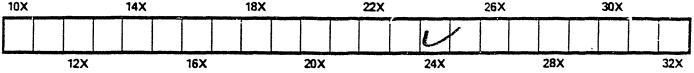
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#### THE

# Agriculturist, Canadian

OR

# NAL AND TRANSACTIONS OF THE BOARD OF AGRICULTURE

UPPER OF CANADA

XII.

TORONTO. SEPTEMBER 15, 1860.

# No. 18.

## Editorial Correspondence.

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[No. 6.]

RIDGWORTH, SALOP, August 15, 1860.

BITION OF THE HIGHLAND AND AGRICUL-SOCIETY OF SCOTLAND AT DUMFRIES.

n till now, in one of the most picturesque parts of England, that I could find time unity of putting some thoughts on paper No the great Scottish Agricultural Show, commenced in Dumfries on the 1st The weather, (a most important eleese matters) fortunately proved favoragh and dry piece of ground, consisting ls of twenty acres, was fenced in, and n regard to the quantity and quality of or the amount of visitors, the Exhibibe regarded as a great success. Dumtuated in a fine agricultural district, the south-west corner of Scotland, fore not so favorably located for atch large numbers as places more ceninburgh or Glasgow. The Society ur exhibitions in this ancient town; 1830, when the entries of stock, imairy produce, &c., amounted to only 837, the number of entries was 851; it rose to 1303; and in 1860 reached ude of 2,3981 The reader will gain of the extent of the show, and of ions of its different departments from g analysis founded on the published

Shorthorns, 71; Ayrshire, 76; Highland, 12; with about 20 specimens of fat cattle of different breeds. The class of Horses amounted to 158, chiefly for agricultural purposes. Cheviot sheep, 83; Black-faced, 15; Leicester, 76; Longwoolled other than Leicester, 30; Southdown, 13; besides a few extras. Swine, 41; Poultry, 72; and Butter and Cheese, 195. The number of agricultural implements and machines for competition was 911; besides a large amount of duplicates on sale. By means of the catalogues, visitors could readily ascertain the exact age of the animals, the names and address of their breeders and owners; and in the case of implements to the name of the maker was added the price, and sometimes other particulars of interest to the public.

were S0 entries; Polled Angus or Aberdeen, 26;

The show of stock was considered not below the average of former years either in point of number or quality. In every department were to be found a number of animals of superior excellence, and in some respects the exhibition was considered as superior even to any of its predecessors. Shorthorns were well represented, and if one missed such rare and finely bred animals as Col. Townley exhibited at the English Show at Canterbury, the general impression made by a careful examination of the class, could not be otherwise than favorable. In aged bulls the competition was restricted to ten animals, several of them decidedly good; but the animal which obtained the first premium was

tions of the Polled Galloway, there defective in the loins, br of large size and gen-

erally of good proportions, and was considered | good representatives of their class. by some as having not many decided claims to the honor awarded him. Some two years old bulls possessed excellent points, and will no doubt get superior stock, but the yearlings appeared somewhat deficient in several characteristics of superior quality. The classes of cows and heifers contained some excellent animals, and Mr. Douglas was successful in obtaining the gold medal and several first prizes.

Of Herefords and Devons I did not observe a single specimen; these breeds so numerous and of such importance in the south, are but little, if at all cultivated in Scotland. The native Galloways formed a marked characteristic of the show, and to me were particularly interest-The number was extensive, and although ing. there were in this class several animals of inferior merit, and ought not perhaps to have been shown, the greater part were quite superior, fine and beautiful looking. Mr. Beattie, of Annan, had an aged bull that obtained the first prize, was universally admired, and many good judges considered him among the first, if not the first animal of his class ever before shown. The cows and heifers were generally good, with obvious tendency to thrive and fatten. This breed has now been fairly introduced into Canada, and from all I can learn of it in its native habitation, we have every inducement to perse-The Galloways soon reach a medium vere. size, are hardy, yield a good supply of milk, readily fatten, and afford meat of first rate The show of Polled Angus or Aberquality. deen, was not extensive, but there were some very superior specimens. This breed is very similar in appearance to the Galloway, and considerable observation and experience is often required to distinguish between them. Their hair is generally finer, bone fine and heads elegantly formed. Like the Galloways, from which they have in great measure sprung, they are readily fattened, having soft and pliant skins, and make beef of the first quality. Indeed these classes of the Scottish breeds, so peculiarly adapted to hilly and exposed situations, will almost command an additional penny a pound in the London markets over the larger animals, such as the Durhams, Herefords, &c. In the Highland cattle there was a lack of competition in consequence, I presume, of the locality of the show being so far south, but what few specimens were present were considered specimens of the latter being supplied

The shire cattle, considering the show was he the native district of that celebrated breed not so numerous nor so decidedly superone might have anticipated. I heard its that this department was not equal to w'was at Edinburgh last year. Many of the bulls and cows possessed great merit, and er a high state of breeding; but the young generally did not appear to maintain the high standing. The extraordinarily sever ter and late spring experienced throughout British Islands, with the consequent atte of scarce and dear provender, must have particularly injurious to all kinds of stock; and this circumstance will accor part at least, for what I observed at a shows in the United Kingdom, and likew France; the comparatively inferior condit all the younger branches of live stock.

In Horses the Exhibition occupied # high position, being chiefly confined t purely agricultural class, and they wer placed and arranged to admit of close inspe The Clydesdale seem to be the popular and embraced some specimens which for pactness and elegance of form I have new equalled. From the awards made, I shot sider that quickness of motion combine compactness of form, rather than men constituted the leading points in the esti of the judges. Some of the mares we superior, and the colts generally excellent progeny derived from strong and larges was decidedly superior to that from A few Shetland and Iceland horses. gave a striking and agreeable variety to: partment of the exhibition. Some of the as is always the case on similar occasion decidedly inferior. I saw but one pur land, a fair looking stallion; and the & believe, was wholly unrepresented.

The display of sheep, especially w. character of the late winter and sprin sidered, must be regarded as both ex good. The Leicesters were on the rior; and although this breed is only the low rich lands of Scotland, and can far in search of food, they are now advantageously used in crossing with t breeds. There were a few good Cots but a small number of Southdowns,

ke of Richmond's flock, in Aberdeenshire. It | and there are not as yet any indications of im-- the Cheviots and Black-faced sheep that proved and settled weather.

G. B.

# The Highland and Agricultural Society.

We notice from the Dumfries and Galloway Courier that Professor Buckland was present at the Banquet given on the occasion of the late meeting of this distinguished Society at Dumfries, Scotland. We take the following extract from the report :-

Bailie Mundell proposed "The Strangers," coupled with the health of Professor Buckland from Canada.

Band-"Will ye no' come back again ?"

Professor Buckland returned his most grateful thanks for the toast. He stated that he was the first who was appointed to the chair of agriculture in a colonial university; and that he had been actively engaged for the last thirteen years in originating and maturing an exhibition, however inferior, yet somewhat analagous in its general character to this remarkable society. He had, after an absence of whirteen years from the old country, resolved to employ what in col-legiate phrase they termed the long vacation, to visit the principal national shows in the kingdom. He had attended the National Associa-tion in Paris, and after that the Royal Show at Canterbury, and then crossed the Channel to go to the Great Show at Cork; and last, though not least, he had now arrived to witness the proceedings of the Highland Society. (Applause.) His object of course was to pick up hints and to collect such information as might be serviceable to his adopted country; and he would carry home with him in a few weeks the intelligence that he had been at the festive board of the old Society of Scotland, the precursor, and the parent, he believed, of all agricultural societies in the United Kingdom. (Cheers.) Although he was personally a stranger to most of them, having never visited Scotland before, yet he assured them that the Highland Society and its proceedings, its elaborate reports and its experimental researches, were by no means strangers to him. These materials he had employed in Canada, not only in his lecture-room, but in his addresses throughout various sections of the country; and it afforded him the greatest pleasure to have an opportunity of visiting this meeting of this venerable Society. He could only say further that he hoped to have the honour of meeting the heir-presumptive of the crown of these realms, who would inaugurate the exhibition of the Agricultural Association in Upper Canada at the end of September, and he should tell the members of that Society-a goodly number of whom were Scotchmen-that the Highland Society, venerable in age, was as tish farmer's prospects are truly gloomy, active and as useful as ever. He had witnessed

ctituted the national char. steristic of this artment of the show, and presented to me greatest novelty and interest, and it was in se breeds especially the falling off was most be expected from the severity of the late ons. But these noble races, as they appeared the Dumfries show ground, the former occug in practical management moderately sized , and the latter covering the sides and tops he highest ranges, evinced little if any induons of want of food, or that any desolating is and snow storms had impeded their growth fected injuriously their plump and beautiful 3. I hope to say more respecting the mounsheep of Scotland in a future communica-

Swine the show was similar to those of erbury and Cork ; some of the large breeds g predigious specimens, and many of the ler kind being particularly handsome. The try, though not very varied or extensive, , on the whole, particularly good; and the ay of cheese and butter was very extensive as I was assured, of excellent quality.

Implements and Machines I have no space reletter to say anything. I am not aware sihe collection contained any thing particunew or important, or what might not be at similar exhibitions in the United King-

Among the thousand articles entered for ctition, however, there were many of supeconstruction and improved adaptation to ants of the farmer, of which more here-

d long indulged the pleasing hope of some ing able to visit the show of the old Highlociety, and now that I have done so, I say that my most sanguine expectations een fully realised.

a glad to hear such continued good aeof the harvest in Canada, and trust that mers will reap remunerating crops, and new epoch of prosperity has fairly com--. The weather in the United Kingdom es cold and wet to a degree almost unled within living memory. A large porhay has been damaged or actually , and most of the grain crops in the later are as green as they were a month ago. in the show yard to-day what would be of great as they do of the domestic habits of the per advantage to him, especially in their an agements, and the manner in which the machinery of the Association appeared to be conducted. (Olicers.)

### Progress: What is it? An Example.

"Bad farming is the rule, and good farming the exception.

Buck is the hold, straightforward, and uncoinpromising language used by Mr. Mechi, with reference to British agriculture; and, however Criting, by its very plainness, it may be so to some, and however much it may wound the vanity or sensitive feelings of others, we feel, "where'er we take our walks abroad," that its with is indisputable. If, indeed, we give ourselves up to the guidance of some orators whose fervid eloquence has frequently enlivened the doings at certain rural re-unions, we might be inclined to question the truth of the principle laid down by the much abused owner of Tiptree Hall, and suspect that he could only look on such matters through the dim medium of a city But when these are scanned by the pracfog. tised eye, we are compelled to admit, in very bitterness of heart, that although the ninetcenth century is fast advancing to a close, although we flatter ourselves that we are so much superior to our forefathers in point of knowledge, although we even possess advantages of which they never dreamt, yet, the words we have quoted are substantially correct, and that in very deed " had farming is the rule, and good farming the exception."

It any one doubts the truth of this fact-for fact it is, let him, when he next travels fifty miles in any direction-let him endeavour to reckon up the numerous cases which come under his notice of undrained fields; of crops struggling for existence amongst a deuse mass of weeds; of waste, from the occupation of the land by enormous, and in many cases useless, fences; of wasted labour from insufficient power; of wasted energy through insufficient skill, let him reckon up these and other things which will force themselves upon him, and against these set down the tew and far between cases where the reverse of all this is to be seen ; and hefore he has drawn to the end of his journey, if he is at all capable of forming an opinion on the subject, he will have undoubtedly become a convert to Mr. Mechi's doctrine.

There are many we know who look upon such opinions as being in the highest degree hetero-They have got a parrot-like cry about ess, which they harp upon, much to dox. "progress," their own delight, and which tends in no slight degree to perpetuate what, in but too many cases, is a pune delusion ; and not only does it do this, but it actually prevents that "progress" of which they talk in such resonant terms, but of the real nature of which they know as little | a paper before the Agricultural Society,

Were we to rely upon all of the moon. say about the matter, we would frequently £ on actual investigation, that "progress". sometimes crab-like, and that "advanceme meant a retrogressive movement. We + them shouting "Excelsior," whilst all thet they are slipping down hill with fearful rapit and at last, when fairly brought to a str solely in consequence of their own doing, stead of putting their shoulder to the wh their cries to the Hercules of the government or some other power, for assistance to help! out of the slongh of their own making are loud and long.

It is a pithy and true maxim that "Pr dence helps those who help themselves,": its truth is, perhaps, as much exemplified in prosecution of rural improvement as in anyt We find real progress illustrated incer else. cases, in a very unostentations manner, and an extent of which those whose talking only in talk have no idea. These are, ind the bright spots, the exceptions, which, how are sufficient to induce a hope that ultimat similar state of matters may become the and without which, indeed, even the most ful would despair. But yet their very exis tells only too plainly of the wide gulf r exists between them and all around. The trast which they present is, indeed, too su to permit us to regard them with unmixed ings. We see in them what might be the if right views were entertained by all wh concerned in the matter; but when we los yond them we see what actually is the cas which must inevitably remain so, so la ignorance and prejudice unite to stop the We say ignorance and prejudice, and iti to give such things their right name. We there are people who would endeavour to over these matters, and who would not a to hide their real nature under a mass of pe verbiage, but who would, at the same ridicule those who are anxious that the state of the case should be thoroughly h in order that it may be the more speed the more effectually remedied; but we: inclined to invest what we consider series with a false glitter, which only serves to p the evil. Progress will be best ensure we address ourselves with earnest determ to the rectification of existing errors, directing public opinion so as to resultin course of action. In carrying out thist much opposition to be encountered-op arising not only from direct hostility, b: what is still harder to overcome, from pn friends and from utter indifference.-Farmer's Gazette.

