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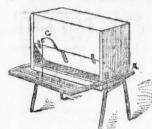
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ntrivance For Feeding Grain-Pro-

tecting the Food and Water.
A correspondent of the Farm Journal, who was losing much grain by rats and chipmunks, contrived an automatic poul-try feeder for grain which prevents waste by mice, also by fouling, etc. Ke

When it was ready for use, I taught my flock to use it in one minute by placing a dish of corn on the platform when



AUTOMATIC POULTRY FEEDER. they had been fasting until 9 a.m., after calling the flock to me and scattering a slight quantity at my feet.

The end view shows dotted lines, which re to indicate the hopper arrangement side. A board at the rear running lengthwise, on edge, conducts the grain to the trough. That on front side leaves a space of one inch at the bottom, the a space of one inch at the bottom, the whole length of hopper to allow grain to pass through to the trough from which the fowls feed. The door in front is made to swing on easy henges, and the platform is pivoted at B and balanced by weights on the arms at A, so that wen a small fowl standing on the platform will open the door by means of the

lever C and disclose the grain.

The legs are of old steel tires, bent to proper shape and bolted to bottom th quarter inch bolts. I have had one in use for three years, and would not be

In the same journal attention is called to the fact that old wire and two hoops held apart by three sticks can be made an important part as a protector hen's feed or drink dish. The wire is fastened firmly to one hoop and



A FOOD PROTECTOR.

then strung over the other and back all around, making a close, vertical fence through which the fowls put their heads. A barrel head cleated and nailed over the top hoop perfects the arrangement, keeping all dirt out of the top.

Bone Fertilizers.

The fine raw bone contains 3 or more per cent of nitrogen. "Dissolved bone" usually means bone black acted upon by acids. The bone black is bone charcoal prepared much like wood charcoal, and f course the heating drives off the ni-rogen. Very few raw bones are treatwith acids for commercial fertilizers. Aportion of the nitrogen is lost by such tratment, and the fine bone flour is more economical for the farmer, says The Rural New Yorker. The finer the bone the better. The stations in analyzing bone divide it into four degrees of fineness—fine fine medium, medium. ieness-fine, fine medium, medium and coarse. In the fine nitrogen is fig-med at 15 cents a pound and phosphoric acid at 7 cents. In the coarse grade the values are 7; and 3 respectively, and the ifference is due entirely to fine grind-

Best Covering For Over Frames

A beekeeper writing in The American Bee Journal, says: In late years I have about come to the conclusion that any-ling which will make the top of the live airtight is all right. Enameled doth or wooden covers made tight with be glue during warm weather and left a undisturbed through the winter have wen good results. Some will tell you that tight covers will be death to the bes, and others just as empathic that the porous covering will kill them. What would be the very best covering for winter would depend upon what condition to bees were in, where to be wintered, the

Barley For Feeding Purposes Professor Henry says that dark col-ted barley which has been discolored by rain is just as good for feeding pur-Nees as the bright colored so long as it is not musty. Moreover, barley at 25 to 30 cents a bushel is a cheaper feed an bran at \$14 aton. For dairy cows is recommends a mixture of one-third an with two-thirds ground wheat or larley. This he regards as well visible. arley. This he regards as well nigh a refect grain ration for such cows. For is feeding he would add bran or shorts.

Commeal and barley meal mixed is also also designed with feed at the control of the agood pig feed. He says, "Barley is the Feat pig fattening food of England."

The Potato Scab.

It has been definitely settled at the remont station that the potato scab is caused by a fungus growing on the potato tuber. The scab is found to be intraced when scabby potatoes are used fa seed; when barnyard manure is used fam stock to which scabby potatoes are land to the same land year after year. atted on the same land year after year agerms of the disease may be killed be germs of the disease may be killed backing the seed potatoes for an hour at a half in a solution of one part of crosive sublimate dissolved in a thousaid ports of water. and parts of water.

beh on human and horses and all animals and no minutes by Woolford's Sanitary watchmaker and engraver, general repairing. A cyll selicited. 402 Talbot street, Lard and all Arusaista in the Baminion.

INSTRUCTIVE TOMATO TESTS.

Conducted In Garden and Field at a Ten-

ransplantings, Seedlings produced slightly better by weight than cuttings, but individual fruits on cuttings were very much the

Cutting back to three inches of the ground at time of transplanting decreased the yield.

creased the yield.

Bagging improved the color and quality of fruit and decreased the loss by rot and sun blistering. Value of system in practice depends upon the cost.

Varieties that made the best showing the past season were Early Paragon, King Humbert, Dwarf Champion, Cardinal, Livingston's Beauty, Lorillard, Early Acme, Livingston's Favorite, Volunteer and Yellow Plum.

Larly Acme, Livingston's Favorite, Volunteer and Yellow Plum.

The Best Wheat.

An enterprising Ohio farmer says that he finds that his best wheat, where the largest yield, does not produce as large and plump a berry as wheat that grows more thinly and yields less. He believes the yield is largely determined by pedigree and kept on selecting seed from the best parts of his field with steadily increasing yields. The idea is well worth thinking about. Possibly one reason why Mr. Terry's wheat yields grow better is because he is constantly making his land richer. The fact is true, too, of corn if not of wheat. Nobody would think of selecting seed corn from the half filled ears that set too late to fertilize all the silk, though the kernels on ears are often twice as large as on ears well filled. But with other grains—oats and barley, for example—the largest, plumpest grain is bees for seed. Oats that grow thinly and produce poorly are light weight, because most of them are affected by rust, which prevents development of the grain.

A Silo Substitute.

