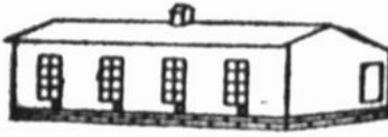


FRESH AIR WITHOUT DRAFTS

Poultrymen Beginning to Appreciate Advantages of Open Front Type of Buildings for Fowls.

Poultrymen are beginning to learn that if hiddy has a house all her own. whose side walls are made of feathers, the best non-conductor that she can get, and that if she is allowed to have plenty of oxygen to burn up with the carbohydrates of her food very easily keep herself warm in almost any reasonable temperature. The only practical way to give her this very necessary fuel is by giving her plenty of fresh air, but drafts always mean roup, and every poultryman knows what that means, writes Ellis Santee of Essex County, N. Y., in Farm and Home.

I think all are coming more and more to appreciate the open front for fair weather, with muslin to cover the opening during bad weather. This means that the rest of the house will have to be as tight as possible in order that there may be no dangerous drafts. Experience has also shown that it is well to make the front tight for about two feet above the floor. Everyone has his own particular ideas about shape and size. I like best a square house, with the roof as low as convenience in doing the work will permit. Our most satisfactory house, as shown in cut, is built on the continuous house plan, 20x20 feet, with the eaves 61/2 feet from the ground in front and no eaves at the back, the roof coming down even with the back of the house, which is 41/2 feet high. The roofing material extends to the



Santee's Model House.

bettom of the sill. This gives us a double pitched roof, with the maximum of head room and a minimum of air space.

We are satisfied that concrete is the ideal material for a poultry house floor if it is properly constructed. It must not be laid in close contact with the ground unless it is insulated by putting in a thickness of roofing material to keep down the dampness. Tar felt is the most economical and in effective. A foot of small stone is

It is important that the partitions be made solld at least as far front as the door, and at least two feet high the balance of the way to prevent

If possible to have the yards in the well to have the windows made in one sash, extending from the roof to near the floor, hinged at the side next the partition, to be used as a clean-out door for taking litter fr and droppings out. It is important room, even though muslin be used. This window should always be in the southeast corner of the room, so that you get the greatest amount of sunlight early in the morning.

The walls of the house should be not over one inch thick and covered with some kind of roofing material to make them tight. Matched lumber will shrink and make a chance for drafts that must be avoided. Roofing boards, planed on one side, put on with the planed side inside and covered ever on the outside back and ads with the roofing material are seconomical and satisfactory. We like har fait—some object to its color. Whatever is used, the three walls roof and floor should be tight. The old files of making the walls double thick with sawdust or building paper between made a fine condensing chamber and a damp place that is unprofitable for poultry. Dry cold is far preferable to damp warmth.

The tendency all along the line seems to be toward larger flocks on account of the labor problem. One man will take care of as many hens in a large flock as two will in small focks. Thus far we have not gotten beyond pens holding 125. The question of free range will largely influence the size of the pens. We prefer to fence the garden rather than to confine the hens except during a very mort breeding season. Even then it is better to confine the ones not in the breeding pen and give the breeders free range. Of course, where me breeds more than one variety

To sum up, then, make the rooms quare, large, tight on every side except above two feet from the floor on the south side. Make the floor o merete and get it up off the ground.

Rat-Proof Poultry Houses, coultry houses may be made ratof by placing dirt or sand floors on of concrete foundation, and then



DUCK RAISING IS PROFITABLE

Capital of \$1,000 Will Give Excellent Start-Business Reguires Care and Watchfulness.

For breeding, ducks and drakes are

petter in their second year. The duck laying season generally begins in February and ends in August, although the Indian Runner ducks are credited with being yearround layers.

Hallock estimates that it costs, all told, 12 cents a pound to raise ducks up to the market age (ten weeks). This includes the cost of feed, help, marketing, eggs, insurance, etc. All over the 12 cents is clear profit. From February to May the eggs show the strongest fertility.

John Weber, the well-known duck raiser, in an address before the Ploughman Farmers' meeting at Boson some years ago, said if one owns the land \$1,000 capital will give a start in the duck business. Such an amount, he said, would be sufficient to cover all expenses, buy two incupators, a flock of about 30 ducks, a louse for the breeders, a broodinghouse and heater, feed boards and water fountains, wire fencing, etc. Such a plant would keep one man sesy, and the future growth of the plant could be built on the profits.

The point to be remembered and strictly followed its to begin small, earn the lesson well and use every effort to get good results. This will equire care, watchfulness and well applied business principles. fuck business is of such a nature that f rightly carried on it is very profitible, but disastrous if neglected.

