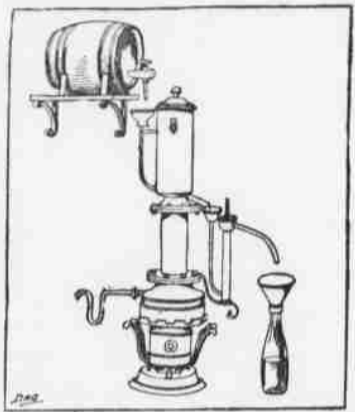


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Hall's Family Pills are the best.

Farm and Garden

ALCOHOL ON THE FARM.

The Denatured Variety May Now Be Made Legally.
Two years ago congress passed a law taking the internal revenue tax from denatured alcohol. This bill was passed with the aid and by the influence of farmers, who were led to believe that this bill would help them settle a hard question of light and fuel. Many of them thought that after the bill was passed the average farmer would be able to make alcohol on



SMALL FRENCH STILL.

the farm at a low price and that he could use this alcohol in place of other fuel. The result has been disappointing to such farmers. The price of alcohol is still so high that it cannot be used in place of wood or coal. At the time the bill was passed many well informed farmers all over the country feared that the alcohol industry would be much the same as the best sugar business—that it would not be made on the small farms, but concentrated in the factories, where farm produce is brought, very much as sugar beets are brought to the factory or milk to creamery.

There is still, however, a demand for a small distilling apparatus, but so far nothing of practical use has been made in this country.

The illustrations given herewith are taken from a French catalogue and show two devices for making alcohol in small quantities. They are popular in France. These pictures give an idea of the way the machines are operated. The small ones appear to be pretty close to toys, but there are larger and more expensive devices which are really practical.

A great deal of the alcohol making in France appears to be done by traveling distillers, who go from place to place very much the same as grain threshers travel in this country. They will go to a farmer's place and work apples, potatoes, beets or other material into alcohol at a stated price. It is doubtful whether this method will be practical in this country for a good many years, as the conditions here are very different from those on the other side.

Seed Seeds in Manure
It is well known that the

considerable risk of introducing new weeds by the purchase of manure and hay and other feeding stuffs. E. I. Oswald of the Maryland experiment station undertook to obtain more definite information on this point, especially as regards dissemination through manure, by studying the effect of the fermentation of manure handled in different ways and of passing through the digestive systems of animals on the vitality of various weed seeds, including seeds of about fifty of the worst weeds found in Maryland.

In experiments in which the manure remained for six months in a barnyard heap and for a short while in piles, as when shipped in carload lots from cities, it was found that in the first case there was no danger and in the second case little danger of distributing live weed seeds. In the experiments in which the weed seeds were fed to yearling steers and the manure handled in various ways it was found that—
First.—Where the manure was hauled directly from the stable as a top dressing an average of only 12.8 per cent of the seed fed germinated.

Second.—Where manure was hauled directly from the stable upon the land and plowed under 2.3 per cent of the seeds fed to animals came up.
Third.—Where the droppings remained on the pasture fields unadulterated as they fell an average of only 3.1 per cent of the seeds fed to animals germinated.

THE FARMER'S BOY.

In Many Instances He Has a Mistaken Idea of City Life.

The great trouble with country boys is that they are not aware of the circumstances under which the city boy is compelled to live and work if he has to earn his living by the sweat of his brow. The idea held up to the country boy is to go to town and get a nice, easy, soft snap such as So-and-so has. How many of them do it? Not one in a thousand. Far more go there to find work in some close, stagnant mill, to sweat amid the fumes of steam or tobacco smoke, or perhaps in some iron mill or foundry, surrounded by the curses of their fellow men, toil out a weary day of eleven or thirteen hours and after the day is over go home—and to such a home! Up some little back street in a handbox built of brick and named a house more than likely our workman has his home, there to pass away the weary hours of the night amid the heat and stagnation of probably a filthy street only a few feet wide, hot, close and dirty. In any large city on some sultry night one may see the workmen and their families in these little narrow city streets stretched about the steps and pavements in all conditions. These are not slums either, but fairly respectable neighborhoods.

To such a condition of life many of our country boys have gone, and many more are today preparing to go. Fat pay and big pay envelopes? Not in those times, if our city laborer averages \$12 a week he is a lucky man. Tens of thousands get less rather than more. Country boys, before you make the change, in the name of that country you have been taught to hold in reverence, look and do not leap! If you understand farming there are just as many chances on the land to be worked out as there are in the city.

