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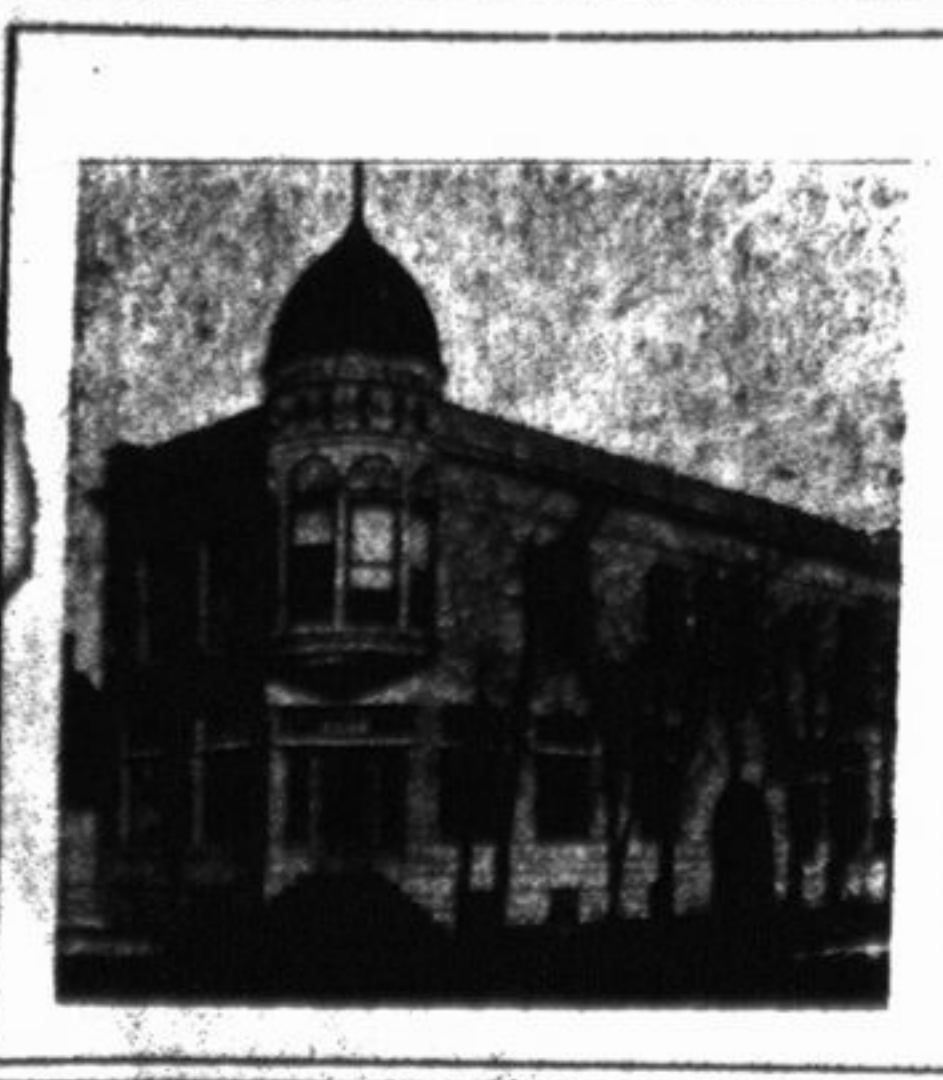
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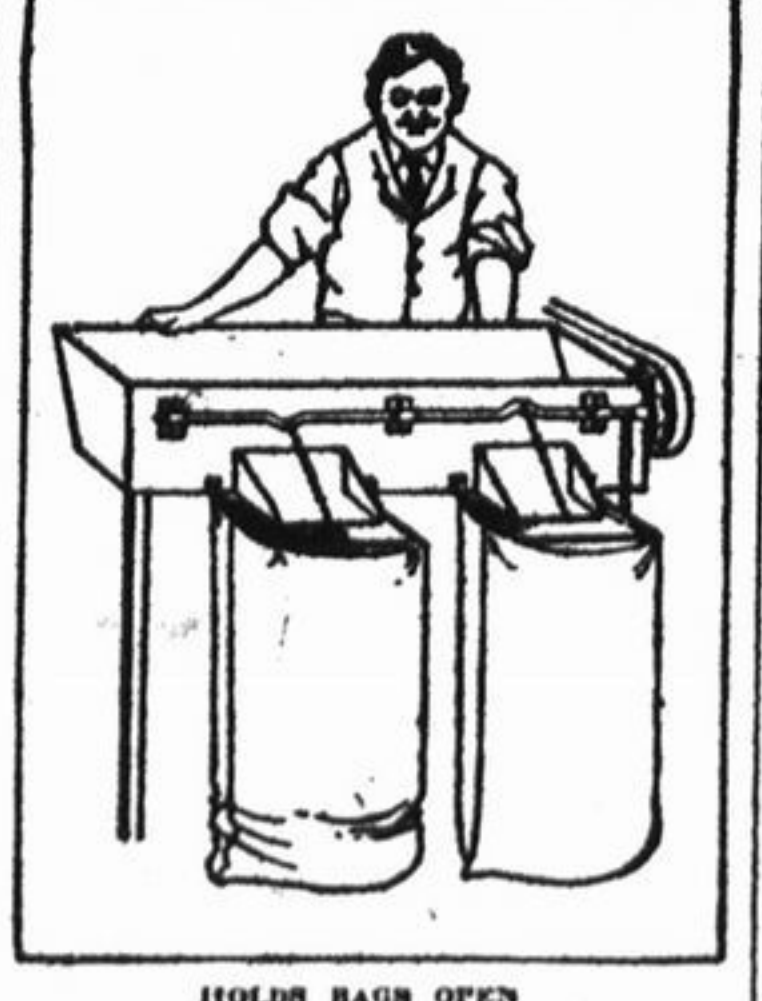
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For Filling Sacks.
In filling sacks with grain, flour, cement, etc., it has been found impossible for one man to do the work. A second laborer is required to hold open the mouth of the bag while the other does the filling. The necessity of the extra laborer is eliminated in the sack-filling apparatus shown here. This apparatus was designed primarily to provide a device by which bags could be quickly and economically filled by one man. A hopper is provided, to which a pulley is attached at one end. At the front are the frames for supporting the bags after the latter have been fastened in position. The grain or other article to be placed in the



