

FUMIGATION OF PEAS.

arie Agricultural College Describes Effective Method of Exterminating Weevils.

Every year we are asked how to detroy weevils in peas. The Ontario agaltural college at Guelph, Ont., issues ood statement of the facts about peas insects in bulletin 126. The two tures shown in cut are taken from this bulletin. The following account is even of the Canadian method of fumi-

mediately after threshing the pear were put into cotton or jute begs. As treatment. One pound of enthouseliphide was poured out into three ans, which were placed on the top he peas; the cover was then put on ox and weighted with heavy stones. 48 hours the cover was removed

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in air had sunk down amongst the as, penetrating them and killing the evils. The quantity of carbon bisulide used by us was larger than that ally recommended, as a powns or a fund and a half is generally considered for the humals of pees, but we

The fumigating box mentioned is shown in the upper part of the picture. The lower part of this picture shows how barrels may be used for fimigating a is shown the adult beetle; b, larva; if desired. The box shown is five feet long, two and four-fifths feet wide and ela of peas at one time. It is made of parts of the larva; g, mouth parts of three feet high. It will hold 30 bushpine lumber one and one-half inch thick, tongued and grooved. The end pieces are mortised into the sides. White lead is used at the joints, and the cover is lined with cloth. The box is so well States, and seems to find the wild rose made that it has been used for dipping its natural ally. The beetia is sometimes this bulletin states:

When pure it will not injure or stain the finest goods. The commercial liquid of rotten eggs. The vapor is more than two and a half times as heavy as air. Carbon bisulphide may be purchased in small quantities from any druggist at about 30 cents per pound, or 40 cents per pint. For larger quantities, better rates can be given by the druggist. The gas, or vapor, which comes from carbon bisulphide is not only combustible, but it is very explosive when mixed with air. Great care should, therefore, be taken to treat the peas in the daytime only, for a light or a flame of any kind brought near the liquid may cause a serious explosion; and smoking near it should be positively prohibited. Moreover, the vapor should not be inhaled, as it is very injurious, even a small portion causing headache, giddiness and nauses. The treatment with carbon bisulphide should be made in boxes, bar-feeds on the seeds of the rose apple, and rels, or 'bug houses,' located some distance from the insured buildings on the October it eats its way out and disapfarm. With the strict observation of the preceding precautions, no one should hesitate to use the carbon bisulphide. As a matter of fact, we have never heard of any bad results following its use in the treatment of peas."

Propagation of Currents.

Instead of the usual method of propagating currants, viz., making cuttings of the new wood in the fall or early winter and planting early in the spring, a better method has been tried enough successfully to be recommended to the public. It is as follows: what soft and sappy, make the cut-World.

Fumigate Young Trees.

Whether the trees set out this fall come from infected or clean localities, it is a good plan to fumigate them. They may not need this treatment, but some eggs or larvae may be left on out of ten, is pretty sure to find out the the trees, which in a short time will trick, and the seller's reputation, if he overrrun the orchard. It is little trou- has any, is badly damaged. If, on the ble to treat young stock before plant- other hand, care is taken to grade and ing. A large dry goods box, lined uniformity is adhered to, an enviable with building paper or otherwise made reputation can be built up which is tight, win make a handy fumigating lasting. Buyers, whether in the loca chamber. Hydrocyanic acid gas or or distant market, soon learn the some other poisonous gas will be a brand of the honest shipper.-Midland very efficient fumigator.—Rural World. Farmer.

SOIL FOR STRAWARDERS.

Variety, Land or Any Other

The question is often asked: What varieties of strawberries are the best for heavy clay soil? What for sandy oam or for gravelly soil?

W. S. Crawford, of Ohio, an authorty on strawberries, says that he does not think the question can be answered in a satisfactory manner. As a general thing varieties are not adapted to special kinds of soil, and will do as well on one kind as upon another, provided they are furnished with the food and drink they need, as they do not depend upon the soil itself, but upon the fertility that is held in solution around the grains of soil.

If the fertifity and water are there they will get it and do well, and if they are not there, the opposite results may be expected.

This brings out the fact that we could hope for best results if we knew just what was already in the coil, as some kinds are likely to be wanting in some of the needed elements and there are some varieties that are not as good as others in stapting the selves to imperfect conditions. Some good authorities state that the Gandy is not adapted to dry, sandy land. This is because the land is dry and apt because it is sandy. In a wet season, or with irrigation, it will do as wall there as anywhere.

