up in cock - small grass cocks the first afternoon, and then in larger onesbefore nightfall.

Here, where labour is so costly, the same process cannot be gone through and the sooner hay, especially clover hay, can be got into large cocks the better, and if these are covered in with well made caps, the hay will suffer neither from wet nor from sun.

The London, Ont., Farmer's Advo cate speaks of these caps as follows:

HAY CAPS AND CLOVER, - I have been experimenting this season for the first time with the use of hav caps in making hay and clover, and with most satisfactory results. They are, made of pulp, light, easily put on, perfeetly waterproof of a saucer shape, and large enough to cover a cock of fifty or a hundred pounds of hay their use I have been able not only to save my hay in beautiful order in spite of frequent showers, but idso in many by cutting Saturdays, cocking and capping in the evening, that I have the usual number of loads to bring in on- Monday, instead of as heretofore trying to get everything into the barn on Saturday, and either wasting time on Monday, or cutting more than I clover growing I believe their use is that many people make to clover growing, on the score of needing so much handling in curing it.

Prof. Henry, Wiscon in Ex Station, "found them very use ul in covering not only hay but also plants newly

Mr. Long, New-York, was well pleased with the 800 hay-caps sent him.

Mr. Whitcomb, Massachusetts, likes the caps very much, if he had taken 500 of them the first of July, he would have saved, in quality of hay, \$100. We have been informed that many

of these caps are ordered for the approaching summer, and we trust that or the rotation might be modified into those of our readers who use them will answer.

A useful Experiment.

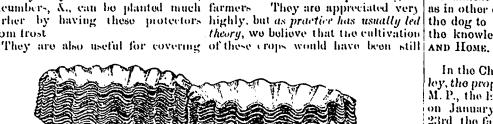


The Symmes haycap Company send me a portrait of the Symmes' Patent Vegetable Cover. It is said to be thoroughly waterproof, tough and dur-



able and to last a lifetime, if taken care of. It is 11 inches high and 9 inches diam, at bottom.

transplanted plants, such as tomatoes, cabbages, &c., allowing them to be ordinary way. Corn, beans, inclons, cucumbers, A., can be planted much earlier by having these protectors from trost



transplanted flower plants.

The price is \$10 per 100, f. o. b. Sawyerville, P. Q. and we should like

Leguminous Cropping

We are destined to hear a great deal upon this subject. It is true that the leguminosa possess the power of appropriating introgen from the air, and of could properly attend to With grain adding to the stock of organic nitrogen I have not yet tried them, but in in the land. This is the great discovery of the period in agricultural chemistry, destined to serve a most important and it will no doubt be used as a means end, and they overcome the objection of improving land. Leguminous crops will be more largely grown in preparation for corn, and rotations may easily be framed with this end in view. Clover may even be sown among beans instead of among barley, with good results. Peas, vetches, and lupins will also be mire largely cultivated. Such a rotation as the following is a type upon wich courses of cropping may in the future be modelled.

1st year, mangel, cabbage, or swedes. 2nd 'beans deguminous crop.

3rd 😶 clover (leguminous crop)

4th " wheat.

5th " vetches deguminous crop.(1)

tith wheat.

-First year, beans and clover cut green let us know how they find them for silage; second year, wheat; third year, vetches; fourth, wheat, fifth year, barley or oats; sixth year, potatoes, well dunged and manured.

There are certain considerations with reference to these modern suggestions which should not be lost sight of. First, the fact of the disc veries of Hellriegel and Wilforth only reveal a tact which has always been in operation. The excellent effect of clover as a propara-The tion for wheat was fully appreciated Rape long before it was understood. is also a capital preparation for wheat, although it is not known to absorb nitrogen from the air. Vetches are an excellent crop, but have the disadvantage of being too late to be used very successfully as a catch crop. ordinary turnip crop is as good a preparation for barley as clover is for wheat, and a good crop of early turnips fed off with sheep is probably as good a preparation for wheat as clover itself. Rotations should always be as varied in their constituent parts as possible, and it would not serve our purpose to limit them by leaving out the crucifera. At present, rotations are almost always composed of these three natural orders -grammea, legummosa, and crucifera, 2) and it would not answer to exclude

(1. In many scale vet, hes, make the hand tool shattery" for wheat unless a sheep-fed crop of roots or rape intervene between the vetches and the wheat. In (2) 1 c., grain and grass, pod-hearers, and the turnip family. En

cropping

It may also be fairly asked why transplanted much on lier than in the legiminosa have not already absorbed ordinary way. Corn, beaus, inclose, more attention on the part of good encumbers, &, can be planted much farmers. They are appreciated very highly, but as practice has usually led theory, we believe that the cultivation the knowledge of the owner.-FARM

further extended through the dictates of experience without scientific enlight after a heavy tain without further our friends to give them a full trial at to a great extent into all courses of to six parts wheat straw chaffed, with handling, and I have also found that once.

