very low rate, in the form of dried lick it. Therefore, as nature clearly

only 2½ cents a pound.

Now we suppose 40 lbs. of nitrogen and 54 lbs. of phosphoric acid will be admitted to be a full dressing for an acre of land requiring such manural matters; the cost will be as follows:

300 lbs, of dried blood..... \$2 10 300 d of basic slag...... 1.35

But, it would, we think, be better to double the quantity of the slag to allow for slowness of decomposition, and, even then, the cost of manufing an aere of land would only amount to \$5.00.

The slag must be ground to the finest possible powder, and, like potash, should be sown broadcast before winter. Its chief quality, besides cheapness, is its faculty of duration; it is not, like superphosphate, washed out of the land or out of the reach of the plant-roots in one season, but, on the give each a handful or two of grain contrary yields its plant for the contrary will be all the reach of the con contrary, yields its plant food up gra-

of soda, but not with sulphate of am-well, but on condition that the cows monia, as the lime it contains would go into winter-quarters in good condiset the ammonia free, though, of course, tion and with if the fertiliser is to be applied at once milk unchecked, for you know, as and harrowed in immediately, the loss of ammonia will hardly be appre- the flow of milk is one thing, and

TREATMENT OF NEWLY CALVED COWS. Do you want your mother cow to go about blaring after her calf when the Southampton, commonly called, though latter has to be, as it must be, sooner erroneously. Hampshire, there are or later, separated from her? If you more broken-winded horses than in do, then let her, as is often recom any other two counties, of the same mended by unpractical, unthinking size, in England. In the same county, people, suckle it for a few days—even there are a great number of watera few hours will be enough. Our own meadows: can there be any connection has always been report to the same that the beauty of the same that the same county, the same same that the same county is the same county. a few hours will be enough. Our own meadows: can there be any connec practice has always been never to let tion between the two phenomena? the cow even see her calf, but to remove it as soon as dropped, and, there is." Why? Because the "carexcept for an enquiring, doubtful riers" that take the water from the glance, as much as to say: Why, what rivers (rather, brooks) run across the on earth has been the matter? the roads, and people allow their horses, cows never seemed even interested in heated with travel, to stop and drink its progeny, of the existence of which at them whenever they feel inclined.

fact, in our boyhood, we have often ing after being heated by work or fast seen the farm builiff sp. inkle the new driving," says an American writer to see that now—July 14th born with salt to encourage the cow to on the subject, and when we see the commonly called "Shropshire."—En.

blood, we naturally look for an equally points out the gluey matter as a mede ger ear-horses at Côté Street come cheap source of phosphoric acid, and cine to the cow as well as a matter out with a couple of pails of ice-cold cheap source of phosphoric acid, and cine to the cow as well as a matter out with a couple of pails of ice-cold this we find in basic-slag, the refuse that should be removed from the calf's water, we own we should like to upset of the iron or rather steel foundry. hany hide, it is evident that some them before they reach the hoises. If Containing, in the best samples, about form of physic is needed by the cow. I horse is allowed a "go down" or 18 of of phosphoric acid, besides and as the first flow of milk acts on even two, when he comes in to the being rich in line, this phosphate can the indurated fieces in the calf as a stable, it will not huit him, but he be laid down here, in Montreal, for purgative, we think well of the law should be cooled off and have his hay, about \$0.00 a ton of 2.240 ibs. or say, of giving the cow after should another than be watered before he has shout \$ 0 00 a ton of 2,240 ibs. or, say, of giving the cow, after she is quiet, and then be watered before he has \$9.00 for our ton of 2,000 lbs. This a dose of her own beistyn mixed with his grain. would make the phosphoric acid cost such a quantity of thin oatmeal porridge as may induce her to drink it.

Do not oram your newly calved cow with grain or cake for the first ton days. Keep her moderately warm and well littered, and be sure that linseed crushed, or, if you have no crusher, ground with about double its bulk of oats, forms part of her food. Uncrushed or unground linseed, even if boiled for a dozen hours, is half wasted: take a grain of it into your mouth, and you will soon see why.

MILK IN THE SHADE -Every farm should have a road fenced on each side, from the cowhouse to the farthest pasture. The judges of Agricultural Merit, we are glad to see, lay great stress on this point. In cases where or cake: they will be all the more ready to go into their stall For our contrary, yields its plant food up gradually for two or three years.

Slag is particularly suited to our plant, we thoroughly believe in giving additional food to cows on pasture, additional food to cows on pasture, oxcept, perhaps, in the first rich flush of the grass. It not only keeps up the flow of milk, but strengthens acid, and for every ctop, except for swedes and turnips, where it would be better to use a quick acting superphosphate to push the young plant out of grass, when the cows are scouring, a phate to push the young plant out of grass, when the cows are scouring, a the fly's way. the fly's way.

For meadows, kainit might be or a quart of pease would tend to added to the slag, though, as we have correct the looseness. And when, in October, the poor things begin to application of potash pay in this country. Where ashes have been profitably shivering with cold, and with their used, we have been generally inclined to attribute their good effects to the phosphoric acid they contain more of chaff, meal, &c., to fill up the than to the potash.

The slag may be mixed with nitrate.

