HINTS ABOUT WORK.

has lefaure before him that may be turned to good account. With the general spread of information, the farmer cannot afford to be behird his fellow citizens in the knowledge of common things. Every furmer should club with his neighbors to form a library of at least one hundred well-selected, standard, practical books, relating, first to his own profession, agricultre, and the sciences connected with it; there are now many excellent, plainly written manuals upon all the collateral sciences; then there should be works on American and general history, on political economy, and lastly in gen eral literature.

FEEDING STOCK.—There is opportunity now for those who desire—and every one should—to try some of the experiments in folding, referred to in the articles by Prof. Atwater, which have been published in the American Agriculturist during the past year. These articles are worthy of close and caroful study, for they put many things in quite a new and different light from that in which most farmers have intherto viewed them. Economy demand: they every ounce of nutriment should be got out of the fodder we feed. There is no doubt that some of it is lost in our usual methods of feeding stock.

Honses,-Care is required in grooming and cleaning horses. No gathering of scurf, or waste of the skil, or of dried perspiration, should be permitted to collect beneath the cost. But this should not in every case be torn away with sharp curry-comba. A tender skin is in-jured by rough currying. A moderately stiff brush, made with an uneven surface, is sufficient in nearly every case. But labor must not be struted in keeping horses clean.

Cows —Fresh cows need a large quantty of water at this time, and this is best given in the shape of warm slops of bran, or a mixture of corn-meal and middlings. Our milking cows corn-meal and middlings. Our milking cows have done very well on facely cut, well cured corn todder, wetted and mixed with corn and middlings ground together very fine. One bushel of cut fodder and 3 quarts, or 41 pounds of the meal, is the daily allowance. A sheaf of cats, or a small feed of good clover hay, is given at upon. In the case of some very large milkers and butter-makers, this allowance of meal may be sometimes doubled with good effect. Cleanliness is of the greatest importance in the win-ter time. The cows and calves should be carded every day, and their coats kept free from filth. Lice will never be found upon stock thus managed.

UALVES may be kept loose in a shed by themselves, with an open yard in which they may run in the day time. They should be kept well run in the day time. They should be kept we'll littered, and the litter need not be removed until spring. If the litter is short, the manure will be fine and in excellent condition for use. If whole corn-stalks are used for litter, this plan will not answer.

BEDDING in the stables is of great importance, both as regards the comfort of the stock and the condition of the manure heap. It will pay to cut all the litter with a fodder cutter, when it can be done by horse-power. Where leaves or sawdust can be procured for bedding, every pound of straw should be used for feed. Otherwise cut straw, when used for bedding, is more absorbent than long straw, and more quickly rots in the manure heap. The stock can be kept very clean with short bedding.

SHEEP.—The sheep sheds and yards should be kept well bedded with short litter. This may be shaken up every day to keep the surface clean, and if it is not removed at all until spring, the sheep will do as well or better than if the manuro is disturbed. The litter and droppings become firmly packed until two feet thick, without any evil or disagreeable effects. The feed racks should be arranged so that the sheep can not thrust their heads between the bars and tear the wool from their necks, or scatter dust, etc., amongst the wool.

Swing.—There is a good prospect for high prices for pork for some time yet. Pork and corn generally bear relative values, and whatever the price of corn, it can be turned into pork with profit. But the better the machine (or the pig) for working up the corn, the greater There has is the profit. the better in the stock of pigs and hogs, but there is room for further improvement. The there is room for further improvement. The aim should be to reduce the offal and produce a pig or hog as nearly as possible all bacon and hams, and one that will come to market without being wintered over.

Sales of sales

Pure Water is as necessary for stock in the winter time as in the summer. There is much suffering and consequent loss amonest stock for want of water. Ice cold water is injurious, and animals will not drink enough of it to supply their wants, unless sufficient is supplied, diges-tion cannot go on properly. Water should be given in the yards three times a day. It should be drawn from wells or cisterns. The trough should be empticd into a drain as soon as the animals have drank, so that ice does not gather in it.—Am. Agriculturist.