# Deep Tillage.

Mr. Pringle of Dublin, Ireland, recen

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lage, and the use of the subsoil plough, from | only from the effects produced by the use of ich we make the following extract:

"Deep cult<sup>i</sup>"ation is a comparative term, and at is so in one can may be the reverse in other. The common plough in ordinary righing does not in most cases turn a furrow ceeding 7 inches in depth, and in many cases tabore 3 or 5 inches. Whatever may have an the depth which has hitherto been the rule any particular inctance, if we go deeperin ,n inch or two-it is, to a certain extent, na productive of cortain results. But this is l only comparative, and of a shallow and enicial kind, compared with a moving and zing of the soil to the depth of 12, 15, 18, , and even 24 inches. It is frequently asishing, however, where circumstances are erwise favorable, to those who are ignorant the stores of plant food which a little deeper ughing renders available, in cases where the face soil had for many years been only lightly d, to witness the results of breaking into bringing up that really virgin soil which is ad in such cases under the thin layers of exsted curface soil. In fact, it appears almost magic, and not a little difficulty will somes be experienced in convincing such people o what is the real cause of the increased fery which so much surprises them. Down to ry recent period the use of the spade or fork considered the most efficient mode of deepg and mixing the soil, whenever it was ght proper to go beyond that depth which d be effected by the plough. During the ne years, and prior to that period, this mode eepening the soil was strongly insisted upon ording remunerative employment for laborn our rural districts. Since that period, erer, it has fallen into disuse, chiefly in conence, perhaps, of the scarcity of laborers. ell as other reasons to which it is not neces-At the time referred to I had to allude. iderable experience in this mode of improve-, and am perfectly satisfied as to its benefiperation, when properly carried out. We still, however, find cases where it is pracand in such the steel fork has generally out entering into particulars-which my will not permit-I may be permitted, y by way of illustration, to say that Mr. has, I believe, gradually increased the depth at Merino from seven inches to at least 18 inches, chiefly by the use of the spade or Mr. Niven also uses the fork rather exely in deep cultivation, trenching the land

et deep by means of it, at a cost per Irish by day's wages of £7 13s. (\$38.32); and gh the expense appears to be large, yet Is it repaid in the first crop. The intro-

this implement when employed in breaking up the indurated subsoil, but also from the enlarged and more correct views which it was the means of imparting to many on the subject of deep culture. Its application by some, as a substitute for, instead of a follower of the thorough drain militated against it in certain cases; but it is unquestionably a valuable implement zhen properly applied. Still, with all my pre-dilections for the Deanston subsoil plough, arisexample of deep culture, and ac such will be ing from - rather extensive experience of its use, I do not consider it a perfect implement. It rips up the under soil, and gives additional depth ; but it does not effect this in such a perfectly unifor\_1 and complete manuer and all the requirements of deep culture demand. Some, indeed, allege that the effects of subsoiling are not lasting; but I am not of that opinion. I have, no doubt, met with crees where the re-sults apparently favored such views; but in tracing the history of those cases-which are always in connection with stiff, cold clays-it was evident that the subsoil plough had followed the drain too closely and without giving the latter proper tims to act. Where the latter point was attended to, however, I have seen, even on very obdurate clays, that the effect of subsoiling by the Deanston plough were perfectly visible at least fifteen or twenty years after the work had been done. Various forms of subsoilers have been introduced, and many of these possess great merit. The most perfect implement, however, or rather combination of implements, for effecting deep and uniform culture is to be found in the Tweeddale plough and the Tweeddale subsoil-trench-plough. These were invented by the Marquis of Tweeddale, and first used by him in the improvement of his farm on the Yester estate. The Tweeddale plough, at first sight, appears to be a heavy and cumbersome implement; but although it turns a furrow 15 to 16 ins. deep, and 14 inches wide, it is held by the ploughman with as much ease as any common swing plough turning a furrow six or seven inches in depth. This arises from the structure of the mould board, which to use Mr. Stephens' description. "instead of pressing seded the spade, the former being lighter lagainst the furrow-slice along its entire length. together better adapted for the purpose. I gets quit of it at once by its convex breast, and causes it to slip along in a straight line till it reaches near its ear, when the furrow-slice assumes its proper position by its own graving. Friction of the furrow-slice is thus practically avoided." In another place he says, "The fur-row-slice, in place of being turned over in an entire form, as by our fine working plough, is only so far turned, and at the same time broken, as serves to present the soil in the best possible state to the ameliorating effects of atmospheric influence. In this respect, the Tweeddale plough stands unequalled; and since the extinction of n, by the late Mr. Smith, of Deanston, of the old Scottish wooden plough, no implement bsoil plough, as a follower of the thorough has approached the point to which this has atwas an event of much importance, not tained, for enlarging the extent of surface

exposed to the atmosphere." It is secrely hand, little, dwarfed, stunted animals are equipossible, without actual field demonstration, to convey a perfectly correct idea of the really beautiful manner in which those implements act in lossening and commixing the soil, to a depth in lossening and commixing the soil, to a depth allow of from 20 to 24 inches."

#### Standard of Points in Shorthorns.

The contradictory judging which is frequently witnessed at our shows in the case of short-horns gives rise to considerable bewilderment, not only to those who are but slightly versant in such matters, but also to those who ought and do "know a thing or two." At one meeting we find a certain style of animals, or those possessing certain prominent points, exalted to the highest position; whilst at another show, and with another set of judges, a very different class of animals are the winners of honours; the successful on the one occasion being nowhere on the next. Judges, no doubt, have their predilections for a particular style, or for certain points, but this difference as to the value of such matters is, as we have said, not only the cause of great puzzlement to onlookers, but sufficiently decided at times to cause the latter to doubt whether there is anything more in judging than an almost rendom selection.

The past show season, to go no further back, has afforded numerous instances of the uncertainty which characterizes the awards frequently made, and that not only on our side of the Chan-What. nel, but also in Bingland and Scotland. ever, therefore, would tend to establish some definite criterion by which animals are to be judged would, we think, he of great utility, par-ticularly as it appears either that societies are chary in establishing it as part of the duty of judges to give some reasons for their awards, or that judges are equally chary in volunteering such information. There are, no doubt, certain animals which possess such a perfect combination of points that there can be no mistake about | reporting the result :--the matter; but the case is different where the competition becomes closer.

At a recent meeting of the Newcastle-upon-Tyne Farmer's Club, a paper was read by Mr. Chrisp on shorthorns, in the course of which he gave a scale of points and their relative value. The following is an extract from his paper, as well as some of the opinions which were clicited from other members :--

"I must attempt to sketch out an ideal shorthorn, possessing all those perfect points which breeders prize so much. Although most buchers like a large carcase, which brings down the scale, yet they also prize the greatest quantity of beef on the best joints.' Where these are not to be had together, the latter is preferred, as of most value in the market. Therefore, great size is discarded, as leading to overgrown, ungainly animals, difficult to fatten. On the other

ally occur in herds from cross or close breedas well as from food or climate, or evenly causes. The short-horn bull must have air netrical form, of medium size; body (inclust quarters and neck) rather long than she bones fine, legs short; all choice parts r covered with gelatinous flesh and fat mir not patchy; skin medium thickness, mellor touch; hair fine, silky, thick set, long in wint not wiry; head well set on to neck; scalp \* face dished a little, rather long than short, -muzzle, open nostrils, horns medium size, £ clear, and waxy, free from black stains; e eyes prominent, bright, but placid; the ned little elongated and arched, well set on to shoulders, which ought to slope backwards, broad and level, deep, with fine shoulder por brisket deep, prominent and broad between: fore legs: ribs round, back straight, quar long, full-fleshed thighs, deep and full at tr arms full above, fine at knee, flanks deep full, tail well set on, at right angles with be and not thick or coarse; colours, roan, white, or flecked-black, or shadings of b on skin, hair, horns, or hoofs objections' Altogether, the animal ought to have a gay "stylish" appearance in gait as well as info which breeders consider betokening high bk and which most animals of the short-horn t have more or less. The same characters, with allowances for the more feminine an ance, answer for the cow, though I should full development of udder, not fleshy, we teats, good milk veins, and perhaps hered character for good milking qualities. The lowing points are the work of a young fi who has kindly helped me. Perhaps the way to treat them is for a few of our men to take the pleasant labour of trying the animals by these rules at our local shows,

	W hat constitutes gas Moderate length, and rather de with clear home flesh-coloured n. not black.
Neck 1	Being well sprung shoulders, and
Neck voin	ly arched. Prominent addk
	Former being
	at top, " points"
	covered, and so minent. Crops
	very full.
Breast 2	Coming well for wide and full.
Back 3	Breadth, and len

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in 4 Breadth, and being
well covered, not low.
cks 2 Breadth, and being at
right angles with
back bone.
-ps 2 Not being drooped.
arter 2 Length, levelness, and
ariter
being well filled up.
zh 2 Length and fineness,
and being well beefed
inwards.
sts 3 Coming well down.
-k 1 Being well bent, and
not turned in.
nk 3 Full and coming well
forward.
kribs 3 Well sprung from back
and round.
e ribs 3 Round, and coming
well down.
lity and hair 4 Skin not being too thin
my and mar + Skin not being too tim
but soft and mellow,
hair long and silky.
our 1 Roans and reds.
er and milk vessel 3 Well formed teats and
udder, large milk
veins.

Mr. Atkinson said he agreed with most of oints which Mr. Chrisp had named in the r, but thought too much stress was laid on Nor was he in favour of a very g heed. ht

r. Hedley suggested that Mr. Chrisp ld give a few points to elegance and style. atter how well an animal might be formed, d a lowering gait it never looked well.

r. Chrisp thought the shape should give but had no objection to voting a few for that. He did not advocate a long but a short head was also objectionable. be discussion then ended, to be resumed at future day, when the matter has been more red."

will be observed that Mr. Chrisp merely his scale as a suggestion, and whilst we that sufficient comparative prominence has cen given to certain of the points enumestill it brings out the matter in such a er as to deserve attention. We, therefore, that some of our readers who are well ied to give an opinion on the subject will r us with their views, and thus, perhaps, ints of short-horns may be reduced to somelike a correct standard of estimation. It ainly an interesting, as well as an imporsbject .- Irish Farmer's Gazette.

#### Pleuro Pneumonia.

- Transactions of New York State Agricultural Society.]

appearance of this alarming disease, in a irulent form, in this country, has excited

being [sirable that all the information which may tend tlow. to furnish facts in relation to the disease, its ng at origin, and treatment, should be given to the public. This disease has prevailed in Europe for many years, often causing immense lossesand although various remedies have been resorted to, some apparently successful in one locality, yet failing in another-there has, as yet, been found no certain remedy for the disease, so far as we have information. Destruction of the animals affected. as soon as the disease makes its appearance, has generally, we believe, arrested its progress. Few, however, are familiar with the symptoms of the disease, g well and when it has made much progress, it is very difficult to arrest it.

The annexed article. read before an Agricultural Society in England, giving, in a plain and oming familiar manner, a brief history of the disease there, from 1842 to the present time, we have othin thought would be useful to our farmers, and would lead them to take measures to guard against the spread of the disease, should it make its appearance in their vicinity. It contains many ts and interesting facts, of the origin and progress of the disease-the symptoms which usualy accompany it, and the various remedies which have been resorted to. Much interest is manifested in England and upon the Continent, in relation to the best means of arresting this disease. It is to be hoped, that investigations which are breast; for it indicated a deficiency of being made abroad as well as in this country, may lead to some discoveries which may prove advantageous. Л.

#### PLEURO-PNEUMONIA.

By Mr. PALLIN, of Tarvin, Cheshire, England.

The "Pleuro-pneumonia" made its appearance in this county, in its formidable character, about the year 1842, and at that time carried off the greatest portion of many valuable stocks of dairy cows. In consequence of such a serious visitation, cattle clubs were formed in different parts of the country, for the protection of farmers from that disease alone ; and two other societies were established in London for the same object. So alarming did it become, in a very few years, that the Royal Agricultural Society of England, in 1847, offered a prize of £50 for the best essay on "Pleuro-pneumonia." Several essays were sent in, and the prize was awarded, in 1848, to the author of an apparently clever, well written essay; but, it is much to be regret-ted, it threw very little light upon the subject, and I greatly fear that the country, after an experience of eighteen years, is quite as ignorant of the cause or the cure as it was at that time. If the disease usually made its appearance at any particular time of the year, or under any visible peculiar circumstances, we might possibly form some idea at least as to the cause; but we hear of its presenting itself at every period of the year, without exception, and under almost every circumstance, in all kinds of seasons and situations, where cattle are in high condition, and interest among our farmers; and it is de- where they are in low condition; where they are well managed, and where they are badly are undoubtedly working better than former managed ; in fine, dry weather, in very hot weather, in cold frosty weather, in mild wet weather: upon every description of land, from the dryest sand to the wettest c.ay, (and I believe if there is an exception, it is in the hilly districts of Wales, Scotland, Derbyshire, &c.,) and this, too, where farmers have been most cautious in introducing fresh cattle into their stock.

The symptoms, too, vary considerably; an altered gait in walking, as if from stiffness of the limbs, is frequently one of the first indications of the disease ; sometimes a peculiar and unmistakeable grunt, at others a failing of the milk, soreness of the udder, and tenderness of the spine, quickness of breathing, short cough, horns alternately hot and cold, suspension of rumination, costiveness, partial loss of appetite, which gradually diminishes until it is entirely gone (and yet I have known instances where the appetite has continued until the end, when the animal has dropped down dead whilst eating.) It is a much more serious business when the discase enters a dairy stock than a feeding one, especially if, as is generally supposed, the flesh of the animal is not unwholesome, but fit for human food, for although a milking cow may be of great value to her owner for dairy purposes, she might be wo th little or nothing for the slaughter-houses; and there is also the danger, if not the certainty, of abortion during six or eight months of the year, i. c., in every decided ease of "Pleuro," either from the effects of medicine or the disease itself; but as regards feeding animals, assuming that the flesh is not unwholesome, the loss would be trifling, as compared with dairy cows, provided the animals were slaughtered immediately on being taken.