bags is shoveled into the hopper, from which it drops by gravity into the bags. As the grain descends the bags are shaken at regular intervals by an arrangement attached to the pulley. The bags are in this way automatically lifted off the ground a trifle at each turn of the pulley, allowing the grain to settle, filling the bags to their utmost capacity. This does away with the ordinary laborious method formerly employed by hand. It is claimed that the bags can be filled in one-fourth the time heretofore required and by one man.

Causes of Roup.

When fowls crow at night, which is the fact when the number quartered is greater than the capacity of the house, they sweat. This sweating causes the feathers to rot at the base, giving them the very appearance of molting. This explains why so many flocks look ragged in early summer.

It is a noted fact that the majority of cases where roup has become a deadly ailment among fowls the latter were crowded in tightly-built houses when the weather is very cold and allowing the houses to remain closed all the next day. This creates a moisture which generates dampness, and the whole house feels very much like a vault. At night the house is more or less filled with dampness emanating from the fowls' breath, but if, on the following morning, the windows are opened wide, this dampness will be dissipated. This is a great point in favor of the scratching shed plan of housing.

Popular Breed of Poultry.

Leghorns if compelled to roost in old houses and pick a living from the slush of a barnyard will not lay. But when warmly housed and properly fed they are the best of winter layers. The best bred leghorns are practically non-sitters and should not be counted on to rear their young. For those who are so situated that they can hatch and rear their pullets artificially of either hens of other breeds, and who give their hens suitable care in winter, the leghorn will prove a very profitable breed for the farm.

Feeding Sheep.

It is most convenient for the majority of sheep owners who have not large barns in which to care for their sheep to attempt to feed them in troughs arranged about the feed lots; but this method has its disadvantages for during a night of heavy storm the troughs will have become filled with sleet and snow. A reversible feed trough that can be easily turned over, presenting a dry, clean trough, will greatly obviate this discomfort in feeding out of doors.

Wash Eggs for Market.

It would in a sense be better to wash eggs sent to market than to send them in a dirty condition. But washed eggs have no keeping qualities. The water appears to dissolve the gelatinous substance which seals the pores of the shell, and air is thus admitted and soon starts decomposition. The better way to treat dirty eggs is to take a wooden rag only slightly moistened with water and gently rub off the dirt.

Irrigation in Brazil.

The movement in the direction of comprehensive irrigation enterprises in the Northeastern States of Brazil, where there is great suffering for want of water and where immense tracts of good land are at present practically worthless for lack of it, is gathering considerable force, and it is understood that the next Brazilian Congress will be asked to take up the subject in a practical way.

