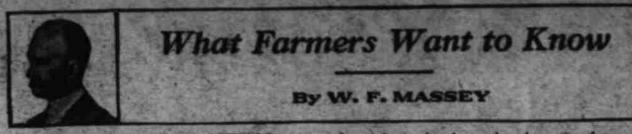
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PLOWS AND PLOWING

A Discussion of Some Implements That Do Good Work-How to Break Land

VIRGINIA correspondent wants I to know something about the best plows, and if there is any advantages in the riding plow with wheels. There is a wonderful variety in moldboard plows, and the shape of the moldboard has a great deal to do with the draft of the plow, and the way in which it turns a furrow. For many years I used only the Oliver chilled plows, from a one-horse size to a three-horse plow. Before the introduction of the Oliver I had used a number of varieties of cast iron plows, the Miner & Horton, and remedy you mention, and there is of smothering crops that will at the all the older sorts of the common cast iron kind that had to be polished by use. The smooth, hardened surface of the Oliver was a vast improvement, and forever abolished the old cast iron, unhardened and unpolished plows. The one defect of the Oliver is its liability to choke where there is much foul growth on the land, and in such land it badly needs a revolving coulter. I found that the Syracuse plow had all the advantages of the Oliver, and was so arranged as to be less liable to choke.

Many years ago I tried a steel plow the moldboard of which was modeled on a segment of a cylinder. I forget the name of it now, and have often wondered that it disappeared, for it. did excellent work, and edged up a furrow nicer than most plows. More recently I have had in use a twohorse plow made by the W. J. Oliver Co., of Knoxville, Tenn. This is one of the lightest running plows of its size that I have ever used. The great advantage of the riding wheel plow is that the lower wheel keeps the plow right to its cut and a careless plowman cannot take more furrow than the plow is designed to take. In fact, out at the farm not long ago I saw one of the tenant's daughters about 15 years old sitting on one of these plows and with a pair of mules doing as good work as any one could do. The average plowman will do better work with one of these plows than with any other, for the average negro wants to cut and cover by flopping the furrow over and merely tearing the sod loose on the outside while running a fair furrow on the landside, thus merely running a series of grooves in the soil, because he will always try to cut more furrow than the plow is intended to take. FROM Mississippi: "Please tell me der, and I want to plant potatoes the He cannot do this with the riding F how to get rid of horers in peach middle of December. Then I will folplow with wheels. Then of course it is far easier on the man riding with nothing to look after but his team and the furrow wheel, and there will always be the uniform depth to which the plow is set to run, and in this way the whole land is plowed and not a series of grooves with hard ridges between them. I saw this once where a heavy flood of rain had washed off the plowed ground in a space on a steep hill, and on the hard clay below the plow track there was almost a series of steps made by the careless plowman. Then, on a heavy clay loam, the sooner the harrow follows the plow the better, for if the upturned soil is allowed to dry and harden the after breaking of the clods will be much more difficult. For this first chop- The nut grass started in a small way ping of the furrows there is nothing four years ago, and now has spread better than the cutaway disk. On a over one-fourth to one-third of an sandy soil a fine preparation of the acre. How shall I get rid of it?" surface can be made by the Acme It started in a small way four years cut down by frost twice in January, and set the plants deep enough to harrow, and in some situations the ago, and you let it go to seed every der it will pull out too much.

it makes the best implement for covering grass and clover seed. For preparing land for fall grain following corn or a pea stubble, the disk of the cutaway is the best possible implement if followed by the steel-frame sectional drag to make the surface fine, for the finer the surface for sowing fall grain the better.

Patent Insect Killer

patented."

these secret preparations probably it goes to seed and spreads farther.

zle any one to find a plant of put have often printed. That is, place grass in my garden. I cleaned it out them in a box that can be closed up by merely not allowing it to make green leaves above ground. Chopped off today it was up tomorrow, and it was chopped off again. In a small space this is the best way, for no plant can live long if not allowed to ing damaged forage. Rotten hay or make green leaves.