PROFIT FROM GOOD STOCK.

Mr. Warnock, a well-known breeder of Short-Mr. Warnock, a well-known breeder of Shorthorns, reports the preduce from "Easter Day," a cow nine years old, and costing \$350 in 1868, as follows:—"Airdrie Belle" sold for \$1,700; "Airdrie Belle 20d,"\$000, "Airdrie Belle 3rd," \$940; "Rosette," \$750; "Cambridge Rose," \$800; "O. Rose 2nd," \$1,000; "C Rose, 4th," \$350; and three bulls sold for \$1,160. Another cew, "Miss Jackson," purchased with her calf, "Rose Jackson," for \$600, in about the same length of time produced stock which sold for length of time produced stock which sold for \$6,388. The total profit on the two cows amounted to \$13,470, for which the cost of their food, care, and the interest on the money, would have to be deducted. Although this stock is what is called fancy stock, yet the result in the the Granger.

case of ordinary good stock would be the same, THE WINTER'S STUDY.—Now that the sear but in a least degree. There are cows, sheep, son for active labor is over for 1875, the farmer and pigs which are worth, for actual marketable mateerial, many times as much as common poor animals would be. Yet they cost no more to keep. It is this fact which makes the basis of the value of the better class of pure-bred stock. There will always be a demand for good breeding animals, at a price far above their value as dead meat, because the value of the produce increases in such an enlarged ratio. If we double 820 and the product, four times, we have \$320. But if we take \$100 and do the same, we have \$3,200. The difference is \$2,580, or 30 times the first difference, instead of 4 times. This gain in the value of the produce is the second of the high relief to the produce is the second of the high relief to the produce is the second of the high relief to the produce is the second of the high relief to the produce is the second of the high relief to the produce is the second of the high relief to the produce is the second of the produce is the second of the product of the high relief to the product of the p cret of the high value set on improved stock. which costs no more to keep-often, in fact, it costs less-but which makes a vasily kreater profit in proportion to its flist cost, than ordinary stock. And the demand for good stock can not be supplied in our day .- American Agriculturist.

STOOK SALES.

LINCOLN SHEEP - The fine flock of Lincoln sheep formerly owned by Mr. Richard Gilson, of Canada, has been purchased by Col. W. S King, of Minneapolis, Minn. Col. King's stock of Lincolns is now the largest and finest in America. If his Lincolns thrive as well as his Shorthorns and Ayrshires, they will soon acquire the high reputation in this country, which this fine breed of sheep deserves.

Messrs. A. & A Stewart, the large cattlebreeding firm of Lobo, have sold a herd of Durhams, consisting of four females, to Mr. Terrill, of Middlefield, Conn., for \$3,000. The cattle that brought this handsome figure are of what is termed the Seraphina Strain, and a two year-old of the same family was sold by them last year for \$1,000. At a recent sale in Kentucky, an animal of the same family sold for \$2,600 and another for \$1,000. The last-named came to Canada. The same breed of cattle is also very popular in Hogland. The Messra Stewart deserve credit for their enterprise, and it is to be hoped that the venture will be one of con-tinued profit to them.

John Suell's Sons, Edmonton, Ont., report sales of 25 Cotswolds at the St. Louis, Mo. Fair, 13 of them lambs, at an average of \$85 each, thirty Cotswold ram lambs, in the last three months, at an average of \$55 each, five of these sold at \$100 each—lowest price, \$25 Six imported shearling rams at \$200 each. Imported rain Palmer, three years old, to W. W. Thornton, Shelhyville, Ill., \$225.

Sixty-five Berkshire pigs, in the six months at an average of \$43 each; lowest price, \$15 highest, \$300.

Received from England, Oct. 26, four Berkshire sows and one young bear. Sold one of the sows to M. F. Dunlap, Jacksonville, Ill., for \$300 gold.

