

FARM AND GARDEN.

Good Fertilizers For Crops.

Linseed meal, cottonseed meal, bran and other feeding stuffs serve admirably as fertilizers for crops, but it will pay better to feed such materials to stock and use the manure.

Introducing New Blood.

Successful poultry breeding depends in a very great measure upon good, pure blood. To violate this law will bring disaster to any flock. It is for that reason that inbreeding should not be risked by the amateur. We may breed in line and yet avoid the evils of inbreeding, but that is science which the beginner has not yet mastered. Where market poultry is the mainstay, it is best to purchase new male birds each year. This is the most positive guarantee that we can give for good, pure blood. It gives stamina—adds new life. But the fancier can hardly afford to take that risk. To retain the characteristics of his strain it is necessary for him to introduce new blood through the females, which he does by adding a few each year. It is taking a long road to accomplish what a shorter cut (introducing new males) would make.

In securing new males the buyer should be careful to purchase only from a breeder who is generally known to be annually mating for increased egg production, and who can show a good record in that line. Inbreeding has been a curse to many beginners. It has given them dwarf bodies, poor layers and weak constitutions. The poultry farmer cannot afford to take such risks.—Poultry Farmer.

Three-Lined Leaf Beetle.

The Three-Lined Leaf-Beetle (*Lema trilineata*) attacks the potato plant, both the larvae and the beetles feeding on its leaves.



The perfect beetle is of a pale yellow color, with three black stripes on its back. It bears a strong resemblance to the common cucumber bug. It is, however as a general thing, a slightly larger insect.

Scab.

Among the last acts of the last session of the Indiana Legislature was one making it compulsory to dip all scabby sheep. The object is to stamp out this expensive but unnecessary disease.

Scab is produced by an itch mite, that causes itching, rubbing, pulling and shedding the wool, causing a bare and scabby skin. The parasite cannot live for any great length of time off the skin, and does not thrive on any other animal. It is therefore possible to stamp out the disease by killing all mites by dipping. Solutions of tobacco, lime and sulphur and arsenic are effective for this purpose. The tobacco solutions have preference. They may be made by taking from twenty to twenty-five pounds of tobacco leaves and stems and soaking for one day in sufficient water to cover. Then boil for an hour and draw off after six hours. Dilute to 100 gallons. Add twenty pounds of sulphur and use while warm. The lime and sulphur dip may be made by slacking eight pounds of lime in some water, adding twenty-four pounds of sulphur and dilute to 100 gallons. It is troublesome to prepare the tobacco solution and is about as cheap to buy the extract ready for use. The lime and sulphur dip is injurious to the wool. It requires on an average one and a half gallons of dip solution per head for more than twenty-five head. The second dipping is necessary at the tenth day, so that the cost for material must be reckoned at about five cents to seven cents per head. The coal tar or creolin dips are excellent for ticks, but not as effective as they should be for scab.—New England Farmer.

Whitewash For Poultry Houses.

Hen houses and coops should frequently be whitewashed inside and out, not only during the summer, but at all times of the year. In fact all the nest boxes and other fixtures should each receive a good coating. Many poulterers are adverse to using whitewash, however, in that the ordinary lime and water wash has a tendency to wear off readily, and also to stick and mark one's clothes. If the whitewash is properly prepared it will not do this, and that is what is claimed for the following recipe: Slack in boiling water one-half bush-

el of lime, keeping it just fairly covered with water during the process, and strain it to remove the sediment. Add to it two pounds of sulphate of zinc, and one pound of salt dissolved in water. If any other color than white is wanted, about three pounds of the desired coloring matter, such as painters use in preparing their paints, should be added. Yellow ochre, which is inexpensive, makes a beautiful cream color, and brown, red and even various shades of green can likewise be easily obtained. Another excellent wash, which will last almost as well as ordinary paint, may be prepared for outside work by adding to the same amount of lime, slacked and strained, two pounds of sulphate of zinc, one pound of common salt, and one-half pound of whiting, thoroughly dissolved. It should be mixed to the proper consistency with skim milk and applied hot. If white is not wanted, enough coloring matter to produce the desired shade should be added. This much superior to any ordinary wash, comparing not unfavorably with good lead paint, so that it gives to the houses and yards to which it is applied a very attractive appearance. For an inside whitewash, slake and strain a half-bushel of lime, as described, and add to it the following ingredients: Three pounds of rice boiled in water to a thick paste, one pound of powdered Spanish whiting and a pound of clear glue dissolved in water. Having mixed the whole thoroughly let it stand for several days. When ready to use it should be applied hot. For a smaller quantity of these washes, use less of the required materials in the same proportion.—Fred O. Sibley, in the Epitomist.

OUR BEST CUSTOMER.

A Revolution in Our Trade With Great Britain.

