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Sow Bugs in Mushroom House-W. H. E. & Son have had beds see with mushrooms two weeks, but sow bugs mushrooms two weeks, but sow bugs are so numerous he is afraid they will destroy the crop. The usual recommendation, when sow bugs are complained of, is to admit air and sunlight and to use lime and other drying and disinfecting agencies. Of course this is out of the question with W. H. E., and the only course that seems feasible is to entice the bugs to take shelter under convenient small brands or similar shelter and turn these every day, destroying the creatures that take day, destroying the creatures that take shelter there in any convenient way. I would also advise trying little masses I would also advise trying little masses of mixed bran and paris green moistened with sugar water and placed under board ends. If it is found that the sow bugs feed at all freely on this, no other measure will be necessary. I know of no insectlede that could be applied in the mushroom beds that would not be about as dangerous to the plants as to the bugs.—[Prof John B. Smith, N J Exp Sta.

The Demand for Potatoes is one of close discrimination with the markets well supplied. The large crop in-dicated in the last number of F & H is moving to market rapidly at moderate to low prices.

All Around the Farm.

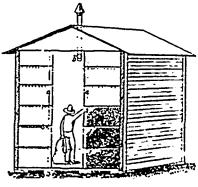
THE SWEET POTATO HARVEST.



O keep sweet potatoes, they must first be prop-erly harvested. Cattle may be turned on first to eat the tops and vines, afterward hogs may be turned on to harvest the In this tubers.

tubers. In this way nearly all the crop may be saved at a minimum cost. If the potatoes are to be dug, it is important to know when to dig the crop. They should not be dug when the sap is active in the vines. If, when a tuber is cut, the cut place partially heals over and becomes dry, the crop is usually ready to be harvested; but if the cut place turns greenish black, the crop is not ready to be harvested.

Vines are a great nuisance in harvesting sweet potatoes. We have used a sharp rolling coulter on the beam of



A TEXAS POTATO HOUSE.

a turning plow just in front of the point successfully. This rolling coulter cuts the vines on each side of the row,

a turning plow just in front of the point successfully. This rolling coulter cuts the vines on each side of the row, while some dirt is thrown away from the row at the same time. The third time the turning plow is run in the center of the row and the potatoes thrown out. The tubers are then gathired and sacked. Care must be taken not to bruise them, as the "soft rot" is apt to start at all bruised places. All bruised tubers should be sorted out at once and fed before storing.

We have obtained good results against black rot by letting the tubers remain in the ground where they grew until wanied. Throwing ditt over them with a turning plow will prevent freezing. If potatoes are to be stored, they must be dried out first, and those which decay from soft rot must be taken out frequently. In about two weeks after digging they will be dry, and the soft rot will stop. The cut shows a pointo house we have used in keeping potatoes, both sweet and Irish. It consists of two outer walls with a dead air space between Also two doors, at jouble floor, and a ventilator. The ventilator, b. may be opened and closed at will During warm days in the fall the doors are left open for further ventilation. Inside are upright pleces, a, which project from the floor to the celling. Strips, c, reach from these across to the wall, and on these planks are laid lengthwise, which are also alled against the side of the posts, thus forming a long box. The potatoes are stored in these, and dry road sand mixed with them, as shown at d. Mize cannot go through dry sand.

Potatoes kept well in this house when the temperature went down as low as 7 degrees Fahrenheit, and not 1 per cent was injured by freezing. The sand

Potatoes kept well in this house when the temperature went down as low as 7 degrees Fahrenheit, and not 1 per cent was injured by freezing. The sand must be changed every year for sweet petatoes, because it is very apt to con-tain spores of diseases which wil' in-fect the next crop when stored. Where fect the next crop when stored. Where we did not change the sand nearly all the crop was lost from black rot. The potatoes that have kept best are the Brazilian, Canal, Shanghal and Southern Queen. The purple skin varieties rave resisted the disease best. We have failed in trying to keep the vines over winter when stored in dry sand and when buried out in the ground. ITEX Exp Sta Bulletin.

The decrease of humus, that is, of decaying vegetable matter, is robbing the soll of its loamy, spongy character so essential to maintain a high percentage of water in the soll so that all the physical and chemical agencies at work in preparing and conveying food to the roots of plants may work in harmony and work effectively. It has been shown that while percolation robbed eastern solls of half the annual rainfall, evaporation was the greatest souce of loss in the west, and with the decrease of humus the loss from this source would increase. The summer rainfall was shown to be as great in the west as on the Atlantic coast, but the winter rainfall was much less. The progressive farmers of Kan and Neb are now awake to this source of loss, and have The decrease of humus, that is, of derainfall was much less. The progressive farmers of Kan and Neb are now awake to this source of loss, and have for 10 yrs been introducing crop rotation, soil renovation and improved methods of culture. The practice of plowing under green catch crops is increasing, and the importance of maintaining several inches of dry soil on the surface to form a protecting mulch and conserve the moisture is no longer questioned. The farmer who owns the 'soil he tills can do these things. The tenant farmer is decreed to continue the work of soil-robbing and soil depreciation, and is denied the opportunity to build up where he tears down because of the prevailing system of one-year leases. This system is born of a desire on the part of m-resident twees to sell and give prompt possession.—[11]. It. Hilton, Kan, to National Farmers' Congress.