Given nitrogen, potash, phosphe acid and water in sufficient quantities and most any variety is not particular what kind of soil it is started in, for it will get them if they are there. We advise not to plant some varieties upon low land, not because it is low merely, but because it is more likely to be frosty because it is low. On such land such sorts as the Nick Ohmer or Marshal are likely to be killed, while the Haviland would likely grow a good crop.

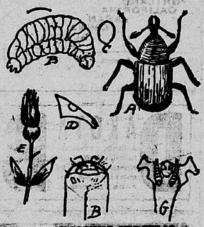
Then there are varieties that should not be grown on heavy undramed land unless they can be well covered, as they will not be able to hold themsolves in the ground, the freezing and thawing causing them to heave badly. PEA FUNIGATING DEVICE.

Success is more to the man than the variety, land, climate or any other condition, says Mr. Grawford for the man who knows how and will use his o a gas, which, being much heavier knowledge will to a great extent overcome unfevorable conditions.-Firm

> THE ROSEBUD CURCULIO Hand Picking Seems to Be On dective Method of Extermina-

We illustrate the Rosebud curculio all parts being enlarged. The insect is about one-fourth of an inch long. At c, egg; d, side view of head of beetle; e, bud injured by the beetle; f, mouth the beetle. Reproduced from bulletin of the Montana experimental station.

This insect has been little studied and its hibernating habits are not known. It occurs in many parts of the United



found eating ripe raspberries and blackberries, but does no particular damage to the rose bush and foliage. The damage is done to the rosebud in which it deposits its egg. The grub, on hatching attains full size in its birthplace. In pears into the ground.

The damage is done to the roses by the holes bored in depositing the eggs. a good many buds so punctured drying up and dropping. Some, however, live and bloom, and in these the larva grows The remedy is the hand picking of

the rose apples before the grubs emerge. These affected buds can be told by the discolored area on the side of the apple in which the puncture was made when the egg was inserted.-Farmers' Review.

Stop All the Small Leaks.

Do not take a notion that your cows are doing well at milking time because growth are well matured, .yet some- you think they are. Possibly they are but a certain Mrs. Jersey may be laytings. Plant them immediately in eith- ing off for a few days and you are the er the nursery row or trench, in well- man who should find out the reason drained, loose soil. Good puddling at and remedy it. It's the little leaks the time of planting will insure the that wreck modern dairying. Records cuttings to start good roots in about should be kept and each cow's output six or eight weeks. This method has tested. Cows that test low and dry off the advantage of giving the farmer in a few months after calving need ro strong, sturdy plants, instead of cut-tings to set out in the spring.—Rural now, as there is no time like the present for improving your dairy.-Rural World.

Honesty in Packing Pruits. In handling fruit and vegetables one of the common tricks is in facing the packages, but the deception is soon It will do no harm. In spite of all care discovered, and the buyer, nine times

HISTORY OF THE ANCHOR.

BC STAVITURE Made in Its Shape Since the

The ships' anchors in general use, up to the beginning of the last cenary, consisted of a long, round iron shank, having two comparatively short, straight arms or flukes, inclined to the shank at an angle of about 40 degrees, and meeting it in a somewhat sharp point at the crown. In large anchors the bulky wooden stock was built up of several pieces, hooped together, the whole tapering outward to the ends, especially on the aft or cable side. About the beginning of the last century, states Scien Siftings, a clerk in the Plymouth naval yard, Pering by name, sugge ed certain improvements, the most important of which was making the arm curved instead of straight. At first sight this simple change may seem of little value, but consideration will show that this is not the case. The holding power of an anchor depends on two principal conditions, namely, the extent of useful holding surface and the amount of vertical penetration. The latter quality is necessary on account of the nature of ordinary sea bottoms, the surface layers of which are generally less tenacious and resisting than is the ground a short distance below.

In the year 1831 chain cables began to supersede the hempen ones, with the result that the long-shanked anchors hitherto in vogue were no longer necessary, and anchors with shorter shanks and with heavier and stronger crowns gradually came into use. In consequence of these changes, a commission was appointed in the year 1838 to inquire into the holding power of anchors, and a principal result of its labors was the adoption of the socalled admiralty pattern anchor, which continued to be used in the navy up to the year 1860. The invention of the steam hammer in 1842 made the welding of heavy masses of iron a comparatively easy and reliable process, so that from this time onward the strength of anchors fully kept pace with that of the chain cables which

had come into general use. A number of patents for anchors vere taken out prior to the great exhibition of 1851, and public attention having been called to the models there shown, in the following year a committee was appointed by the admiralty to report on the qualifications of anchors of the various kinds. Practical trials were then instituted, and, as a result, Trotman's anchor took the nesult, Trotman's anchor took the highest place, Rodger's anchor being second on the list. Some of the tests to which the anchors were submitted were of doubtful value, such, for instance, as "facility for sweeping."