This is a great country, and if you do not like the kind of farming you are working at there are many others. If you belong to a family that follows the grind, grind system of all work and no play, when you reach your majority and start for yourself follow out an easier system. Do not condemn country life just because you have been unfortunate enough to be brought up in the home of a man who knows nothing but grind. Do not overlook the fact that if such a man was your boss in the city he would grind your life away. Long, long before you were twenty-one years old you would be occupying some six feet of green turf, where at last you would not hear the divided call and curse of the boss.

Country life may not be and probably is not what many would like to color it; but, all things being equal, it is far preferable to city life. That is just where it comes in. City life is never compared with country life on an equal plane. Remember that if you must work in the country for a living you will have to work in the city for one, too, and if you possess the ability in yourself to rise above the ordinary workman in the city that same ability will carry out a home for you in the country. Look before you leap, consider all things, and if you are sure

you can better yourself in the city go; if not, stay on the old farm.

Plowing For Grape Leaf Hopper.

Plowing is sometimes done by California vineyardists during the winter season for the purpose of destroying the grape leaf hoppers. This is partly based upon the supposition that the eggs may be in the leaves or in the ground or that the adult hoppers are in some way killed in the operation. So far as having a direct effect in destroying the hoppers is concerned, plowing is of little avail. The only ones that will be killed are a few that may not be disturbed from their resting places among the leaves or otherwise accidentally buried by the plow. During the cold or rainy days there may be a few thus turned under, but ordinarily they are active enough to escape readily before the plow.

Plowing, however, may have an indirect effect on the hoppers by depriving them of food or of suitable sheltering places during unfavorable weather conditions, and if this practice is generally carried out in a neighborhood it will no doubt result in reducing the numbers somewhat. However, a field may be free from hoppers during the winter, but this is not necessarily an indication of freedom from spring infestation. The insects are more generally distributed in the winter season, but the bulk of them will usually be found in the vineyard or on the vegetation of the borders immediately



ADULT GRAPE LEAF HOPPER.

surrounding it. They may come in, therefore, from vineyards closely adjoining, so that plowing a single vineyard may be of little help. When the plowing is done in a single vineyard or over a small area it is likely to result simply in driving them into other fields where there is a better food supply. Once in these other situations they may or may not come back into the vineyard where they were originally.

THE KING OF FRUITS.

No Other Disputes the Reign of the Popular Apple.

Whatever temporary allegiance we may owe to other fruits in their season, the apple is the acknowledged king. The orange, the pear, the plum, the grape and other products of the orchard all have their place of honor, and it is only the apple that is with us always. Scarcely have the winter apples of last season disappeared but Baldwin has been taken from the bottom of the barrel, when the summer apples of the new season are ready for eating. And what is more welcome, what is more fragrant, what is more luscious to the taste and more beautiful to the sight than the reddening August boughs of the summer apple trees?

But, however delightful the summer and autumn apples may be, their short life deprives them of the perennial place in our esteem that we award to the Baldwin, the Northern Spy, the Hubbardston, the King and dozens of other varieties. Ripening when the first snows of winter are imminent, if they receive their deserved treatment of a cool habitat in a well ventilated cellar they will remain sound and eatable well on toward the opening of another apple season. But they as well as all apples must be well treated. An expert pomologist has said that apples should be handled as if they were eggs, and he is not far from wrong. The slightest bruise means the instant beginning of decay, and one rotten apple can infect an entire barrel. Lovers of apples should therefore learn that care is essential to the preservation of fruit and that the better they are treated the longer the store will remain sound and healthy to meet the demands made upon it throughout the winter and spring.

The Manure Spreader.

There are not many farm implements that will pay for themselves more quickly than a manure spreader. It saves labor, but that is not the big part of the profit. Some men must hesitate about a purchase if it means

only a saving of labor. The use of the spreader means a great increase in the efficiency of the farm supply of manure. Some men cannot see this point. They say that they get the manure on the land and that is all that is necessary. But it isn't. Manure gives life to a soil even when the application is light, and it is poor policy to give one spot more than is needed while another spot is left bare or to make a heavy application to one acre and leave another acre without manure. We now know that it pays to make the manure go over a relatively large acreage. Director Thorpe of the Ohio station has said that eight loads of manure per acre applied with a spreader have about as great efficiency as twelve loads put on roughly with a fork. Every foot gets a little of the material, and the effect is seen in the soil that follows or the sod to which the manure is applied. Land should not have a heavy dressing of manure when other land in the farm needs manure. Make the application light and even, and only a spreader can do the work well. In the interest of better sods with beneficial life of the soil, add to the efficiency of the manure by using a spreader. Some farming communities have learned this lesson thoroughly well, while others have barely awakened to it.