THE CORN GRAIN MOTH.

The Angoumois grain moth is one of the most injurious insects to corn in some sections, especially in the southern states. The illustration shows part

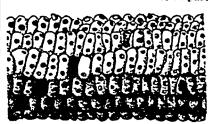


FIG 1. CORN RUINED BY ANGOUNOIS MOTH

of an ear ruined by this pest. Prompt and energetic measures for its extermination must be practiced as soon as it is discovered the pest is at work in the grain. The larva burrows in a the it is discovered the pest is at work in the grain. The larva burrows in the kernel, hollowing out the interior, as shown at f. Fig 2, and when escaping perforates the outer end of the kernels, making the ear of corn look as if it had been perforated by small shot. In open cribs where corn is stored in the ear, it is difficult to apply any remedy, and it would seem to be the best plan to shell and store the corn. If it shows any indication of the presence of this pest, putting the shelled corn in tight bins where it can be treated with bisulphide of carbon. There is, of course, practically no danger where corn is marketed during the winter or spring following its growth.



FIG 2. THE CHANGES OF THE INSECT.

In Fig 2, the larva is shown at a, upa d, moth c, larva in kernel of pupa d, grain f.

Lettuce Rot is troublesome in some sections to lettuce grown under glass during winter and early spring. Lettuce is not easily sprayed and then it have failed in trying to keep the vines over winter when stored in dry sand and when buried out in the ground. ITEX EXP Sta Bulletin.

BOTATION OF CROPS PAYS.

The loss of nitrogenous material from the soil is not the only danger confronting the western farmer. A continuous one-crop system extending over a quarter of a century is working a change in the physical properties of the soil.

The physical properties of the soil.

series of tile in each bench, the number of series depending on the width of the bench; close the joints with eement around the under two-thirds of their circumference; fit the end tile closely to the wooden frame at one end of the bench, and bore a hole through the frame so as to open into the tile. One can then keep the earth moist by introducing hose connected with a hydrant, or by using the spout of a watering-can the rose having been removed. In other words, the plants are watered by the sub-irigation method. To avoid the rot which creeps up from the tips of leaves resting on the soil, i have adopted a mulch of fine excelsior, and it answers the purpose perfectly. The fine chips produced at planing mills do not answer so well, since they soon become compacted and then soak up and retain moisture from the soil. The central idea of the method is: Keep the exposed surfaces of the plants dry.

Building Paper is an excellent insulating material. It is practically air proof and thus prevents circulation of proof and thus prevents circulation of nir through itself. If the places where it laps over, in being put on, are not made perfectly close that air-proof quality is lost. Particular pains should be taken in putting the building paper on to see that it is not torn at any place and that there are no holes in it. Whenever a hole appears a patch should be tacked on, making that part close. Two layers of building paper should be used between boards.

Upon the Product of the Dairy Farm, the manufacturing dairyman is dependent for his prosperity, and the greater the amount of raw material dependent for his prosperity, and the greater the amount of raw material produced the greater the profit. In some sections there are inspectors whose duty it is to go around and visit factories and give individual instruction. Would it not be a good thing to extend the system and have a few instructors on the care and feeding of dairy cattle, who in any section where poor milk is being supplied would be available to give individual assistance to the farmer, to give such instructions as would enable him to produce a better quality and a greater quantity of milk from a given outlay? This is a practical plan and by this means the very men who need the help most, men who do not attend our institutes, men who have got into a rut axle deep, would be reached, and who knows how many would be aroused and made into progressive farmers?—[Prof J. H. Grisdale, Ont Exp Farm. dale, Ont Exp Farm.

Me and provincial cabbage keeps northern markets supplied until Mar or Apr. the spring crop of Ga and S C reaches market in June. When the northreachesmarkerinJune. When the northern crop is small, as yiwas lastyear, the southern trucker who can get his crop into northern markets early can make a good thing. Often the southern grower can anticipate such conditions, and put in a large crop. There is a large southern market that would depend on Fla for cabbage if the supply were constant. An extensive trade has already sprung up with New Orleans.

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