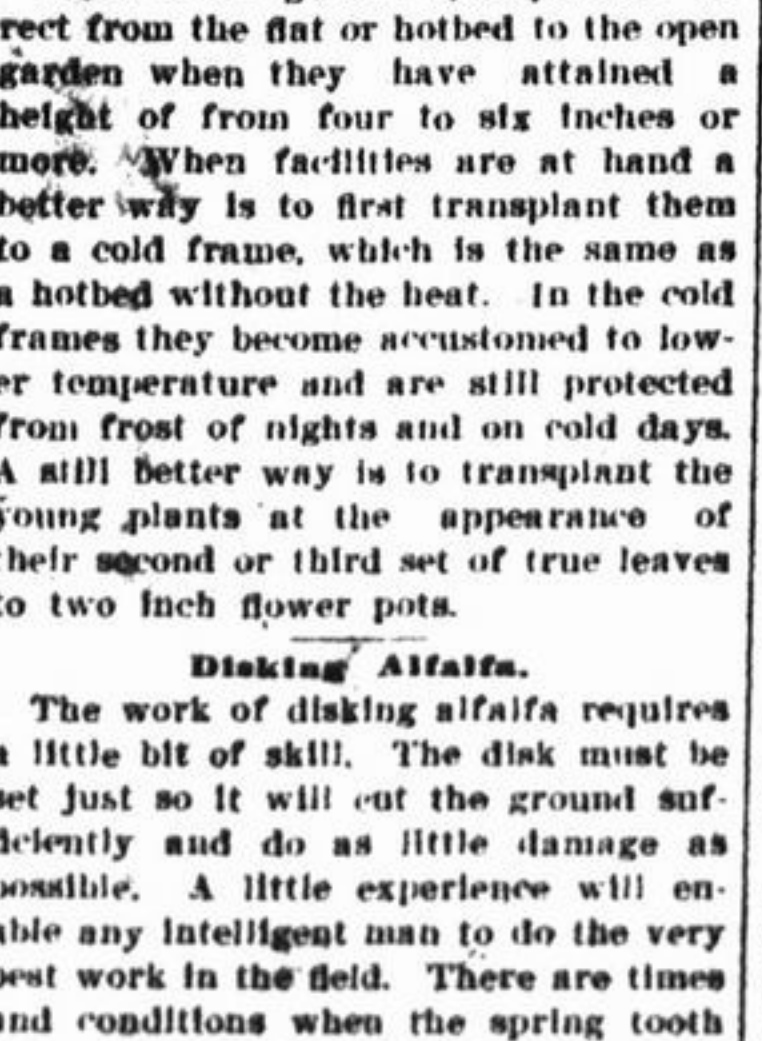
Not Industry on the Farm.
An industry which the farmer might take up with profit is not growing. Improved nut trees begin bearing at about six or eight years, bearing the same as apple or pear trees. Large ones when grafted begin to bear about

HINTS FOR FARMERS.

(From May Farm Journal.)
OUT OF THE GINGER JAR.
Even a legless man can run through a bank account.
It requires a skillful surgeon to set a bone, but anybody can set an egg.
When a girl falls in love with a loaf, we usually find her at the bottom of her heart.
There is little expectation that the July and August sun will melt the trust.
The corn-field ought to take a high rank, because there are so many kernels in it.
It would not take a thrashing machine very long to thrash out some men's ideas.
The auctioneer knocks down almost everything he touches, and yet nobody seems to mind it.
Pride is undesirable, and yet we are all agreed that rice is not likable unless it is all puffed up.
"By their fruits ye shall know them," but what about a tree with a dozen different varieties of grafts?
Talk about the farmers having no influence: they are stirring up the entire country right now.
Our neighbor's faults are magnified seven-fold, but as to our own shortcomings we can not see them with a microscope.
It is not best always to stay at home; an occasional change is good for everybody. Even the kitchen fire goes out occasionally.
Every farmer can be his own weather prophet if he will keep his tools under the shed, and his stock in the stable during bad nights.
There are lots of people in the world who appear to have the brains of a mule. All they seem to be able to do is to eat, sleep and kick.
In a horse deal with thy neighbor, when looking for the spavin on his animal, do not neglect to mention the splint on thine own, and thus thou shalt have a record for fair dealing.
Farmer Jones was pleased as Punch when he heard his son was being taught fencing at college, but when he saw the small instruments used in the instruction his pleasure gave way to disgust.

Disking Alfalfa.

