

GUY ELLIOTT MITCHELL.

Farmers from time to time send in | homesteads teem with mushroom complaints to the Department of Agri-culture that not only their stock, but culture that not only their store, and even farm hands, have been sickened and killed through the presence and killed through the presence some call it, the fly killer, and the So frequently have these complaints arrived at the department that officials of the Bureau of Plant Industry, under the direction of Mr. Frederick V. Coville, the chief botanist, are now making extensive experiments to ascertain the exact elements causing this damage.

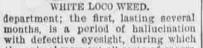
In order to aid farmers in the detection of the most common plants found on their farms, the department has is-sued a farmers' bulletin, No. 86, entitled "Thirty Polsonous Plants of the United States." This gives in detail full descriptions of the plants, the symptoms of the poisoning, and in many cases antidotes for the relief of men or animals taking in the poison. It would be well for all agriculturists to keep a copy of this pamphlet among their ready reference books. The offi-cials of the Bureau of Plant Industry are only too glad to furnish this most valuable farmers' bulletin to all who may apply.

Destructive to Live Stock.

Probably the most destructive pois-onous weed in the United States is the loco; the damage is so extensive that during the period between 1881 and 1885 the State of Colorado paid out over \$200,000 in an endeavor to exterminate the weed.

The foliage of the loco weed is not the agent which imparts the poison to live stock grazing upon land impreg-nated with it, it is the roots and stalk which contain the poison. Animals under the influence of the stimulant go through antics as though they were intoxicated, their eyes become glassy, they sprawl around in maudlin fashion until, with sheer exhaustion, they fall to the ground in a stupor. The effect of the poison is not acute, but in its progress simulates diseases slow caused by bacteria, worms or other parasites. The stages of a locoed animal are recognized by officials of the





growths, some of them edible and others deadly poison. Among the latter class the farmer has to contend with From \$2,500,000 to \$3,000,000 worth



death cup. The former has been used in Europe for hundreds of years as a fly poison, and in Asia it was formerly used as an intoxicant. Cattle are pois oned by this species as well as men, and it is supposed that the flesh of live stock so poisoned is rendered unwhole-some. The death cup is not quite so were destroyed. From these extra they weigh about 100 pounds. some. The death cup is not quite so were destroyed. large as the fly amanita and is not so attractive in appearance to the inexperienced and experimenting epicure. A large number of cases of poisoning have been attributed to this fungus; in most of them it was supposed to be edible, and in a few instances the mere handling of the plant caused serious trouble

The bulletin above mentioned goes on to describe the common poisonous weeds and plants of the country, some of which are thriving in abundance in the East, West, North and South, and it is believed covers the weeds which bring harm to the farmer of every sec-The following is the list of tion.

tion. The following is the list of plants described in the bulletin;— Fly amanita mushroom, death cup mushroom, false hellebore, pokeweed, corn cockle, dwarf larkspur, Wyoming larkspur, purple larkspur, choke cherry, wolly loco weed, stemless loco,weed, rat-tlebox, caper spurge, snow on the moun-tain, poison tvy, polson oak, polson su-mac, red buckeye, water hemlock, Oregon water hemlock, polson hemlock, broad-leaf laurel, narrow-leaf laurel, great laurel, staggerbush, branch lvy, jimson weed, black nightshade, bittersweet, sneezeweed. sneezeweed.

To Shorten Moulting.

The various state experiment stations have been devoting considerable time and attention to one feature of poultry raising, which has been stumbling block in the way of obtaining the greatest amount of profit out

Eight Weeks Growth From Seed of New Hybrid and Stand. ard Variety. The New Lettuce

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Q7BROM HACE

Breeding Sturdy Lettuce.

Through the process of "forcing." owners of greenhouses are able to

produce crops, weeks and months

before they could arrive at maturity

through natural courses. In addition

the crop is made to develop far more

rapidly and to attain proportions

such as nature could not accomplish.

particularly liable.

the



COOLES CO

of lettuce alone is "forced" in the Few people have any conception of United States each winter. Green- the astuteness of the moose, said a suc-

Fratracidal Battles.

house gardeners in an endeavor to cessful hunter who is exceptionally "get rich quick" have falled to note well acquainted with the habits of this that this fording was weakening splendid game animal, in speaking of their stock until now the weak let- a recent trip. They possess a keenness tuce often becomes so diseased in the of scent and hearing that is almost behothouse that it is by no means rare yond belief, and an intelligence that is for a gardener to lose an entire crop seldom credited to them by any one of greenhouse lettuce by a disease to except those who have devoted considwhich these overstrained plants are erable time to studying them and their ways.

NORTHWEST REGIONS.