Nowadays, however, at all events for deep ships in shallow harbors, it is considered an advantage for an anchor to offer as little obstruction as possible above the ground.

THE CHEWING INSTINCT.

Exercise of the Jaw Is a Desire That Is Powerful in the Human.

Sceing that the maxillary apparence of know how he's getting along."

New Fast Train to Texas

Sceing that the maxillary apparatus of man has for long ages past been put to vigorous use, it is not surprislog that the south west. Direct connection with trains from ing that the need to exercise it should North and East. In addition to this the express itself as a powerful instinct, says the Lancet. This instinct manifests itself in many and curious ways. During the early month of life the natural function of feeding at the breast provides the infant's jaws, tongue and lips with all the needful exercise.

This hottle feeding fails to do and St. Louis 2:21 p.m., 8:40 p. m and 3:06 a. m. Through Pullman Sleepers, Dining Cars and Elegant Chair Cars. Twelve hours saved to California. Cars. Twelve hours saved to California of Iron Mountain Route, or H. C. Townsamp, General Passenger and Ticket Agent, St. Louis. This bottle feeding fails to do, and we frequently find bottle-fed childrenseeking to satisfy the natural instinct by sucking their thumb, fingers, or any convenient object at hand.

The teeth are a provision for biting hard foods, but even before they actually appear we find the child seeking to exercise his toothless gums on any hard substances he can lay hold of, and there can be no doubt that exercise of this kind tends to facilitate the eruption of the teeth, a truth, indeed, recognized universally, whether by primitize mother, who strings the tooth of some wild animal round the neck of her infant, or the up-to-date parent who provides her child with a bejeweled ivory or coral bauble.

When the teeth have erupted, the masticatory instinct finds among primitive peoples abundant satisfaction in the chewing of the coarse, hard foods which constitute their dietary, but among us moderns, subsisting as we do mainly on soft foods, affording but little exercise for the masticatory apparatus, it does not find its proper expression, and thus tends to die out. Nevertheless, it dies a hard death, and long continues to assert itself: witness the tendency of children to bite their pencils and penholders; I have known a child to gnaw through a bonc penholder, much in the same way as carnivorous animal gnaws at a

This instinct to chew, for chewing's sake, manifests itself all over the world. In our own country not only do children bite pencils and penholders, but they will chew small pieces of India rubber for hours together. The practice of gum-chewing, so common among our American cousins, evidently comes down from far-off times, for the primitive Australians chew several kinds of gum, attributing to them nutrient qualities, and the Patagonians are said to keep their teeth white and clean by chewing matri, a gum which exudes from the incense bush.

After-Effects Were Bad.

Banks-I don't mind the influenza itself so much, it's the after-effects I'm afraid of.

Rivers-The after-effects is what ails me. I'm still dodging the doctor for 425.—Stray Stories.

ORTHY of a high-

Kidney Pills. He impossible for me to do my work."

tells his experience in the following "It was at this juncture that Doan's words: He says, "Sometime in Septemwords: He says, "Sometime in September I was taken with a dull aching pain to my notice and I Pain in across the small of my back, directly secured some from left knee, over the kidneys. I paid small attention the drug store of C. left knee,

I can find

over the kidneys. I paid small attention to this at first, thinking it would pass off. But instead of getting better it became worse and in a short time the pain centered through my left hip and pain across down my left leg like Small of This is precisely what kidney trouble will do with the back. The will do with the back.

man's experience man's experience bore this out.
Continuing, he says: "I did not
know the cause of the trouble, but I am led to believe now that it was first brought about by jumping in and out of the wagon and in some way I

may have strained my back. "I was constantly growing worse," he continues, "and I became very much alarmed about my condition. I knew that something had to be done or serious results were sure to follow. I went to a specialist here in Sherman, and underwent a rigid examination."

Then he relates how the doctor told him that it was a serious case, but that he could cure him for fifty dollars.

lewever, necessity knows no law and in Plangman paid half down and took treatment and followed it faithfulvords to express." Naturally, he thought that he would

J. H. Piangman (of Sherman, Tex.) of the doctoring he goes on to add, "I was in such misery that the mould be in the misery that the miser

hip

body.