The work of disking alfalfa requires a little bit of skill. The disk must be set just so it will cut the ground sufficiently and do as little damage as possible. A little experience will enable any intelligent man to do the very best work in the field. There are times and conditions when the spring tooth harrow may do all right, but generally nothing but a good sharp disk with enough big horses in front and a competent man on the seat can do the work. I use only the smoothing harrow in the early spring, but after each mowing I use a disk or spring tooth, whichever I think best, always finishing with a spike-tooth, so as to leave the field in the very best possible condition for the growing crop. It is a real pleasure to see the alfalfa start out anew and grow about one inch a day on an average.—Denver Field and Farm.



A Cow Yard Gateway.

A handy entrance into the cow yard is made by cutting the wire between posts and putting in two tall posts. Wire them together at top, put on fence wires and you can get through, but the cows cannot.

Foundered Horses.

A S. Alexander, veterinary surgeon, explodes the old idea that a horse can become "chest foundered." He says that such cases are those suffering from chronic founder (laminitis), which affects the feet and not the chest. In old-standing cases of foot lameness the chest muscles may waste away in sympathy, and that fact has led to the "chest founder" idea. Such a horse should be shod with wide-webbed, flat bar shoes, put on over dressing of tar and oakum, and a thick leather sole. Then clip off the hair and blister the hoof heads (coronets) of forefeet with a mixture of one dram of biniodide of mercury and two ounces of cerate of cantharides rubbed in for fifteen minutes. Wash blister off in forty-eight hours, then apply lard daily. Blister every three or four weeks.

Electro-Chemical Fertilizers.

By the aid of electro-chemical production of manures containing atmospheric nitrogen, Germany expects soon to largely decrease its importations of saltpetre from Chili.

Helpful Hints.

Oil up the work harness.
The neglected colt or calf will prove profitless.
Cattle will never do well in the same pasture as sheep.
Wood charcoal should always be kept in the hog pen.
How are the farm implements? Any of them need repairs?
To improve live stock, requires intelligence and thought.
It is a good plan to have the horses and cows clean up their mangers after each feed.
There is such a thing as overfeeding. Feed stock all the food they will assimilate, but not more.
Don't have a lot of manure lying in the yards all summer. It will lose just about half of its value by fall.
It is better to feed the cows fodder and hay after milking, as it keeps the dust down. Feed the grain before milking.
Don't plant poor, weak seed corn next spring. It is time and money thrown away. There is plenty of good, strong seed to be had.
Farmers must read in order to keep up with the times. There has been as great an evolution in agriculture as in any other line of business.
Do you follow crop rotation on your farm? It's the only way to properly manage a farm for best results in producing big crops and maintaining the fertility.
The best feed for making muscle is oats. They are not heating nor very fattening. The young calves should be given oats in order to give them muscle and make them plump.

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HINTS FOR STOCK OWNERS.

It is time to prepare for soiling crops against the days of summer drought that are sure to come. It is only by a succession of such crops that the efficiency of the dairy can be maintained in the trying August days.
It is best to have two pastures for sheep, and to change from one to the other weekly.
Make the change from dry feed to pasture carefully, allowing the sheep in pasture only a few hours at first. Give a full feeding of hay, etc., in the barn for several days before turning out.
Never trust a bear no matter how kind he appears. Always keep behind him.
Set a post in your hog lot and every hog will rub against it. This gives the cure for a cheap and effective louse killer. Wrap the post tightly from the ground up with quarter-inch rope, and saturate the rope with kerosene every few days. Kerosene will kill lice and the hogs will keep on scratching against this post.
Do not leave the cows out in the cold May rains.
Do not leave them out for more than half a day at first.
The changes in feed should be brought about gradually and with as much care as possible.
Always give a good feeding of hay before the cows are turned to pasture the first time in the spring.
Put in lots of sweet corn. It is an attraction on the home table and a money maker in the dairy.
In case your calves show signs of having scours, give them a teaspoonful of fine charcoal with the milk for a few days. When the trouble disappears begin feeding hay and you will not have any more difficulty with the scours.
Keep the collars clean and dry.
Keep the cut's feet level by rasping.
Don't allow the toes to grow too long. Long toes will cause ringbones.
Do not use grease or blacking on the hoofs to close the pores, and prevent the entrance of moisture.
It is better never to let horses run on both sides of a wire fence, especially if there is a barb at the top. They are very apt to fight through or over it and are pretty sure to get hurt.
Watering often is far better than waiting till a horse is almost choked and then letting him have all he can drink. Many horses are spoiled by the latter method, while no one ever hurt a horse by frequent watering.

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