I believe the "Pleuro" made its appearance in England previous to the year 1842; for, to the best of my recollection, it broke out in Yorkshire, and some few distant counties, before it found its way into Cheshine, and from a memorandum in my own possession, I find that previously to forming a cattle club in the parish of Tarvin, for protection against that disease, two stocks of dairy cows in the neighborhood having then been attacked, a prelimina y meeting was held at the "Bull's Head Inn," Tarvin, on the 24th December, 1842, for the purces of tabing into consideration the porriety of establishing such a club; and on the 10th of January, 1843. the club was actually formed, and it continued to work remarkably well until a few of the privcipal members became dissatisfied because it did not protect them against all losses, but confined itself solely to the "Pieuro"; and in consequence, the club broke up, and many of its members then joined the "Mutual," or the "Agriculturist," two London offices, the latter a proprietary one, which. from want of experience und good management, soon broke up also; several other clubs and insurance companie were soon formed, and from increased experience and a better system of management,

As regards veterinary or medical treatment during a period of eighteen years, we car expect much success until one uniform system treatment is adopted, based upon scientific r ciples and a thorough knowledge of the disfrom its commencement; but here we are loss. No one appears to know for a certification whether the attack and one or more of symptoms are simultaneous, or whether the case generally lurks in the system for somer previously to the symptoms manifesting the selves: nor is it generally agreed where the case commences, some contending that it e mences in the pleura, and then spreads to ungs; others, that it has its origin in their themselves. There are also others, of cor themselves. rable professional experience, who are of v ion that the disease originates in the blood, that the first steps should be to endeavor to and purify the blood in the very carliest or These are points which I of the complaint. not pretend to determine; but having exama great number of cattle after death, It myself justified in stating that I have gene found the pleura much inflamed, and one div of the lung in a highly gangrenous state, the other comparatively healthy; but in e case the appearance was such as to lead r believe that the affected lung could not por be restored to a healthy state by any medtreatment. At the present day there are, cates for severe bleeding, as the "Sheet chor." and from a combination of pow medicines down to homeopathy, in which t ing is strictly forbidden; and, accordi. my own observation, about an equal nu have recovered under each kind of treat. and where they have not been treated a probably one in every seven or eight. 6 are of opinion that the disease arises fro. use of bone and our several new manurestheir opinions will also appear fallacious, I state the fact that on many farms whe disease first appeared, neither bone or an manure had been used; and on one farm, was visited by it, in its most malignant. in 1847, at least two-thirds (50 acres dairy pasture had been bone-manuced in about nine years previously,) without a case of "Pleuro" having manifested its tween these two periods, although the carried off about half the dairy stock of . joining farm early in 1843 (nearly five before,) on which bone manure had no applied at all. Many persons doubt its intections or contagious, but the circumstits spreading through a stock, when ( makes its appearance, to the annihilatio. rally of one-half or two-thirds of its n leads to the inference that it is infection though it frequently happens that where. are kept in close contact with diseased on third or more escape. It generally may appearance as an epidemic or epizootic,

some atmospheric agency. Can anything be ne to arrest its progress? There will not, I ink, be a question in your minds as to its effect on the price of animal food, and dairy produce. recially when you are informed that on an a of less than three square miles, within a ort distance of Chester, upwards of one huned and twenty dairy cows have fallen a sacrito the disease in the short space of about ht months: and if it progresses in this ratio a few years, or even a few months, it must a fearful tale upon the stock of this country.

think that a searching investigation should commenced at onco; but this important step not be taken by any private individuals, or a public body less than the government If, or under its direction and support. It d require the greatest amount of talent and erience that could be brought to bear upon ad there must be a very considerable pecuy inducement offered, to bring out men of at, eminence, and integrity, to devote so h of their valuable time as would be required ch an undertaking; stocks of cattle would to be visited, in different parts of the kingsubjects would have to be purchased from ted stocks, diseased ones in their different is of the complaint, apparently healthy from the same stocks—some for the purpose ing slaughtered for examination, others for menting upon. Perfect illustrations of hole of the internal organs, connected in lightest degree with the disease, showing terior of the different vessels, as well as the ior, would have to be given; the condition · blood, both in diseased and apparently by subjects in diseased stocks, and also of bieldly healthy cattle, from districts where sease had never appeared, would have to ported upon, and the services of some of ost eminent professional men would have secured to assist in adjucating upon the stous question, Can anything be done by agency, to arrest in its progress the much-? How is this to be accomplished? Not rate individuals, not by public companies, the Royal Agricultural Society of Engat by the government of the country, who call in the aid of the Royal Society to asnecessary, in arranging and carrying out eme. As I have before said, considerable ry aid would be required, to carry out the satisfactorily; therefore the plan I sugthat government, being the bearer of tessays on the "Pleuro-pneumonia" in under certain conditions and regulations; lly believe that the Royal Agricultural

represent stocks in the neighborhood about the show the view government took of a disease me time, and this, I think, may be attributed amongst cattle, called the "Malignant Epi-some atmospheriz agency. Can anything be demic Murrain," about the year 1745, I quote the following passages from a valuable work upon cattle, and their diseases. After speaking of its devastation in the neighborhood of London, and some of the midland counties, it says :

"For more than twee years it continued to lay waste the country. The number of beasts that were actually destroyed by it was not, and perhaps could not, be ascertained; but in the third year of the plague, when the government had so seriously taken up the matter as to order that every beast that exhibited the slightest marks of infection should be destroyed, a remuneration being made to the owner, no fewer than 80,000 cattle were slaughtered, besides those which died of the disease, and which formed, according to the narration of one of the commissioners, nearly double that number. In the fourth year of the plague, they were destroved at the rate of 7.000 per month. until. from the numerous impositions that were practiced, this portion of the preventive regulations was suspended. In the year 1747, more than 40,000 cattle died in Nottinghamshire and Leicestershire, and in Cheshire 30,000 died in about half a year."

Surely, after such an example by government, upwards of a century ago, our present govern-ment cannot well refuse its aid, by the advancement of a few thousand pounds, in endeavoring to ascertain the cause and cure of a disease, not so dreadful perhaps in its character as the murrain, but fatal in its effects to a fearful extent. almost ruinous to individuals, and seriously affect-ing the whole community. It appears that England is not the only place where the disease exists at the present time, and I quote the following passages from a London paper of the 10th inst: "A communication was received by the Royal Agricultural Society, at its last meeting, from the Central Society of Agriculture in Belgium, requesting information on 'Pleuro-pneumonia,' and the means adopted to combat the disease, having particular regard to inoculation. readed scourge "Pleuro-pneumonia" in A reply was ordered to be made, that inoculation was not found, in this country, to rest on any scientific basis, and as such, it has not re-ceived the sanction or support of the Society." In this country, no statistics of the number of cases of " Pleuro-pneumonia" have been kept, and consequently little is known of the number of those of inoculation. Some time ago, experiments were made upon cattle by inoculation, but I never heard of any very favorable results; and I think if the experiments had been toleraic purse, should offer three prizes for bly successful, the public would not have been kept in comparative ignorance on such an imriz., one of two thousand pounds, one of portant matter; and it certainly appears strange, pusand, and one of five hundred-of that such a mode of treatment should have been resorted to, i. e., to introduce so malignant a direaco into the system of a healthy animal, would render all the assistance in its which might possibly escape the disease altoo further the objects of the inquiry. To gether; for I think it will bear no analogy to

the system of vaccination in the human sub-| Even such as still live in hope wrote before ject, for a mild kind of disease was in the first instance introduced into the system from the cow, with admirable effect, for the purpose of Formerly, the small pox itself (until the dis-covery of vaccination, by Dr. Jenner,) was intro-duced into the system of human subjects by inoculation, and frequently lamentable consequen-ces ensued, which I tear would be the case if inoculation was resorted to in "Pleuro." And now the question again presents itself: Can anything be done to arrest the progress of "Pleuro-pneumonia," carrying away, as it does every year, some thousands of valuable dairy and other cows? It appears to me to be worth the experiment I have presumed to suggest, and if successful, the public would be well repaid for any pecuniary assistance government may think proper to advance in the undertaking; and, if, on the contrary, it should prove unsuccessful, the country will, I think, be satisfied that everything that can be done has been done, and that we must in future look to an All-wise Creator for that comfort and support, under the infliction, which He alone is able to give.

#### Harvests Prospects in Britain.

From the Mark Lane Express of August 27.

LONDON, Monday, Aug. 27, 1860.

The harvest prospects only become yet more serious and discouraging the nearer we approach There to what should be so joyous a season. has been another wet week, and we write on the third Saturday in succession under the dispiriting influence of "a regular rainy day." There has scarcely been a gleam of sunshine, and the corn for the last fortnight has no appearance of having ripened in any degree what-ever. Still some has already been cut; but this, in many cases, has been more to stay the spread of disease than from the car being really ready for the sickle. A crop gathered in such condition will of course require a deal of time to make and harden, either in the rick or the barn; and, however late harvest may be, anything like a general return of new wheat in the market will be later still. The yield, moreover, is now in almost every direction anticipated to be indifferent, while the sample, even with the most careful housing, can searcely turn out well. Such a combination of circumstances must tell against those who cannot afford to wait, and we fear that many small farmers will be placed for some time to come in a very trying position.

Our reports from different parts of the country only go the more and more to confirm the unfavorable impression we have for some time past continued to gather. There is, too, hardly a local journal we open, but which has something like a positive despair of the harvest.

experience of the last two days; and these: in and about town have been with the ? pointing to the too palpable fact of "r rain." In a season almost if not altogr unprecedented for the continuance of ung tious weather, and the absolute injury ale effected, it is extraordinary to remark the mon tone of the country. Dispirited as a may be, there is as yet nothing like a apparent. The country markets yet new like the total the total bitle change; while Mark Lane, though some time gradually advancing, has r nothing like that leap which many people' so long been prepared for. But to day'sm does at last show some sign of the unsease influence, and a rise of four shillings a qu is recorded on wheat, and £3 per tw potatoes. Had the morning opened less ably there is little question, but this ad would have been yet greater. Still, the parative quiet here, and the ready supplying in, would go to argue that we have more wheat in store than was imagine would, however, he idle to assume that r upon any such a prop as this. Englasi long ceased to think of any such selfe ence, and the reports of her own prospe now read with hardly more interest and tion than those of other kingdoms. It that we must solve the enigma as to the of the market and the continued confide-There is a comparison the country. drawn between the broken promise he that held out to us elsewhere. Wo area to offer the material for such a review? paper of to-day. Almost side by side will other stand the facts and opinions of ow nized authorities both in England and A: The contrast is striking enough. Proately as the look-out of one is bad is the good. It is rarely there has been so ge unfavorable a return in England, and as a better one in America. We turn only State and statement to another with the gratifying and welcome intelligence. of as late a date as August the 6th: ond it nearly all echoes the abundance opportunity for the in-gathering. "1 can get all, and more than all, she was the United States—if she has a very sh we have a very large one-average pr rule;" while a duly appointed Comm Wisconsin writes "that without excep crops were better in quality than we pated, and the quantity of the area; astonishing !" There is to be a thirdn the crop of 1859, and a fifth more than 1858 or 1857. There must be many E quarters to spare, and all ready for shi England so soon as we only announce require them. Such a declaration, would seem to be already preity freely. as a rumor of some repute goes to

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ing for on Mark Lane. In any case, what-r may be the actual result, an all-wise evil which may afflict us; and inculcates at same time the blessings of Peace, and how man should learn to aid his brother. harvest in England, and a bountiful one in ] erics, must be attended with commercial tions that will conduce much to the mutual renience and advantage of either. The ms we are enabled to offer on the prospects mace are generally more favorable than we e hitherto been led to anticipate. But these accompanied by the suggestive commentary he Emperor himself, who has just opened orts to his people.

ithin thirty miles of London the barley is een as grass, and in almost every direction heats are more and more laid, with the rs coming through. Still there is much f a good color, and though the rains have ] heavy, the temperature has been rarely or "muggy." The strong wind, indeed, has commonly attended or followed the all, must have done much to retard the d of mildew; though, as we wrote last this in some districts is already lamenta-.evalent. A few days more of such weas we have had for the last month would breaten a fearful increase of disease; and this dread before them, some few have tunately, by no means scarce. f last season have attracted a number of ands, especially from Ireland, and these anxious to get to work as even the himself can be. With a view of facilithe business of what may most probably 'catching" time, we have provided an on the best means of encountering a wet This will be found to give the prac-Scotland and the north of England, such difficulties are of more common nce than in the south. Many a useful s we take it, may be gathered from a perhaps somewhat slovenly in its details, t is founded on the principle of making of bad weather. If markets are still at an average with the supply that other s can send us, it behoves the English trist yet more to do the best by his own . A high price has ere now compenta short crop, but in these times of d facility of communication and ready the hiss of the steam-engine will strike we between plenty and scarcity. It is 0. that it should be so. Panic and ly like evil spirits from the presence of ower.

n Ploughs on Trial at Canterbury.