Dr. B. T. Galloway, chief of the In the section of the country where Bureau of Plant Industry, in order to we were the larger part of our stay correct this evil, has been working for moose were exceedingly plentiful, and two seasons on this subject and has we had the finest opportunity to obat last succeeded in obtaining a crop serve their actions. We followed them of winter lettuce plants immune to from one place to another, endeavorthe lettuce disease. At the same time ing not to frighten them and all the the plants are of large size and capa- while noticing them very closely. ble of developing as early as the most In the mating season, which comspecialized of winter lettuce. This mences around September 20 and ends work has involved much time and the about the middle of October, the bulls are exceedingly vicious, while the cows sarifice of thousands of plants. Seed are timid and seek the deepest forests, of healthy winter lettuce was planted, and at the proper time opinion that the males kill many of

their mates at this time. plants were crossed with The cows soon betake themselves to some island, in order that they may not wild lettuce-a species free from disease. Millions of seeds of these be disturbed by wolves or other wild cross-bred plants were sown in beds- animals. The moose calves are about a thousand in each-and out of each I have ever seen. as homely and unsightly as anything Their heads are thousand two or three of the largest nearly as long as their bodies, and



Tropical Fruits.

There is something fascinating in the development of tropical fruits, those things which we can not grow in the emperate and colder climates, where Jack Frost is sure to reap his annual harvest. There is the mango, for instance, which the Department of Agriculture is growing in Porto Rico, and the alligator pear, a most delicious tropical vegetable-fruit, the pepino, and a score of others which will stand little or no frost. To most persons there is a glamor and a fuscination about the tropics and its products. We have in the United States no tropical section. Frosts or chills of atmosphere are ikely to visit us at all points. In Porto Rico and the Philippines, however, are found the genuine tropical

onditions where nothing worse occurs than the hurricane which sweeps away every vestige of vegetation, house and ccupants; but there is no frost.

While we have taken control of Porto Rico and the Philippines, nevertheless, it is the constant endeavor of the home government to cross and hybridize tropical with hardy fruits so that they will stand the cold and frost of northern climes. The artificial evolution of the hardy orange is an example of this.

By selection and cross breeding, plants can become wonderfully well acclimated and as a result the northern varieties and species are gradually invading the southern fields, while the northern orchards are constantly being augmented by new species hitherto exclusively southern in temperament.

To Keep Egg Records.

The Maine Experiment Station has published a description of a nest box which is claimed to be simple and inxpensive, and certain in its action, or use where it is desired to keep a record of how hens are laying, in order to weed out the poor ones of the flock. the station has used these nests in experiments undertaken to establish breeds of hens that shall excel as egg producers. A description of this box, and how to make it can be found in farmers' bulletin No. 114, of the Department of Agriculture.



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the animal may cut all sorts of capers. Once acquiring a taste for the loco plant the stock refuse every other kind of food until the second stage is ush-ered in. This second stage is a lingering period of emaciation characterized by sunken eye-balls, lusterless hair and feeble movements. The animal dies, as if from starvation, in periods ranging from a few months to one or two years.

Various States have attempted to adopt measures for the eradication of the loco weed, but so far these attempts have not met with much success. Colorado, a number of years ago, offered a reward of so much per ton for quantities of the loco weed brought in for extermination. The Mexican greasers, with great thrift, started in to farm and raise loco weeds. One of the prime reasons for failure to eradicate this weed by State action has been the inability to properly identify the loco plant. In some States it has been one weed which has caused the poison, and in others an entirely different species has re-sulted in live stock destruction.

Experiments in Poisoning.

However, the Department of Agriculture is now making experiments with various poisonous plants of the West, injecting the subtle poisons into sheep, cattle and guinea pigs, and studying every symptom, until it is hoped that some measures may be adopted by stockmen to prevent loss through eating of the loco.

But it is not only the West that is complaining to the Department of Agri-culture on account of the presence of poisonous plants, for there is no section of the country which does not abound with some form of plant life which is either of an irritant or poisonous character. New Jersey recently reported a few cases where children were poisoned by water hemlock. Oregon loses cattle every year through one species of cicuta. Familiar to us all is the action of polson ivy. While it is irritable to human beings, it has no apparent effect upon animals, horses, mules and goats eating its leaves with impunity. A number of people are im-mune to its action, but some lose their resistant power in middle life; others have been known to attain immunity only through considerable exposure to the poison ivy.

Deadly Mushrooms. The meadows and pastures of many



tore'd his close.

ILLBIDE NURSERY, SOMERVILLE, MASS what your ancestors did!"



