dairymen colour their butter ? Does same paper, Dr Hoskins quotes an the market really demand such a extensive experiment with two cows, the market rearry demand such a extensive experiment with two cows, practice? If so, of course they are in in which the following changes were the right, but people should know wrought in the milk from November, that in the best restaurants, syster- 25th, when the test was begun, till its shops, &c., in London the butter is conclusion a few days after December very pale in colour, hardly more than 14th : light straw-colour. Hoard's Verv Dairyman says that the cause of high 1. colour in June, when the factors find, the greatest difficulty in selling the finest makes, comes from the clover-12. pasture that are then most fruitful, and that the clover not only over colors milk but gives it a rank clover 3 flavor. It is for this reason that no English dauryman over dreams of giving clover, either green or as hay, to his cows, but grazes them on old 4. meadows, and in winter feeds them on ; early-cut meadow-hay.

STOCK-SALE OF AN OUTGOING tenant. -The annexed advertisement will therefore we see no reason to dissent give people here some idea of the from Prof. Couke's assertion that," scale on which what some imagine to by a change of food, the percentage be the small farms of England, are of certain cows was raised from 4.41 carried on :

- "HAMPNETTS FARM, GLOUCESTER-SHIRE .- Preliminary announcement of an important SALE of LIVE and DEAD State grew a mixed crop of oats and FARMING STOCK, comprising about 20 useful cart horses, 4 cows and heifers. 1 bull over 100 shorthorn cattle, in cluding about 40 steers (three and four years olds), a valuable flock, consisting of 530 Cotswold ewes, 10 rams, and 550 teg +(1); 23 pigs; a large corn with the ears, and pasture, and quantily of clover hay, about 2,000 then gained in milk 30 lbs. a day, quarters of grain (various), a large quantity of wheat, barley, and oat straw, about 150 acres of roots, and an extensive assortment of farm imple GREEN MEAT FOR COWS -At the Conments, including a portable engine.

The farm is situated on the "foothills" of the Cotswolds, with a good as hills" of the Cotswolds, with a good as green meat for the production of many acres of the low lying grazings milk and butter. The result arrived of the valleys annexed, which will act at were: rations containing large count for the number of large short- quantities of albuminoids gave more horn bullocks kept. If some of our and better yields; clover and pease readers would consider the acres de-yave the best results both in quality voted to the root-crop-probably $\frac{1}{6}$ of and quantity. The indications were the whole farm, and the enormous that rations with a larger proportion number of bushels of grain-16,000— of digestible albuminoids than is usu-trown on this farm, which we believe the super-field state of the supergrown on this farm, which we believe ally recommended are to be preferred. contains about 900 acres, they would Large quantities of nitrogenous matter see that farming in that country is are needed by the cow in the carlier really farming and not playing at it. part of her milking season, as a sup-For the ¹ Cotsales, " as Shakespeare port for the great drain on her genecalls them, are not naturally fertile ral system. The quality and quantity land, but a poorish light soil on the may be improved by exhibiting food oolite formation. commonly called lich in nitrogen, and of course the stone-brash; they are very much ex- manuro is greatly increased in value. posed to the wind, and very late In the tests at this station, when in ripening crops, so late that the green clover was given to the cows, in ripening crops, so late that the shocks of wheat are often to be seen standing alongside of the new sown were considerably increased, " and the on these comparatively barren hills.

CANADA has every reason to be seeds or any other crop has failed. proud of the figure she made in the cheese-classes at Chicago. As an exchange says, very honestly, "she MANURE-VALUE OF FOODS —As most took the cake, bakery and all, at the of our readers know, when an English World's Fair, and the United States tenant leaves a farm, a certain allow was not in it." The judges were two ance is made to him by the landlord Americans and one Canadian.

COLOUR IN BUTTER. - Why will our entirely; but in another part of the

•••• •		
	Fat.	Milk.
Hay, 4 quarts cob-		
meal, 4 quarts		
shorts	3.040	43.20 lbs.
Hay silage, cob-		
moal, 4 quarts		17 50 11
shorts	4.06	47.50 lbs.
Hay, silage, 1 quart		
corn and cob-meal,		
1 quart cotton-seed meal	4 096	51 00 IL
Hay, silage and	4.400	01.00 109.
half a pint of W. I.		
molasses	4 703	
	3.100	

The total solids, at the same time, increased from 12.588 to 14.036. And to 7.20.

AGAIN, a dairyman in New-York pease for his cows. He reports that, in consequence of this food, the milk of his herd decreased 50 lbs. a day, but the butter increased 13 lbs. When the oats and pease were consumed, the cows were fed on corn-fodder, sweet but in butter, lost 15 lbs1

necticut station, they have been trying experiments on various plants used the quantities of milk and butter wheat just coming through the percentage of fat was greater than ground; and yet, some of the best when green Hungarian grass was furming in the world is to be found given.' We have always found Hungarian grass rather poor food for any animals, oven when cut very early, though a useful thing to sow where

or the incoming tenant, for the amount of unexhausted improvements ho may have left behind him. The "EXPERIMENTS, so far, do not prove u-ual allowance for cake, or other conclusively whether fat can or cannot purchased food, is o e-fourth of the be fed into the milk. One point has amount expended during the last been selected, and that is that rich year of the tenancy, except when been selected, and that is that rich year of the tenancy, except when barenaer parameter paramet (1) A leg is a weaned lumb until it is shorn, benefit of food can be recovered; a bly impressed by the work done by so superior to the barley grown in the The same as moy, hoyyer, and direct. - Ex. great deal of the droppings of cows the experiment stations in that cour- States? In England, the East Anglian

allowed to roam at liberty; for they all have favourite spots for repose, and prefer the shade of trees, fences, &c., to lying and standing about into the open field. The manurial value of food left in the excrement after it has passed through the digestive organs of a milch cow in full milk cannot but be comparatively small. We do not believe there is a single land agent in En gland who, in valuing the unexhausted improvements of an outgoing tenant, is guided by the theoretical tables of Lawes and others. It is a complete practical business, and, generally speaking, is satisfactory to all parties.