It is in Great Britain that we find in its fullest development the effect of the American commercial invasion of the world's markets. It is true that American competition has been making notable inroads into the commerce of all the countries in Europe. But important as is the effect which has been produced upon commercial conditions in the Continental countries, that result is almost insignificant when compared with the consequence of this competition in Great Britain. From the beginning of our history England has formed our most important market, and for two generations at least we have been the largest customers for English products. In the last half-dozen years a change has taken place in the trade balance between the two nations, which is, perhaps, the most notable single commercial event to be recorded in the last decade. We have been steadily reducing our purchases from the mother-country; we have been making astounding increases in our sales to her. Comparing, for instance, the change which has taken place in the trade movement between the two nations in the last half-dozen years, we see that our annual purchases from the United Kingdom have dropped \$16,000,000, standing last year at \$143,000,000. In the same period our sales to Great Britain nearly doubled, going up from \$387,000,000 in 1895 to \$631,000,000 last year. This change in the annual trade balance, showing for us a more favorable total by \$263,000,000 than we had six years ago, is a change of such import as can only mean revolutionary transformation in the industrial life of the two nations. These figures are so significant that they need to be dwelt on somewhat, to fix in the mind their importance. Six years ago we sold to Great Britain \$228,000,000 more than we bought. Last year we sold to her \$488,000,000 more than our purchases. In every business day last year we sent to her \$1,500,000 more than we bought. For every dollar's worth of goods we bought we sold her four dollars and forty-one cents' worth of our products.—From "The American Commercial Invasion of Europe," by Frank A. Vanderlip, in Scribner's.

Steam-Heated Catteries.

The Brookside Kennels, at Kenosha, Wis., consist of rows of small, low buildings, built especially for their Angora occupants. The houses are constructed in such a manner that they are kept at the same temperature from one end of the year to the other. In order to make this possible a steam plant has been placed in the house near the kennels and hot water is used for a heating power. The quarters for the cats are well arranged, one whole side of the building being built of glass in order to give the cats plenty of sunlight. The walls are painted in soft tints in order to prevent any injury to the eyes of the kittens, and the rooms are contained so that the sunlight may be shut off if necessary. Every one of the fifty cats now in the kennels has an apartment of its own.

From the time the kitten is born until it finds a permanent owner it has every care that would be given a babe. It is tenderly fed and washed daily. When it is old enough to have the air it is allowed a certain amount of exercise in a little inclosure adjoining the kennels, and at the close of the evening it is tucked to bed in a comfortable couch.—Milwaukee Sentinel.

FOR HARNESS and Faded Corn Mexican Mustang Liniment



It's this way: You can burn yourself with Fire, with Powder, etc., or you can scald yourself with Steam or Hot Water, but there is only one proper way to cure a burn or scald and that is by using

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It gives immediate relief. Get a piece of soft old linen cloth, saturate it with this liniment and bind loosely upon the wound. You can have no adequate idea what an excellent remedy this is for a burn until you have tried it.

A FOWL TIP. If you have a bird afflicted with Roup or any other poultry disease use Mexican Mustang Liniment. It is called a STANDARD remedy by Poultry Breeders.

I have used Ripans Tablets with so much satisfaction that I can cheerfully recommend them. Have been troubled for about three years with what I called bilious attacks coming on regularly once a week. Was told by different physicians that it was caused by bad teeth, of which I had several. I had the teeth extracted, but the attacks continued. I had seen advertisements of Ripans Tablets in all the papers but had no faith in them, but about six weeks since a friend induced me to try them. Have taken but two of the small 5-cent boxes of the Tablets and have had no recurrence of the attacks. Have never given a testimonial for anything before, but the great amount of good which I believe has been done me by Ripans Tablets induces me to add mine to the many testimonials you doubtless have in your possession now. A. T. DeWitt.

I have been a great sufferer from constipation for over five years. Nothing gave me any relief. My feet and legs and abdomen were bloated so I could not wear shoes on my feet and only a loose dress. I saw Ripans Tablets advertised in our daily paper, bought some and took them as directed. Have taken them about three weeks and there is such a change; I am not constipated any more and I owe it all to Ripans Tablets. I am thirty-seven years old, have no occupation, only my household duties and nursing my sick husband. He has had the dropsy and I am trying Ripans Tablets for him. He feels some better but it will take some time, he has been sick so long. You may use my letter and name as you like. Mrs. MARY GORMAN CLARK.

I have been suffering from headaches ever since I was a little girl. I could never ride in a car or go into a crowded place without getting a headache and sick at my stomach. I heard about Ripans Tablets from an aunt of mine who was taking them for catarrh of the stomach. She had found such relief from their use she advised me to take them too, and I have been doing so since last October, and will say they have completely cured my headaches. I am twenty-nine years old. You are welcome to use this testimonial. Mrs. J. BROCKNER.

ONE GIVES RELIEF.

R-I-P-A-N-S

The modern standard Family Medicine: Cures the common every-day ill of humanity.

TRADE MARK

My seven-year-old boy suffered with pain in his head, constipation and completed his stomach. He could not eat like children of his age do and what he did eat did not agree with him. He was thin and of a sallow color. Reading some of the testimonials in favor of Ripans Tablets, I tried them. Ripans Tablets not only relieved but actually cured my youngster, the headaches have disappeared, bowels are in good condition and he never complains of his stomach. He is now a red, chubby-faced boy. This wonderful change I attribute to Ripans Tablets. I am satisfied that they will benefit any one (from the cradle to old age) if taken according to directions. E. W. PAIS.

A new style packet containing TEN R-I-P-A-N-S Tablets packed in a paper carton (without glass) is now for sale in some drug stores—for FIVE CENTS. This low-priced sort is patented for the poor and the economical. One dozen of the five-cent cartons (10 tablets) can be had by mail by sending forty-eight cents to the R-I-P-A-N-S CHEMICAL COMPANY, No. 10 Spruce Street, New York—or a single carton (TEN TABLETS) will be sent for five cents. R-I-P-A-N-S TABLETS may also be had of some grocers, general druggists, news agents, and at some liquor stores and barber shops. They banish pain, induce sleep and prolong life. One gives relief.

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