TWO GARDEN FOES.

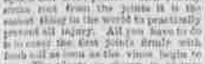
The Squash Vine Borer and Squash Bug That Attack Vines.

In fighting the squash vine borer the first aim should be to repel the moth and prevent her from depositing her eggs on the plants. Perhaps the surest way to succeed is to accomplish by placing cornstarch sprinkled with coal tar, turpentine, kerosene or carbolic acid near the roots of the plants. Greiner, in "How to Make the Garden Pay," says:

LAYERED SQUASH VINE.

If we have not been successful in keeping the moth off we should hunt up and destroy the larvæ (borers) when they first begin to tunnel through the main stock near the surface of the soil. They give the preference to pumpkins, squashes and similar members of the gourd family, but also attack melons and cucumber vines, nibbling the stem near the ground and often cutting off all communication between top and root. Discover their location and dig them out with the point of a sharp knife. With squash and other plants which readily strike root from the joints it is the safest thing in the world to practically prevent all injury. All you have to do is to cover the first joint closest with fresh soil as soon as the vines begin to run. The plants, as shown in picture from the work quoted, can then be made entirely independent of their original roots.

In July patches of dark brown eggs are to found on the under side of the leaves of pumpkins, squashes, etc., while the squash bugs are hidden under rubbish, clods of soil, stones, etc., near the plants. Few things seem to be repellent to them but to keep a strong odor from all of the plants, but plants flavored with onions or cabbage and may be tried. It may at least tend to lessen their numbers. Trapping is yet the only sure remedy. Place pieces of shingles, small boards, or rubbish of some sort about the hills and examine them for bugs every morning, dispatching them by shaking into a pail containing some kerosene or sudding them with hot water made strong enough of a simple piece of hand soap and hard as here shown. The bug is repellent and is a most disagreeable odor, but should be fought with persistency.



TRAPPING FOR SQUASH BUGS.

SCARLET OR CRIMSON CLOVER.

It rot between the 5th and 15th of May roots to a depth of four feet even to no considerable extent. For silage hay or to plow down for green manure composers will under favorable conditions with any leguminous crop.

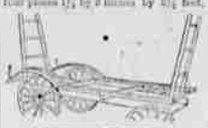
In comparison with ordinary red clover its most marked peculiarities are (1) its ability to flourish on relatively poor soils (2) its development during the fall, winter and spring. Growing at a time of the year when most of our food weeds are in seed, it escapes new danger and, provided it is allowed to mature well dead, equal root system, it finds sufficient food when the red clover would be on half rations. As it grows when wheat and even rye seem dormant, it cannot be seeded with winter grain. One or the other crop would be destroyed. As it is in blossom on or about May 1 it can be used for many other purposes than those usually served by red clover, particularly for soiling and for plowing down in place of rye.

European writers mention few varieties of this clover differing essentially from each other in their relative powers to withstand winter weather. It is said the Delaware type of scarlet clover has stood the temperature which killed upon any proper soil in that state.

A Basket Wagon Rack.

The wagon rack illustrated in the accompanying cut was built by the students of the North Carolina Agricultural college last season. The report upon it is that it can be placed on any farm wagon by lengthening out the reach to suit the length of the rack. It has been found suitable for the convenient and easy loading of hay, grain or corn fodder.

The list of materials, which cost $7.65 in Raleigh, is as follows: Two stiles 2 by 4 inches by 14 feet dressed on two sides, four pieces 1½ by 3 inches by 2½ feet, four cross pieces 3 by 4 inches by 6½ feet, two boards 1 by 9 inches by 13 5-6 feet, two boards 1 by 4½ inches by 13 5-6 feet, four side pieces 1 by 4 inches by 8 2-6 feet, six braces 1 by 3 by 6 2-6 feet. The two lifters take four pieces 1½ by 3 inches by 8½ feet, two pieces 1½ by 3 inches by 2½ feet, two pieces 1½ by 3 inches by 2½ feet, two rounds 3 7-12 inches by 2½ feet, two rounds 3 7-12 inches by 2½ feet and the third corners 1½ by 1½ by 20 inches, twelve oak pins ½ by 3 inches. There are two blocks nailed under the front crosspiece 4 by 4 by 2½ inches, four under the second crosspiece 1½ by 2½ by 4 inches. The bolts needed are two carriage bolts ½ by 14 inches, six ½ by 10 inches, four ½ by 7 inches, sixteen ⅜ by 5 inches, four ½ by 8½ inches, twenty ½ by 2½ inches, eight screws of ½ inch wire, 2 inches long, and fourteen washers.



A CONVENIENT WAGON RACK.

News and Notes.

An increase of 33 per cent is expected in the rice crop of the United States this season.

Wisconsin appropriates $12,000 per year for institute work. Seventy-six farmers' institutes were held in that state last year.

Ohio held 124 institutes last year at a cost of less than $6,000.

Brahmas intended for the third exhibition of the New York and New England Agricultural and Industrial society, to be held on the Albany fair grounds during the week beginning Sept. 19, can obtain the premium list by application to the secretary, J. C. Carter, 445 Broadway, Albany.

