the fat in oilcakes, and neither the proportions of albuminoids nor of car bohydrates in turnips can be considered as of equal value with the same percentages in cake or corn.

ADVANTAGE OF MIXING FOODS.

We certainly recommend a mixture of concentrated foods. Linseed take alone is too heating, and if the sheep are to be kept in health it ought to be mixed with a proportion of foods poorer in albuminoids. If this precaution is neglected we shall run a chance of sore teats and sore mouths, in the above remarks we were chiefly aiming at arriving at the limits of cost. We now suggest that a mixture should be made on the most economical and scientific grounds possible. The mixture should be readily constructed, and be free from complication. It should be composed of farinaceous and albuminoid constituents in fair proportions. We suggest the following

-,-	
-1 bushel o	$\left. \begin{array}{ll} \text{urc for } (\text{wes or to 2s}) & \text{i}_1 \\ \text{f hase } (\text{cake}) \\ \text{c (tton cake}, \\ \text{maize (crushed)} \end{array} \right\} \left\{ \begin{array}{ll} \text{to } (\text{f}) \text{ Ho per} \\ \text{head.} \end{array} \right.$
Second in	Ature for (West =
bushel	d bran
1 bushelod 1 ···	ture for lambs — f white peas (2) Inseed cake a mate culms crushed bariey
I bushet o	xture for dry sheep — f wheat = bariey = 1 to ! < do per coils = 6 to d had baries = 6 to d
	John Wrightson.

Poultry.

A Poultry house for the Farmers, and what should be in it

expense in preparing an habitation for his fowls during the winter season. A may be added. The fowls will scratch comfortable house can quickly and and roll in the mixture and pick up the cheaply be made in the corner of a lime, grit or gravel as they require barn, shed, or outbuilding. It may be either substance. It will, in fact, house. Much of course depends upon struction, yet water did not freeze in ment of laying stock is reached. them, and no artificial heat of any kind was needed. An old cow stable and carpenter's shop combined and forming a building about 16 x 10, was utilised The inside was torn out, but the outside boards (doubled) were allowed to remain on the cedar posts, which formed the frame of the building. In the inside of these outer boards was placed tarted felt paper kept securely in place by nailed laths. The space was tightly packed, up to the rafters, with dry white pine saw-dust. In order to factlitate the packing process, only two in-

(1) A jamb "when weared, become and retains the name until story Hogani hogget mean the same thing as teg in B(2) Observe this! No English farmer would mit pease in a ration for lambs.

grain." The "fat" with which turnips occasion required during the winter for are credited in analysis is to some det he fowls to scratch in. The total cost gree waxy matter of inferior value to of the saw dust, lumber, tarred felt This paper, nails, otc., was \$ house was divided into two rooms, one being slightly larger than the other, the partition going up to the ceiling. This description is not given as a model, but it may be useful as showing what can be done with a building that would otherwise have been useles

Where it is difficult, or impossible, to procure saw-dust, an air space, with one or more layers of paper may answer the purpose, but the experience of the writer and one or two of his friends proves the air space a failure as compared with a saw-dust lined house. 'As has been said, there is no cast iron rule to follow in building a house, as so much depends upon cir i cumstances, but the aim should be to them. Again others are placed high up have it so that the temperature will be on the wall so that the facely will have over the freezing point, rather than preceding this one

The house should face the south, so as to receive as much sunlight as the short days of winter will permit. But short days of winter will permit. But that the eggs disappear as soon as while plenty of light is absolutely no laid, are sometimes used, but the fowls cessary for egg production, the window or windows should not be too large, for floor. A nail keg partly filled with they are as likely to admit the cold of night. Where double windows are not used, a shutter will answer the purpose but it must be opened so as to admit early daylight.

THE BEST KIND OF FLOOR.