erica at a higher rate than that it is now facturers, Messrs. Ransome Sims, and Messrs. Ing for on Mark Lane. In any case, what Page & Co., to be given to the one whose plough should be adjudged to have done its work best; vidence directs us at once to the remedy for the trial, it was also decided, to come off at Canterbury during the agricultural week. On Friday, accordingly, the ploughs made their appearance. A The judges of the show were the umpires. Both the ploughs were iron, and both of improved manufacture-the champions of their respective The ground to be turned up was, of owners. course, at first a subject of discussion ; but with the confidence of inexperience, the competitors were resolved that they would try on the pastureland that had been the scene, only two days before, of the Kentish men's lamentable defeat. In vain were words of prudence whispered in the ears of these ardent competitors, and the extraordinary nature of the land pointed out to them. They would not hear of delay, or admit of doubt. That the Kent ploughs had failed, they said, was very likely, and only what everybody expected; but these improved iron implements were made of very different stuff, and, in fact, just suited the stiff, difficult soil; and the makers of them felt overjoyed at having at last got an opportunity of showing the miserable figure that poor Kent would cut, when her wretched, old-fashioned, ill-constructed plough was brought into competition with the ploughs of a more modern kind. Accordingly they got to work. Messrs. Ransomes' plough was behind-hand at starting: but Messrs. Page's plough began in good time; and its skilful, intelligent driver smiled contempt at the bare idea of its failure. All he wanted was, to find the land that be could not plough. He had four horses, however-no doubt out of a desire to flatter the prejudices of the Kentish spectators, and not but that he could do perfectly well with two. He chose a broad space between the work of the Kent ploughs, and began by turning a furrow each way in the centre, to the depth of two or three inches, leaving a piece of uncut turf in the centre, of the breadth of nine inches and a half. As he began his work, our attention was called away for five minutes; and we dared scarcely turn our sight again on the field, for fear of witnessing such splendid ploughing as would finally and for ever consign to ridicule the morits of our Kentish implement. At last, we screw our courage to take a survey of the field; but what do we see? The sward unburied; the furrow not five inches deep; the earth that had been turned up constantly falling back into the furrow; the coulter of this invaluable plough actually bent; and, lastly, the ploughman, uttering very emphatic but highly improper observations on the land, the plough, his horses, and himself. And this was the result of all his grand expectations. So far was he from beating the work of the Kent plough, that he fell very far behind it, and instead of proving, by comparison, its defects, showed only that, if it had failed, its failure was, at least, much less signal than that of Messrs. time ago a match for £50 mide was Page's modern, improved implement. Mean-tween two well-known plough mann- while, the other plough-that of Messrs. Rausomes and Sims—started off. Instead of four, the driver of this implement would only have two horses; but before long he altered his tone, and harnessed on the complete team. The result was precisely the same as in the case of his competitors. The depth never exceeded five inches; the earth returned to the furrow; the coulter was hent, and the ploughman disgusted. He and his friend retired from the field with blushing faces instead of blushing honours, and with their mouths full of complaints about the Kentish soil, rather than against the Kentish ploughs, which they had before been so ready to ridicule.—Kentish Observer.

The Maidstone Journal adds: "The iron ploughs also ' came to grief,' and cut quite as deplorable a figure as their more ponderous progemitor. Great was the exultation of the iron plough makers at the alleged failure of the old Kent plough; but it may turn out, after cll, that failure was more apparent than real. The Kent farmers attribute what took place to the fact that the plough tackle was not suited to the nature of the work to be done; and not to the inefficiency of their implement. This view of the case is borne out by the fact that Simmonds' plough ac-tually did turn the soil. The advocates of the iron ploughs at the Canterbury Show, however, would hear neither argument nor explanation, and the Kent plough had to put up with jeers and contumely. Hereupon a few spirited men of Kent determined if possible to bring the question to a fair issue, and we are glad to hear that a friendly challenge has been sent to Lr. Hornsby to try his plough upon a piece of stiff land m Mid-Kent against the old Kent plough and Spen-If Mr. Hornsby accept the eer's improved. challenge, public announcement will be made of the time and place of this important trial."

Mr. Hornsby told us himself, on the hill at Canterbury, that he should like nothing better than to go to work where the Kentish ploughs were then doing so badly.—En. M. L. E.]—Mark Lane, July 23, 1860.

# Liquid Mozuros.

Many gardeners near the krge cities of ing power. Europe use all their manures in the liquid form. The manure house is o close, long building, and after being filled is closed tightly up. The floor inclines toward a cistern of the lower end outside the building, to receive the drainage which is pumped back on top the monures daily. When measures are required, the liquid from the eistern is used, oud if more is required than the cistern will furnich, rater is permitted to run into the cistern, and this is pumped up again on the manure heap to filter through, and to dissolve new portions of the fertilizing materials rendered soluble by sge and fermentation. The following article from the Reral Cyclopædia, shows a different method passed in Holland, Switzerland, and Germany.--[ED.

GULLE.—A peculiar liquid manure, insome parts of Holland, in several distri Switzerland, and in the south-west of Gen It is a dilution of the solid and fluid , ments of cattle in winter, sometimes chem affected by a foreign admixture, and a subjected, for a considerable time, to the factive fermentation.

Gulle has been longest in use in Switze particularly around the lake of Zurich; there prepared in trenches and tanks i diately connected with the cattle-houses. floor on which the cattle stand is covered planks, bricks or tiles, ond has a slight in tion toward their heels. A horizontal t: for receiving their excrements, extends end to end of the floor, and is form boards, or walling, 18 inches wide and 24 i deep; and is connected at its lower end; covered tank of six or eight feet in depth. trench is half filled with mater; the urin naturally into it; part of the solid ezer falls naturally into it, and the rest is rely washed into it several times a day; the litter, which has become foul with exer is collected twice a week, and well rinced trench, with the dung rake, and then lef ciently long at the side of it to drip e saturating liquid; and when the tiench be quite, or nearly full, its contents are fir roughly stirred up, and then let out i sluice at the end of it into the tank. trench is again and again, or many times filled and emptied in the same way, t tank becomes full; and in large establish the contents of the full tank, now in as considerable fermentation, are run off or F into a larger reservoir, and there kept four to six weeks, till they have becor roughly fermented. The washed litter having been allowed completely to drip edge of the trench, is carried out of the and built up in regular quadrangular and it soon decomposes into a dork-brow manure; but, in consequence of havin classed from nearly all the saline and genous principles of the dung and uri: manure possesses, comparatively, little

In the south-west of Germany, the ta the gulle are constructed in the fields, . plied with water from edjacent spring both the urine and the dung are carried from the cattle-houses. The advantage method over the Swiss one, are the less labor in carting the gulle to the fields, some instances, the lessening of labor veying water to the farmery; and the vantages of it, are the increase of : collecting the excrements, and the di of some portion of the emmonical p before the excrements can be conveyed tonk. A practice throughout the south Germany, too, is to dissolve some cop the contents of the tank; and, the

proportion of iron, it delivers up its sulcacid into combination with the ammonia e urine, and, in consequence, very genergives a perceptible increase to the fertilizower of the manure.

alle is generally applied as a top-dressing, s found to be peculiarly suitable for grass : but, on account of the labor of carriage, seldom be economically applied to fields eadows at any considerable distance from ink. A grand requisite for it is an adequate y of water; and this requisite becomes a e of material enrichment, when the water · a considerable quantity of matters in solution; or, in popular phrase, is "very Gulle is conveyed from the tank to the in liquid-manure carts; but it falls most ty and beneficially upon the soil, when to flow from an aperture in the centre of ower side of the barrel, and to splash upon

persing-board, suspended below the aper-In pumping it out of the tank into the l, care ought to be used to leave behind eundecomposed vegetable fibre laying as ent at the bottom of the tank; for, when s mixed with gulle used as top-dressing, it n the leaves of the young plants, and ces an injurious incrustation. And it always to be applied either in a state of aratively great dilution, or when the soil ch moistened with rain; for, if used upon rass land in the concentrated form in it is prepared, it will act in a somewhat 'c manner, and probably do more harm good.

Sprengel, to whose treatise on manures re indebted for the facts we have now . speaks very highly of gulle, and strongly mends it to the attention of farmers. ough," says he, "arrangements of the stalls as well as the numerous tanks, rein the preparation of the gulle, in order serve it for the proper period, occasion expense, and likewise its distribution over ld much labor, these outlays are richly in the advantages derived from this e, as will be more clearly shown under llowing heads :-- 1. The water, which is ntly kept in the trench, absorbs much of rbonic acid given out by the cow in the breathing, and, consequently, the ammoising from the urine is not only neutralized us rendered less volatile, but the carbonic also in itself a strong manuring substance. e water in the trench serves to keep the use cool during the heat of summer, and por occasions a dampness in the atmoswhich is much better for the health of w than a hot and dry air. Little, or per-one, of the ammonia, developed by the 's lost; its escape being prevented, as my xperiments on the putrefaction of urine there have proved, by the large quantity The last "Journal" of our State Agricultural er present. The absolute gain of manur- Society contains among other interesting matter,

damage ferruginous soils, by adding to ing elements from this circumstance is, indeed, very considerable, and fully confirms the statement of the Swiss, that, since the time of the introduction of gulle, agriculture has been con-siderably improved. 4. By means of the galle, a sickly plant derives almost immediate relief, in consequence of all the nutriment being already dissolved by the water, and in a fit state to enter at once into the plant. 5. It is a point of particular importance that, in adopting the use of gulle, a quicker return on outlay of capital is obtained than in the case of common yard manure. 6. From the gulle little or none of the manuring matter is carried off by the rain, while from yard-manure it frequently hap-pens that much is so lost; the practice of spreading it on the field, in heavy dressings, causing its action to continue during three or four years, or even longer. 7. By means of the gulle, plants may be brought with most certainty to the exact degree of luxuriancy which will yield the most abundant produce. S. The growth of forage plants, particularly of clover and the meadow grasses, is greatly secured by the application of gulle, particularly when (as they do in the Black Forest) we add, green copperas to the putrefying gulle, and the stall-feeding of cattle in summer is made more practicable. 9. In adopting the preparation of gulle, less litter will be required. When cattle are not properly bedded, much of the manuae escapes in the form of gas, while, by mixing the excrement with a large quantity of water, little or none of it is lost: it is, consequently, evident, that, in the preparation of gulle, a greater quantity of manure is gained than in that of common yard dung; and what the most im-portant point is, that the gulle has retained a larger proportion than that very substance which has the most important influence in the nourishment of plants-namely, ammonia. Ъ fact, all the advantages derived from the preparation of gulle are so important, that we cannot but wish comparative experiments may be made, in order to ascertain with more certainty what ' is the real amount of gain in its adoption. It might, perhaps, be useful also to prepare gulle from horse and sheep dung; as, under the present management of these manures, far more ammonia is lost by evaporation than in the case of cattle dung.

# Top-dressing Meadows and Pastures.

We have repeatedly called the attention of our readers to the favorable results usually forlowing the surface manuring of grass lands, and believing, as we do, that good crops of grass lie at the very foundation of good farming, we keep careful watch for facts which shall help to carry the conviction to the minds of farmers in gene-

retary Johnson. Near E. G. Faile's "the grass crop was light, owing to the severe drouth prevailing in that section of the State." But "Mr. Faile's grass land had been top-dressed, and his yield this year was larger than usual, averaging, we think, three tons to the acre, his meadowfields showing a fine healthy, green aftermath, while those around were generally scorched by the sur Col. J. adds: "Mr. F's practice is undoubtedly the true one, and every farmer in that region will consult his own best interest by onriching his meadow land by a thorough topdressing of manure."

The Genesee Farmer for August has an account of a visit by the editor to the farm of Jos. Wright of Waterloo, Seneca county, and among other items mentions Mr. W's practice of com posting his barn manure with swamp muck-"the compost, when well rotted, making an admirable dressing for glass-or indeed any other crop; but Mr. Wright values it especially for the former purpose. Mr. Harris saw a 28-acre field of timothy, (four years from seeding,) that was top-dressed with this compost the early part of last winter. The crop is remarkably even all over the field, and, he remarks, "we never saw anything handsomer." Two and a half acres of compost-dressed timothy had been cut, and yielded seven large loads of hay that it was thought would weigh 25 cwt. each. This would be three and a half tons per acre. Four acres of top-dressed clover had produced eleven large loads of hay. On another S acre field of timothy, Mr. W. had applied 40 loads of raw muck per acre, with decided benefit, though not as great as where the muck was first composted with manure.

The same paper speaks of Jas. O. Sheldon's farm, near Geneva, N. Y. "Mr. S. is much in favor of top-dressing his grass lands. One field of timothy of 30 acres, was top-dressed with from ten to fifteen loads of rather strawey manure, the early part of March. The manure has all disappeared in the dense sward, and the crop of timothy is very fine." Mr. Seldon has made some experiments in sowing salt on the land at the time of seeding to grass in the spring-and finds the effect quite marked. The Farmer says-" he sows ten quarts of timothy and three quarts of clover seed per acre. In a 30-acre field, seed ed down about the 10th of May, 1859, fiftcen acres received a bushel and a half of salt per acre, sown broadcast at the time of seeding ; and on this portion of the field the seeds took well, and the crop this year, is much larger on the salted than on the unsalted portion."

Speaking of manuring at the time of seeding, we have this year tested the advantage of several applications for that purpose. On a saudy loam field, where grass seed was almost a total failure last year, it has this year succeeded well-partly from being top-dressed with plaster, and somewhat from the more favorable season. we top-dressed with composted muck and barn of science has confirmed and extended

some notes of a "trip to Westchester," by Scc- | manure the clover is large and thick, and the same is true of a small plot dressed with how ashes. On another plot sown with salt, we this the clover is more uniformly successful, theth the growth is not large, than where no fertilize save plaster, was applied. The more class portion, however promises the best cloverit may not stard as well the "heaving out" i next spring's trying weather.-Country Gentle man.

#### Artificial Manures.

The following is the report of a lecture & livered by Dr. Anderson, Professor of Chemix in the University of Glasgow, at the receipt of the Highland and Agricultural s ciety, Scotland. There was a large and attent audience, consisting of a good many of t influential gentlemen connected with the Shr The chair was occupied by Provost Leighton Dumfries, who briefly introduced the lears lecturer.

