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"I Got Real Mad when I Lost My Setting Hen," writes Mrs. Hanna, N. J.

"When I went into our barn and found my best setter dead I got real mad. One package of Rat-Snap killed six big rats. Poultry raisers should use Rat-Snap." Comes in cakes, no mixing. No smell from dead rats. Three sizes. Prices, 35c, 65c, \$1.25. Sold and guaranteed by English Drug Co., Smith-Lee Co.

Give Hens More Light and Get More Eggs, Says Dr. B. F. Kaupp.

(From Raleigh News and Observer.) "Lay eggs while the light shines," is the slogan apparently adopted by a pen of thirty Rhode Island hens at the State College poultry plant, according to Dr. B. F. Kaupp who has just completed an experiment with artificial light extending over a period of one year.

Two flocks of thirty hens each were given the same amount of feedstuff and identical care and attention. One pen was lighted with a 120-watt electric light from sundown until about 9:30 p. m., or long enough to give the hens fifteen hours of light in which to work. The other pen was not lighted, the hens being kept under natural conditions.

The flock given fifteen hours of light, day and artificial laid 147 eggs per hen. The other flock averaged 104 eggs. The greatest gain occurred during November, December, January, and February, the season when eggs are scarce and high. During this period sixty per cent of the flock under light laid regularly, while only ten per cent of the flock under natural conditions produced.

While the results of Dr. Kaupp's experiments will be hailed with joy by poultry raisers and millions of consumers may rise up to call him blessed, the jokesmith will no doubt learn about the explosion of their most ancient joke with considerable dismay.

Since the day Adam ate the apple, a favorite yarn on the minstrel stage has been about the farmer, who fooled his hens into laying twice a day by keeping a light burning in his hen house at night.

The Solar Engine Nearing Realization.

Professor Svante Arrhenius, the famous Swedish chemist, was last year given the Franklin Medal by the Franklin Institute of Philadelphia.

On this occasion he gave an address on the world's supply of energy, in the course of which he made interesting comparisons.

He tells us, for example, that for every horse-power developed by burning coal, the equivalent of 5,000 H. P. of energy goes to waste in the winds; and not less than 70,000 H. P. in the unused sunshine.

As to the use of sunshine, there has been little progress since about the year 1888, when John Ericson developed his solar engine.

Ericson found that with a mirror of ten square meters he could develop one H. P. An attempt to make a practical engine along the lines of his investigation was made by Mr. Shuman of Philadelphia, who constructed a mirror of 1,200 square meters and installed it in Egypt, not far from Cairo. It was found, however, that this engine had only half of the power per unit of surface of Ericson's model. It is believed, however, that a much more efficient engine could be constructed on a similar principle. Professor Arrhenius does not hesitate to declare that he thinks the solar engine has a great future.—Dr. Henry Smith Williams in Hearst's.

Farm Live Stock

CURING HORSE'S BAD HABITS

In Case of Chronic Balking Course of Training Will Be Needed to Overcome Fault.

Horses that have been properly handled and trained are not balky, neither do they have bad habits. When horses with bad habits are encountered a careful study of each case should be made in order to ascertain the cause, and, if possible, to remove it.

The most common cause of balkiness among horses is punishment to make them do something that they cannot do or that they do not understand how to do. Another common cause is the forcing of horses to draw heavy loads without allowing them to stop occasionally to rest and regain their breath. The use of the whip or spur in such instances should be avoided, as the pain inflicted will be very likely to provoke further and more stubborn rebellion. If a horse balks the bearing of the harness should be examined to see if it is hurting him. If a heavy load is being drawn and the horse is not allowed to rest and regain his breath and strength he may become sulky and refuse to pull. Give him a short rest, and while he is resting rub his nose, pick up a front foot and tap the hoof a few times, or adjust the harness, and he may forget his grievance. Take the lines and give the command to go ahead, turning slightly to the right or left to start. If the horse does not start it is either a case of overload or a chronic balker. If the load is so heavy it cannot be drawn, unload. If the horse is a chronic balker a course of training will be necessary to overcome the habit.

In older horses where the habit of balking is fixed the horse should be trained to obey all commands with promptness without being hitched to the wagon. First put on the double trip ropes and use them until the horse stops and stands when he hears "whoa." Next put on the guy line, which should be managed by an assistant, while you drive and attend the trip ropes. The guy line is a rope fastened around the horse's neck and a half hitch over the lower jaw. It is very severe and should not be used to excess. If the horse shows any tendency to balk, give the command "whoa" before he stops of his own accord. When ready to start, the assistant should take a position in front of the horse and smartly jerk him for-

ward with the guy line at the same time you give the command "get up." Repeat the process of stopping and starting until the horse shows no signs of self-will. Use the guy line, and use it severely, on the slightest intimation that the horse is going to balk. After a few of these lessons the horse may be hitched to the wagon. The trip ropes and guy line should be kept on until he is well broken of the habit.

A horse that kicks when something touches his heels is dangerous to drive. To overcome the habit, put on the harness and the trip ropes. Take a stick and pole him all over. After he becomes submissive to the pole, tie sacks of hay to the traces and breeching, and continue the lesson until he pays no attention to them.

Fasten a long pole on either side with one end to drag on the ground, the other end to be fastened to the shaft carrier. Drive him around with these, and if he attempts to kick command "steady" and pull him to his knees. The lessons should be continued until he submits to the poles dragging between his legs and round him.

SILAGE FOR PRODUCING BEEF

Missouri College of Agriculture Outlines Satisfactory Plan With Young Steers.

Highly satisfactory beef can be made from two-year-old steers by feeding corn as silage, together with linseed meal and clover or alfalfa hay. Instead of full feeding shelled or ear corn, according to the Missouri College of Agriculture.

One acre, yielding 40 bushels of corn, or eight tons of silage, if fed as silage, together with 1,733 pounds of linseed oil meal and 1,810 pounds of alfalfa hay would produce 750.8 pounds of beef and 11.3 pounds of pork. If, however, the corn be fed as shelled corn (full feed) and silage, together with 308.2 pounds of linseed meal and 345.2 pounds of alfalfa hay, it would produce 291.6 pounds of beef and 68.5 pounds of pork.



Modern Example of Good Breeding—One of Stallions Bred by the Department of Agriculture at Buffalo, Wyo.

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Modern Bakery Equipment

THE French of today are famous as pastry makers, but they would not now think of using the crude methods pictured here that were employed by them some centuries ago. They, like ourselves, must have a

in order to produce the toothsome dainties that are demanded. Our customers tell us that our pastries are always as good and frequently better than the home kind. The secret is baking genius plus modern equipment.

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EXECUTOR'S NOTICE.

Having this day qualified as executor of the last will and testament of V. T. Chears, late of the county of Union, and State of North Carolina, notice is hereby given, as by law provided, to all persons holding claims against said estate to present them to the undersigned, duly authenticated, on or before the 11th day of January, A. D., 1922, or this notice will be plead in bar of their right of recovery.

All persons indebted to said estate will please call and make prompt settlement.

This January 7, 1921.
JOHN C. SIKES, Executor of V. T. Chears, deceased.
John C. Sikes, Attorney.