Demand for good Berkshires and Cotswolds unusually good, and prices very satisfactory.
F. W. Stone, Guelph, Ont., has made the following sales.—To Hon. F. Stump, Cecil Co., Md., a Shorthorn bull calf, to Hon. A. McQueen, Frederickton, N. B., the Hereford bull Chieftain, winner of the first prize at Ottawa,

Wm. M. Miller, Brougham, reports having just received from Messrs. Colo and Walker, Gloucestershire, Eng., about eighty Cotawold shearling ewes, and a number of shearling rams and ram lambs. They were selected by Mr. S. Beattie in person and brought over by him. They are said to be the best lot yet imported. Mr. Miller also reports that all his stock are doing well, and that he has four young calves, all red, which are also doing well.

Hon. M. H. Cochrane, Compton, P. Q, effected some important sales of Shorthorns while in England, among them the Booth bull Royal Commander to Hugh Aylmer, Esq., for 1,150 cuincas, and to A. H. Brown, Esq., the two-year-old cow Forget-mo-not, and four of Royal Commander's heifers, receiving 3,500 guineas for

Hugh Thompson, Kineller Farm, St. Mary's, reports having lately made sales to M. W. Ser rell, of Middlefield, Conn., of the following

WELL-BRED SHEEP.-Mr. Wm. Boulton, of Mount Pleasant, township of Mara, Ont., has just purchased an imported thorough-bred Leicester ram three years old. It was bred by James Stewart, Esq., Shepherd Park, Yorkshire, England. The ram was imported by the celebrated breeder and importer of Lincolns and Leicesters, John Darling, Esq., of London township. The animal teek three silest curs township The animal took three silver cups, at different exhibitions, in Great Britain, and these honors were awarded when he was only one year old.

PREVENTION OF SWARMING.

I had a little experience in trying to prevent swarming by clipping the queen's wings, as Mr. Langstroth suggests in a recent article. The queen would come out and try to travel to the swarm; but never tried to crawl back into the hive. Part of the swarm would find and clus-ter round her on the grass, after clustering on an apple tree. I returned her to the hive every day for about a week, when one morning I found her dead. The whole swarm hung round the hive all this time, and got so used to hanging round that they continued to do so until the young queen had hatched. When the honey season was over they had less honey than they would have had if the swarm had been hived at first.-J. L. Hubbard, in American Bee Jour-

BROWN LEGHORN.

The Legherns have a high reputation as lay-s. Of those Italians fowls the brown variety has recently become very ropular. It was introduced by Mr. F. J. Kinney, of Worcester, Mass, who bought the first trio that was imported, in 1853, from on board a ship in Boston. harbor. Since then Mr. Kenny has made several importations from Leghorn, in Italy. The character of these birds is of the very best. They are yellow-skinned, and excellent table fowls, are extremely hardy, and enormous lay ers. Mr. Kinney reports that his hens lay on the average 210 eggs in the year. They are heavier birds than the White Leghorns, and are much hardier and precoclous; pullets often begin to lay before they are five months old, and continue laying during the whole winter. They are gay plumaged birds, and have become very popular of late amongst fanciers, as they must also soon become amongst farmers, if they have not become so already. The Brown Leg-horns are described as having the comb of the Black Spanish fowl, with its head and body, Game The Brown Leghorn cock is black-breasted, with hackles of orange-red, striped with black, the car-lobes are white. The hen on by first eating vet hes, and then clover or rape is salinon-color on the breast, with the rest of until the turning are ready again. Many good the plumage similar to that of the partridge, or farmers keep hundreds of sheep without adding brown, finely penciled with dark markings, any food to the produce of the farm, but there are more who, finding how the land is enriched and the crops increased by giving oil cake, use great quantities, and find it pays very handsomely. These are genuine "farmers looking shead, and the continued universal custom in England shows." and the plumage or color of the Black red Game The Brown Lexhorn cock is blackis proof of the hardness of this breed. A pro-minent English poultry funcier is of the de-cided opinion that this breed is the best of all our American breeds, when size and product of eggs is taken into consideration. A pair of fowls which Mr. Kinney has in possession de-scended from Brown Prince, a noted premium bird, which is three years old, and weighs seven pounds, and from two hens which are of the Signora strain The hen Signora is eight years old, and weighs six and a quarter pounds. She has laid in all 1,530 eggs, and is still laying as well as ever. This fact is remarkable, and shows the value of this breed, and especially of this train which has been carefully hard from this strain, which has been carefully bred from the best selected stock, with a view to the production of flesh and eggs. There is scarcely any stock of the farm which is so poorly managed as the poultry, yet there is none that may be made more productive. A yield of two or three dozen eggs, and a broad of three or four chickens, is generally considered a fair season's production from a hen. This is the consequence of keeping poor stock, or neglecting that which is better, and capable of doing better with proper treatment. Poultry may be improved by careful breeding as well as a pig or a cow. An infusion of new blood should be procured every year or two, and a bird of undoubted excellence should be bought.—American Agricul-

