The Farm.

The Economic Value of a Toad.

The Hatch Experiment Station of the State College at Amberst has just issued bulletin No. 46, which is on "The Habits, Pood, and Economic Value of the Ameri-can Toad." The bulletin is the work of A. II. Kirkland, assistant entomologist to the gypsy moth committee. Mr. Kirkland fluds that insects constitute 77 per cent. cf the food of a toad. To show the number of worms which a toad destroys he states that in the stomach of a single toad were found 55 army worms, in another 65 gypsy moth caterpillars, and in a third 37 tent caterpillars. He records an experiment where in three hours' time a toad had conwhere in three notes the a toan and con-sumed between 30 and 35 full-grown celery worms. He found by examination of a large number of toads that 87 per cent of the insects they destroy are injurious to cultivated crops, or in other ways obnox-ious to man. A toad would devour, in the months of May, June and July, the following: 3,312 ants, 2,208 cut worms, 1,840 myrapods, 2,208 sour bugs, 368 carabids. Of these 9,936 are injurious insects, and 368 are beneficial insects. Mr. Kirkland then figures out the amount in dollars and cents which a toad may be worth. Confining his attention to but one element of the food, the cut worms, and assuming that ten per cent. of these insects would have been killed by the carabid beetles, it still leaves 1,988 cut worms to the toad's credit; and if the damage the cut worms would have caused be estimated at one cent per worm, a figure which gardeners and bacco-growers will probably consider ridic-ulously low, it will be seen that a toad might destroy cut worms which would otherwise have destroyed crops to the extent of \$19.88,

* * * * Corn vs. Wheat.

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The interest recently manifested in the value of wheat for stock, and the scarcity of information upon that point, led the ex-periment stations to make various experiments to test its feeding value and to compare it with other grain foods commonly used for feeding. Recently the Pennsylvania station has reported experiments made to compare corn and wheat for steers, and the Maine station has given the results

of a comparison of the same for cows.

In the experiments at the Pennsylvania station twenty high-grade Shorthorn steers were used. Chopped wheat was compared with corn-and-cob meal. In both cases corn stover and hay were fed in addition. The twenty steers were first fed a mixture of ground wheat and corn-and-cob meal. On this they required 8.41 pounds of digestible food per pound of gain. They were then divided into two lots, one lot getting corn-and-cob meal and the other lot ground wheat. It was found that the lot receiving corn-and-cob meal required 7.73 pounds of digestible food to make one pound of gain in weight, and the lot re-ceiving the ground wheat at 8.67 pounds of digestible food per pound of gain. The conclusion is reached that "corn has a slightly higher value for feeding steers than

The Maine station compared wheat meal (ground meal) with corn meal for cows giving milk. In addition to this, eighteen pounds of Timothy hay and two pounds of cotton-seed meal were fed to each cow-daily. The indications from this experiment were that the wheat-meal ration was more efficient than the corn meal ration, and maintained the cows in rather better order. As to which would prove the more economical feed will, of course, depend on the local prices.

Harvesting Timothy for Hay and Seed.

When seed is wanted, timothy is cut at about the time the early maturing heads are beginning to be overripe. When the

seed in most of the heads is ripe enough to cut, the leaves are still quite green, hence the straw makes fairly good feed after threshing. The cutting is usually done with a self-binder, and the bundler are made rather small and bound some what loosely. They are shocked two and two, and the timothy is usually threshed, without stacking, as soon as it is thoroughly dry. The hauling is done, if possible, in racks with tight bottoms, so that the shattered seed may be sived. In this way, though a small amount of seed is often lost because some of the heads are not well ripened, the loss is more than made good by the better quality of the straw, and the farmer gets a yield of from six to twelve bushels per acre of first-class seed, in addition to a large amount of forage of a fair quality, which can be used to good advantage as horse feed during the winter or as "roughness" for fattening cattle or other

If the Timothy is allowed to stand too long, there is danger of as much loss from shattering as there is gain from the later ripening heads, and then the forage is rapidly deteriorating all the time. The shocking must be carefully done, and the bun-dles handled as little as possible in getting them to the threshing-machine. The timothy must not be allowed to stand too long in the shock, as again there may be considerable loss from shattering, and the quality of the seed may be injured by bleaching through exposure to sun and rains.—[The Orange Judd Farmer.

