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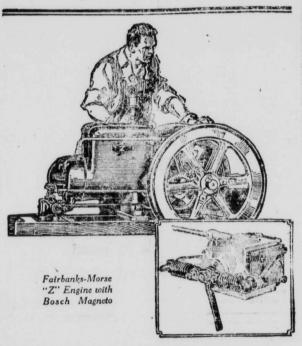
GREENE BROS.

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Waterdown





The Greatest Combination

WHEN the full meaning of this "Z" message is realized—mighty few farmers in this community will fail to at once call on us. This example of master engine-building-must be seen. Type and pictures can but suggest this value establishing achievement. This one possible betterment -Bosch high tension, oscillating magnetocompletes a rere engine service, fully maintained by us in co-operation with a nearby Bosch service station

THE CORN EAR-WORM

Most Destruct ve Enemy of the Cera . rop.

The Mother Moth Lays Eggs During e Mother Moth Lays Eggs During June, July and August—Egg to Moth Cycle About Forty Days— Deep Fall Plyughing Advocated— Horse's Efficiency Depends on Rations.

(Contributed by Ontario Department of Agriculture, Toronto.)

The moths responsible for the egg laying that produces so many destructive worms appear in June and de-posit their ergs on various food plants during June, July and August. The female motas that are attracted to corn lay their eggs on the silks. The eggs are small yellow circular flattened discs, that hatch three of four days after being deposited. The young worms feed on the silk for a day or two and then work down into the interior of the husk tips, where they continue to feed on the silks of the continue to feed on the silks of these keyros, at the tip of the they continue to feed on the sliks and tender kernels at the tip of the ear, gradually working downward as they grow to maturity. When fully developed the har worms leave the ear and the soil, soing down about four incars to papate. Two weeks after entering the soil the transformation is completed, the worm that went down comes up as a moth.

1.2. and Moth tycle Covers Forty Bays.

The new cycle, egg to moth, is com-

Days.

The not eyele, egg to moth, is completed in most forly days. The brood that execute the corn silks is the scann blood of the season. The moths are scrong filers, and may go constarable of scanne from their birthplace in search of new fields. No satisfactory method of destroying the Corn Ear-worth has been devised. Deep fain ploughing to destroy the last brood of the season is in part saccessful. If an land owners would practice a general clean up and deep ploughing of all lands in the autium this past would be reduced considerably. With many neglected areas scattered turough the corn growing sections this langer's prisence will be tell for some time.

Date of Painting a Factor In Control.

Onte of Falading a Factor In Control.

The date of corn planting is a factor of importance in escaping Earworm injury, with the probable date of the second brood of motias emergence, being known with fair accuracy, the plantins may be done at a time to lissure cub corn cars being quevioped beyone the green silk stage before the motias of the second brood appear. The early planted corn has suifered less injury than the late.

Deep Auturn Ploughing Recom-Deep Auturn Ploughing Recom-mended.

Horse's Lincipacy Depends on Ration.

One of the factors that materially affects the efficiency of the work horse especially in hot weather is the first heart of the manner in which he receives and the manner in which may be a full day's work to have many on a full day's work to have the manner man and any continuous controls in his capacity. In order to this and have admitted a present control in his capacity. In order to this and have indured in health, core and judgment may be exercised in the special of the reads used.

The recease is suited to form the principal components of the ration of and of the country and bright, clean, and the principal components of the ration of the principal components of the ration of the special control of the ration of the country of the principal components of the ration of the principal control of the pri

is a w. e variation in feed tents of different horses of the part however. Some do each to each to consume at the feed, and must essent the feed, and must essent the feed, and must essent the feed that seement years to the charts commonly spoken by feeders will keep up and on a ratic less feed than the dathout. The successful or locater will study the integer of his horses and feed key.

preferribed currents. The successful tealaste of bears will study the individuality of also horses and feed accordingly.