The slag may be mixed with nitrate. their normal flow of the flow of milk is one thing, and restoring it, when once fallen off, is another.

its progeny, of the existence of which at them whenever they feel inclined they were, in most cases, absolutely The water from these brooks is not, ignorant. Most of our readers have, doubtless, fished in the townships, bitterly cold, observed that, when a cow accident but moderately warm, or else they ally calves in a field or yard, the first would not answer for irrigation. thing she does on rising is to set to "Thousands of horses are ruined every work and lick the calf all over. In year by this injudicious plan of water-

man who looks after the City Passen-

THE HAY FAMINE IN ENGLAND.-If wo do not look sharp, we shall find our-selves behindhand in supplying the English market with hay. Russia is bringing hay from her great Southern steppes to the seaboard, and the Argentine Republic has already sent some very fine lucerne or alfalfa—as the Spanish call it—which sells for £5.15 the gross ton = \$28 for our ton. United-States and Canada hay was on the market June 19th, and sales were making at from £5.5 to £6.5 a gross ton. English hay was fetching from \$40 to \$45 a ton, and oats going up in price rapid y. The writer's brother price rapid y. The writer's brother sends word that "my tenants have not a bit of old hay left and hardly any new, and the cows are very short of food in the pastures"; and this on some on the finest alluvial soil in the county of Glo'ster!

PRICE OF STOCK IN ENGLAND .- Best 60 lbs. Down sheep are worth 5 shillings a head less than last year, and 40 lbs. Down fat lambs, that last summer were selling for \$1.54 a stone of 8 lbs., now only fetch \$1.24 a

As for lean stock for grazing purposes, they can hardly be given away. The only cattle that keep up in price are milch-cows, the best lots at Islington market being still worth £220.= \$10-92, but fat cows only fetch sixpence a pound, the four quarters. (1)

R. A. S. of England.—The first and second prize aged shorthorn bulls at the great annual exhibition—they call it show in England—of the Royal Agricultural Society, at Chester, were bred by the Queen, to whom Lord Feversham paid \$5,000 for the winner of the first prize.

There are 118 shorthorns and 60 Herefords on show; in sheep, Shropshires are the most numerous; about 200 head being on the ground. (2)
The sheep shearing machines seems

to have been, comparatively, failures, the wool being unevenly shorn and the sheep cut rather frequently.

A 5-horse-power engine, with common paraffin as fuel, only consumed a cents worth per horse power per hour. Cheap work indeed, half a dollar for a day's work!

A machine for making butter into pats, shown by Messrs. Hucks, of London, turns out 2,000 pats an hour! A good thing for creameries near large ton

The disc-churn, a new invention, made butter of perfect consistence in four minutes fifty seconds! the grain seems to have been perfect.

THE SEASON.—Always in extremes, has been the season of 1893, up to date (2rd July). If drought sets in soon, as it surely will, keep the horsehoe going between the rows of drilled props, even if the horse does set his foot

(i) We regret to see that now-July 14th

doubt it is dangerous to horse hoe deeply, for fear of cutting off the roots, which would delay the ripening process. But where pointoes sweden, mangels, &c., are concerned, keep the horse-hoe well down until the depth of 5 inches is gained. The plants will stand the drought all the better for it, and if a rootlet is cut off, nature will replace it with two or three more, and the delay in ripening in the case of root-crops does not matter much.

on a plant now and then When maize is intended to ripen its seed, no

"INTRODUCTION OF THE RAPE PLANT INTO CANADA."

"It is not known when rape was first introduced into Canada, but it is now certain that it has has been grown for several years past in the county of Wellington and in one or two of the adjoining counties. In other portions of the Dominion it does not appear to have been grown to any considerable extent, if indeed at all. However, since the bulletins upon rape culture were first issued by this station, it has been accortained by actual test that rupo can be grown in fine form in every province of Canada. A large percentage of the Canadian lambs shipped during the more recent years to the Bufinlo market have been finished on rape." The Rape plant by

Professor Shaw, Guelph.
In 1872, 20 acres of rape were grown at Hillhurst Compton, P. Q., by the Hon. Mat. Cochrane. In 1874, the editor of this periodical grow 5 neres of rape at St. Hugues, P. Q., and fed it off with sheep. There is an engraving of the writer's lambs hurdled on rape, in 1884, at Sorol, P. Q. in the fith volume of the Hustrated Journal 6th volume of the Illustrated of Agriculture, p. 184., the photograph for which was taken on December 7th of the above year, just as the lambs were finishing their last fold. A very uncomplimentary likeness of the writer appears in the corner of the field, and the land may be observed to be ploughed up to the last possible furrow, to bury the sheep manure out of all danger of losing its good quali-ties. The succeeding crop of oats turned out 70 bushels to the acre. In the June number of the Journal of Agriculture, vol. I, p. 22, (1879) is a full description of the rape plant, its cultivation, and an engraving of the hurdle used by the writer at Saint Hugues. We have never ceased recommending the growing of the plant for sheep-keep, as being the best, the easiest, and the cheapest way of restoring the feetility of the ways on force. ing the fertility of the worn out farms of the province of Quebec. Unfortunately, if we may be allowed to say so, nobody paid the slightest attention to our advice.

WASTE PRODUCTS -Things are very much altered since the waste products of the gas-works were contemptuously run into the nearest stream. Now, not only are the tar and the ammonia washed out of the gas in the process of purification carefully preserved, but at the works, in the coal districts of Britain, devoted to the production of the hard, dense coke used in working up metals, where until recently all the ammonia was lost, as much care is taken to preserve it as at the gas-works. In the great iron-works, too, large some

have been expended in apparatus for the recovery of this product.

Although not strictly associated with agriculture, we may be excused for mentioning the marvellous sicross that has attended the persistent offers of our English men of science in their