

## STOCK FARMS GARDEN

Edited by A. D. Cobb, Agricultural Expert

SIRUP FROM APPLE  
NEW TABLE DAINTY  
FOR WHEAT CAKESDepartment of Agriculture  
Discovers Way of Converting  
Culls and Excess Fruit  
Into New Product.

Following extensive experiment begun last spring, the head of the fruit and vegetable utilization laboratory of the department of agriculture has applied for a public service patent covering the making of a new form of table sirup from apple juice. This patent will make the discovery, which the specialists believe will be of great value to all apple growers, a matter of utilizing the culls and excess apples, common property of any cider mill in the United States which wishes to manufacture and sell apple cider sirup.

The new sirup, one gallon of which is made from seven gallons of ordinary cider, is a clear ruby or amber-colored sirup of about the consistency of carob sirup or maple sirup. Properly sterilized and put in sealed tins or bottles, it will keep indefinitely, and when opened, will keep under household conditions as well as other sirups.

It has a distinct fruity aroma and special flavor of its own which is described as being practically the same as the taste of the sirupy substance which exudes from a baked apple.

The sirup can be used like maple or other sirups for griddle cakes, cereals, household cookery, and as flavoring in desserts. The government cooking experts are at present experimenting with it in cookery and expect shortly to issue recipes for use of the new sirup in old ways and for taking advantage of its special flavor in novel dishes.

The department chemists have already produced over ten gallons of this sirup in their laboratories, using summer and other forms of apples. The success of the experiments has greatly interested some of the apple growers, and during October a large cider mill in the Hood River Valley, Oregon, will in co-operation with the government chemists, endeavor to produce 1,000 gallons on a commercial scale and give the new product a thorough market test by making it accessible through retailers in a limited field.

Lowney's Chocolates. Quigley Drug Stores. 13-5t

BIG DAIRY EXHIBIT  
INTERESTS INDIANAChicago Center of Blooded  
Stock Used on Big Dairy  
Farms.

The opening of the big national dairy show in Chicago is yet ten days in the future. Indiana day, when all Hoosiers should attend, is two weeks hence. Nevertheless, Indiana farmers are showing keen interest in this grandest show of all dairydom. It is only right that they should. The great educational features of this show are of inestimable value to the owners of dairy cattle. Every detail of the dairy business is being emphasized. Even the much-famed dairy maid will receive due consideration. Not, however, as a milker of cows and a maker of butter, but in her rightful position as the maker of a real home, whither the dairyman may find both food for body and soul.

A special day has been set aside for the Hoosiers. Tuesday, October 27, will be Indiana day. Besides being Indiana day it will be the most favorable day of the week to see the show at its best. Every feature will then be in good working order. The Holstein championship will be awarded and the Ayreshires will be judged on Tuesday. The Jerseys will be placed the following day.

Special arrangements are being made so the dairymen may see the show at its best advantage. The Purdue exhibit booth will be headquarters for Indiana people. An information bureau will be maintained for their convenience and special guides will be present to conduct parties and explain various exhibits and other features of the show.

CARD OF THANKS.  
We wish to extend our sincere thanks to our relatives, friends and neighbors for the kindness shown us during the sickness and death of our beloved husband and father.

Mrs. Joseph Zeyen, Mrs. J. M. Heideman.

MANURE OF VALUE  
TO TRUCK GARDENER

The gardener perhaps more than any one else engaged in agriculture should appreciate the value of stable manure for enriching the soil. As is perhaps known, manure, when stacked in the yard, with no covering over it, loses its greatest quality, plant food, by washing of rains and exposure. On the other hand, if stored under a shed or protected, it will steam and heat thus losing another most important factor, nitrogen. The average gardener is in the habit of storing his manure in the open air, but a better plan is to pile it under a roof of some sort and trample it down tight in order that no air may penetrate through it to drive out the valuable nitrogen. The garden soil should be well treated this year with fresh manure, which has both a sufficient quantity of plant food and nitrogen. To raise good vegetables it is essential to plant them in rich soil, and soil in time loses its fer-

NITRATE OF SODA HELPS  
FERTILITY OF OLD MEADOW

On an old meadow which has not been properly fertilized a top dressing of nitrate of soda is almost certain to show very marked results. The farmer is likely to be so enthusiastic over the showing made that he at once concludes that nitrogen is the one factor needed to make his hay crop a profitable one. Right here lies the danger.