Professor Anderson then addressed his p dience as follows :- Gentlemen,- The subj I propose bringing under your notice ont present occasion is one which necessarily or mends itself to the notice of the farmer. T success of his cultivation and consequently! pecuniary interests are mainly dependent on. care and judgment he exercises in the select of a manure capable of affording proper m ment to his crops, and adapted to the soil which it is used. It may be safely asser that no department of agriculture has of l years undergone greater changes or offers m important problems for consideration than. use of manures. A very few years ago farmer relied exclusively, or at least all exclusively, on farm yard manure, and so k as he did so the matters he had to consider comparatively simple. He employed a : stance containing all the elements require the plant, and supposing it to have been a and preserved with reasonable care it did differ very widely in composition and qui and such differences as did exist were under own control. He conducted for his own be a manufacture which, when properly exerc gives a nearly uniform product; and h thus the advantage of using always the substance, he was enabled to concentrate attention upon it, to watch all the difference of its action, and to acquire an extended to be acquire an extended of the last of and minute knowledge of all the circumst affecting its use. Long experience has t the best method of preparing and app farm-yard manure. In fact almost all the cautions required for this purpose were k from a remote period, and the skilfulf. based his practice on the knowledge his cessors had accumulated during a long s Where sion of years, a knowledge which the tes

ut be admitted, however, that although these | said that the land under tillage on the British recautions were well known to the good and tilful farmer, they were often but little ataded to in practice, and over large districts of unity carelessness and waste were the rule, ad the proper management of manure the exption; and the reason of this was no doubt to found in the fact that farm-yard manure is romulated on the farm in such a manner that ere is no proper standard of value to which it n casily be referred. The last 15 or 20 years. owever, has produced a change in this respect hich amounts almost to a revolution, and e consumption of foreign and manufactured anures which during that period has risen om nothing until it has attained its present traordinary magnitude, has brought home the farmer with a force which it never before ssessed, the question of the money value of anures. It may be of some interest if I enavor now to form some kind of estimate of esum which is at present expended in this untry on the purchase of artificial manures. is not possible to do this with absolute acacy, but an approximation may be made ich cannot be far from the truth. I find, on erring to the Board of Trade returns for is, that the value of the guano imported and ained for home consumption amounted to \$37,424. This sum, however, appears to be ne the average of 1859, which was much ow this; but, on the whole, it appears that vere consuming every year somewhere about ,500,000 in value of guano. Every year re are imported nearly 26,000 tons of nitrate soda, and making a liberal allowance for the ntity consumed for other purposes, we will that 15,000 tons are consumed for agricull purposes, which will make an annual value £225,000. Of bones there are imported 17 year \$1,000 tons, besides the quantity ected in this country. Of these, 80,000 tons employed for agricultural purposes, one-half t is bones, and the other half is converted super-phosphate. We find that the value 0,000 tons of bones at £6 a ton is £240,000, that the value of 10,000 tons of supersphate at £7 a ton is £420,000. The conption of coprolites annually cannot be very rately estimated, but I understand it is about 00 tons, which yield 75,000 tons of super--phate; this at £5 per ton makes £375,000. value of the consumption of sulphate of tonia is  $\pm 150,000$  a year; and allowing for rarticles a sum of  $\pm 100,000$ , we have for total value of artificial and imported mas annually consumed in this country a sum 1.010,000. It would be very interesting if re possible to ascertain what relation this

sum bears to the value of the farm-yard ure annually consumed throughout the counbut on this point it is impossible to obtain cliable information. A kind of vague estimight perhaps be obtained from the num-

Islands exceeds 21,000,000 acres, and though this is probably above the mark, it may be adopted without much error. If now we assume that one-fourth of this is annually manured to the extent of 10 tons per acre with farm-yard manure the annual consumption must be 60,000,-000 tons, worth about £20,000,000. It is probable that this estimate is too high, but it shows that at least one-fifth of all the manures now used is artificial, and chiefly derived from for-eign sources. The introduction of these new and important elements of fertility has not only altered the whole system of cultivation, but has placed the farmer in an entirely new position. Not only has the field of enquiry into the use of manures been greatly widened, but he is compelled to exercise much vigilance in order to make sure that the substances he buys really possess the qualities he anticipates. Most of the artificial manures in use have a composition which is very small and altogether beyond his control; and even when the farmer has found that any particular substance has given him a satisfactory result, he is compelled before he uses it again to satisfy himself that the substance he buys under the same name really is identical with that from which his experience was derived. Farm-yard manure can always be recognised, and its quality and condition be tolerably well ascertained by ocular inspection; but with all other manures the external appearance is no criterion of their quality, and it is possible to imitate their character so nicely that the worst appears equal to the best. To avoid the difficulties by which he is thus beset, the farmer is compelled to invoke the assistance of the chemist in order to ascertain that the manue he purchases really is what it is represented to be. But then arises the difficulty that results must be expressed in the language of chemistry, which the farmer cannot be expected to understand minutely, and numerous differences are to be found in the mode of stating the results of their experiments, used by different chemists, which he is quite unable to comprehend. The existence of those differences is greatly to be deplored, and it is most desirable that some general and uniform system should be adopted, and as far as possible the best chemists adhere to the same plan, but many circumstances have prevented it becoming universal. Some individuals consider one system preferable to another, and many manufacturers seeking to support the individualizing of their own manures are favorable to a form of analysis which distinguishes them from those of other makers. Another cause of difference is to be found in the gradual progress of our knowledge regarding the analysis of manures. Chemists are constantly at work verifying the methods of analysis and introducing such improvements as really make them more plain and afford a more definite idea of their commercial value. In point of fact the If acres of land under cultivation. It is methods now in use for this purpose are of quite

recent introduction. to contrast the minute and elaborate analyses made at the first introduction of guano with those now in use, to be convinced that the former though scientifically accurate are valueless as a means of establishing its commercial value, while the latter, just because they are less elaborate, afford a ready means of doing so. Every careful analyst finds it necessary occasion ally to make alterations in the mode of analysis either because new facts are discovered or because changes occur in the method of manufacture, but he never does this until it is actually forced upon him, because he is well aware of the difficulties and inconveniences it carries with it. Hence changes in the mode of expressing the analyses of manutes must be expected to occur from time to time; but as a general rule it will be found that those persons who have the largest experience of the analysis of manures have arrived at include which are practically identical, and such differences as do exist can be easily explained. On the other hand, it must be admitted that many analyses are made and stated according to systems which are most unsatisfactory, and so as occasionally to puzzle even an experienced chemist. In general, however, the chemist can readily form an opinion as to the degree of reliance to be placed on an analysis, and he can give some rules which in most cases may enable the farmer to judge for himself, at least under ordinary The object of my address is to circumstances. point out what the farmer can do for himself, and to teach him how to read the analysis of manure, and to arrive at a reasonably accurate estimate of its commercial value. At the outset it must be laid down as a rule that the more simply the analysis of a manure can be expressed the better. The object of the analysis being to snable the farmer to effect a comparison between different samples and ascertain which is the best, it ought to be framed with this view. It is not only unnecessary but undesirable that extreme scientific minuteness should be aimed at On the contrary, the different constituents should, as far as consistent with chemical accuracy, be arranged under several great heads. Thus, for example, a guano generally contains phosphate of lime, phosphate of magnesia, and sometimes a small quantity of phosphate of iron; but it would serve no good purpose to state the quantity of those substances separately, because as they have all precisely the same value, the first step taken by any person anxious to estimate the proper price of the manure would be to add them all together. Accordingly they are all stated under the general head of phosphates and a similar plan is adopted with the other substances. In this way the different constitu ents are reduced to a small number of easily comparable heads, which will be casily rendered intelligible when we speak of individual manures. The analyst endeavours as far as possible to avoid adding to the number of those heads un-

And it is only necessary | necessarily, although of course cases occus which this is indispensable, but he is then or ful to explain the causes of his doing 50. ) discussing those points to which the farmerry attend, it is necessary to divide manures into two great classes of guano and superphosphy to which ninc tenths of those now in user be referred. Guanos are all substances of the ral origin, and almost all manufactured many though sometimes called artificial guanas designated by other names, are substants' superphosphates. It is to these two classes f our attention will be chiefly directed, althout a short reference will also be made to nitrate ammonia, nitrate of soda, &c. Directing attention then, in the first instance, to Peur guano, the most extensively used variety of class, we find that in its analysis the results. expressed in the following manner :---

Water	13.72
Organic matter and ammoniacal salts	53.B
Phosphates	23.48
Alkaline salts	7.9
Sand	

100.0

equal to 5.42 phosphate of lime . . It is to be noticed, in the first place, the guano, like any other manure, is a mixtor valuable and worthless matters. Wate: sand, of course, have no value, and they: merit consideration in those cases in whicht are so abundant as to reduce the proportia The quantity of water is so other matters. of importance that it indicates the conditia the manure, shows that it has not been dama and enables us to see that it is sufficiently veratent to admit of its easy application. vided, however, the valuable matters an below the average, the quantity of water sand is a matter of comparatively little mot Looking to the valuable matters, we see th a genuine Peruvian guano, more than he weight consists of organic matter and a niacal salts containing 17 per cent. of amm somewhat less than 4 is composed of phose insoluble in water, and in a form similar to in which they exist in bones. One-ter alkaline salts, containing 2.5 per cent. of phoric acid, which is water, and in a con analogous to that in which it is found is soluble phosphates of a superphosphate. then, any other constituents appear it analysis besides those just enumerated, a the sand is larger, the guano is certainly genuiue. As regards the individual constitution of a guano, it is to be observed, as wi afterwards pointed out, that their value ( very greatly, and hence variations in the portion of some are of much greater importhan others. It must be borne in mindt of the value of a Peruvian guano are d ammonia, i to phosphates, i to phos

id in the alkaline salts, 1-50th to organic tter, and only about 1-130th to alkaline ls. It will be obvious, therefore, that the latter are of little moment in judging of ralue of any sample, and that they may for mugh estimates be entirely disregarded. In amining the analysis of a Peruvian guano, rattention must be mainly directed to the borse, which seems to be in every way degraded by the prize list that I refer to. antity of ammonia, even a small diminution that substance having a marked influence on price of the manure. The reduction in ce caused by the ammonia being one per t under the average could only be counteranced by an excess of 8 per cent. of phostes, and by a proportionate quantity of erconstituents. Of course, Peruvian guanos r somewhat from the average given above, ough it is commonly supposed that the ations are so slight that, provided it be rtained to be genuine, its analysis is unimant. No doubt the importers encourage view by charging the same price for all oes of guano altogether irrespective of lysis; but nevertheless there are very matedifferences, especially in the amount of nonia, and I have known samples containing ttle as 15, and others as much as 19 per . of that element, involving a difference in e amounting to nearly  $\pm 2$  10s. per ton.

(To be continued.)

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# Correspondence.

#### Prizes for the Horse.

ITOR OF THE AGRICULTURIST,-I find by ast Agriculturist from Lower Canada that Board interd to hold a Provincial fair at ec on the 26th, 27th, 28th of this month, at they offer the following sums in pre-, thus divided :---

lattle	\$3,047
f gold medals, 12 silver and 8 bronze.	424
wine	. 320
10rses	
airy. .ugar.	
"ield Productions	. 364
igricultural Implements	. 732
oreign Stock	.734 .71
Iorticulture	. 120
`ruit	. 132

#### Total.....\$6,356

l of six thousand three hundred and fiftyllars and twenty-four medals. Half this nd all the medals, being given to cattle while to horses they give only eight hunnd seventy-eight dollars and no medals.

Mr. Editor, to those who breed and that noble animal, the horse, seems un-

by the prize list that I refer to.

In the first place his prizes are small, and no gold medals are to grace his neck, or his mas-ter's parlour, and secondly, and still more degrading, he is placed not only after cattle and sheep, but below the hogs.

When you have gone down the prize list suf-ficiently low to find him, what then is the fact? Why, the heavy draught stallion, valued for his weight, (for his great qualification must be that he is over thirteen hundred pounds) stands before his royal blood relative, which is placed the very last in the scale, enough to make his blood boil, and to disgust his admirers. From reading the prize list for horses alone, one might imagine that the post of honor was in the rear, but when the Durhams stand first in-cattle, and the large amount offered comes before them, that is dispelled, and any one can perceive the intention to place them in an inferior position.

I trust that these remarks may fall into the hands of some horse breeder of Lower Canada who will go into the Society, if for nothing elso but to look after the interests of their favorite. stock, and to obtain justice to the animals themselves.

With us it is different,-horses get justice by our prize list, which is as follows, and stands first in the list:

1st. Blood Horses	\$371
2nd. Agricultural Horses	421
3rd. Roadsters "	475
4th. Heavy Draught "	419
Any blood	100

Total.....\$1,786

And four gold medals; and with the view of further stimulating breeders to improve blood stock, a few gentlemen joined and obtained from our Gracious Queen a fifty guinea plate, to be ran for every spring by young bloods, a boon they have long enjoyed in Lower Canada. It is to be hoped with this handsome plate,

and the premium offered by the Agricultural Association, that the thorough-bred may be increased in the country, and now the Province being full of large mares, we may be enabled to compete with any other country for useful horses, if we cross them with the through-bred stallions. R. L. DENISON.

Dovercourt, Toronto, Sept. 1860.

## Grape Culture in the Niagara District.

EDITOR AGRICULTURIST,-I have read with much interest several communications in your ad more especially so, when in reference | valuable journal on the subject of grape culture

in Canada, and beg leave to offer a few remarks illustrative of my own experience, during a residence of several years on the southern side of I think will prove of interest to your reale Lake Ontario in the old Niagara District. From a careful examination of various reports of the grape growers at Cincinnati, I feel confident that grapes are a more certain crop in the Lake Townships of this District than they are there. A black rot which proves very destructive in southern Ohio after warm rains, is unknown here. One gentleman who has an extensive vineyard, states that they do not expect a good crop oftener than once in three years. Here during the space of nine years I have never failed in securing a well ripened crop of the Isabella, and though left on the trellises all winter, I have never known the vines to be injured by frost. The Isabella is the favorite grape amongst the farmers and others here, and when well ripened, few of the hardy grapes surpass it in flavour. Last fall, though the season was rather unfavourable, I saw some Catawba vines in St. Catharines covered with well ripened fruit.

