

MOSEL SHEEP BARN.

Dryness and Ventilation Are the Two Chief Essentials. Dryness is one of the essentials of a good foundation for a healthy shed.



SHEEP BARN.

The amount of room required by a sheep will vary considerably, ranging from 10 square feet for the Merino and Southdown to 15 square feet for the large breeds, including the Cotswold and large Down.

Height particularly encourages the growth of the lambs and it is to them that the shed will do the most good. To further the purpose of sunlight the windows may be higher than they are wide.

In addition to these things a shed should be large enough to supply storage for sufficient fodder to feed the sheep while they must be sheltered. Estimating that a ton of hay requires 200 cubic feet, and that a sheep will not eat over three pounds of hay per day, it would require about 12 cubic feet of straw to contain the hay needed to maintain a sheep during six months.

For the comfort of the lambs and lambing ewes an apartment should be provided with small pens for them. This room should be made warm and well lighted and the partitions removable, so that when not in use during the fall and winter it could be used as a run pen.

Another room should be opposite to the sheeping room, as well as supplying a shearer's floor and a granary. Have a stove in this room. For ewes 1 and 2 feet and a building 9 feet high, 40 feet wide and 40 feet long. It has two stories, the first being 9 feet high and the upper one 3 feet from the floor to the eaves.

The ground of the middle as well as that of the outside should run close to the wall, so that no obstruction is offered by the silos to the free passage of the sheep through the doors. The doors are all 4 feet wide, and those that are used for the sheep are sliding. The windows are 3 feet wide and 4 feet high.

There are chutes at each end of the feed racks down which the hay is thrown from the loft. From where it falls it is easily distributed into all the racks. At the ends of the racks are small gates, which open into every pen.

The lower story is divided into four pens, each of which will hold at least 25 large sheep. It would be well to retain the pens at the south end for the use of breeding ewes and their lambs, and the other two for fattening sheep. The doors and windows have been arranged so that these pens may be again divided. This will be an advantage when the ewe lamb and it becomes advisable to divide them up into small lots, with the lambs of equal age in each. The partitions between the pens are all movable.

The left above is given altogether to the storage of fodder and straw, with the exception of a small apartment above the shearer's room, which makes a place for the storage of wool. A stairway leads up to it from the shearer's room. The loft is reached from these sheepfold by means of two ladders, one at each end, where chutes are situated. Ventilation is provided for by shafts, which run from both sides under the roof to the eaves on top. These shafts are made of heavy iron and are open at three different points on each side of the field. There is a square opening at the lower end, with a cover that is being pushed in to regulate the size of the opening. In addition, the shafts are open at the top into the loft through an old door with a bar across it, which it would be better to leave it in. Through a door situated above the double doors of the lower story.—Professor J. A. Craig.

EARLY BITTERS. Objections Made and Reported From the Ottawa Experiment Station. Last month's shipment made at the Ottawa station, where there is a demand for address in the early hatching season, have been reported upon. It was noted that the silvings varieties were unusually hardy in becoming broody. In the case of the farm birds the majority of the mixed breeds kept for sitters did not become broody at any period of the season, and the thoroughbred Buff Orpingtons had to be used as only sitters. The first lot to be put on eggs was a colored Dorking on the 25th of March, followed by two Buffs on the 5th of April and four

others on the 15th, 20th, 25th and 28th of the same month respectively. In the next month 4 Buff Chicks, with 5 Birmans, 6 Plymouth Rocks, 1 Black Russian, 2 Wyandottes and 3 mixed breeds were set as sitters. It will be seen that the total number of sitters typically were not thoroughbreds. Apart from their fair laying qualities the Buff Chicks, as you may remember, are proved invaluable as early and reliable sitters. Had their services not been required for hatching and chickens they would have been broken up and made to lay again. For an early starter, when it can be had, a light hen is to be preferred, for at that time eggs are apt to be thinner than at a later date.