SHOWY MILKWEED.

of the business. When a hen moults she stops laying eggs and no amount of persuasion can induce her to again commence doing business until she is ready. The California Experiment Station has been making tests with the object of shortening the moulting season of laying fowls. Hens usually commence moulting in the early fall and the plan of the California Station is to hasten this time into early summer. This is accomplished by a method of light feeding, followed with heavy feeding. The egg-laying is stopped and moulting is brought on by a onehalf reduction of the supply of nitrogenous food, meat, middlings, and the The hens, under this plan, stop likes egg-laying and go to moulting. 10 about a month, it is claimed, the moult-ing process is all finished and then the ordinary feeding is resumed; the hen then begins to lay eggs early in the full. The experiments of the station have not been concluded, so that it is still unsafe to say whether or not the new method will prove practically successful.

Came as a Shock. Flossle-"Mamma, were you at home

when I was born? Mumma-"No, dear, I was at grand ma's, in the country,

Why is a ragged boy like a minister near the end of his sermon? He's

"My ancestors came over in the Maylower," boasted Bineblood, "but it isn't generally known." "That's all right old man," said his friend. I'll never tell. You can't help

large early and fine heads another crop was raised, and it is from these The calf and its mother remain to that seed will be furnished to the gether for about nine months, the greenhousemen of the great cities. It is believed that through this work

will be saved from ruin the winter lettuce industry, which for the last three years has been threatened with extinction.

Secretary Bonaparte, Farmer.

About 15 miles from Baltimore is the farm of Secretary Charles J. Bona-parte of the Navy. Before he became the head of the Navy Department, Secretary Bonaparte used to spend six months of the year on his farm. He arose daily at 5.30 and always took a look over the place before breakfast. After breakfast he would drive into time people were getting out of bed.

HON. CHARLES J. BONAPARTE. Secretary of the Navy.

Secretary Bonaparte has never expected to make a fortune out of his farm, but simply supports it as a means of recreation.

Smile, a sign of happiness; miss, the

The temperature in the Sahara Desert often rises to 150 degrees in the point at night.

"A little learning is a dangerves "A little learning is a dangerozs thing. Drink deep, or faste not of the Pier'un Spring."-Eacon. "And he that dows one fault at first And lies to bids one fault at first."

And lies to hide, makes two,"

mother, of course, providing food and shelter for the younger animal. But after that length of time has elapsed she will try to get away. In order to do this she will often travel miles upstream, so as to leave no scent, and, as a rule, she succeeds in accomplishing her purpose. The bulls have a peculiar grunting

sound by which they call to the cows A man can imitate the call after long practice, but not so perfectly as to deceive them. The only way in which this ruse can be successfully carried out is to make your call at the same time that the moose make their noise. In this manner I have called them under the branches of the tree in which I the city, arriving usually about the have been sitting from distances as great as a mile or more. The males also have an odd habit of

striking their antlers against trees, making a sound that rings clear as a bell, after which they bellow long and loud. On a quiet night they can be heard miles away. This appears to be their mode of expressing defiance and challenging a rival to contest.

Antlers No Handicap.

It is astonishing to see them go through the woods while bearing their immense branching antlers. They calculate the distance between two trees to a nicety and hardly ever strike a branch. But perhaps the strangest part of this performance is that this does not seem to retard their speed in the slightest,

In the summer they seek the water, where they will not be pestered by files, and stay there during most of the warm weather. As they are not built to reach the grass with their jaws, be-ing very high in the forequarters, they feed on lily pads, roots, watercress and moose maple during the summer. The watercress grows chiefly in deep water, and to reach it the moose dive in water from ten to fifteen feet in depth, leaving only their heels visible. They stay under from a minute to a minute and a half, and usually do their diving at night. When they have filled their large jaws they proceed to sort out such parts as they want and eat them leisurely.

When autumn approaches they take cause of much happiness. Hence the expression, a miss is as good, as s-mile, willow tops. They stand on their hind

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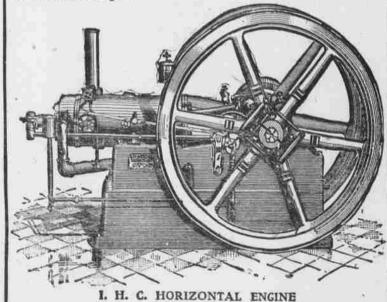
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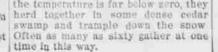
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legs to reach the top of a birch tree fifteen feet above the ground, suap it off, and then pull off the young shorts. daytime and sinks below freezing in the winter they sustain themselves on lichens, ground hemlock and white cedar. When the snow becomes deep and



Flossie-"Wasn't you awfully surprised when you heard about it?