Over Thirty Per Cent of Vegetable | Two Questions Which Must Be Food Is Wild Berries.

Domestic Fruits Are Eaten So Sparingly by the Birds as to Be of No Economic Importance—Devours Many Harmful Beetles.

(By F. L BEALL.) thrushes are pronounced the ground. The vegetable portion of their food (40.72 per cent) is largely composed of fruit, which constitutes over 34 per cent of the total fcod. Of this 30.88 per cent is made up of wild 94 species of wild fruits or berries were identified in the stomachs of these birds, although it is not always

unless seeds or some other character-



Wood Thrush.

often the case, a considerable portion of the stomach contents must be pronounced "fruit pulp" without further identification; thus probably many more species are eaten than are recorded. Moreover, in the case of some fruits, it is not possible to distinguish species by the seeds, so that many species go unrecognized except as to genus. Domestic fruits are eaten so sparingly by the thrushes as to be of no economic importance.

The wood thrush is distributed over the eastern part of the United States wherever suitable conditions are found. It is a lover of open groves and bushy pastures, and may be found along little traveled roads and near low bushy swamps.

For the investigation of the food habits of the wood thrush 171 stomachs were available.

Beetles, collectively (20.40 per cent) constitute the largest item of animal food. Of these, 2.23 per cent are the predacious ground beetles generally considered useful. The remainder belong to several more or less harmful families, of which the Maybeetle family amount to 10.17 per

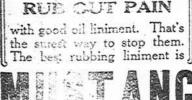
More than nine-tenths of the vegeta | For a 72-bushel crop of corn the ble food of the wood thrush can be value of the plant food removed will tivated fruit, or what was thought to alfalfa, the value of the elements takbe such, was found in stomachs taken en from the soil is \$9.60. from June to September, inclusive. It was eaten regularly and moderately, consin experiment stations have conand the total for the season was 3.74 tained the statement that for the proper ceni of the whole food. Wild



stay at the North. The hermit thrush inhabits the

eastern states in winter as far north as Massachusetts and breeds from the per acre from a six-acre alfalfa hog mountains of Mar land and Pennsylvania and from northern Michigan and central Minnesota northward to

Inquiry into the food habits of this bird covered 551 stomachs, collected in 29 states, the District of Columbia and Canada, and representing every month of the year. In the primary analysis the food was found to consist of 64.51 per cent of animal matter and 35.49 per cent of vegetable. The former is mostly composed of insects, with some spiders, while the latter is largely fruit, chiefly wild species. Beetles constitute 15.13 per cent of the food. The ants destroyed-12.46 per cent of the food-keep up the reputation of thrushes as ant eaters. Caterpillars, eaten in every month and mostly in goodly q lantities, appear to be a fevorite fo d of the hermit thrush. Flies comprise 3.02 per cent ous when used to haul off hay or do of the food of this pird.





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Answered in Affirmative.

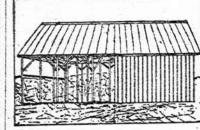
Failure to Inoculate the Soil Is But an Invitation to Disappointment-Value of Ton of Hay Estimated at \$25.

(By A. N. ABBOTT.) Before the average farmer will ground feeders, and may often be seen change his farm methods and try tions which must be answered in the affirmative-First, is it practical? Second, is it profitable?

The answer to the first is that all soils which will produce red clover berries, which outweigh the domestic will produce alfalfa, and such soils, varieties with every species. In all, which by reason of their sandy or adapted to red clover, will produce al-

practicable to identify such material There is a smaller percentage of failures from alfalfa properly sown than from the red clover usually sown. The seed bed should be finely prepared, and it should be remembered that failure to inoculate the soil is but

an invitation to disappointment. The second question-as to the value of alfalfa-is an interesting one, particularly when compared with the



Good Alfalfa Feeding Shed.

value of corn. A yield of corn of 72 bushels per acre, which is a large and satisfactory yield (72 bushels of corn is two tons of grain), will, at 40 cents per bushel, bring \$28.80.

The same soil and season which will produce two tons of corn per acre, will produce five or six tons of alfalfa, which at \$15 per ton will return not less than \$75 per acre, and that, too, with much less labor.

In an experiment in Illinois equal areas were in corn and alfalfa. The proceeds from the alfalfa crop were over three times those from the corn.

Comparing the amount of plant food removed by the alfalfa and the corn, we find a ton of alfalfa removes 50 pounds of nitrogen, four pounds phosphorus, and 24 pounds potassium, worth at market price, exclusive of the nitrogen, \$1.92. (The nitrogen is not taken into account because the alfalfa can get its supply directly from the air, through the bacteria on its

A ton of corn, equal to 35 5-7 bushels, contains 35 5-7 pounds of nitrogen, 64 pounds of phosphorus and 6 11-14 pounds of potassium, worth at the market value \$6.37. The nitrogen in the corn must be considered, since this plant does not, and cannot, secure a supply of this element except through the soil. A crop of corn,

Bulletins of the Illinois and Wisduction of milk, a ton of alfalfa hay



Baling Alfalfa Hay Direct From Wind-

fruits or berries of 22 species were is equivalent to a ton of bran, thus found in 72 stomachs, distributed fixing the value of alfalfa hay near through every month of the bird's \$25 per ton for the production of

A farmer in Whiteside county, Illinois, states that he has realized \$181

Money being at 5 per cent, what is the land worth that yields a revenue of from \$75 to \$150 per acre? If the yield of corn in the corn belt fixes the price of land, as is generally conceded, then a readjustment and higher range of land values is inevitable when fixed on an alfalta basis.

Shipping Apples. If you must ship apples when severe weather threatens, be sure to line the inside of barrels or box-top, bottom and sides-with double layers of paper. Most folks do not fully realize the excellent nonconducting qualities of any kind of paper.