The Granger is the only paper deroted to the interests of Patrons in Canada. Only 50 cents per annum. Full of Grange news. Every Patron should subscribe.

WINTERING BEES.

By the beginning of December, according to the weather, and time varying of course with the locality, bees must be put into winter quarters and protected on their summer stands. It is not well to house them too early.

A cold time should be chosen to take them in, and they should be moved easily, so as not to stir them up. We have carried fifty hives into a cellar without a buzz from a bee, and then again, by an unlucky jar, a colony bad been stirred up so that it did not quiet down for hours.

Under favorable conditions bees, in the winter, remain very quiet. A noise from the hive is evidence of discomfort. As long as you do not hear from them you may be sure all is well, but if a constant noise is heard be sure something

the hive.

After your bees are put away for the winter let them alone. To those who winter them out of doors we can only say: be sure that they have plenty of honey in the hive, while, at the same time, they have empty comb, in which to clus-ter. It will require much more honey for these left out of doors, and they should, by all means, be sheltered from the rays of the sun upon the entrances. This is more dangerous than cold or snow, as it tempts the bees to activity in weather too chilly for them to fly. We have all seen bee hives covered with a snow bank for weeks without injury. Whether bees are in houses, collars, or out of doors, a quilt, carpet or mat over the tops of the frames, is a great protection worth many times the cost and trouble.— E.S.T., in American Bee Journal.

INSTINOT OF THE BEE.

In building combs bees make them a certain distance apart, and they should be kept frame to frame, just as the beer construct them. If artificial combs are mismatched, and not kept a uniform distance apart, such colonies will not do as well. For instance, if we take out one frame and move the rest to make equal distances, they will be about three eighths of an inch wider apart than the bees would naturally build, and the bees and queen could not readily Stock Sales are reported regularly in the Granger.

Stock Sales are reported regularly in place it back just as arranged by the beca.

Agron Benedict, in American Bes Journal.

FEEDING vs. PLOWING UNDER CLOYER.

A farmer, in a late number of the Rural New Yurier, navagely objects to plowing under green clover. He prefers feeding it, and plowing under the dung and urine. He says:—

If professors of chemistry would tell us whether a crop of clover plowed under would be of more value treated in that way than if abeep were folded over the land and daily fed with it in racks, it would be of more service than making statements every practical stock farrier knows to be erroneous (such as, for instance, potatoes not being good for animals, unless in so hem all pro-portions as to be of little use; by giving good and correct reasons for the raw herbege giving more fertility to the soil than it would after passing through the sheep, and being added to the earth as dung and urine. as dung and urine.