A rase cut are handled quietly and patiently will do auch more work and keep to better condition on a given amount of feed than will horses that are abused and continually kept nervous and in fear of the driver.

The ration given above can be improved upon a using one feed per day of good, bright, clean affarfa or clover hay, or be substituting from for about 15 to 20 per cent, of the oats used. The grain feed should be replaced by a bright hash or feed of boiled barray or boiled cats on Saturda, evening. The daily grain allowance should be reduced by about one-fourth on Sunday. Corn can be used in place of cats to constitute one hill of the grain ration,

though straight dats is conqueive to slightly more satisfactory results over a long period of time.

The heavy feed of hay should of course be given at night, while the heavy feed of grain may be given at noon. Watering both before and after feeding grain is the most satisfactory method. Work horses should also have an opportunity to eat all the salt they care for.—W. H. Peters, chief of the Division of Animal Hushandry, University of Minnesota.

The efficiency of the hor is to be confident to the properties of the deficiency of the post is to confident to the salt they care to the properties of the p

The efficiency of the hog is de-termined by his solily to make a maximum gain on the minimum amount of feed. To do this the young pig must be kept thrifty.

Farm Trespassers Scored.

Farm Trespassers Scored.

Mrs. Bess Wilson, editor of the Redwood, Minn., Gazette, very properly censures town people who drive through country districts and raid the farmer of his tame and wild fruit and other products. "Everything that grows on a farmer's farm belongs to that farmer," is the way the Gazette puts it. "To take even wild fruit without his permission is as much a misdemeanor as to take his corn, potatoes or chickens."

Improving the Sink.

An old wooden sink was made handier by attaching a zinc drain board. Three shallow grooves were beaten into the zinc, and it was nailed to the wooden frame with a stight incline so the water easily drained back into the sink.

Combatting Field Mice.

Combatting Field Mice.

Traps for field mice can be used only on limited areas. In the case of large tracts recourse must be had to poisoned grain. One ounce of sulpinate of strycenia dissolved by boiling in a plat of water and an equal quantity of cheap syrup added will poison maif a busici of wheat or corn. Cracked and crashed corn is better for this purpose chan the uncrushed kernel. This grain should soak in the poisoned liqual several hours and then be allowed to dry. Grasserowing about the base of a fruit tree encourages the presence of mice, as denoted as a carry matching. Cover crash such as buckwheat, oats or clover may harbor mice. Snow about fruit trees should be tramped down occasionally to keep mice from working under it. These pests would be less numerous if neighboring swampy areas were drained and thorough pioughing and harrowing reacted to an calityating crops. Hawks and owls, weakels, skunks and foxes destory large numbers of field mice.

The free use of an effective lice

The free use of an effective lice powder is always in order with poultry. A dustoan is very essential inriding the fowns of lice. Whitewashing is effective against vermin. The keroa neon the roots and in the crocks to exterminate mites.

(Contributed by Ontario Department of Agriculture, Toronto.) The materials used for bedding domestic animals are generally straw

from the grain fields, peat moss from the swamp, or shavings from the saw or planing mill. Straw is used to a greater extent than any other ma-terial, first because of its abundance; secondly because the stable offers a medium for transferring this by-product of the field to manure, and thereby tacilitating its return to the land; thirdly because it is a good absorbent of liquids. Straws from oats, peas, rye, wheat and oats vary in value as a litter or bedding material. The hard rye and wheat straws, while durable to the wear of animals, is not as good an absorbent as the softer oat, barley and pea straws. Wheat straw not being highly straws. Wheat straw not being highly valued as a stable bedding. The nitrogen, potash and phosphorus contained in a ton of wheat or rye straw has a value at commercial fertilizer prices of \$2.25, oat straw \$2.60, and barley straw \$2.10. Straws have a furtner value in that the organic matter content is large, and of such a nature as to be particularly valuable in soil insprovement. Peat moss svaluable as an absorbent of liquids, it is also valuable for its hirrogen able in soil improvement. Peat moss is valuable as an absorbent of liquids, it is also valuable for its nitrogen content. The manure from stables where peat moss is used as bedding is generally of considerably higher value than the manure from any other source. It has one objection in that it is not as cean as straw. Sawdust and shavings, while serving the purpose as a little value to the manure. Useful as an aid in keeping the animals clean and preventing the loss of the liquid portion of the manure, sawdust or shavings serve a sood purpose; but it must be remembered that the tertifity value of sawdust is low. Those who have neither straw or peat moss should then use the sawdust or shavings.—L. Stevenson, Sec., Dept. of Agriculture, Toronto.