Avoid Worn-Out Rope. It never pays to splice a worn-out rope Such a rope is always dangerany hard work.

Colds Quickly Relieved

Many people cough and cough-from he beginning of Fall right through to Others yet cold after cold. Take Dr. King's New Discovery and you will get almost immediate relief. It checks your cold, stops the racking. rasping, tissue-tearing cough heals the inflammation, soothes the raw tubes Easy to take, Antiseptic and Heating Get a 50c bottle of Dr Kings New Discovery and keep in the house. the containing a great mode one and leep a bottle of a continuaty on touch writes W. C. Jesseman, Franconia, N. H. Morey back if not satisfied but it

nearly always belos-Adv. C. V. VERNER.

l'igineer -- urv yor.

Concrete Dains o. Roads. Superintendent of Wales Works.

THRUSHES EAT INSECTS PLAN RAISING ALFALFA CHURNING IN COLD WEATHER

Many General Considerations Which Apply in All Cases-Cooling Temperature Varies.

It is difficult to lay down hard and fast rules for churning, because there are so many factors that will change conditions, but there are many general considerations which apply in all cases. As soon as the cream is ripe, which can be determined by the glossy appearance when stirred, or when the acidity has reached about five per cent, it should be cooled to the churning temperature and kept at least eight picking small fruit that has fallen to raising alfalfa, there are two ques- hours before churning. This holding period gives the fat globules time to contract uniformly so that they will churn completely, thereby minimizing the loss of fat in the buttermilk. It is customary to ripen one day and cool down in the evening for churning the next morning. T! cooling temperagravelly character, are not well ture varies with the conditions of the cream and season, and should be from 50 degrees in the summer to 60 de-

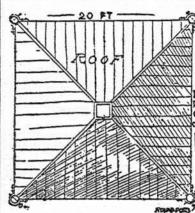
grees in the winter. The churning temperature varies from 55 to 65 degrees F. Use a low temperature when cream is very sour, when it is rich in fat, when fat globules are soft due to laxative feeds fed to cows, and during hot weather. When the conditions are opposite to those above use a high churning temperature. Cream is at the proper temperature when the butter comes in 30 or 40 minutes. Too high a temperature is less desirable than too low a one because it results in a greasy butter of your texture, and one that has a high bufermilk content, causing it to de-

teriorate rapidly. As the cream is added to the churn it should be passed through a finelyperforated strainer. This will remove particles of curd and also any foreign matter. A churn that is one-third to one-half full will churn the cream more completely and in a shorter time than when the churn is overloaded.

HAY SHED MADE ADJUSTABLE

Stack Cover Slides Up and Down Round Posts as Desired-Illustration Shows the Plan.

Four round posts or poles are set one at each corner and the stack cover slides up or down on them as desired. The stack should be square, 20 feet each way or smaller. Use 2 by 6 for the hip rafters and cut them plumb at both ends and the desired lengths The lower ends must not extend past the plates as they will interfere with the posts. Plates should be 2 by 6, or



Adjustable Hay Shed.

better, 4 by 6, and cut to fit inside the hip rafters. At the end of each hip rafter bolt a band of iron about threeeighths by one-half by two inches to form a loop about each post. Bore three-quarter-inch holes in the posts 12 to 18 inches apart and use fiveeighth-inch bolts as pins to hold up the roof. The posts should be set in the ground not less than four feet and concrete should be filled in around them, says a writer in Missouri Valley Farmer. The posts should be wired at the top so as to keep them the right distances apart.

SWINE BETTER THAN CATTLE

Knowledge Comes From Practical Ex perience Rather Than From the Study of Records.

Every experienced stockman knows that the pig comes first in a list of farm animals as an economical meat maker. This knowledge, in most cases, comes from practical experience rather than from the study of records made in experimental work. In connection with such problems as this, facts and figures are always more or less interesting, and those that are available show strongly in favor of the

In experiments carried on at the Lawes and Gilbert station in England, matters of this kind were threshed out to the very bottom. The result of twenty-seven experiments carried on with cattle indicated that it required an average of thirteen pounds of dry substance to produce one pound increase in live weight. It was found that sheep required an average of 9.2 pounds of dry substance to produce a pound of gain, while the hog required but 4.8 pounds of dry substance to produce one pound of increased weight. To determine this result, thirty-three experiments were carried on with pigs, and 104 animals were fed out for an average of fifty-eight days.

Should Always Include a Legume. A short-crop rotation should be planned for best results in the building-up process, and clover or some other legume always included. Apply manure at least once in the rotation if it is available. Take the best care of the manure when it is produced. It is valuatie. Good average barnyard manure is worth at least \$2.25 per ton for the fertility it contains.

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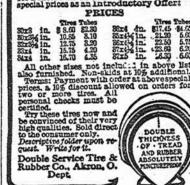
Mrs. Jay McGee, of Steph-enville, Texas, writes: 'For nine (9) years, I suffered with " 'y trouble. I had ter-

headaches, and pains in my back, etc. It seemed as if I would die, I suffered so. At last, I decided to try Cardui, the woman's tonic, and it helped me noht away. The full treatment to conly helped me, but it cured me.'

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Cardui helps women in time of greatest need, because it contains ingredients which act specifically, yet gently, on the weakened womanly organs. So, if you feel discouraged, blue, out-of-sorts. unable to do your household work, on account of your condition, stop worrying and give Cardui a trial. It has helped thousands of women -why not you? Try Cardui.





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must bear in mind that personal appearance has much to do with the accomplishment of this goal. We can help you to succeed by keeping your clothes nicely cleaned, pressed and repaired. The cost will amount to little as compared with the satisfaction of feeling that a good appearance goes a good long way in the struggle to succeed.

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