TO CARRY EGGS SEPARATELY

Little Box Will Be Found Useful for Other Purposes Around Farm and is Easily Made.

targe number of pens sometimes it is pen separate, as they are gathered. This is easily done in a carrying box, such as is here shown. This box is made of light wood and will hold thir-



An Egg-Carrying Box.

ty eggs. The box may be numbered on the end to correspond with the pen. Boxes of this style will be found very useful for many other purposes about the farm, especially for carrying vegetables in from the garden. As shown in the illustration this box is simply constructed and may be available on any farm.



Feed before you water. Good food is economy.

Oyster shells are not good grit. Too much soft food is not good for the chickens.

Ventilation is more important than wheat in the poultry-house.

Watch out for lice, and grease with lard under the wing and top of head. Throw your ashes into the poultry house and watch them enjoy them-

for poultry. They want a sharp matenal with which to grind their food. The incubator should be located in a room where the temperature does not vary much during the day o

Eggs will become fertile in from four to six days after mating. The effect of mating will continue several

It is necessary to feed the breeding ducks liberally, yet at the same time feed so as to keep them active

and healthy. The fowls need clean, dry, comfortable quarters during wet or cold weather. They will pay for that kind,

but no others. The eggs from matured hens will hatch better and produce stronger chicks than the eggs of pullets. They are usually larger, too.

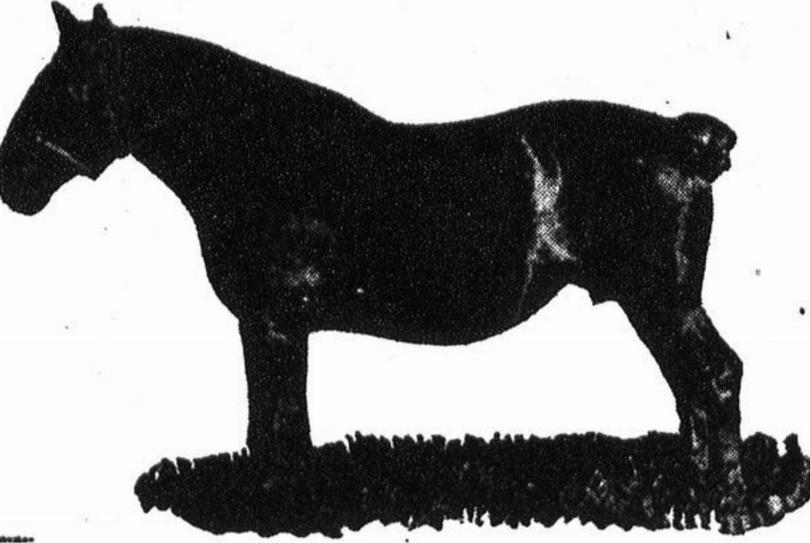
The best roosting place for young turkeys is on branches of trees. They will not suffer from exposure, and the open life will make them strong and healthy.

If one begins with the chicks, does things with deliberation, never makes a sudden and unexpected movement, even the most timid breeds will bebecome tame.

The white-feathered broilers ways have the more attractive apsearance in market, as the pin feathers do not show as they do in dark-

look stale bread in sweet skim-

HORSE LABOR THE LARGEST SINGLE ITEM OF EXPENSE



the Imported Percheron Mares Owned by the University.

By W. F. HANDSCHIN,

University of Illinois.

That the cost of horse labor is the largest single item of farm expense does not seem at first thought to be true, but a little careful study of the factors involved show this item to be surprisingly large, and of far greater importance than is generally recog

While a large percentage of farmers, without giving the matter any definite consideration, would say that they can keep a work horse for \$60 or \$80 a year, it is safe to say that on nearly all of our corn-belt farms this estimate should be increased by from 50 to 75

Just what the value of the mature | 300 working days a year. And it is farm work horse is in this section cannot be accurately learned, but on most farms an estimate of \$150 seems reasonable. On this basis we would have the following fixed charges: Interest at 6 per cent, \$9; figuring the | for horse labor must be from 13 to 15 average working life of a farm horse at ten years, making his work to about thirteen years of age, a charge of 10 Where trap nests are used with a per cent, or \$15 annually, must be made for depreciation. Here we have desirable to keep the eggs of each already \$24 of cost which is in the main overlooked. There are also several other costs not usually considered that must be included. Shelter must cost from \$2.50 to \$5 annually, even when of an inexpensive nature. Labor spent in feeding, grooming and the general care of the horse, even when figured at only 20 minutes per horse daily, amounts to \$18.25 on the basis of 15 cents per hour. Shoeing, although usually a small item of expense on most farms, since many horses are not shod at all, must cost on the average of from \$2 to \$3 a year. Harness wear, repairs, oiling, etc., will also cost from \$2 to \$3 annually. Then feed, the largest single item (and the only one usually considered), at the prices that have prevailed during recent years, or are likely to obtain in the future, cannot well be provided for less than 20 cents a day, if the horse is to be kept in good working condition, making a feed cost of \$72. Taking each of these lowest estimates and making no charge for bedding, taxes, veterinary fees, medicine and other small items of general expense. we have a total cost of \$121.75.