It does not always show itself at first, but appears just in this way, when some unusual movement or action brings sharp pains and exhaustive aches, telling of sick kidneys.

So Mr. Plangbor bore this out.

says: "I did not of the trouble, but been some than the second of the trouble, but been some than the second of the trouble, but the sampletely cure.

This is the salways and who have been fortunate enough to test the merits of bean's Kidney Pills.

There is nothing wonderful or magnetical about this remedy, it simply does the work by direct action on the kidneys only and this accounts for the painting of the trouble, but the salways who have been fortunate enough to test the merits of bean's Kidney Pills.

This is the salways and the salways who have been fortunate enough to test the merits of bean's Kidney Pills.

The sampletely cure.

This is the salways who have been fortunate enough to test the merits of bean's Kidney Pills.

The sampletely cure.

of kidney trouble come from two and the blader. The back becomes week and lame be cause the kidneys are sick, and re-lief from backache can only be complete when the kidneys are set right.

Early Indications

Irritation of the the kidneys are out of order. Delay in prompt attention

need from Misery

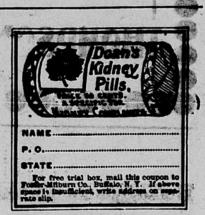
often causes serious complication. Relieve and cure sick kidneys and ward off dangerous diabetes, dreaded dropsy and Bright's disease, by using C Doan's Kidney

Pills. They begin by healing the delicate membranes and reducing any inflammation of the kidneys, and thus making the action of kidneys regular and natural.

Aching backs are eased. Hip, back, and is nine overcome. Swelling of the limbs, iem and dropsy signs var

They correct wrine with brick-dust se bling, frequency. Doan's Kidney Pills d ove-calculi and gravel. palpitation, elecplessness, headache,

Foster-Milburn Co., Buffalo, N.



AN ERRAND TO DO.

Traveler Asked to Stop in Texas or Hie Way from Chicago to New York.

New Fast Train to Toxas via Iron Mountain Route, leaving St. Louis

St. Louis. sold by the Shock.

A farmer went on a vieit to a friend. After dinner the husbandman requested to be shown round the town.

After visiting several places, they finally reached the electric lighting works.

"What d'ye call this place, Dan?" queried the farmer.

the farmer.
"This is called the electric plant," was the reply. "Plant! What do they grow?"

"They grow currents."
"How do they sell 'em—by the bushel?"
"They don't sell 'em by the bushel; they sell 'em by the shock."—Stray Stories.

Double Daily Through Service to California via Missouri Pacific Railway and Iron Mountain Route. Choice of Central route through Colorado or via the True Southern Route through Texas, Arizona, etc. Through sleeper to Los Angeles. Only line operating through sleeping cars, St. Louis to San Francisco. Tourist car service to California four days in the week. For rates and full information address any agent of Missouri Pacific Railway, or Iron Mountain Route, or H. C. Townsend, General Passenger and Ticket Agent, St. Louis.

She Was Lucky.

"Yesterday was a mighty lucky day for Miss Prettygirl."
"Why?"
"I proposed to her and she accepted "Yes, people are usually considered lucky when they have got a soft thing."—Houston Post.

"Get Your Color Scheme," Then write us, enclosing two-cent stamp for postage, for attactive and interesting booklets bearing on the Southwestern territory and its marvelous development. Interesting reading, suggestive ideas. Address, George Morton, G. P. & T. A., M., K. & T. Ry., Suite K., Wainwright Bldg., St. Louis, Mo.

Pearl Peach—Here is 10 cents, but I hate to encourage you to drink." Weary Walker —"All I need is de money. De encourage ment is not necessary."—N. Y. Sun.

Do not believe Piso's Cure for Consumption has an equal for coughs and colds.—J. F. Boyer, Trinity Springs, Ind., Feb. 15, 1900. hrow all you cares in the deep, deep and thereafter do not go fishing.-N.

imes Democrat. Stops the Cough

and works off the cold. Laxative Brome Quinine Tablets. Price 25 cents The accret of success is constancy to purpose.—Disraeli.

Putnam Fadeless Dyes color more goods per package, than others.

A sore head is a sign of a shallow one. Ram's Horn.

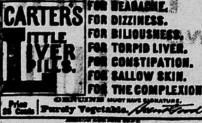




Carter's Little Liver Pills.

Must Bear Signature of

See Pac-Simile Wrapper Bel Your small and se see CARTERS FOR DIZZINESS.



CURE SICK HEADACHE.