In England sheep are are kept in what would be called here very large flecks, and on the farms occupied by the best tenant farmers they are used to eating green crops, by being hundled over the ground day by day, as much for the beneat of the ensuing crops as for the profit derived from the ensuing crops as for the profit derived from the the fitch and wood gained. Thus hundreds of sheep fis in pens in the he'ds all winter without shelter, having fresh bits of ground given them every day, and in summer the same plan is carried the continued universal custom in England shows it pays generally. Therefore, if farmers in America would keep sheep, and use them to eat their green crops, intend of plowing them under, and give them some of the grain and corn that has to pay them some of the grain and corn that has to pay exerbitant freight, they would not "run down" their land, and it college professors would go into these subjects, giving chemical reasons for the advantages obtained by sheep husbandry, it would enlighten the pupils and be interesting to practical flock masters, although they would know from experience how the sheep increased the crops by cariching the soil, and how it added to their yearly income by having so much wooland mutton to sell.

lowing one crop into the ground to force the lowing one crop into the ground to force the next one is expensive work, especially when manure is used to get something to plow in, and it would be much cheaper and show more clearness of brain in looking shead, if the growing of every crop was with the view of consumption, so that while making wool, mutton, etc., to sell, the food consumed would all return to the farm to double and treble the crops. When every respectable farm has a shepherd upon it, prosperity will reign over the agriculture of America, and it seems extraordinary that clover and other good crops should be plowed under, and shephenia be unshould be plowed under, and shepherds be un-known in whole districts, when in reading old his-tory, and the Bible, too, there is proof of there being abepherds and flocks overywhere. At the present day the best farmers in the best agricultural com-munities in the old world owe everything to sheep and other live stock. Growing wool upon an intelligent system of rotation, cropping in the South would eventually pay far better than raising cot-ton, or both of those staples might be grown with much better results than cotton alone.

Where there is a will there is a way, for though shade is seldom required in England, and would be essential in the South, movable shade frames could be used which could be shifted daily, the same as the moving of hurilles or whatever was used to make the division from the food to be eaten one day and for future days. In short, it is a shameful pity that wool has to be imported into a country that plows under good food for sheep

DIARRHŒA IN YOUNG PIGS.

An eminent writer on this subject, M. D. Mulford. An eminent writer on this subject, M. D. Mulford, M. D., in the American Swine and Poultry Journal, says:—Many of our swine-breeders in the West sustain considerable floss annually by their pigs dying from the effects of what is commonly called scours, caused by the bad quality of the sow's milk. The disease is more apt to make its appearance when the sow has been feducion for corn or most year. upon dry corn or musty food. It generally attacks them within one or two days after their birth, and seldom after eight or ten days. I have never failed to cure this disease by giving the sow as much sulphur of the third decimal trituration as will stand on a nicklo five-cent pieco, once a rell, of Middlefield, Conn., of the following
Shorthorn cattle, viz. Matchless 17th, three
years old, \$800; Orange Blossom 25th, one year
old, \$1,000, Village Lass, calf, \$600; Mysic
38th, calf, \$500. All to pe paid in gold.

When Powler of the being wind and yet prevents all draughts through
Cluster, and yet prevents all draughts through
for the above. fer the above.

> Breeders will find the Granger an excellent medium for advertising. Look at our rates.

FARMERS' PAPERS.

The efforts of some to destroy the influence of the agricultural press and create distrust in the minds of the members of the Grange, will, of course, prove futile, as all such narrow-minded and selfish or jealous efforts deserve to do. You may separate the Grange from the farm possibly, but never can the farm be separated from the Grange. The house may be separated from the foundation, but not the foundation from the house. The agricultural paper is the dependence of the farmer, whether he is a Granger or not; and if friendly to the Order, he has a double motive for patronizing it. This the Grancers are beginning to understand, just as churches, masons, merchants, iron

dealers, carriago makers, leather merchants, and, in fact, all other classes, understand the importance of patronizing papers devoted to their interests.—Jo ernal and Farmer.

Do Nor MEDDLE WITH OTHER QUESTIONS.

The future of the Order of Patrons of Husbandry depends greatly for results upon the wisdom it displays in acting upon the real ques-tions that belonged to it, and of steering clear of those in which they are not concerned.