a cow is milked the milk is poured into the funnel, strained at once and all dust perfeetly excluded. As the top of the strainer holds several quarts, a pail of milk can be emptied at once and no time lost by slow pouring .- Samuel S. Reed, in Orange Judd Farmer.

Trimming Peach Trees.

I find it just as easy to raise goodsized peaches as small ones. We depend largely on pruning and try not to leave too many fruit buds or too much wood. As peaches only grow on the new wood it is necessary to prune heavily, especially on old trees. to stimulate growth of new wood. My trees are five years old. They yielded about eight tons per acre last year and six tons the year before. Last winter I cut them heavily. I cut out many limbs from two to three inches in diameter, besides thinning out the laterals and cutting back heavily all that I left. As a result I am forcing out new growths in the body of the tree, low down where I want it, which will bear fruit next year .- Farmers

Fighting the Tobacco Worm.

Tobacco growers are combatting the worms by using a spray of one pound of Paris green to 160 gallons of water. Use a knapsack sprayer, with agitator attachment. It is not desirable to use Paris green on the plants, the moth that lays the eggs may be destroyed by taking the bloom of the jimson weed, place Mulching prevents the early flow of them along the tobacco rows in an upbloom, with a small, clean can, some of the following mixture: One pint water, one-fourth pint honey, one ounce cobalt. It is sure death to the miller.

The Cost Was Enormous.

No system of road building has ever been devised which for durability and smoothness approaches that of the Ro-The stock and scion must unite before mans, but the cost was, of course, enormous, and large armies of men were employed. Some of the Roman It is better for the trees while they roads are still in good condition, after are growing to raise hoed crops among a lapse of 15 centuries, during which most of them have had few, if any, re-

A SCIENTIST SAVED.

President Barnaby, of Hartsville College, Survives a Serious Illness Through the aid of Dr. Williams' Pink Pills for Pale People.

From the Republican, Columbus, Ind.

The Hartsville College, situated at Hartsville, Indiana, was founded years ago in the interest of the United Brethren Church, when the state was mostly a wilderness, and colleges were scarce. The college is well known throughout the country, former students having gone into all parts of the world.



A reporter recently called at this famous seat of learning and was shown into the room of the President, Prof. Alvin P. Barnaby. When last seen by the reporter Prof. Barnaby was in delicate health. To-day he was apparently in the best of health. In response to an inquiry the professor said:

'Oh, yes, I am much better than for some time. I am now in perfect health; but my recovery was brought about in rather a peculiar way."

"Tell me about it," said the reporter. "Well, to begin at the beginning," said the professor, "I studied too hard when at school, endeavoring to educate myself for the professions. After completing the com-mon course I came here, and graduated from the theological course. I entered the min-istry and accepted the charge of a United Brethren Church at a small place in Kent County, Mich. Being of an ambitious na-ture, I applied myself diligently to my work and studies. In time I noticed that my health was failing. My trouble was indiges-tion, and this with other troubles brought on nervousness.

My physician prescribed for me for some time, and advised me to take a change of climate. I did as requested and was some improved. Soon after I came here as a pro-fessor in physics and chemistry, and later was financial agent of this college. The change agreed with me, and for awhile my health was better, but my duties were heavy, and again I found my trouble returning. This time it was more severe and in the winter I became completely prostrated. I tried various medicines and different physicians. Finally I was able to return to my duties. Last spring I was elected president of the college. Again I had considerable work, and the trouble, which had not been entirely cured began to effect me. entirely cured, began to affect me, and last fall I collapsed. I had different doctors, but none did me any good. Professor Bow-man, who is professor of natural science, told me of his experience with Dr. Williams' Pink Pills for Pale People, and urged me to give them a trial, because they had benefited him in a similar case, and I concluded to try

"The first box helped me, and the second gave great relief, such as I had never experienced from the treatment of any physician. After using six boxes of the medicine I was entirely cured. To-day I am perfectly well. I feel better and stronger than for years. I certainly recommend this medicine To allay all doubt Prof. Barnaby cheer-

fully made an affidavit before
LYMAN J. SCUDDER, Notary Public,
Dr. Williams' Pink Pills for Pale People are sold by all dealers, or will be sent postpaid on receipt of price, 50 cents a box or six boxes for \$2.50 (they are never sold in bulk, or by the 100), by addressing Dr. Williams' Medicine Co., Schenectady, N. Y.

To have a respect for ourselves guides our morals, and to have a deference for others governs our manners.—N. Y. Weekly.

Don't refuse or excuse-St. Jacobs Oil's the cure for bruise.

They who clamor for their rights, multiply their wrongs.-Ram's Horn.

Long and Short-years with rheumatism no time with St. Jacobs Oil-and a cure.

THE GENERAL MARKETS.

,			-		
	KANSAS CITY.	M	o.,	May	18.
	CATTLE-Best beeves	4	60	@ 5	10
•	Stockers				
-	Native cows				0.0000
	HOGS-Choice to heavy	2	60	@ 3	
	SHEEP	3	00	@ 3	95
	WHEAT-No. 2 red	-		@	15.5
t	No. 2 hard				
6	CORN-No. 2 mixed			400	21%
	OATS-No. 2 mixed				
1	RYE-No. 2		31	64	
2	FLOUR-Patent, per sack				
L	Fancy				
	HAY-Choice timothy				
	Fancy prairie				
1	BRAN (sacked)	0			58
				0	
а	BUTTER-Choice creamery				
4	CHEESE-Full cream				PF ZVV-0.0
-	EGGS-Choice		7	6	734
	POTATOES		22	60	25
	ST. LOUIS				