In October of the past year, having a large quantity of Isabella grapes, my wife determined to make wine of them according to a simple receipt she had obtained. I confess I thought it rather a visionary experiment, and she being unwell, some five gallons of it lay neglected in a large stone jar for three or four months. At length I examined it, and, to my surprise, it came frothing out of the jar, quite clear, and of a delicate pinkish white. I bottled it, and many judges who have drank it, prefer it to the costly cham-, pagne ordinarily used. Many of the German farmers in this neighbourhood make large quantities of wine for their own consumption; some I have tasted made at Fort Hill, Welland Co., resembled in flavour a good Madeira. I have no doubt whatever, but that this District alone could, on its sunny hills, produce good and wholesome wine sufficient for the whole Province. This fall I purpose trying the Diana grape-a young vine of this fine species in my possession having a heavy crop. I may mention here that its grapes are entirely exempt from mildew, while an Isabella, a Canadian Chief, and a Sweet Vater close to it, are injured by that pest, which I attribute to their being over shaded by some fruit trees.

But I should strongly recommend any one who is desirous to learn what can be done in grape culture in this district, to pay a visit to the farm of Mr. Wm. H. Read near Port Dalhousie, and three miles from St. Catharines. There can be seen the Golden Chapelas, Black Hamburgh, and several other foreign grapes growing in great luxuriance in the open air. But Mr. Read has especially devoted himself to the culture of seedlings, of which he has now nearly 2000, some of them very promising. On one of them especially, the berries, when I visited him about a fortnight since, measured 34 inches in circumference. Another which was then ripening, he thinks destined to be the great wine grape of Canada.

Enclosed, I forward a letter received fre Read on the abject of his experiments, Truly your,

Port Dalhousie, Sept. 1.

PORT DALHOUSIE, Aug. 18, 15 EDITOR AGRICULTURIST,-For the last E vears the culture of the grape has bee favorite hobby; but it is only during the ten years that I have entered systematical the business during the intervals I could from attending to my farm. I have long of opinion that none of our native Am grapes were exactly suited for general g in the Province. In this neighbourho Isabella, that fine old variety, can be grow cessfully, but in other parts and through a portion of New York and Pennsylvania quently winter kills and does not ripen its I have nearly all the leading varieties of ! can origin now bearing fruit on my ground my impression is that for general use i Province none of them are exactly what quire. So likewise the different Europer grapes will not succeed well here or They are killed other part of America. frosts if not covered, and very liable to r We have a better climate than many Europe where they succeed well, still it some peculiarity in the American atme which does not agree with them. I ni cessfully many fine varieties in the open. they require more care than our peoples ing to give anything of the kind ge speaking, with respect to pruning, g against mildew, and protecting them in

What we really require is an earlyg hardy as an oak, of vigorous growth: from mildew, and to possess these qualr vines should possess, as it were, the blo constitution of our indigenous stock.

procured at great trouble, and with much ling, half a dozen wild grape vines of w. fruit is of tolerable size and quality, at I think are destined to be the parents of of precisely the kind we require. My g ject has been to procure vines with the Canadian constitution of these natives good qualities as far as possible of the varieties. To produce these I have been for years various experiments in cross? tion with Chapelas, Black Hamburgh, a choice grapes, and I now possess nea thousand seedlings produced by these several of which are of the most promis racter. Many of them are fruiting, and t so far as the appearance of the fruit and go, they far exceed my expectations. four of them at this date are really we the berries measuring from 3 to 34 i circumference, and not a speck of m them, while old varieties beside them pared by that disease; and this too is a

weeping winds of the north-west. On two see seedlings the fruit began to colour on the and 11th of August, earlier than the , Concord, Deleware or Hartford Prolific. is a great point gained, and they promise twice as large as the Isabella in berry and 41

native wild grape I procured from the tawa Creek is the only real August grape Its fruit is now quite black, e vet seen. s about the size of the Isabella. I have hybrids from this and the black Hamwhich will probably give fruit next year. , judging from the foliage, will prove of high grade. From the important results is obtained, I feel confident that my efforts troducing a new and vigorous family of class grapes will eventually be crowned necess.

Wu. H. REED.

## e Cultivation of White Mustard.

TOR CANADIAN AGRICULTURIST,-The re-I make, and which I trust will be granted, h the medium of your monthly issue, is, l a description of the growth of white nd as can be given-what soil most suitahat quantity of seed per acre-what a average crop would be, considered per whether any manufactories for purchase raw material, or if not, whether it would erect one, and what power would it re-In England it was a most paying crop, iption of it would oblige.

EDWARD C. GRENSIDE. on, County Halton, Sept. 1860.

shall be obliged to any of our corresis who will give an answer to the above Failing this, we shall endeavor to do elves when time will permit.]

Agricultural Intelligence.

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FOR SANDY SOILS .--- "Clay," said the of the Elements of Scientific Agriculture, id to be the most valuable application for ils possible; it consolidates them and hem to retain water and manure, and for cts of permanent improvement is worth ad for load, than manure."

rrespondent of the Boston Cultivator veral facts going to illustrate the above at, some of which we condense for our

Four years since he carted several loads a a bank of light sandy loam, upon which een impossible to obtain a sward, from , blowing character and situation. It

hunder inferior culture in an open exposed | was sown to barley and seeded down. Now the tion on the banks of the lake, exposed to clayed bank gives better crops than any portion of the field. A neighbor put on a piece of clear sandy land, a load of clay and a load of muck to each rod, and sowed to carrots. The product was five bushels per rod.

> The application of clay at the rate of fifty loads per acre has been known to so change the character of light friable sands, that the productiveness was kept far above that of similar land not clayed, for twenty years, and no doubt much longer, both bearing the same crops and receiving the same treatment. It was the opinion of Mr. More, who took the first premium on farms offered by our State Agricultural Society some years since, that tough, blue clay was of more value for sandy soils than the best stable manure, ton for ton, as he had proved by the application of both in large quantities. "Still," adds Mr. How-ard of the *Cultivator*, "there is much difference in clay in regard to its composition, and it would be advisable to ascertain its qualities by a small trial, before incurring great expense in its application." But no farmer who can conveniently obtain clay for his sandy lands should neglect such an obvious and valuable means of improvement.-Country Gentleman.

> FARM NOTES-IMPROVEMENTS ON THE MOLE PLOUGH.-S. A. Clements, of Chicago, writes us that he has made an improvement on the mole plough, by which he can lay down simul-taneously with the passage of the plough through the ground, a tubing of water lime cement that sets and forms a permanent drain tile in the ground at any suitable depth. Provisions are also made for having the grade perfect. Water has access to the pipe through fissures or perforations in the bottom of the pipe. He puts in this kind of drain, where stones or roots are not too frequent, at the rate of twenty-five to thirty cents per rod.-Michigan Farmer, May 26, 1860.

BARNS UPON SIDE HILLS .- Constructing barns upon side hills is a practice which is gaining favor among the best farmers in this country. Having once become acquainted with the sdvantages of such a location, we are sure no farmer would be willing to construct hic barns in any other manner, if this were practicable. The testimony of the Valley Farmer on this subject, is as follows:—"The most convenient arrangement for a stock harn is upon a side hill where the hay and grain may be carted in upon the upper story and pitched into the bays below. This arrangement saves a great amount of labor in hauling the feed for the stock. Another advantage of a side hill barn is, the manure may be deposited in a cellar below, where the whole of the liquid portion can be saved, and where the whole can undergo a degree of fermentation before it is exposed to the washing rains and the weather outside. Upon the lower ad and plowed under, and a light coating side, too, the cellar can be approached with the given on the surface, and then the land team and carts, and material added to the

manure heap to absorb the urine and add to the now we have the Binder. Sherwood's Gr. general stock, or to render the whole easy of access for hauling away. A barn thus arranged not only saves a great amount of labor in haul- have an opportunity to see it in operation. ing the hay, &c., in stacking and feeding, but the quality is greatly preserved by being housed at once after it is cured. Add to these advantages the still more important considerationthe comfort and thrift secured to the animals in consequence of the protection afforded from the storms of winter, and it will be found that no more profitable investment can be made connected with the farm than in the construction of a suitable barn."-Rural New Yorker, July 28. 

#### Buckwheat for Fattening Stock.

EDS. RURAL NEW-YORKER.-J. E. D. wants information regarding buckwheat as food for cattle, sheep, and hors, and to know if it makes as solid flesh as other grain. I can tell him. I have fattened many cattle, and far more sheep, on all, or part buckwheat for the last twenty years, and it will fat stock as well, for the same amount of pounds, as any other grain. Both sheep and cattle can stand higher feeding with it than any other grain, perhaps oats excepted; and I would much rather have half buckwheat meal than all corn meal to feed to three year old steers that have not been fed grain. As for the solidity of the flesh, I neither know nor care as long as it makes them fat.

A friend of mine last fall had about 350 head of sheep, and some cattle, which he must fat; oil meal not to be got, and corn high. He con-sulted me, and I advised him to buy buckwheat. He hesitated; said a gentleman once told him he fed buckwheat to his sheep and their wool came all off, and they got poorer. I told him what I knew; I was as sure I was right as any other man, having made as fat sheep with buck-wheat as I ever did with anything else, and never had any discase among them, and was confident it would be the same with him if he Well, he bought managed right otherwise. buckwheat, fed three bushels to the 100 sheep, daily, with straw for fodder and plenty for litter, and he made prime fat sheep, although many of them were lean when he commenced feeding. I have probably as fat a heifer as is in the State. Her feed was buckwheat bran, last winter and spring, and pasture only since the 6th of May.

Buckwheat is said to be poison to hogs. may or may not be, for anything I know, but I do know it is good to fat either cattle, sheep, or horses, and I further sayeth not.

Yours truly, JOHN JOHNSTON.

THE GRAIN BINDER.-The editor of the Rural New Yorker, lately taking an accursion in the country, says :-

Improvements stop only with man's necessity. The reaper was followed by the Self-Raker, and rate, and when furmers can obtain m

Binder we had seen at several State Fairs: never at work in the field, and we were git we wended our way to the farm of Mr. Nee the town of Chili. Here we found man practical farmers, who were somewhat inc lous, thinking it almost impossible to bid grain on the platform of the reaper, and reit as fast as cut. And yet, we believe allsatisfied on the trial that this, too, can bed As fast as the grain is delivered by the rak is bound by a fine wire and removed free platform in the very best condition for han and pitching; as by this system the grain not pass to the ground until bound, very lit scattered, and the binder has plenty of the bind and remove the sheaf before another: and ready for binding. A fair day's work good reaper is about ten acres, and it req at least four-binders to follow the machine with this binder one man does the work, ma of course, a great saving of labor.

# White Clover in Pastures.

The growth of white clover on soils r to its production, may be encouraged at moted by a top dressing of plaster and Its chief value is for pasture, as it is a dwarf a growth to give much of a hay en-writer in the Boston *Cultivator* says:is an advantage in pasturing white clover, does not strike every farmer Each joir nishes a fresh root, (and of course a fresh) whenever such joint comes in close contac the soil, consequently the more it is trodde thicker it will spring up. Hence, one why it grows most luxuriantly near the ba gateways of our pastures, where the cattle congregate." Many farmers have observ last mentioned fact, without getting hold reason thereof. The natural growth of t grasses, self sown upon all our soils, is a. of curious interest to the naturalist, and t mer observant of nature.-Maine Farm

# Horticultural.

## Gathering and Packing Fruit.

Now that many of the farmers in this: of the country grow more fruit than is: for home consumption, and some are de their attention to the production of fruit staple crop, a few hints on Gathering, P. &c., we know will not be unprofitable general thing, this work is done in a a clovenly manner, the main object seeming to cove time. This might have been well when the country was new, fruit ches labor scarce and dear; but now, when go if properly packed for shipping, will sells

macre in fruit than for five acres in any rerop, it is the very worst kind of economy. nel of apples of superior specimens, carehand picked, and packed so as to receive jury by shipment, will sell for more than barrels tumbled into barrels without selecor care. A very good article, by a correskany of our friends who have had experiin packing and marketing fruits, to give us Mr. Barry, in -nefit of their experience. "ruit Book, gives a very useful chapter on subject a part of which we copy :

This is a branch of the general subject of culture and management that requires the careful attention ; for it is quite useless to rains in producing fine fruits, without takequal pains in gathering, preserving, and ag them to the table or the market in a heightly, and proper condition. Very few growers seem to appreciate this part of business. Fruit dealers at home and abroad law of the careless and slovenly manner ich our fruits are gathered, packed, and sted in the market, and would gladly pay a le price for them in a better condition. The onsideration is:

e period of maturity at which fruits d be gathered .- The stone fruits generally lload to reach perfect maturity, or within the days of it, on the tree. In moist, casous particularly, they are benefited by gathered a few days before maturity, and ed to ripen in a dry, warm room; they with the water contained in their junces. thus become better elaborated and more y and high flavored.

mmer Pears, too, on the same principle, to be gathered, as a general thing, from to a fortnight before their maturity. starieties, and such as are inclined to bemealy, are entirely worthless when ripened thee, and many very excellent varieties adcanned on this account. Such as these by gathered the moment the skin begins age color in the least degree.

umer apples, too, and especially those int mealiness, should be picked early-as s the skin begins to change color, otherhey part with their juices, and become less. Ripeness is indicated by the seeds dark colored, and by the stem parting from the tree when it is lifted upward.

*der L pples and Pears* should be allowed am on the trees as long as vegetation is , or until frosts are apprehended.

pes, Bervies, &c., are allowed to attain maturity before being gathered.

e of Gathering .- Unless it be a few ens wanted for immediate use, which may en with come of the contrivances mengathered from chould be taken in one

one, with the other, with their stems attached. (For fruits neither keep so well, nor look so well, without the stems. They are then laid carefully in single layers, in broad shallow baskets, the bottom of which should be covered with paper or moss, to prevent bruises. Peaches and other soft fruits should be pressed as lightly as possible, for anything like a squeeze is certainly followed by decay in the form of a brown spot, and this is the reason why it is so exceedingly difficult to find a perfectly sound, and at the same time ripe, peach in our markets.