Such being the case, it is clear that the best way to secure the full value of food given to stock is to feed sheep in folds on the land; and we do trust that this summer, 1894, wo shall see many acres of that invaluable plant. the rape, sown in this province and fed off by sheep receiving in addition some pint of pease and cake or so Think what a difference this would make to the fields at the further end of some of our long farms Five dol-lars' worth of E. I. bone dust and 6 lbs. of seed at 15 conts a pound, both sown broadcast, is all the outlay required, and the sowing may be made at fortnightly intervals from May 10th to August 10th with fair pros pects of success If the land is fairly cultivated before sowing and laid up in good form for the winter after feeding off, the following grain-erop will astonish you, as it did astonish tho Sorel people in 1885, when Mr. Gustaf Gylling had the Fosbrooke farm from which, after rape fed off by sheep eating a pint each, a day, of pease and oats, he reaped 70 bushels of oats to the imperial acre; an excellent crop anywhere, but on the poor Sorel sand, only 300 lbs. of superphosphate having been used for the rape and no other kind of manuro, seemed incredibly We, ourselves, sowed the rape large. and shepherded the sheep, as may be seen in the Journal of Agriculture for 188 , with an engraving of the field, hurdles, flock, troughs, and farmer, taken-very badly-from a photograph. The land, as may be seen in the cut. was kept ploughed close up to the fold, and the piece cleaned and the waterfurrows carefully drawn out on De-comber 6th. The sheep were all sold FAT, and though small, being little Canadians, were not bad mutton. but only think of the trifling cost of the whole! The oats were sown under our own eye, at the rate of $3\frac{1}{2}$ bushels to the imperial acre, and had they been real "Black Tartars," our firm convic-tion is that they would have approached 80 bushels an acro, unfortunately, they were sent from a Toronto house, and were such a mixed lot that any respectable firm should have been ashamed of sending out such rubbish. The straw was stout and averaged The straw was stout and averaged Now, a pen, of three sheep, that four feet in height; in fact, it was too weighs 10 cwt. 2 qrs. must be made heavy to stand, but, fortunately, there were no heavy rains that year. As to the true "Black Tartars," we should As to

expect an additional yield of about 16 per cont of these more than any out grown, their quality is excellent, for as we have often mentioned, the great training-stables at Newmarket, White wall, &c., England, will not take any other kind as long as they can get these.

and other stock is lost when they are try. He finds the average income of the stations to be about \$/0.000 a year, whoreas the expenditure at Ro thamsted, furnished ontiroly by Sir John Lawes, is only \$15,000, and it is certainly of more value to the worll than all the American stations put together "Judging from the published reports of these stations, ' says the editor of the English "Agricultural Guzette," "we should say that they are very dear at the price, as the whole of them have done but little to advance agricultural science. Yet, Mr. War ington shows that, for the instruction of the local furmors, a good deal of useful work has been done at the stations, which we in this country can hardly appreciate, if we judge from the reports only, many of which des cribe experiments conducted on to, small a scale to be trustworthy."

> WHEAT .- With wheat at-Just :s wo are writing, January 4th, 'a thun-der storm is going on. If Mr Pr) fessor Walter H. Smith can show that he predicted this storm and the storm of the 9th October last, we will acknowledge that there is something in his theory of planetary influences on the weather .- well, with wheat at 60 ets a bushel, there cannot be much profit oa its cultivation for ultimate conversion into bread. But why not try other ways of utilising it? We hear that, from experiments tried by the managers of the Ottawa r xperiment-Farm, it results that an increase in live-weight of 15 lbs. has been obtained from each bushel of inferior wheat fed to pigs. Now, as pork is worth alive, say, \$6.00 a hundred pounds, it follows that, setting the dung against attendance, &c., the return from a bu shel of inferior wheat given to hogs is 90 cents!

> SOUTHDOWN AND HAMPSHIRE-DOWS cRosses.— Many years ago, in, we think, 1853, we put 80 or 90 of our best Hampshire-down full-mouthed ewes to a ram of the Southdown breed, from Jonas Webb's flock at Babraham, Cambridgeshire. When the wother lambs of the year went to Saffron Walden Fair, the bost judges were sorely puzzled as to their breed. However, the upshot was that they fetched by 2 shillings a head the highest price in the fair. This was brought to our remembrance anew by an extract, which is subjoinel, from the English Agricultural Gazette : The London Live Stock Journal

> thinks that an exhibit of Southdown-Hampshiro sheep at the Smithfield show proves this cross to be "invalua-ble" for mutton. "They were 10 cwt. 2 qrs., and weighed 2 cwt. heavier than the big Oxford and other cros-608. ⁷¹

up of sheep that weigh 392 lbs. a a head !

Hors.—There are positively no old English hops in the London market What will the portor-browers do? For mild old hops are peculiarly needed for that beer. One of the reasons why Canadian porter is so nasty is that harsh flavoured new hops are used in its confection. Fortunately for the EXPERIMENT STATIONS. — The well hops to be had from America.