A German farmer's method of feeding turnips or mangolds is suggested to our

A German farmer's method of feeding turnips or mangolds is suggested to our own farmers who are not provided with silos, by The Rural New Yorker. He fed his roots in a box with three compartments, in which the cows' feed was equal compartments, each to hold an en-tire day's feed for all animals, space be-ing calculated on the basis of two cubic feet for each cow.

A three inch layer of chopped hay and straw is now spread evenly on the floor of the first compartment; then follows a thin layer of sliced mangolds, which



SUBSTITUTE FOR A SILO. have previously been mixed with the daily allowance of oilmeal and bran; then another layer of chopped hay and

straw, treading down firm as it grows up and setting in the front boards as needed. When full, a board covering is put on. On the second day the next compartment is similarly filled, and on the third day the last one. On the third day he begins to feed from the first compartment. This has now become thoroughly heated and has entered into a sweet fermentation, giving an agreeable odor to the whole mixture, and the avidity with which it is consumed proves that it is relished.

Items In Cabbage Culture.

At the Maine station it is reported that trimming off a portion of the leaves of cabbage plants at the time of transplanting gave uncertain results. Plants handled in pots before setting out in the field were earlier and better than those grown in boxes. Nonesuch, a new variety, did well on the station grounds two years in succession. Seeds from Long Island and Washington state gave about the same results. straw, treading down firm as it grows up and setting in the front boards as needed. When full, a board covering

rown in boxes. Policetti, a les vo-riety, did well on the station grounds two years in succession. Seeds from Long Island and Washington state gave about the same results.

On the Country Road. Take good care of your harness, An occasional cleaning and oiling will stop

one leak on the farm. See to it that the meritorious pullets

have all the food required to make p golden return in eggs. Remember that paint and oil are ex-

which means look after the farm imple-

A few poultry keepers have succeeded for a short time with promiscuous flocks of two or three hundred adult birds, but as a rule the plan does not work well.

A FARM IN SUSSEX. A Charming Picture of Country Life in

Conducted In Garden and Field at a Tennessee Agricultural Experiment Station.

From the station of the University of Tennessee at Knoxville has been issued a detailed report of some very interesting experiments with tomatoes, grown both in garden and field. There is much in this report that is of widespread interest. Following are some of the conclusions drawn from the report, the length of which prevents its being reproduced in full:

Cutting back the leading shoots at intervals during the growing season decreased the yield.

Training to one or two stems hastens maturity and secures fruit of superior size and quality.

It is doubtful whether supports can be profitably used, except in training to one and two stems. Stakes and wire were most satisfactory.

Strong, stocky tomato plants should be set in the field as soon as the weather will permit. They ripen earlier and produce better.

Inserting plants at medium depths

Inserting plants at medium depths gave better results than very deep or very shallow setting.

The application of manure liquor made no appreciable difference in yield.

The practice of sowing seed in hills, without transplanting, should not be recommended. One transplanting in flats proved more satisfactory than two transplantings.

A SUSSEX FARM

ders against the old lichen-covered trunks,

A ROYAL SCULPTRESS.

Princess Louise a Devotee of the Plastic Art-Her Latest Work. Art—Her Latest Work.

It is seldom we hear of anyone of royal blood winning distinction in any branch of combining distinction of all. If these high-more profession it is alart, sculpture least of all. If the soaked several days previous to feeding. The box is built out of pine scantilings and 1½ inch boards, with the top and front open, the whole divided into three



"THE QUEEN OF ENGLAND"-BY PRINCES LOUISE.

To Over-top Eiffel. To Over-top Eiffel.

A tower designed to attain a height of 150 feet greater than that of the celebrated Eiffel tower of Paris is in course of construction at Wembly Park, near London. The foundation of tower has been completed, and the superstructure has attained a height of sixty-two feet. The tower is erected under the auspices of Sir Edward Watkin. The plan of the tower was the result of an advertisement three years ago, in which architects were invited to send in designs in competiton for substantial prizes.

A closed bank in Arizona has issued the following notice: "This bank has not busted; it owes the people \$36,000; the people owe it \$55,000; it is the people who are busted; when they pay we'll pay."

Useless Purchases

Two eminent French gentlemen, who were great friends, used to relate an amusing story of their impecunious days. Neither fame nor fortune had come to them, but they were always hopeful. The years had weighed heavily enough upon Jules, however, for him to have become entirely bald. One day Alphonse met him with a beaming counhenance and cried gayly: "What do you think, Jules! I have been buying a strong box!" "Then, Alphonso," replied Jules firmly, "I shall buy a hairbrush."—Argonaut.

George Eliot suffered from melancholic moods, and from her thirtieth year had severe attacks of headache. As a child she was poor in health and ex-tremely sensitive to terror in the night. She remained a quivering fear throughout her whole life. - New York Times.

Why She Liked Them. Boston Woman—Oh, I do so love the fields of our New England farms.

New York Girl-Why? Boston Woman-Because they are so sultivated, you know .- Boston Courier.

"I don't like the breath of that stove!" exclaimed little Ethel one day when the gas was escaping from the sitting-room stove. Coal gas is like the "perfumes of India," compared with the breath of a person afflicted with catarrh, but among manyother symptoms the sense of smell is often deadened, so the sufferer is unconscious of the oftensiveness of his presence. Why any one will endure such a painful, dangerous and offensive disease, when Dr. Sage's Catarrh Remedy—costing only 50 cents—will cure the most stubborn case, is one of the many mysteries. The proprietors are so confident of the success of this Catarrh Remedy, that they ofter to forfeit \$500 for any case of catarrh they cannot \$500 for any case of catarrh they cannot cure. It would be suicide for their remedy, or them to make this offer unless the inderstood its exact powers.



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can make it rich again by restoring appetite,
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Illustrations showing how a person without any capital can own his home, worth \$1,000, in 74 years, He subscribes for ten shares and pays as follows:

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