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throughout the 1 0101 **Ideas** 2 **IN** new have also exp s and young SIMPLICITY IN POULTRY-HOUSE CONSTRUC- dropped on cold nights, so that the roosting TION. in no branch of agriculture has progress been

not but storage in the second of simplicity of taims at dryness and tight, rather than excessive warinthan Excepting, perhaps, a few of the large combid varieties; fowls can stand appretty low temperature, so long as the air is well charged with oxygen, and excessive moisture and drafts are avoided. - It is not at all necessary to have double thicknesses of boards, except on the north side, though all cracks should be battened. An earth floor, if on a dry locationy is as good as any other, but whatever flooring is used, care should be taken to prevent drafts across it, either above or below. Drafts under a tight floor will seriously lower the temperature of the room, without contributing a particle to the ventilation. They cause, in fact, a sheer waste of heat.

OCTOBER 17, 1907

attending, if

A few older

destre for

TA VAWGAEPOULTRY.

FALL WORK WITH INCUBATORS AND BROODERS

brooders well cleaned and put away for next season.

The incubators should be well washed with some

disinfectant. The lamp flue should be cleaned; if

necessary piscrubility in order to get out that oily, black soot w if you de not get it clean, you may

have trouble with a smoking machine next season. Take the burner off the lamp and give it a good

Now is the time to get your incubators and

For the ceiling of the poultry house, Prof. Graham, of the Ontario Agricultural College, has recommended a foot layer of straw spread over some loose boards or scantling. He finds that it not only keeps the pen warm, but also dry, while the dust which accumulates accounts for freedom from vermin. By this, we do not mean that the hens in a house so ceiled would be protected from lice, but that the mites had not, in the three years' experience at the O. A. C., infested the straw loft itself. Of course, a house with this straw ceiling requires the usual roofing above.

But it is in the provision for light and ventilation that the most remarkable change has been made. The problem is how to ventilate without drafts, and light the apartment without making it too cold. A large area of glass chills the inside atmosphere, without contributing one iota to the ventilation. It has recently been found that a good deal of light may be admitted, and sufficient fresh air, as well, by having an open space, which may be protected on cold days and at nights by dropping a frame on which ordinary factory cotton or muslin has been stretched. Through the meshes of this muslin the impure air gradually passes out and the pure air passes in, without causing perceptible drafts, while the moisture given off by the bodies of the fowls is partly removed by the diffusion of air, and partly, no doubt, evaporated throught the fibre of the Strange to say, the temperature in these canvas. curtain-bront houses is little or no lower than in others with an equal area of glass pane. The reason for this, presumably, is that loss heat is wasted by conduction through the fibre of the canvas than there would be through a solid-glass pane. It is hard for many to understand that heat can pass through a solid, air-tight pane of glass, yet that it does is proven by the fact that a bottleful of boiling water, tightly corked, and placed in a freezing temperature, will quickly become congealed. The muslin curtain evidently passes of less heat by conduction than does the glass pane. True, the curtain also allows heat to be lost by the exchange of warm inside with cold outside air, but as the exchange secures the provision of fresh pure air, it is not objectionable ; indeed, it is absolutely necessary with any system of ventilation that does not especially provide for warming the intaken air. But, without going further into details, which have already been amply explained through these columns, it is enough to note that up-to-date poultrymen now adopt the muslin-curtain idea as a matter of course, although in most cases they also have a limited area of glass window, in order to admit more light than would be admitted by an all-curtain front. This is the more necessary because the curtain tends to become more or less filled with dust. For this reason, it should be occasionally changed. It has been urged that hens require, for best results, two compartments, a warm one for roosting, and a bright, airy place for scratching. While this is still deemed advisable, a modification of recent years is to construct only one room, but in the back of this to have a curtain, which may be

estnom netrivfowls will be virtually confined in quite narrow quarters, that their bodies will keep warm, but which will not entirely exclude the surrounding

the

Housing

roosting space of nine inches. If the number of birds is very small, the pen should be relatively larger, on the principle that a 6 x 6-foot cell would be more cramped for one man than a room 24 x 12 would be for a family of eight. As a rule, it does not pay to keep large flocks of poul-try together. Twenty-live or thirty should be the limit. Two moderate-sized honses are better than one large one, and safer in case of vermin or disease. basesque ant et ti brou

STRAW LOFT AND OPEN-FRONT HOUSE IN QUEBEC.