The reason for the excess for cereal crops indicates a very decided increase in the acreage of oats in several of the western states, notable changes in the wheat area and a large increase of corn acreage in the west.

The grand race between the two sailing ships Shenandoah and Tom O'Shanter, from the Atlantic coast to San Francisco, will cause interest in sailing craft. It is not well to be open sailing the absorbent cut. The Shenandoah sailed from New York, the Tom O'Shanter from Baltimore on the same day. They went around Cape Horn and both arrived at San Francisco in 113 days, the Tom getting in three hours ahead of the Shenandoah. After rounding Cape Horn the two vessels were in company for a week.

Important additions to astronomical knowledge will be made when the photographs of the oscillation of Mars are developed and examined. It took the moon one hour to pass between the earth and the planet Mars, the oscillation beginning at 10 o'clock and lasting until 11, in the longitude of Goodsell observatory, at Northfield, Minn. The oscillation was visible also throughout the whole Mississippi valley and in the eastern states. It is hoped to ascertain from the photographs of the planet whether Mars has and one or more moons. Mars is the planet most interesting to us of the earth from its nearness and the possibility that it may be inhabited by beings like ourselves, not too much like us, that is, not just enough.

The Horseheat Idea.

It makes the weary winter long for the water and the shady horseheat, with all its comfort and home pleasures combined, to follow Mr. C. L. Norton's description in Outing of the model one. The idea will become more popular undoubtedly as the summers come and go. Mr. Norton says that a thoroughly comfortable horseheat can be built for from $100 to $200.

There are various ways of propelling the floating house. If you are on a tidal river you can go or come with the incoming or outgoing waters. On an inland river you can float down stream lazily and leisurely for hundreds of miles. In most streams a tug will tow your boat; on canals mules will haul it. You can utilize sail power, too, and move whither you will under canvas. If you are rich you can fit it by steam. A small tow and sail boat will in all cases enable you to occupy a side off the shore to obtain supplies. You can fish, swim, sleep, play your guitar or piano, and dream that you are in paradise, as you are while your summer vacation lasts.

Mr. Norton gives directions about making a houseboat and instructions for navigating it. For instance, if you are in the boating set and want to be in the shadow:

Tie all hands to set anchors, stamp the bottom of they are to cast, and move the house from the southern side, take your place, move out or be cast out for have a magnificent evening on a boat.

Some English Working Girls.

When the free or so called board schools of Great Britain were inaugurated, less than twenty years ago, it was found there was a large class of girls whose wants could not be met. They were nearly or quite grown and had to earn their own living. Very frequently good city attend school in the evening. Some of these had learned to read and write in childhood, but had even forgotten that rudimentary knowledge.

To meet the wants of this class of girls a benevolent lady founded in London a working women's college. That was what it was called, but the studies taken it upon were the reverse of college branches. Many of the young women had to be taught even reading and writing. Hence to provide with the multiplication table. But the school was also maintained, and has been for seventeen years. The fine sight manners of the British character when once its attention is centered in any direction is shown by the fact that during all the seventeen years the college has been maintained teachers have been found who give their services free of charge.

From the "Rose" Hy with which the training started, the classes have gradual up into boating, bookkeeping, elocution, higher mathematics and even Latin and French. The public schools have given the pupils that come to the college a good rudimentary education. But the working women's college has done much more than to give these building girls literary culture. Under its auspices the young women have formed social clubs and a penny savings bank and enjoyed each year concert music of an excellent kind. There is, too, a holiday fund for summer outings. Each girl contributes a small amount weekly, in some cases twenty-five cents. The gives her enough to have a trip to the country annually, lasting from one to two weeks. In this admirable way the kindly women nature existing in common in the souls of good rich women and good poor ones comes in touch.

What Manning Knew About Burlin.

Manning's logic was always fortified by that "readiness to assume consciousness," which is so useful in the ecclesiastical career, and by a gracious Providence so lavishly bestowed. There was once a debate in parliament about the "burlin duty," and as the term was little known, an admirer of Manning went to him for an explanation.

"Dear me," replied Manning, "not know what burlin means! I will explain it. You see, in commerce, there are two methods of proceeding. At one time you load your ship with a particular commodity, such as tea, wine or tobacco; at another time you select a variety of articles suitable to the port of destination. And in the language of trade we describe the latter operation as burlin."

Manning did not speak the language of trade, because he was assuming more knowledge than he possessed, but for that reason he always spoke the language of papal historian and catechisms. The inquirer about "burlin" soon found out that it meant an allusion obtained from the ashes of a Spanish repast table. "Splendide mendax" he may have thought when he learned the truth, "and his faith in Manning's infallibility was no longer the same."—London Academy.

Gee Gee Rooms.

A wedding came off at Tyrone at the unusual hour of 6:30 in the morning. It is unnecessary to add that this was the working of a railroad man. Any other kind of a man selecting the same time would have been married at a quarter of 7 o'clock.—Philadelphia Inquirer.

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