When more than one layer of fruit is laid in the same basket, some soft paper, dry moss, hay, or other material, ought to separate them, for it is difficult to place one layer immediately upon another, and especially if the fruits are approaching maturity, without bruising them more Fruit should o ly be gathered in dry or less. weather, and in the dry time of the day.

Disposition of the Fruits after Gathering. -When they are thus in the baskets, if summer fruits, they are either carried into the fruit room and arranged on shelves or tables in thin layers, or they are carefully transferred one by one into market baskets, and carried to market on an easy spring wagon, if not by steamboat or railroad, by which jarring or jolting will be avoided. Treated in this manner, they will be in a marketable condition, and one basket will sell for as much as four, carelessly picked, thrown into baskets, and tumbled out of them into a barrel or wagon-box.

Ripe fruits may be kept in good condition for a considerable period of time, in an ice-house, or in some of the recently-invented fruit preservers, and even in very cool dry cellars. The vessels in which they are deposited, should be perfectly clean, that no unpleasant flavor may be imparted to them. Peaches have been sent Peaches have been sent to the East Indies, by being properly packed in ice; and it may be that methods of packing and preserving will, hefore long, be discovered, that will give us access to the markets of other countries, even for our perishable summer fruits. We have seen Seckel pears in a very good state of preservation in January, exhibited in the Horticultural Society's rooms in Boston. The science of ripening and preserving fruits is but in its infancy, and Horticultural Societies that have the means will be doing a great public service by offering liberal premiums that will incite to experiment on the subject."

Want of space compels us to omit many things that we designed to say, but the subject will be resumed next week .- Rural New Yorker.

#### ~ ~~~~ The Cranberry.

We condense the following remarks on the cranberry from an article read before the Farmunder the head of implements, all fruits ers' Club, of New York, and published in the begathered by the hand. The branch Homestead, by J. C. Young of Long Island t-

Mr. Young states that his operations with the nd the fruits carefully taken off, one by cranberry since 1856, have demonstrated.

1. That cranberries will grow and do well though the vines are taken directly from the marshes where they grow wild.

2. That they will grow upon upland, and im mediately after it has been broken up.

3. That they will grow without manure, and without a wet sub-soil.

4. That they do as well without any artificial irrigation.

5. That they need a moderate amount of labor, to keep them clean and free from weeds and grass.

The vines when first planted were not thicker than a broom straw, and were taken from the edges and driest places of marshes adjoining, where they were growing wild. They are now as thick as a pipe stem, and the rows are a compact mass from ten to twelve inches in width. It is not yet determined whether it is best to leave a space between the rows or to allow them to cover the whole ground. The use of the scuffle hoe in cleaning the spaces between the drills, whilst it loosened the roots of many vines, seemed to give a new impetus to their growth. The land itself is a sandy, yellow loam, in which wells have to be sunk 57 feet to procure water, and there is no running stream within a mile and a half, so that all the watering and irrigation afforded depended entirely upon the rains. From the plot there was gathered last year 24 bushels. Another cultivator set out about an eighth of an acre in the spring of 1555, from which in 1856 he had half a bushel, in 1857, three bushels; in 1858, six bushels; and in 1359, sixteen bushels. Mr. Young himself set out another plot of about a fourth of an acre in 1855, from which in 1859, he gathered between twenty and thirty bushels, thus showing that his system gave certain returns of about the same amount at the end of three years. As a general rule it takes three years before a full crop can be realized from the setting out, and during this time the lot wants a certain amount of attendance.

Who among our Western cor spondents can tell us their experience in cranberry cultivation, either appen high or low lands? It is a subject on which there begins to be some enquiry, and on which we would like to elicit all important in formation. The wild cranberry crop of the present season is said to be large and very promising; and among the speculations of the day we would mention an enterprise put on foot by some of our citizens.

Col. Furchild, and others associated with him, have purchased some thousands of acres of the cranberry marshes of Juncau county, and are busily engaged at present in erecting the needful buildings, and making the rakes and other requisite fixtures for securing the growing crop, which they represent as promising very large. They are intending to make a permanent business of it, and count on large 'results. We certainly hope they may realize them, and we see no reason why they should not.— Wisconsin Farmer, Aug. 1.

# The Cultivation of Native Grape.

The following is Mr. E. A. Brackett's reto the Fruit Committee of the Massachus Horticultural Society, in relation to the cui tion of our native grapes. Mr. Brackett is of the most successful growers of the grap: this vicinity:

"To your request that I would commuto you my method of cultivating our m grapes, particularly the Diana, the nature  $f_{2}$ soil, system of training, &c., I cheerfully renot that I expect to throw any new lighter subject, or that my mode will be found to very materially from that of others. The  $\pi$ ing interest felt in this department, the certithat it must continue to occupy a promineasition in the horticultural art, assures met the experience of any one, however simpler be of service.

My little vineyard is situated on a sidel facing the west, and protected on the north beit of pine woods. I should have prefermore southern or castern aspect. The soil's no means what would be called a strong eccconsists of from four to six inches of turf me with a reddish subscil about two fret deep, ing upon a bed of blue gravel. Ir preparing the vines the ground was trenched two feetand the top soil put at the bottom. Sa eight feet long were then set at the distanset on feet apart each way; one vine was p ed to each stake, and immediately cut don two eves.

And here let me say a word as to the tin setting the vines. My experience is great, favour of fall planting. A vine set in the tumn (and it should be done as soon as the falls) will in three years be as strong as capable of beering a crop of fruit, as a five years old set in the spring. The tra of my vines is at once simple and ornanze. The first year two shoots are allowed to g and as they clongate, are carried spirally, in the same direction, about five inches a around the stake, and this is continued untireach the top. The laterals are allowed to at random. In the fall they should be gback to within eighteen inches of the gr and the laterals to one eye.

Second year, continue the two canes free two uppermost eyes, as directed in the first. The laterals will require summer pruning the fall cut back the canes to within eiginches of last year's wood. Continue this a until the vine is established the whole leng the post—whatever surmounts it, is to to "ack. The fruit is borne upon the side eiand the pruning is on the short spur sp The form of the vine may be shaped to the of the cultivator; that of the pyramid cidedly the best.

Those who understand the nature of  $tb^{i}$  will readily perceive the advantage this s offers. The vine is thus kept at home.

b and air circulate freely through it. The pruning at the time of the latest frosts and is break evenly; there is no tendency in one at: rob the other of its due proportion of sap, I show once e-tablished, requires less care nany other mode of training.

me of my vines, the first year after planting, e watered with sink-drain water, and being ifed that it injured them, I have disconad the practice, and have since root pruned m, in order to check too free a growth of Many of my neighbours injured their si. es by giving them large quantities of stimung manures, such as fresh stable manure, Thorses or other animal manure, thereby juing them to make an increased growth of zjointed wood. I grow my vines for the t and am satisfied if they make a few feet hort-jointed wood, and the only manure (if are it may be called) which I now give them top-dressing of anthracite coal ashes.

te Diana, with me, has proved a great er and free bearer; the bunches of good , and the berries large, some of them mea-ng seven eighths of an inch in diameter. It matter of surprise that this, the most de as of our native grapes, should have re-ed so little attention, while new varieties, ly inferior to it in point of flavor, have heralded as the greatest acquisition to our of hardy vines.

he past season has not been favourable to ripening of out dor r grapes."-Maine Far-

## to Prevent the Effects of Late Frosts on Grape Vines.

r. Delanque, the proprietor of a vineyard e Department of Derdogne, France, writes oliowing letter to the Journal of Prac Agriculture at Paris, which we translate ur readers :-

write conformably to your request, relato the practice adopted at the South-west, event the effects of late frosts on the grape You must note, bowever, that the vine-f this region are less injured by late frosts those of other portions of France that are elevated, and farther from the influence a sea, and consequently more exposed to mes of temperature. If we could so go it that the vines would only vegetate the late frosts, it would be evident that roblem of saving the crop would be solved. ay gain this end, if we select (not the late ues) but only the branches or shoots which stest in pushing forth their buds in the . This plan, however, can only be used risk of losing the best qualities of the made from the part, and cannot be gener-The influence of pruning, in this pplied. on the contrary, is constant and general. been found that we can retard very con-

when the upper buds or those at the ends of the branches have began to leave out, and have even been injured by frost, whilst the inferior buds in the lower part of the branches are as yet domnant and undeveloped. The cutting in of the long vine shoots, whilst in full growth, is evidently mutilation of the vine, which is sensibly felt, but we have, by this operation, succeeded in retarding the growth of the buds of the vine for a time, and rendered them safe from the effects of the late frosts, and consequently they are developed with great rapidity, at a time when the cold is not feared. But, you will probably ask, why this operation so simple, so old, and so efficacious is not employed everywhere and always? That is easily comprehended, when you bear in mind that it is materially impossible in a country exclusively vine-growing thus to prune all the vines in a few days, which must be the case, if the remedy is to be generally applied. Our mechanical appliances have not yet enabled us to lessen this difficulty. It results from this state of things that the vine-growers, the most convinced of the excellence of late pruning, are obliged to reserve for it only the vineyards of the highest value, and those most exposed to the effects of the late frosts; and this method succeeds perfectly. Reduced even to these modest propor-tions, the services rendered by this simple method are so great, that it is desirable it should be known and put in practice wherever it is as yet unused."

## Curiosities of Gardening.

A writer in the Quarterly Review says that gardening, as well as literature, has its curiosities, and a volume might be filled with them. How wonderful, for instance, is the sensitive plant which shrinks from the hand of man-the iceplant, that almost cools by looking at it-the pitcher-plant, with its welcome draught-the air trigger of the stylidium—and the carniverous Venus' fly-trap (Dionæa Muscipula) which is said to bait its prickles with something that attracts the flies, and then closes on and destroys them, and their decay is supposed to afford food for the plant. Disease is turned into beauty in the common and crested moss rose and a *lusus* naturæ re-produced in the hen-and-chicken daisy. There are phosphorescent plants, the fire flies and glow-worms of the vegetable king-There are the microscopic lichens and dom. mosses; and there is the Rafflesia Arnoldi, each of whose petals is a foot long, its nectary a foot in diameter, and deep enough to contain three gallons, and weighing fifteen pounds! What mimicry is there in the orchises, and the hare's foot fern, and the Tartarian lamb (Polypodium What monsters (such at least Baroneytz). they are called by botanists) has art produced bly the vegetation of the whole vine, by by doubling flowers, dwarfing and hybridizing

-"painting the lily"-for there are pink lilies of the valley, and pink violets and roses, and blue hydrangias; and "many others are now busy in seeking that philosopher's stone of gardening" the blue dahlia-a useless search, if it be true that there is no instance of a yellow and blue variety of the same species. Strange things have been attempted too, in gardening orna-There are waterworks like copper trees ments. to drench the unwary, and the Chinese have in the middle of their lawns ponds covered with some water weed that looks like grass, so that a stranger is plunged in over head and ears, while he thinks he is setting his feet on firm ground. In the ducal gardens of Saxe Gotha is a ruined castle which was built complete, and then ruined *expres* by a few sharp rounds of artillery ! Stanislaus, in the grounds of Lazienki, had a broad walk planted by pedestals, upon which living figures, dressed or undressed, after the manner of the ancients, were placed on great occasions. The floating gardens or chinampas of Mexico are mentioned both by Clavigero and Humboldt. They are formed on wicker work, and when a proprietor wishes for a little change or to rid himself of a troublesome neighbor, he has only to set his paddles at work or to lug out his towing rope and partake himself to some more agreeable part of the lake. We wonder that the barbarie magnificence which piled up mimic pyramids and Chinese watch towers and mock Stonehenges, never bethought itself of imitating these poetical Chinampas. It was one of Napoleon's bubble schemes to cover in the gardens of the Tuilleries with glass-those gardens which were turned into potato-fields during the first revolution, though the agent afterwards complained that the Directory never paid him for the sets! One of the most successful pieces of magnificent gardening is the conservatory at Chatsworth with a carriage drive through the centre, infinitely more perfect, though not so extensive as the covered winter gardens at Potemkin's palace at Tandria, near St. Petersburgh, which is a semi-circular conservatory attached to the palace, wherein the walks wander amid flowery hedges and fruit bearing shrubs winding over little hills, in fact, a complete garden autificially heated, and adorned with busts, statues and vases. When this mighty man halted in his travels, if only for a day, his travelling pavillion was erected and surrounded by a garden composed of trees, seats and statues, and divided by gravel walks. The gardens of the Czar are well described by Bayard Taylor, who was amazed to find on the banks of the Neva, amid the horrors of a Hyperborean winter, gardens glowing with all the luxuriance of a tropi-cal clime.—Detroit Tribune.

CATAWBA GRAPES.—George Hustman, well known as one of the most intelligent grape growers in Missouri, thinks the Catawba should be struck from the list as unworthy of cultivation, because it is superseded by better sorts.

# Veterinary.

CATTLE PLAGUE, OR RINDER-PEST .-- P the past century the cattle plague or ma has made fearful havoe ; in Germany alors 000,000 head of cattle were carried off hy: in the whole of Europe, including Russia, b clusive of Siberia and Tartary, upwards of The g 000,000 have died of this pest. symptoms of this disease, in its early stag said to be a husky cough, which is increase ticularly after the cattle have been water moved about; less inclination for food, b ence as to chewing the cud, duliness of the and its rough appearance in particular and fever after these symptoms have eefor some time.

CURE FOR COLLE IN HORSES.—E. II. of HORSTON COUNTY, Ga., advises (in the ern Field) simply to pour cold water on the of the animal for fifteen or twenty minures, the water on from the wethers to the long to run profiledly over the sides and stomad has seen it tried in fifty instances. It wi almost entire relief in one hour.

