

clean, wholesome milk under such conditions is absolutely impossible. Some system of stall equipment should be provided which will compel the cow to keep reasonably clean. The model stall or some other modern device ought to be in every stable, so that the cows can be kept reasonably clean without too much labor.

About Mortgage Lifters.

If pigs begin to show an out-of-condition appearance, don't think of medicine the first thing. See if some mistake in feeding or care cannot be discovered, and if it is, correct it.

Cause the pigs to fear you not, especially those intended for brood sows; they should be assured that their keeper is a kind, considerate friend. Even a hog appreciates such a friend.

The more feed the acre produces the lower the cost of maturing the live stock, and without necessarily decreasing the market price of the stock. The prolific acre makes its influence felt in many ways.

When pigs are getting succulent food, exercise, sleep in clean, grassy beds, and have fresh, pure air, there is but little complaint about disease. The nearer these conditions the less disease there will be in winter.

The two-litters-a-year system hastens the weaning of the litters, bringing that event when the pigs are in the most critical stage of their development. It requires no little experience and skill to prevent prematurely weaned pigs getting a back-set that it may take the profit on the second litter to make good.

The spring pigs that are on red clover or alfalfa pasture are now making pork at the minimum cost. If on grass pasture, light, supplemental feeding of ground grain or millstuff of some kind is advised.

Poultry Pointers.

Light and pure air prevent disease and promote productiveness.

One thing should not be forgot. Send surplus cockerels and old hens to pot.

Give hens good care, and it goes without saying that they will play fair, and keep on laying.

Winter eggs make poultry profitable. Don't delay arranging for the comfort of the hens.

A scrub hen is not worth much, but she is as good as any for the man who will not give his flock good care.

Plenty of grit and plenty of pure water are just as essential to egg production as good houses, and the right kind of food.

This is a good time to buy that pure bred male, or that breeding pen of fine fowls. Breeders will sell a little cheaper now than they will a little later.

Missouri poultry keepers sold \$31,000,000 worth of poultry and eggs last year. It is estimated that only two-fifths of the product went to the market. If this is true Missouri produced \$77,500,000 worth of poultry and eggs last year.

Don't shut the fowls in the houses until the ground is covered with snow or until the temperature is well below freezing. The cold will not hurt them unless they roost in a draft.

Make sure that both fowls and chicks are not lousy. If they have not been frequently treated during the summer to kill these pests, it is more than likely that they need it badly now. Fowls that are lousy consume more food and produce fewer eggs than those that are free from the irritating vermin.

Save some of the second quality cabbages to feed during the winter

when no green food can be obtained by the fowls. This will vary their ration and improve their health. The small potatoes, turnips, beets and other vegetables, which have no particular selling value, should be saved and served cooked, with the mash during the winter.

Whitewash the interior of the fowl house; it will make it lighter and cleaner, and if a little carbolic acid is added before the wash is applied it will also assist to rid the house of vermin.

A flock of fifty fowls can be fed for very little if the most is made of the scraps and waste food material from the house and barn. Occasionally we hear of farm flocks that are fed by farmers' wives for a cash outlay of less than sixty cents a head per year. On that basis almost any hen, however carelessly bred, would pay a good profit.

It may be suggested that farmers' wives have more than they can do without doing any work outside of their houses. That is too true in many cases, but the verdict of those women who are interested in poultry work is that the open-air exercise obtained when caring for the fowls gives them new life and makes the house work less arduous.

To Clean Harness.

It seems like quite an undertaking to clean harness, and it cannot be done in a few minutes, but if one knows just how to go about it, it is not an unpleasant task. It must first be taken to pieces, every strap unbuckled, and if an amateur is doing the work, he should pay particular attention to the peculiar way in which back-straps and check-rein are buckled.

If the harness is dry and stiff, give it a good soaking in warm water, using white castile soap and a brush to clean off the dirt. Hang it up to drain, and before quite dry, apply neat's-foot oil with a paint brush. Let it dry till the next day. Then, if the harness still seems hard, apply another coat of oil. When the oil has soaked in, soap it all over with white castile soap, having sponge or rag moistened and very soapy. After this treatment, an occasional soaping will keep the harness in order for a long time. Before the harness is put together, any broken places should be mended. Use a needle and put shoemaker's wax on the thread. An awl is necessary in some places.



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