MEASURING HAY.

The following simple and practical hints regarding the measuring of hay are worth noting and filing: Tons of Hay In the Mow.

washing is effective against vermin.

The keroache on the roosts and in the cracks 12 exterminate miteds.

Mustard, crees radish, lettuce, set onlons and spinace are crops that can be grown in a hotoed.

Be sure that the snow is well trained about the apple and plum trees. This will descourage mice from nesting near them.

Vegetable Matter.

The advantage of matter in the foil may be summed up as follows: it alts a ration, retains moisture, prevents baking, provides conditions sit of the soil may be summed up as follows: it alts a ration, retains moisture, prevents baking, provides conditions sit of the first and deepens soil layer, prevents leaching, washing and drifting. Every opportunity to return to the soil vegetable matter of any sort should be taken advantage of by all farmers having any respect for the soil of tacif field.

Continuous strain cropping decreases the productivity of soils. This is due hardly to the reacting in quantity of the fresh vegetable matter in the soil that is essential to chemical and bacterial action. Without chemical and bacterial action. Without chemical and bacterial action in the coll the fresh vegetable matter in the soil that is essential to the mice and bacterial action in the mouth of the fresh vegetable matter in the soil that is essential to the mice and bacterial action in the coll the fresh vegetable matter in the soil that is essential to the mice and bacterial action in the coll the fresh vegetable matter in the soil that is essential to the mice and bacterial action in the coll the fresh vegetable matter in the soil that is essential to the mice and bacterial action in the coll the fresh vegetable matter in the soil that is essential to the mice and bacterial action in the colline of the sack and multiply by the length of they do not be about the highly a state of the sack and multiply by the length of they do not be an action in the first provided the

Save Shelling Peas.

Save shelling peas by using the following method: wash, and put the unshelled beas in a steepan. Boilt to or fiveen inducts, still thoroughly with a fork, then pour them into a chander, awing the water. Pick has the capity peds, put the peas in the strained water, and return all to the five accelerations. Crushed or finely divided marl can be directly applied to the land at any season of the year.

Marl.

Marl is a mixture of disintegrated limestone and clay, it contains in varying proportions lime, phosphorus and polassium. There is no better fertilizer for sandy lands than peat and marl, and it is surprising that greater use is not made of this material on many farms. Small marl beds are common over the Province of Ontario, and this material can usually be obtained for the labor of excavating. Farm labor and teams might be well employed during odd days durins the summer and autumn period getting out marl for future applications. Crushed or finely divided marl can be directly applied to the land at any season of the year.

L. Stevenson.

Frand-feeding Lambs.

Lambs that have lost their mothers or have mildes more incoments of have indices more than a very lost their mothers or have mildes more than a very lost their mothers or have mildes more than a very lost their mothers or have mildes more than a very lost their mothers or have mildes more than a very lost their mothers or have mildes more than a very lost their mothers or have mildes more in the raid of have only beautiful than rubber in peasing namber is the answer in tons.

Lambs that have lost their mothers or have mildes more in the raid by using goat or can be successfully reaced by using goat or can be close of which in the methy-hour lost their mothers or have mildes more than and to the summer and autumn period getting of disting namber is the answer in tons.

Lambs that have lost their mothers or have fill the mildes more than and the constitution and the move of their market in the mildes more than and the constitution. Stan