Weevil in Wheat.

H. A. Gossard, entomologist of the Ohio experiment station, gives the following method of ridding wheat bins of weevil:
To destroy weevils working in wheat bins fumigate with kerosene of carbolic. Procure one pound of the liquid for each thousand cubic feet of space enclosed in the bin. Pour the liquid into shallow containers, such as plates or tin pans, and set on top of the grain.

Make the building as nearly air tight as possible by pasting paper strips over the cracks, windows, etc. If the door does not fit tightly tack a horse blanket over it with lath strips after charring the lath with the chemical. Keep closed for thirty hours. Do not bring a lamp or light of any kind, such as a lighted cigar, near the building while fumigation is in progress. Fumigation for thirty hours ought not to injure the grain for either seedling or milling purposes. If one fumigation does not succeed repeat the treatment as often as necessary, increasing the dose if the building leaks gas.

Bovine Tuberculosis.
My experience and observations during the past seven years convince me that bovine tuberculosis is a stable disease, that it is very rarely, if ever, communicated from one animal to another while cows are in the pasture unless it be to a sucking calf, and that it is safe to assert that disease will never be permanently removed from dairy herds until more sanitary conditions are introduced into a great majority of the stables where the dairy cow is housed.—Dr. Leonard Pearson, State Veterinarian.

Index to Horse's Character.
According to the Royal College of Veterinary Surgeons, England, the horse's face is a good index to his character. If there is a general curve to the profile and at the same time the ears are pointed and sensitive, it is safe to describe the animal as gentle and at the same time high spirited. If, on the other hand, the horse has a dent in the middle of his nose he is likely to be treacherous and vicious. A horse that droops his ears is apt to be lazy as well as vicious.

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Train No. 65. Leave Dallas, daily, 6:00 a. m.; ar. Monmouth, 11:50 a. m.; ar. Dallas, 11:30 a. m.
Train No. 66. Leave Independence, daily, 10:45 a. m.; ar. Monmouth, 11:50 a. m.; ar. Dallas, 11:30 a. m.
Train No. 67. Leave Independence, daily, 6:15 p. m.; ar. Monmouth, 6:20 p. m.; ar. Dallas, 6:55 p. m.

FOR AIRLIE.

Train No. 67. Leave Independence, daily, 7:30 a. m.; ar. Monmouth, 7:40 a. m.; ar. Airlie, 8:15 a. m.
Train No. 72. Leave Independence, daily, 8:30 p. m.; ar. Monmouth, 8:30 p. m.; ar. Airlie, 4:25 p. m.

FOR MONMOUTH ONLY.

Leave Independence, daily, 2:30 p. m.
No. 101 arrives Monmouth 7:20 a. m.

FOR INDEPENDENCE.

Train No. 65. Leave Dallas, daily ex. Sunday, 8:30 a. m.; ar. Monmouth, 8:50 a. m.; ar. Independence, 9:10 a. m.
Train No. 69. Leave Dallas, daily, 1 p. m.; ar. Monmouth, 1:25 p. m.; ar. Independence, 1:40 p. m. (This train connects at Monmouth for Air- lie.)
Train No. 71. Leave Dallas, daily, 7:30 p. m.; ar. Monmouth, 8 p. m.; ar. Independence, 8:15 p. m.

FROM AIRLIE.

Train No. 66. Leave Airlie, daily, 9 a. m.; ar. Monmouth, 9:30 a. m.; ar. Independence, 9:50 a. m. (This train connects at Monmouth for Dallas.)
Train No. 72. Leave Airlie, daily, 5:00 p. m.; ar. Monmouth, 5:40 p. m.; ar. Independence, 6:00 p. m.
Train No. 100 leaves Airlie 4:45 p. m. SUNDAY ONLY; arrives Monmouth 5:20 p. m. arrives Independence 5:30 p. m.

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