	BUTTER-Choice creamery		139	440		14
1	CHEESE-Full cream		10%	600		12
ı	EGGS-Choice			60		734
l	POTATOES			60		25
l	ST. LOUIS.					
l	CATTLE-Native and shipping	3	85	@	5	10
ı	Texans	3	00	0	3	90
1	HOGS-Heavy		40	60	3	75
ı	SHEEP-Fair to choice	3	75	66	4	50
I	FLOUR-Choice		25	60	3	35
I	WHEAT-No. 2 red		90	60	F	91
Į	CORN-No. 2 mixed		99	60		2214
i	OATS-No. 2 mixed					2014
I	RYE-No. 2			-		35
I	BUTTER-Creamery			60		15%
ı	LARD-Western mess	3				75
I	PORK		40	-	-	00
	CHICAGO.					
ı	CATTLE-Common to prime	2	95	m.		40

LARD-Western mess	3	70	@	3	75
PORK	8	40	@	9	00
CHICAGO.					
CATTLE-Common to prime	3	85	(a)	5	40
HOGS-Packing and shipping	3	40	00	3	85
SHEEP-Fair to choice	3	50	00	4	65
FLOUR-Winter wheat	4	60	60	4	70
WHEAT-No. 2 red		94	500		94
CORN-No. 2		25	400		25
DATS-No. 2		13	0		18
RYE		34	460		35
BUTTER-Creamery		10	60		14
LARD	3	821	460	3	85
PORK	8	45	66	8	50
NEW YORK.					
CATTLE-Native steers	4	25	GE.	5	10
HOGS-Good to choice	4	00	66	4	25
WHEAT-No. 2 red	1	814	400	ı	82
NO. FRANCE AND DE		ALGERT	200		40

PORK-Mess..... 8 75 @ 9 25

29% (6)

221400

CORN-No. 2.....

OATS-No. 2.....

BUTTER-Creamery.....

Deafness Cannot Be Cured

by local applications, as they cannot reach the discased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube gets inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal con-dition, hearing will be destroyed forever; nine cases out of ten are caused by catarrh, which is nothing but an inflamed condition of the mucous surfaces.

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that cannot be cured by Hall's Catarrh Cure.

Send for circulars, free.

F. J. Cheney & Co., Toledo, O.

Sold by Druggists, 75c.

Hall's Family Pills are the best.

Minnie-"I want to introduce you to a young lady—a very nice young lady—and she's worth her weight in gold." Bob—"Stout girl, I hope."—Tit-Bits.

A Sure Deliverance. Not instantaneously, it is true, but in a Not instantaneously, it is true, but in a short space of time, persons of a bilious habit are saved from the tortures which a disordered liver is capable of inflicting by Hostetter's Stomach Bitters, an anti-bilious medicine and aperient of the first rank. The pains in the right side and through the right shoulder blade, the sick headache, nausea, constipation and saffron hue of the skin, are entirely removed by this estimable restorative of tone to the organs of secretion and ative of tone to the organs of secretion and

"Your daughter Imogene is a perfect Venus, Mr. Duggins." "Yes-Venus de Milo; she never does any work with her arms."— Chicago Record.

No-To-Bae for Fifty Cents. Over 400,000 cured. Why not let No-To-Bac regulate or remove your desire for tobacco? Saves money, makes health and manhood. Cure guaranteed, 50c and \$1.00, all druggists.

Lecturer—"The entire history of the world has moved in cycles." Sprocket— "What make?"—Philadelphia North Amer-

Actors, Vocalists, Public Speakers praise Hale's Honey of Horehound and Tar. Pike's Toothache Drops Cure in One minute.

The great objection we have to the man who blows his own trumpet is in the tune he selects.—N. Y. Weekly.

A man humps himself with lumbago. He hustles when cured by St. Jacobs Oil.

It is queer that a hard coal burner always goes out in the coldest night of the winter.—Washington Democrat.

Piso's Cure for Consumption has saved me many a doctor's bill.—S. F. Hardy, Hop-kins Place, Baltimore, Md., Dec. 2, 1894. When a baby smiles in its sleep, its mother says it is talking with the angels, but it is really the colic.—Atchison Globe.

A slip—a sprain—lame. St. Jacobs Oil cures it all the same.

What a dry time some of us would have we got nothing but our deserts.—N. Y.

Just try a 10c box of Cascarets candy ca-thartic, finest liver and bowel regulator made.

A man with two faces never needs but one pair of feet.—Ram's Horn.

Wrinkles come with neuralgia. They go with St. Jacobs Oil's cure of it.

Gorge the memory and starve the under-standing.—Ram's Horn.

Cascarets stimulate liver, kidneys and bowels. Never sicken, weaken or gripe, 10c.

Why are you afraid in the dark ?-- Atchison

Pains and aches break down. St. Jacobs Oil builds up and finishes with a cure.

Many a train of thought ought to be switched into a siding.—N. Y. Weekly.

THOUGHT

THAT KILLED

MAN!

HE thought that he could trifle with disease. He was run down in health, felt tired and worn out, complained of dizzi-ness, billousness, backaches and headaches. His liver and kidneys were out of order. He thought to get well by dosing himself with cheap remedies. And then came the ending. He fell a victim to Bright's disease! The money he ought to have invested in a safe, reliable remedy went for a tombstone.

is the only standard remedy in the world for kidney and liver complaints. It is the only remedy which physicians universally prescribe. It is the only remedy that is back-ed by the testimony of thou-sands whom it has relieved and cured.

THERE IS NOTHING ELSE

THAT CAN TAKE ITS PLACE





600 SECOND HAND BICYCLES \$5 TO \$15-all makes. GOOD AS NEW. Must be closed out. Lists free L.A.Mead Cycle Co., Chicago

Yucatan, it is perfection..

A. N. K.-D

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