Editor "The Farmer's Advocate ":

We keep 200 laying hens, consisting of Barred Rocks, White Wyandottes, Silver-laced Wyandottes, Rhode Island Reds and Black Minorcas.

Our poultry house is what is called the single house, 100 feet long by 12 feet wide. This is divided into five pens, containing the five different breeds. This house is single-boarded, with the addition of two thicknesses of felt paper, and clapboarded. One-slant roof, side walls, 8-ft. front, -ft. 6-in. back; ten windows, two to the pen, 2 ft. 8 by 4 ft. 10; sliding panes in windows for ventilation. After two years' use of this house, which was not altogether satisfactory on account of the moisture collecting on the roof in cold weather, and then dripping in warmer, we lathed on underside of rafters and packed with straw, which entirely did away with this trouble. Any further extensions in the way of poultry houses with us will be with peaked roof and straw loft, as this is the best system of ventilation and preventive of dampness that we know. Our experience with single-board houses has been very satisfactory, providing they are tightly built, with the exception of the front, to avoid drafts. We prefer open fronts with sliding doors or windows to curtain fronts.

The one essential point in an ideal poultry house, with us, would be the peaked roof and straw loft. Outside of this, we think there are several different plans or styles of house that will give good satisfaction, varying from warmly-built to cold houses. Have the air in poultry houses pure and dry; then it may be either warm or cold, but you will be sure to get eggs if you have suit One point in able stock for egg-production. favor of the single-board cold house that will appeal to the farmers of limited means is that the expense of this house is very small and will certainly give good returns for money invested. A. P. HILLHOUSE. Brome Co., Que.

THE AFARMER'S ADVIGATE T

the machine or in some other convenient place, not us much marn, except many you win have well will all softweepent would one of block bus, guings "little more trouble in getting your machine line device in the test of the second starting and the second start of the second

Look over the felts in The top and bottom nofai. Look over the fields in the top and bottom of an analysis of the field with the field of the fie cleaning; throw away the old wick and dump out ing in the sun. It is well to disinfect, with a

antern, but it is good to go over the perches in the poultry house. Leave the lamp sitting under cloth, get one ready. Put your brooders under cover if you can. They

1639

but do not attach it to the incubator. It may will shed water Better gext summer if you do.not do much harm, except that you will have and Prof. W. R. Graham, in the Canadian Poultry .

ruary of the year would be thankfully received.

Ans.-Most of the red rest parties in Sugar by means of suckers, while the first in the parties of the new canes, gates by rooting of the tips, of the new canes, from a ventilation standpoint! otranounded dick or heavy totton has not proved very satisfictory. 10 We believe in straw lorts, i. eo the calling as to very ered with "Halls of Boards which are lard Your tove six increases aparts and these the turn coverage with an to the six increases aparts and these the turn coverage with a straws and the moisture. The house of the bards, walls, we single ply boards, and to well the cracks a transit to batterns. The houses that are artificially decorate and wells a straight of the bards and the straight and the straig woilld probably give more actinearly meters woild probably give more egg production, but where one is to keep the house tight to maintain a higher temperature, due to the heat ranged av from the fowls, we have found it to be meat the more eroniste noifsetbord and bran Hissif month thod , vrot bushes should be pruned every year, ether in , miou point. al

T presume that the ordinary farmer Bhould Reepla between 50' and 100' hens." To do this, he would at require a house, for 100 hens, 50' test house and a training the set of the set 12 feet wide, or 40 feet Tong" and 15 feet wide and ⁴ woillde hecommiend straw lofts, curtain and glassed fronts combined, as lest thed above, and single of ironts compined, as described above, and single of ply boards. Where one puts too much money in a house of the capital invested. If Xo get paying dr revenue on the capital invested. A pointry house it requires to be dry, well-ventilated, laiso light, and or if possible, free from direct draughts into a of your bus see of note pripage. Reference of to rogive