By all means let the floor of the house be of wood, for it will be found to keep dry better than any other kind and has the advantage that you can put earth, straw, chaff or kindred substances on it and they will keep dry. Earth floors tightly packed, or even those of concrete or tile are likely to be cold, and the tightly packed earth floors have certainly been found to get damp. and damp means disease and death to; poultry. A good plan, where it is road dust or sand must be laid in bewood and the other half dry sand and A farmer need not go to any great fine gravel to which coal ashes and particles of broken mortai or crockery in the shape of the unpretentious lean- answer the double purpose of dustbath to or the more imposing compartment, and scratching ground. It will also prevent egg eating, feather pulling and the resources and ingenuity of the the laying of eggs with soft shells. It builder. The writer, some twelve years should be raked over and renewed occaago, made his own poultry houses, and sinually to ensure cleanliness and although five winters, of more than sweetness. More will be said on this ordinary severity, followed their con-subject when the proper winter treat

WHAT SHOULD BE IN THE HOUSE.

the warm summer months and afford coming heavily on the floor to get a greater ventilation. In the fall, the very hard corn on the sole of the foot, space between the centing and the pitch very painful and very difficult, if at all ally removed and replaced so as to cold days. Of course the flock would of the roof was filled with hay, straw possible to cure. This ailment is known have all sweet and clean. None of the be rather restive at first, for fowls dearly or dry leaves which were let down as as "humble foot." With the lighter substances or articles named are love their liberty, but if their natural that sort, to keep up the heas on bitter ally removed and replaced so as to cold days. Of course the flock would have all sweet and clean. None of the be rather restive at first, for fowls dearly or dry leaves which were let down as as "humble foot." With the lighter substances or articles named are love their liberty, but if their natural breeds the height of roosting place is not of so much moment, but in the opinion of the writer no laying hen should be allowed to jump from any height.

The nests should be so dark that the hen after laying the egg will have no desire to loiter in it. It is well that she should not see the egg after it is laid, for absence of light is a preventative of egg cating, a practice which once acquired is voraciously prosecuted. Prevention is infinitely easier than cure. The patterns of nests are many. Those in use in the Experimental Farm poultry-houses are fastened to the wall, about 18 or 24 inches from the floor, and are entered by a covered passage way from the front turning sharply into the nest to the left. They have not been long enough in use to permit of a decided opinion being formed of their value. Other nests are made on the floor so that the layers will have to creep into and out of on the wall, so that the fowls will have under it. The reasons why this is tionable on account of the impossibility desirable have been given in the article of the heavy breeds reaching them without risk of injury, and the inducement offered to the lighter breeds to roost on them. Patent nests so arranged in many cases prefer to lay on the straw has been found to make a good nest, for the light breeds.

THE DUST-BATH.

Another important article of furniture is the dust-bath which can be made by dividing off a space 3 x 1, with sides 8 or 10 inches high, in a corner house, where the sun can strike, or by constructing a box of the dimensions named. The dust bath is the means by which the hen keeps herself clear of vermin. In it should be placed road oust, dry sand or earth, innovation of the "coachman", the coal ashes, &c., &c A small quantity "March brown" or "Hofland's Fancy coal ashes, &c., &c A small quantity "March brown" or "Hofland's Fancy of sulphur added occasionally will though the trout of the Ely, the Gwengreatly assist in ridding the fowl of ny, and the Ogmore are not above be any vermin. Of course the dry earth, ing deluded by them. fore the fall rains set in. It is imperative that the dust bath should be com posed of dry material, or its value will be lost. Where space will permit, the dust bath may be made as large as desired. The foregoing applies to houses where only a board floor is used.