While the first application of nitrate of soda may show these marked results, it is not by any means safe to conclude that nitrogen is the only element of fertility needed. Repeated applications of nitrate of soda may soon result in no apparent benefit and even result in a final condition worse than the original condition.

The first application of nitrate of soda shows such marked results because there is a marked deficiency of nitrogen in the soil; but there is suf-

ARMY WORM PEST  
RECEIVES NOTICE OF  
STATE OFFICERS

Adult Moths Sent to Entomologist From Three Widely Separated Places in State.

BY STATE ENTOMOLOGIST.

Adults or moths of the army worm, are making their appearance in Indiana, and with favorable conditions for their development there will undoubtedly be serious loss next summer from the ravages of this insect. This seemingly premature publicity is for the purpose of enabling the farmers to utilize, as a small amount of work done at first appearance of the caterpillars in the spring may preclude serious damage later on.

The army worm has occurred in many localities throughout Michigan, Ohio and the eastern state, but Indiana, insofar as the writer knows, escaped any damages from this insect last summer. Adult moths have to date been submitted to the state entomologist's office from three widely separated localities in the state, namely, Kendallville, Bluffton and Lawrenceburg.

At Kendallville, the report states, "the moths are collecting in such numbers about electric lights that the lights are dimmed," and from Bluffton the report states that "the electric light poles are literally covered with them," and the word from Lawrenceburg is that "the town is being invaded by millions of them."

His Antecedents.

The army worm is a close relative of the common cut worm, the caterpillar stage resembling somewhat that of the cut worm and both belonging to the family of night flying moths—Noctuidae. The army worms ordinarily feed during the night like the cut worms, but when they occur in enormous numbers they take on the marching habit and travel considerably during cloudy, dark days, devouring all vegetation coming within their path.

The reason why this insect occurs in such enormous numbers during a single season and then practically disappears for a period of years may be attributed to the following causes.

Many parasites, common among which are various species of the tachina fly and predaceous ground beetle, prey upon the army worm, and no sooner do the latter attain greater number than these parasites have developed sufficiently almost to annihilate the pest. An unfavorable winter and a lack of numerous patches of rank growing grass in which to hibernate, also stands in the way of an outbreak of the army worm.

Army worm moths may be recog-

nized by their fawn or clay colored front or top wings with a distinct spot at the center. The under wings are of a uniform lighter color with darker margins. The expanse of the wings is about one and one-quarter inches. The moths are night flyers and are attracted by lights. The full grown caterpillar is from one and one-half to two inches in length, and has a dark gray or black color in general. Three yellowish stripes may be noticed running lengthwise the back, and a broader and slightly darker stripe on each side.

robin redbreast will destroy the larvae of 100,000 insects in one warm spring day; the meadow lark destroys thousands of pests daily; the rain crow eats the apple tree tent caterpillar; the red-breasted grosbeak destroys the potato beetle; the common dove will eat daily on an average more than five thousand seeds of noxious weeds.

"What is true of the robin, the meadow lark, the dove and the other birds mentioned is also true of a large number of our birds," he says.

The common quail, Mr. Hansen points out, is an indefatigable insect destroyer. The stomach of a quail has been found to contain 2,326 plant lice, 568 mosquitoes, 109 potato beetles, 100 chinch bugs, 39 grasshoppers, 12 squash bugs, 12 cutworms, 12 army worms and 8 white grubs. Mr. Hansen puts the question to the farmer: "What would that bird and its mate have been worth to you had they reared their little brood on your farm?"

Too many farmers either look upon birds with indifference or with absolute enmity. A bird which now and then grabs a grain of corn or wheat, a berry or a cherry, is regarded as a chronic marauder, whereas he pays in service many times over for all that he gets. In fact, he is a reliable every-day farmhand, working seven days in the week, rain or shine, and taking no half-holidays. The birds are busy with the break of dawn, and sometimes they work far into the night. They deserve protection for

the good they do. There are thousands of farmers who need to look at the bird question from a new viewpoint.

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