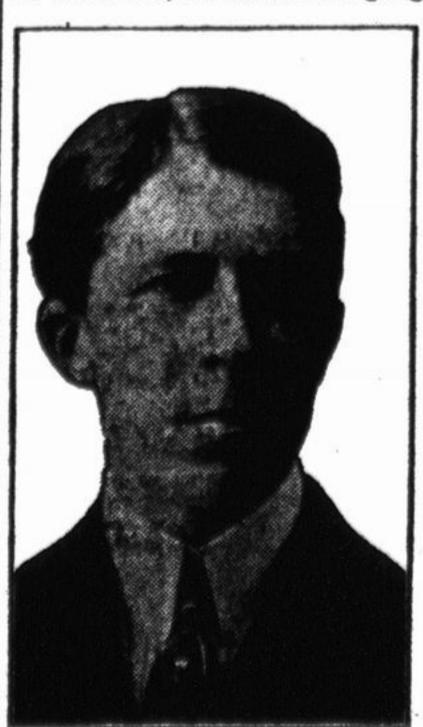
> In view of these figures, it seems entirely conservative to assume that it costs from \$120 to \$140 per year to keep a work horse on our corn helt farms. From these figures it can be readily seen how large an item horse

AGRICULTURE IN lection of teachers for this work. COUNTRY SCHOOLS

By ASSISTANT PROFESSOR A. W. NOLAN.

Agricultural College Extension, University of Illinois.

The people of the country are, and always will be, industrial, and hence, Fine gravel is not the proper grit with the progress of education there arises a demand for vocational training in the country scsools. Whether we will or not, the farmers are going



Prof. A. W. Nolan.

horse hour, through the better utilization of our horses in the productive enterprises of the farm. This might be done in some in-

labor really is in our farm expense ac-

In connection with the cost of keep-

ing farm horses, we might profit by a

little detailed study of the cost of

horse labor per hour in ordinary farm

practice. Here again, when accurate

records are kept, the number of hours

of labor performed per day is found to

ne surprisingly small. While we have

lew accurate records covering a suffi-

ciently large number of horses, the

Minnesota investigations along these

lines bring out some valuable informa-

tion. These studies, including a con-

siderable number of borses on 40 to 50

farms in various parts of the state.

show that for a five-year period the

average farm horse works only about

three hours per day, on the basis of

likely that this is not far from the

average number of hours of labor per-

formed on the ordinary corn-belt farm.

From these figures, it seems logical to

believe that the average cost per hour

cents, or from \$1.30 to \$1.50 for a 19-

the average farm the total cost of

duced, the only rational solution of

this problem appears to be the adop-

tion of systems of management that

will enable us to reduce the cost per

keeping a horse can be very much re-

Since it is rather unlikely that on

hour day.

stances by keeping brood mares and raising foals. In others, by growing a

greater variety of crops rather than devoting a large portion of the farm to one crop. The production of live stock should also help to distribute horse labor more evenly throughout the entire year. In addition to this, the general effi-

clency of management should be studled, in order that the work may be done in a satisfactory manner with the least number of horses capable of doing it. This means that all work which can be done during the winter. or other stack times, must not interfere with the regular work during the busy season. It means that every horse must go into the busy season in fit condition to do a horse's work. means that, through intelligent man agement, he must be kept at his highest efficiency every day he is needed in the harness. In short, it means that only through the most efficient utilization of our animals can we hope to reduce the cost of horse labor on our farms.

procedure and in the training and se

The sequence of subject-matter studled in rural school agriculture should be in harmony with the seasonal sequence of actual farm operations. Several good reasons for this plan are evident. Illustrative material is more easily available, the interest of school patrons in the work of the school by co-operative activities is more easily aroused, and the habit of doing the right thing at the right time is formed.

Text-books should contain simple elementary discussions of the principle of good farm practice as it proceeds in the community where the school exists. Such practical exercises as collecting insects, weed seeds, etc.; judging and scoring corn; planting trees and examining fruit; testing seed corn; school garden work, where the term is long enough, are activities entirely practical and highly beneficial in the country school.

A great deal of home work and many farm projects directed from the school are advisable in connection with country school agriculture. Testing the home seed corn and the butter fat content of the home milk supply. the keeping of field, dairy and feeding records, the directing of home gardens, and many other lines of cooperation are possible and profitable in connection with the course in agricul-

If the teacher is keenly alive and resourceful, he can make large use of the men and materials on the farms of the community in teaching agriculture in the country schools. He may session of the class in week and demonstration meetings at the home farms of the community, where competent and successful farmers may give talks and demonstrations to the class. This plan properly carried out would give opportunity for some real teaching of agriculture to the boys and girls of the country. The school

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