Ontario Agricultural College, Guerni and it or organ. Raspherries, like other ignits, regular alerni, this thorough cultivation throughout the servent this ADVANTAGES OF COLONY SYSTEM. bloods

Editor " The Farmer's Advocate or bas animas edi at I keep 200 layers, and raise from 800 to 500 each year, I keep Buff Orpingtons, and find them of

the best all-round fowly I shave tried ou Have bhadin Rocks, Wyandottes; Leghorns, Games, etc. 200121001 T have two poultry houses, 60 feet long by 18" feet wide. Each house has four pens, and a feed-it room, at one and, the building is one a cement. wall 8 inches thick and 6 inches above ground. The buildings are 5 feet high at back and S feet at front, and covered with roofing paper. The walls are studded around with 2 a 4 hemiock scantling on this is placed common sheeting covered with building paper, and then shingled with cull shingles costing \$1.00 per thousand. They are laid 5 inches to weather, costing, for shingles, 75, cents per 100 square feet. This, Leclain is much cheaped er than siding of Every pen has a large window in a front, side, 3. ft. 14 nin a bying ft. 10 in or Windowson run, up to root, and slide back inside when not in it use, nid I use the window for yentilation, using cotnig ton on a frame hinged at top of window, booking or it.up inside when not used bad I use eanth doors in to one house and coment in the other; did the sold is it hard and dry to the searth floor; gives as good resultside Lohave had experience with single board to

MODERN POULTRY-HOUSING AT O. A. C.

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Editor "The Farmer's Advocate ":

We ordinarily keep about 600 breeding fowl. These represent such breeds as Plymouth Rocks, Wyandottes, Orpingtons, Rhode Island Reds, Leghorns, Minorcas, Brahmas; also two breeds of geese, Toulouse and Embden; Pekin, Rouen, Indian Runner and Cayuga ducks.

As probably many of your readers already know, we have several kinds of poultry houses. To describe the most satisfactory, as far as our conditions are concerned, I would say that onethird of the front of the house is of glass and two-thirds of cotton. The cotton is attached to frames. In the construction of the front of the house, I think it advisable to have the first two feet next the ground of boards. To my mind, this is necessary, owing to the fact that some days in the winter when the curtains are up there are strong winds, and if one is not around to let the curtains down, the hens are apt to get chilled by direct drafts. If the first two feet are of boards, the hens will get in the lee of this, and thus escape the wind. We have found the cheapest kind of cotton to be the most satisfactory,

houses using large colony houses for winte hens in, with good results. bus These bouses can be built very cheaply, and will answer a twofold purput pose, namely, for running hens in during winter w months, and rearing young stock in summer, They od should be built Suby 10, feet, ouwith pitch roof, to where straw can be placed in peak for ventilation Wire netting 14 met wide can be fastened in peak to held straw in place A small door may be cut in gable, at leach end near peakodm This will sive of the best, of wantilation on These colong chongenar should be placed ton runners of they can aben hauled where wanted. aidt o An ideal (poultry house started bis options and an ideal (poultry house and a start and a

be some of these colony houses, comfortably builting 8 x 10 or 10 x 12 feet in size, with a good-sized window in one side. Each house would hold from a 15 to 20 hens. If a farmer had 100 hens her would require, 5, or 6 of these houses all They could of be placed in a row, if desired, in any convenient place, and banked around with manure during the winter. Along about the first, of July the hens should be disposed of at least 75 per cent them-and these houses will be ready for hauling out in the orchard and the young stuff placed in them, keeping them in for a few days till they get. to know it is for them. When the wheat or grain ; is off the fields, haul these same houses out to the field, and let the chickens pick up the waste grain of They will be strong and hardy if treated in this, The stand Joa Wey CLARK Soup way. Brant Co., Ont. away this fall ?"