In the field you can grow smother- Give the horse only sound feed. ing crops. Some say that sweet potatoes will run it out. I have never tried this. But if that field that has been in cultivation for 60 years had been run in a regular rotation of crops there would have been no nut grass, as it would not have had a chance to spread. If, when the field FROM Alabama: "We have a man was in corn you had sown peas thick-in our county trying to sell a rem- ly at last plowing, and then cut and edy for killing insects on fruit trees shocked the corn and prepared the which he calls Dr. Odom's Peerless land and sown oats, and followed the Insect Killer. Please tell us what oats with peas and the peas, after you think of it. It is said to be curing for hay, with crimson clover, there would have been no chance for I do not know anything about the the nut grass. A constant succession no need to invest in any secret or same time be making feed for stock patented insect killers, for you can and improving the land is about the get from your experiment station at best way to keep the land clear of Auburn full directions for the use of any weeds. Constant cultivation year the various arsenates for destroying after year in cotton spreads the nut insects on fruit trees, and any of grass, and after the cotton is laid by

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four years ago. Today it would puz- carbon bisulphide remedy which we tight and pour the chemical in a pan and set it on top the peas and cover tight till it evaporates. Keep fire away from it, as it will explode.

The horse has probably been catstraw fodder will cause the trouble.

Orchard Inquiries

NROM North Carolina: "Is it too late to sow clover? Is clover good for chickens to run on? I have them in the orchard, and is it not best to seed grass or something among the fruit trees? The ground has been used as a garden, and the fruit falls from the trees before ripening. It the soil too rich? My peach trees have scaly and rough bark and about on the trunks and at the base is a jelly-like substance. Please tell me what to do with them. When should I prune Concord grape vines? Do you prune James grapes?"

If the soil is kept fertile it is best to have grass in the orchard and mow it now and then and leave it on the ground as a mulch to the trees. The poultry can run in the orchard. It is too late to sow clover for them to mow. You could have sown it in September and by this time_it would be large enough for the chickens to pick.

Your peach trees have been neglected. It may be that there is San Jose scale on them. Better spray them with the lime-sulphur wash, which you can buy already made and dilute for use. Then clean away the gum and cut out the borers that are killing the trees. Whenever you see gum at the base of a peach tree you may be sure the borers are there. Clean away the gum and all rotten stuff and follow up the track of the borer and dig it out. Do this every spring and fall. Then after spraying the trees give the trunks a thick coat of whitewash. Prune Concord grapes. in early March. November is the best time to prune James and Scuppernong. Cut out old stunted wood and train out the one and two-yearold wood.

WORK

A SONG OF TRIUMPH

By Angela Morgan, in The Outlook

Work! Thank God for the might of it, The ardor, the urge, the delight of it-Work that springs from the heart's desire,

Setting the soul and the brain on fire. Oh, what is so good as the heat of it, And what is so glad as the beat of it. And what is so kind as the stern command

Challenging brain and heart and hand?

Work!

Thank God for the pride of it, For the beautiful, conquering tide of it, Sweeping the life in its furious flood, Thrilling the arteries, cleansing the

blood, Mastering stupor and dull despair, Moving the dreamer to do and dare. Oh, what is so good as the urge of it, And what is so glad as the surge of it, And what is so strong as the summons

deep Rousing the torpid soul from sleep Work! Thank God for the pace of it, For the terrible, keen, swift race of it; Fiery steeds in full control, Nostrils aquiver to greet the goal.

Work, the power that drives behind, Guiding the purposes, taming the mind, Holding the runaway wishes back, Reining the will to one steady track, Speeding the energies faster, faster, Triumphing over disaster. Oh, what is so good as the pain of it, And what is so great as the gain of it, And what is so kind as the cruel goad, Forcing us on through the rugged road?

Work!