Din. cropping is evident, and it is nossible 1 bushed of substantial and 1 bushed of substantial and 2 bushed of substantial and 2 bushed of substantial and 3 bushed of that they may be still more widely of the chaff; to this is added $\frac{1}{2}$ lb. of grown. There are, however, many malt coombs and $\frac{1}{2}$ lb. of pearment to and varied considerations, which will each owe, and the whole thoroughly probably end in holding an even mixed and allowed to ferment for balance between them and other crops. thirty-six hours. This makes a very What could be a better example of a appetising food, and is a great saving leguminous rotation than that known of hay, which is now very scarce. Ewes as wheat, beans, wheat, beans, &c.? with twin lambs have I lb, of decorti-Here we have the full effect exhibited cated cale in addition to the ordinary of leguminous preparation for wheat. followed. (1) It, however, has not extend ed, but is restricted to certain soils, and

> We doubt, for the reasons given, that this new "gospel" will, after all, produce a radical change in our established systems of cropping (2) JOHN WRIGHTSON.

> does not intrude upon those on which

a greater variety of crops can be em

The Flock.

Early lambs -On the 27th. of February, we saw two very fine fat lambs hanging up in the shop of the Messrs. Brown, Ste. Catherine Street, Montreal. Both were jet-black, and we have often remarked that most of the carly lambs that come to Montreal are of that colour: why this should be so is not clear. At all events, as black sheep are rarely to be found among the flocks of English-speaking farmers in this province, we must conclude that the earliest lambs are sent to market by the French-Canadians, and they deserve very great credit for their enterprise. The lambs in question were ripe-fat, the kidneys well covered, and the briskets full of meat; but they handled soft, and a few pints of pease would have made the flesh firmer: a fortnight more age would have improved them vastly, as a quarter would have been but a small dish.

Sheep Worrying.

A man has a right to shoot a dog which is actually attacking his sheep, but he has no right to shoot it because it has attacked thom, or because he thinks it likely that it may do so Tho test is, that if the shooting of the dog but the butchers complain of their not will save the sheep from actual harm, then he is entitled to destroy the dog when it is actually attacking the like a g sheep; but, if it has attacked them lambs. and is running away, the shooting of shires and Southdowns, have used an the dog would be illegal, for he would amported Shronshire ram. This year

(1) Particularly in the heavy lands of Essex, Eng., where the land is ploughed into a feet ridges * En. (2) The Itaues are ours — En.

It appears valuable for covering any one of them from a full share in not then be protecting them from it Of course, in any case, he would be entitled to sue the owner of the dog for damages, and a special Act of Parliament says that it is not necessary as in other cases, that he should prove the dog to be vicious or dangerous to

> In the Cholderton flock, near Grate ley, the property of Mr. H. C Stephens. M. P., the lambing season commenced on January 7th, and up to January 23rd the fall of lambs had been seventy-four, strong and healthy, from fifty-one *Hampshars*-down owes which had come in. Mr. Ernest D. Brieant steward to the estate, informs us that up to the date given there had been only one ewe lost, and that two owes had dead lambs before the time was up for lambing. His system of feeding is as fellows: Before lambing the owes have swedes and sainfoin hay; afterwards mixture. The Southdown flock at The system is an old one, and is still Cholderton has gone on well up to date. and will commence to lamb down January 30th.

> > Dorset horned sheep -The following is a description of the points of a good Dorset:

General appearance, head well up, eyes bright and alert, and standing quare on legs, 20, broad, full chest, brisket well forward, 10, broad, straight back, with well sprung ribs, 15; heavy square quarters, set on short, straight legs, well apart, 10; legs white, with small light-colored hoof, 5; head small, face white, nostrils, well expanded, nose and lips pink in color, 5; neck short and round, set well on shoulders, 5, horn, neat, curving forward and light in colour, 10. good foretop and well covered on belly and legs, 10, wool of medium quality and good weight, presenting an even, smooth, white surface, 10.

The Bordeaux mixture.—Caution in the use of this mixture for curing the potato disease is recommended by more han one extensive grower in Engl. - 1. It has been found to remew the vigour of the plant so much that the tops, instead of dying off at the proper season keep on growing, and the tuber-instead of romaining white, turn yellow, lose their mealiness, and become way and soap-like. This is worth looking into, as, except on certain soils, our potatoes are not even now too fine in quality.

Feeding Lambs for Market.

Eds. Country Gentleman .- I have tried raising early lambs for market for a few years and have no trouble in getting them to weigh from 50 %. to 60 lb. when from 8 to 10 weeks old, being fat enough to dress well-there is too much shrinkage - and I should like a good ration for both sheep and The sheep are grade Shropimported Shropshire ram. expect lambs about the 1st of February.

I have fine upland hay cut in June

and rowen; stone, or rutabaga turnips, and mangolds, for roots; Chicago coarse