At this station, while the chickens were hatching, care was taken that the sitters were not disturbed. This is most important for if the sitters are disturbed after the eggs are "pipped" the young chicks have a tendency to be weak and to be chilled. If the hen is irritated or frightened, she is likely to become restless and crush the young ones to death. After the chickens were hatched the broken eggs were removed to make the room more comfortable. But this should not be attempted by any but an old hand. It is best to leave the hen alone if she is a reliable sitter.

Provision for being put into the cover with her brood the hen was fed and allowed to drink apart from the chicks, otherwise she would have gradually eaten up the daily food intended for the young youngsters. It must be remembered that for two or three days or nights the careful mother has not left her nest, for had she done so while the chickens were hatching (except in very warm weather) there would have been a great loss of life, as she would have starved and she would have been unable to care for her brood.

Occasionally it happens that a hen will become so nervous as to get on the "popping" of the chicks in their efforts to break out of the shell that she will trample them to death. Such a hen should be marked and not set on eggs again, as she is not reliable. One case occurred in which the hen was discovered eating the eggs before the chicks were even hatched from them. A spare sifter was fortunately at hand, and the remaining half hatched eggs were set on some plump under her and the lot of the chickens saved. After being hatched the chicks were allowed to remain under the hen for 24 hours until thoroughly dried. With the mother they were then placed in cages outside in the sunshine. If hatched before the group had grown they were kept below the bottom of the coop being covered with sand. The dry board floor will soon have used the little ones up—literally put them off their legs.

Early cabbage is one of the foremost crops of the market garden and usually yields a fair profit. The winter plants are set out early in the fall in a highly enriched soil. It rows from 2 to 4 feet apart, the plants 18 or 20 inches apart to the row, and down into the ground to the heart. Cultivate and hoe frequently to keep the ground well, clean and free from weeds. Occasional dressings of nitrate of soda, at the rate of 50 to 100 pounds in the acre, will not only fall in pay exceedingly well.

This is the market gardener's method. The home gardener is less anxious to get cabbages for the table in May or June. If he is content to wait until nearly July for a really superior article, he may adopt Greiner's method of sowing early in the spring (March or April) in open ground in drills 2 or 2 1/2 feet apart, and thinning to 12 or 18 inches in the drills, leaving the best plants. For a second early crop the market gardener can also sow in April and transplant in May to the permanent patch or thin to the proper distance apart.

Selection of soil for the crop is also of utmost importance. The soil should be richer than a rich, rich soil, or sandy loam, naturally drained.

In the Vegetable Garden. Succowick cabbage is a new kind that promises well. It is classed as a second early variety. The main time been generally conceded to be valuable. It is very productive and is an early variety. It is claimed for the succowick cabbage that it is early, a more header and very profitable.

A novelty among medium early varieties of lower cost is the Country Gem. The ears are smaller than some other sorts, but the quality is said to be excellent.

The new pea Chelsea is a wrinkled variety, dwarf and extra early. The Thornton potato is one of the earliest varieties. It is very productive. Rural New Yorker No. 3 is an intermediate potato of fine quality. It is a big yielder.

The Jersey Wakefield cabbage is generally conceded to be a first class variety. The Banner is one of the best varieties of lettuce. The Illinois sweet potato, one of the new varieties, originated in Mississippi. It is claimed that it will yield the best quality of the best yield, without being so large and coarse.

Methods of feeding Wheat. At the Chick station the results from drilling wheat at depths of from one to four inches as compared with those from sowing broadcast are very favorable to drilling in 1902. It's average results for four seasons at the same station show better drilling than sowing. The better results than drilling one way. The roller following after each row of the drill did not add materially to the yield of wheat.

Timothy hay is given for an experiment at the Ottawa station, in which wheat has been sown in drills on four plots at a depth of from one to four inches, and five plots in which the wheat was sown in broadcast at the same depth. The yield of the drills sown in rows has the advantage in the yield, but in general the yield increased with the amount of seed.

JAPANESE LIVER PELLETS. The following is a list of the names of the various brands of pellets that are available in the market. The first lot to be put on eggs was a colored Dorking on the 25th of March, followed by two Buffs on the 5th of April and four

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