Thank God for the swing of it, For the clamoring, hammering ring of it, Passion of labor daily hurled On the mighty anvils of the world. Oh, what is so fierce as the fiame of it, And what is so huge as the aim of it, Thundering on through dearth and doubt, Calling the plan of the Maker out; Work, the Titan; Work, the friend, Shaping the earth to a glorious end; Draining the swamps and blasting the

knowing what the article is com- down weeds. posed of, I could not give an opinion. Any one can patent any recipe they please, and the patenting does not make it any better. Better avoid any one selling secret remedies for plants, animals or mankind.

Preventing Peach Tree Borers

trees?"

the trees spring and fall, and wher- it off. I have saved some cowpeas ever gum is seen at the base of the for seed. How can I keep the bugs tree go to work and dig out the bor- out of them? Have a fine horse er. A heavy coat of whitewash will which gets the blind staggers. What deter the moths to some extent, and wood ashes around the base of the tree will have a s'ight effect in preventing their laying the eggs, but regular examination of the trees and cutting out the borers is the only thing to do.

Nut Grass Again

FROM South Carolina: "I have about one-fourth of an acre set in nut grass in a field of nine acres that has been in cultivation for 60 years.

spring-tooth harrow does good work, fall, and there are thousands, of but if there is much trash turned un- plants that come from seed to one frosts are past. You can shear sheep find the plants advertised in The Prothat comes from the nuts. I have Then for the final preparation the told more than once how I cleared steel-frame sectional harrow with my garden of it. The garden had spike-teeth does excellent work, and been lying out for years when I through the peas to keep out insects. taking in state, county, and

hills Doing whatever the spirit wills, Rending a continent apart To answer the dream of the Master heart? Thank God for a world where none may Thank God for the splendor of work!

depend on the same things. Without Good farming is the best way to keep

Sundry Ouestions

ROM Florida: "What is the best early Irish potato to grow for market? I am 12 miles east of Jacksonville. Is cottonseed meal a good fertilizer? Land had peas and crabgrass on it, and these are turned unhow to get rid of borers in peach middle of December. Then I will follow with oats. Can sheep be sheared The only effective way is to go over now? The wool is long and they rub shall I do?"

> The Irish Cobbler is as good as any early potato and more commonly grown. Cottonseed meal is good as a source of nitrogen in the fertilizer, but after peas you will need more phosphoric acid than nitrogen. But the meal will furnish a little potash which will be hard to buy, and you could make fertilizer of 1,000 to 1,500 pounds an acre with one-third cottonseed meal and two-thirds acid phosphate.

potatoes the middle of December, for in your climate they will come up at phosphate and use 1,000 pounds an once, and I saw some years ago just acre in the furrows and bed on it west of you a patch that had been and open small furrows in the beds I do not believe there will be any ad- cover the stems. Now is the time vantage in planting till the January for setting, and you will probably in your climate if you keep them un- gressive Farmer. der cover in cold weather.

Get some moth balls and mix them with the teeth turned slanting back bought it, and was a mat of nut grass If live insects appear then use the Glass, N. C.

Aphides on Cabbage

AM badly bothered with lice on cabbages and turnips. At this season of the year they work on the roots and suck the life out of the plants. If you know of anything I could put in the furrows when I plant the seed or set the plants, I will be glad to know it."

If you use tobacco stems liberally in the furrows they will prevent the lice and feed the plants too. To clear them off one of the best things is an article that is generally sold by seedsmen, called Black Leaf 40. This is a concentrated nicotine extract that can be used as a spray. But if you can get some tobacco stems you can make your own spray by boiling them down to a strong decoction and using that for spraying. Tobacco in some form is the best specific against plant lice or aphides of any sort and on any plant.

Early Cabbage Plants

WANT to set cabbage plants for spring heading. What is the best variety and what fertilizer is best on sandy loam?"

The Early Jersey Wakefield is the earliest market cabbage, and the . Charleston Wakefield is a little later You will run some risk in planting and larger. Make a fertilizer of equal parts of cottonseed meal and acid

I like the lead the Progressive Farmer in