OTHER LITTLE NECESSARIES.

narrowness of the trough will prevent good condition, but you can't prevait the fowls from jumping into the feed upon them to lay eggs. and dirtying or turning it over, as they will do in the case of a broad shallow, really profitable we must do more than A good roost is made of a 2 × 1 dish, placed on the ground. A small this, we must provide some means of scantling with the edges very slightly tin or wooden pail, or better still, a heating their houses artificially in very rounded off. A narrow, or a small fountain to hold the drink water is severe weather. The average farmer, round roost should not be used for also required. Sometimes a small box however, would rather forego eggs either will make "crooked breasts" in is necessary to hold broken mortar, altogether than go to this trouble the young stock and spoil them for broken oyster shells, grit in the shape and expense, I was about to add, but market purposes. The roost should be of sharp gravel, &c., but where the expense I believe would be fully 12 or 18 inches over a platform, the narrow feeding trough just described justified by the increased number of latter about 24 inches with the narrow feeding trough just described justified by the increased number of latter about 24 inches with the narrow feeding trough just described justified by the increased number of latter about 24 inches with the narrow feeding trough just described justified by the increased number of latter about 24 inches with the narrow feeding trough just described justified by the increased number of latter about 15 inches with the narrow feeding trough just described justified by the increased number of latter about 15 inches with the narrow feeding trough just described justified by the increased number of latter about 15 inches with the narrow feeding trough just described justified by the increased number of latter about 15 inches with the narrow feeding trough just described justified by the increased number of latter about 15 inches with the increased number of latter about 15 inches with the increased number of latter about 15 inches with the increased number of latter about 15 inches with 15 inches latter about 24 inches wide to catch is used these essentials can be placed eggs. Still, as it would take a person the droppings and not more than 18 in it. It is a good plan to have a quan- of far greater persuasive powers than inches from the ground. The heavy tity of gritty substances on the floor I possess to convince them of this, I breeds, such as Brahmas, Langshans of the house all the time so that the shall simply suggest to them the next and Cochins, should never be allowed fowls can pick them up while scratch best thing—to make the hen house litate the packing process, only two inside boards were nailed on at a time.

A ceiling, seven feet from the floor, was
made so that it could be removed in
the warm summer months and afford whitewashed once or twice a year and floor with cut straw or something

THE NEXT SUBJECT.

should be in it. In our next chapter we will treat of the proper fowls to put into the house and their treat ment, so as to have eggs in paying quantities in winter, a reason when they are at the highest price.

The Montreal Poultry-show.

A very successful exhibition indeed. The whole really included hardly any inferior specimens. Mr. Baker of Côte St. Antoine had several excellent pens of 'Silver-laced' Wyandottes. The two pens of *Dorkings*, exhibite by Mr. Campbell, refreshed our eyes, for they were absent last year from the show The hen, however was but a moderate specimen and the great size of the cock made her look meaner than she really world have appeared if shown in a separate pen. The Embden and Tou separate pen. The Embden and Tou louse geeso were very heavy birds. The build of the Aylesbury ducks, as well as the colour of their bills, distinguished them from their next door neighbours the Pekins, though some people rashly assumed that they were of the same origin. Showy ducks, the latter, but more feather than flesh.

The turkeys were not as good as we have seen them, and they look cramped for room, especially the cocks.

The show of pigeons was excellent; the fantails were superb. A pullet was labelled, What is it?" Well, it looked to us like a white hen drawn down a chimney. Such a fowl is bred in Glamor-in be ganshire and called a "Sootie". The x 1, welsh trout-fishers give as much for a in a specimen as 10 s.; the feathers make a can queer coloured artificial fly, which, with the "coch abou dhu", meaning red above black, are the only two a true Glamorgan man condescends to use, as he would scorn the modern

A Scarcity of Eggs.

The experience of the present winter onvinces me more fully than ever that it is folly to expect eggs in very cold weather if hens have their liberty. No matter how comfortable they may be at night, or what cosy nests we pre-Other small but necessary articles pare for them, few eggs can they pro are a narrow trough about 1½ inch wide and about 6 or 8 feet long, to hold the soft morning feed. This should be screwed on, or hung by bodies and for egg production too. You hooks on to the side of the house. The can keep them healthy, active and in narrowness of the trough will present good condition but you can't prepare

To make poultry keeping in winter beyond the reach of the poorest farmer, wantswere supplied, a dust bath and box of gravel provided, and dry grain scatfored in the straw to keep them scratch-We have given some consideration ing, they would soon become reconto the kind of house to have and what ciled and be much more comfortable,