* * * * Agriculture the Mainstay of All.

It has been well and truthfully stated that agriculture may well be studied both as a science and an art. It is a science because it is based on nature's laws, and an art because it can be made productive of those articles that contribute so much to the welfare of mankind. Agriculture is a science which explains the mode of cultivating the ground so as to cause it to produce in plenty and perfection those grains, fruits and vegetable products which are useful to man, and to such animals as are reared by him for food and labor. For these reasons, if for no others, the princi-ples of agricutural science should be taught in all schools and colleges, as well as any other of the sciences or arts. First see that a knowledge of the principles is acquired, and their application later will be-come not only pleasant but profitable. No occupation is better calculated to call forth

come not only pieasant but profitable. No occupation is better calculated to call forth the learning of the man of science than that of agriculture, and none in which a man can engage with more honor or to which more honor should be attached.

Good farming is the mainspring of national progress. The farmer who calls to his aid light the of modern science and doubles his crops per acre is justly entitled to more praise than he who builds cities. When the first general assembly of the agriculturists of France was held, its first president, M. Dronyn de l'Huys, in his opening address, said: "Agriculture is the noblest of professions; stable as the earth which is its bass, pure as the sun which enlightens, free as the air which gives it life; it ripens reason, fortifies the character and elevates the soul toward the Creator by the continued spectacle of the miracles of creation. Agriculture is sented upon the granite upon which the State reposes." All honor, then, to agriculture as a science, as an art, and as the mainstay of the Nation.—(W. M. King in Washington Post,

ST, MARTIN, Que., May 16, 1893; C. C. RICHARDS & CO.

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GENTLEMEN,—Last November my child stuck a nail in his knee causing inflammation so severe that I was advised to take him to Montreal and have the limb amputated to save his life.

A neighbor advised us to try MINARD'S LINIMENT, which we did, and within three days my child was all right, and I feel so grateful that I send you this testimonial, that my experience may be of benefit to others.

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you'd rather do your washing and cleaning in a slow, laborious way, spending your time and strength in useless, tiresome, ruinous rubbing, it's nobody's business but yours. You are the one

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No other Flour will make as much bread to the barrel.

Bakers make 130 two-pound loaves from one barrel of Ogilvie's Hungarian.

THE PRICE is now so near that of Ontario flours, that you would lose be because the

THE PRICE is now so near that of Untario flours, that you would lose money by buying any other.

IT ABSORBS more water than any other known flour; therefore, the bread will keep moist longer.

HUNGARIAN is made from No. 1 Hard Manitoba Wheat (acknowledged the best in the world), and scientifically milled by the latest improved methods.

MANITOBA WHEAT contains more gluten than any other wheat, and gluten is the property in the wheat which gives strength, and is much more healthful than starch, which is the principal element in winter wheat.

ARE YOU using Hungarian in your home? If not, give it a trial, and you will soon become convinced that it is the best and most wholesome hour that you have ever used.

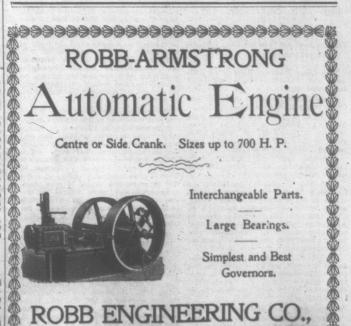
ever used.

THE BEST PUBLIC pastry cooks in Montreal use nothing but Hungarian for pastry, as it makes the very best pastry, if you will only use enough water.

FOR BREAD use more water than with any other flour. Give it time to absorb the water and knead it thoroughly; set to rise in a deep pan, and be sure your sponge is soft enough.

IF YOU follow the above directions you will have better bread than it is possible to get out of any other flour.

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