THE TREATMENT AND CURAMILITY C PLEURO-PNEUMONIA, Dr. Geo. H. Dadd August number of the American Stock J makes the following remarks relative disease which has been subdued in Ma setts, and very largely through his inst tality as one of the commissioners:

As regards the curability of this mal agree with our principal authorities, the is no uniform, nor reliable mode of tre known to science, and almost all surgee have treated, or experimented on the tre of the contagious or infectious pleurop nia, consider it an incurable disease. well known fact that many of the sub this malady are apparently cured, this fatten, and their carcasses are sold in E. markets: yet their lungs are seldom sound ; because, in the majority of case is found either altered structures, or less stance of the same. As but few path be restored to entire usefulness, it see the isolation of infected and exposed a the inoculation of those not diseased yet near infected regions; and extirpation: of emergency, are the best means of m this pest.

Because in ordinary pleuro-pneumonic cinal remedies, hygicale means, and if perative efforts of nature, conjointly of the case may be, are said to cure the nis inferred by some that the contagious: can also be successfully treated, but fathe contrary.

Should the disease, however, assume: form in this country, then it has in Euthe curable cases may be benefitted by cious system of modication; yet in the the malady will have its "run," as the

that I should attempt to do in the treatof this contagious malady would be to try in the patient alive while the disease was gits course; and the remedies are, pure maive medicines and good nursing.

> · ------Inquiries and Notes.

SPRINGHALT-COLDS IN HORSES.

ors RURAL NEW-YORXER,-1 would like where of you, or of some of your expe-readers, if there is any care for the ralt in horses, —if so, I should like to hat it is. Also, the best treatment for which has settled on the lungs of a -Subscriber, Rice Co., Minn., 1860.

sonart is an affection of the muscles in the great majority of cases, has given mans a large amount of trouble. In days it was looked upon as a disease is: in, and effecting only the organs of but it is now considered as ansing in cons system, and practitioners acknowheir inability to treat it medicinally. mach will take in and digest remedial but to make them reach the brain, and us filaments, is quite another matter. sally, however, this disease is induced minor derangement, and then we may ally treat it by removing the morbid comoting it, which will be accomplished ring the general health of the animal. espringhalt exhibits itself suddenly, Dr. commends that the horse he permitted for m such case it is natural to suspect w injury, resulting from a blow or is been done to the nerves of voluntary

When this is the condition, cold water around the body, rest, light diet, 2 medicines, with an oceasional light subartics, to clear out the bowels, will ted. Fomentations and light friction ssmolie liniment may be found of assistance. In chronic cases of long all hopes of recovery may as well be al. Should the patient, however, be of debility, the general health may be , and the spine should be daily rubbed unbrocation aclculated to restore terry. For this latter purpose, take ", one pint; spirits of hortshorn, two "re mustard, half an onnee. As a take powdered golden seed, powdered cream of tartar, and charcoal, one each, and one-half ounce of assafocr, divide into eight parts, and give one I morning and evening.

e skuuk cabbage and caraway seeds, | pan.

d like ship fever, typhoid fever, or the (all powdered,) four ounces of each. The dose pex. will dely our attempts to " cut them is half an ounce, twice daily, given in gruel. If the cough is one that remains after the disappearance of some pulmonary disease, such, for instance, as catarrah, influenza, &c., take balsam of fir, one ounce; sweet spirits of nitre, two ounces; sirup of garlie, four ounces. Dissolve the balsam in the nitre, then add the garlic. Dose, one ounce, night and morning; given in mucilage or thin gruel.-Rural New Yorker.

## Medical Qualities of the Carrot.

Stewart, in his excellent work on Stable Economy, says, "Not only do carrots give strength and endurance to sound horses, but also give recovery and health to such as are There is nothing better, perhaps none so sick. good. When first given, they are strictly dinretic and laxative, but us the horses become accustomed to them, these effects cease to be produced. They also improve the state of the ekin. They form a good substitute for grass, and an excellent alterative for horses out of condition. To sick and idle horses they render corn unnecessary. They are beneficial in all chronic diseases connected with breathing, and have a marked influence on chronic cough and broken wind. They are serviceable in diseases of the skin; and in combination with oats, restore a worn horse much sooner than oats alone.

# Domestic.

#### Receipts.

YOUNG CORN OMELET .- To a dozen cars of fine young Indian corn, allow five eggs; boil the corn a quarter of an hour, and then, with a grater, grate it down from the cob; beat the eggs very light, and then stir gradually the grated corn into the pan of eggs; add a small salt-spoonful of salt and a very little Cayenne; put into a hot frying pan equal quantities of lard and fresh butter, and stir them well together over the fire; when they boil, put in the mixture thick, and fry it, afterwards browning the top with a red hot shovel or a salamander; transfer it when done, to a heated dish, but do not fold it over. It will be found excellent. This is a good way of using boiled corn that has been left from dinner the preceding day .- Maine Farmer.

TO MARN SOFT GINGER BREAD.-6 teacups of sugar, 1 of cream, 1 of butter, 2 of molasses, 3 eggs, 3 tablespoonfuls of ginger, 1 teaspoonimple cough the following compound ful of soda, 2 of cream of tartar and 5 cups of ended:-Slippery elm, Indian turnip, flour. Stir it well and bake in a shallow tin ful of soda, 2 of cream of tartar and 5 cups of

To MAKE GINGER POUND CAKE.-Cut up in | He, forsooth, a city merchant, a "razor gipan three-fourths lbs. of butter, and a tea cup | er," has dared to intrude into the time-halk a pan three-fourths lbs. of butter, and a tea cup of brown sugar, mix with a pint of West India molasses; then stir them well together. Sift into a pan a pound of flour; in another pan beat five eggs; add gradually the eggs and flour to the mixture of butter, sugar and molasses, with two large table spoonfuls of ground ginger and flour of ground cinnamon. Then stir in a glass of brandy, and a small teaspoonful of saleratus melted in a very little milk. Stir the whole for some time. Then add a pound of Stir the raisins dredged with flour. Transfer the mixture to a buttered tin pan and bake from two to three hours.

# Miscellaneous.

#### Mr. Mechi and the Hounds.

For the last two months nothing has been heard in the agricultural world but a perfect storm of abuse against Mr. Mechi. Go where you like, you hear the foulest aspersions made upon his motives and his character, and our agricultural papers fill column after column with sarcasm levelled at his statements. We have Mr. Bond, for instance, shrewd enough, we imagine, to know that Mr. Mechi's self-respect forbids him to accept his insulting challenge, making a gratuitous show of his philanthropic generosity. I think by this time the public are sufficiently aware that Mr. Bond has £300 to devote to charitable purposes. Any one not acquainted with the true nature of this tempest would naturally think that poor Mr. Mechi has singularly disgraced himself, and rendered himself guilty of a very heinous offence. But, after all, what is Mr. Mechi's crime? He has merely directed the extraordinary gifts of his mind and his devotedness to the cause of progress towards He has waged a agricultural improvements. war to the knife with the most inveterate of prejudices-those of the agricultural classes. He has shown that by a judicious application of capital employed in removing old uses and abuses, and establishing means suggested and corroborated by the discoveries of modern science, twice as much profit could be realised by agricultural enterprise as the upholders of routine are wont to get. For many years he opened to all comers the treasures of his hospitality, he showed his crops to all, opened his books for their inspection, published his balance sheets, did, in fact, everything that the most in-quisitive can demand short of impertinence, to prove the soundness of his views. The fact that his detractors came smiling to his hall with foresworn but concealed enmity, quaffed his wines and drank his health, and then skulked back to their abodes to forge shafts of abuse, leads to this inevitable conclusion-that all the opposition raised professedly against Mr. Mechi's agricultural theories is intended against the man. | after a moment or two had elapsed.

er, and venerable precincts of the agricultural terest, and not content with spending hism; as he lists, he has been so hold as to tell Mistresses Gamp of agriculture that theirwere not what they ought to be, that they too many wooded hedges on their farm, much water in their clays, too many week their stubbles, too much waste in their ? heaps, too much foulness in their byres, to: tle brains in their scull, and, consequently, little money in their pockets. And for the all these wholesome truths, certainly not covered by him, he is placed upon their he has become a marked man for that spec bitter persecution and abuse which is the of bigotry. Are we, then, to conclude money cannot be gained by agricultural suits? Have no fortunes been realised by ing? Are the tenant farmers of this con such a state of poverty and want as to w the assertion that when Mr. Mechi says # bas realised in his two-fold position of la and tenant a net return of a little more th per acre, the statement is incredible? Mr. Mechi the only man that has ever ob it? Really, Mr. Editor, I have no he continue the consideration of this truly dr ful subject and I venture to express the: hope that this ungenerous persecution amiable and estimable man will at last o an end, and remove from the character e ish agriculture that stain of bitterness and which certain busy bodies would fain affi her hitherto glorious and honourable fa LOVER OF FAIR PLAY, in Gardener's Ch

#### Can't Cook.

It is a sad defect when young ladie capable of directing their own servants. without soles, or wristbands without a s not more useless than one of these. C shortly after his marriage, a young z went home, and seeing no dinner ready, wife appearing anxious and confused, a "What's the matter?"

"Nancy went off at ten o'clock this m replied his wife, "and the chambermai no more about cooking a dinner than in the moon."

"Couldn't she have done it under ye tion?" inquired the husband, very cool

"Under my direction? I should like dinner cooked under my direction."

"Why so?" asked the husband in "you certainly do not mean that yo cook a dinner?"

"I certainly do, then," replied : " How should I know anything about e

The husband was silent, but his l tonishment perplexed and worried his

"You look very much surprised,"

i as I should be at finding the captain of of my ships unacquainted with navigation. don't know how to cook, and the mistress family! Jane, if there is a cooking-school where in the city, go to it, and complete education, for it is deficient in a very imat particular.

us.-The principal constituents of milk are or oily matter, casein or cheese, sugar, matters and water. The proportion of , as a general rule, that milk which pre-more than 87 per cent of water is of inquality; on taking the average proportion singredient according to the different anait is found to be 86.8 per cent. If S7 per an be assumed as the standard, a very process will, in many cases, be sufficient eet the degree of dilution to which the has been subjected by fraudulent persons. nate 100 grains to dryness; ascertain the om which deduct 87; the difforence, then, hed by 100, and divided by 13, will give centage of added water, thus :--Suppose sins to lose, on evaporation, 89.6 grains; 9.6-87=2.6, and 260 divided by 13 gives cent of added water .- Scientific Ameri-

iso HENS .- We observe a recent notice paper, of the practice of making woolis (or rather boots) to prevent hens from ing. A flock of fifty fowls, like our own, equire considerable labor in the manuof a hundred woollen boots, which might through in a short time and need re-It is much better we think, to procure There is another that will not scratch. f importance-that is to keep the ani-

I fed, during the season when scratch-tost feared. We keep from thirty to he White Shanghai,-a very quiet, well and profitable fowl,-and adopt the nomical mode, namely, regular feeding in,-and although there is no barrier their ordinary range and the kitchen they do not scratch yearly enough to do re cents damage. - Country Gentle-

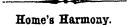
A LADIES .- I think it is not natural which makes me believe that a highlish lady is the most complete of all subjects in this world. In whom else e so much grace, and so much virtue; faith, and so much tenderness; with affect refinement and chastity? And ted ladies I don't mean duchesses and Be they ever so high in station, te but ladies, and no more. But alman who lives in the world has the let us hope, of counting a few such nongst his circle of acquaintance-

and so I am," he answered, "as much sur- I thing awful, as well as beautiful, to contemplate ; at whose feet the wildest and fiercest of us must fall down and humble ourselves, in admiration of that adorable purity which never seems to do or to think wrong.-Literary Magazine.

ROLLED IN MONEY .- Czechtitzky, celebrated at Berlin as an actor and billiard-player, when he could not any longer find persons to play with him, he took to card playing, in which he got equally skilled and won enormous sums of money. It is related of him by Varnhagen that is anable in different milks, but it may be in order to revise the expression, "Sich im , as a general rule, that milk which pro-Golde walzen" (rolling in money,) he covered his floor with gold pieces, and, in the presence of witnesses, absolutely rolled about upon them in a state of nudity. Fortune forsook him at length, and he used to beg persons to spit in his face; for though he had rolled in money, he had lost it all .- Humboldt's Letters to Varnhagen Von Ense.

> MAKING-UP APPEARANCES .--- Among other items of key-hole knowledge, we discovered that every day, about dinner time, our neighbours had a table set out in their parlour, with clean damask cloth and napkins, pieces of bread, sil-ver-forks, spoons, casters, &c., handsome wineglasses and goblets, and all the paraphernalia of a very genteel dinner equipage. The table stood thus during an hour or more; so that if visitors came in they might suppose that the family were preparing to sit down in style comme il faut. But to this table they never did sit down; for when the time of exhibition had elapsed, all the fine things were taken off and carefully put away for a similar show the next day, and the next. Meanwhile (as we found by reconnoitring through the kitchen key-hole.) the Portuguese family all assembled in the place where their food was cooked; seated themselves on the floor round a large earthen pan filled with some sort of stew; and each dipped in a pewter spoon, and fed out of the same pan.-Autibiographical Recollections; by the late Charles Robert Leslie, R. A.

SIR MATTHEW AND SAINT MATTHEW .- Sir John Germain was a mere soldier of fortune. who came to England from the Low Countries, and made his fortune by wives. He first married the Duchess of Norfolk, and after her death (1705) he married the celebrated Lady Betty Berkeley, sister of Earl Berkeley. He was so extremely ignorant that he thought St. Matthew's Gospel was written by Sir Matthew Decker. Lord Orford once asked Lady Viscountess Fitzwilliam, who was Sir Matthew's daughter, whether this strange story was true. She was a very cautious, prudent woman, spoke very slow, and not without a good deal of deliberation. She assured him it was, and mentioned as a confirmation of it, that Sir John at his death left Sir Matthew £200 to be disposed of among his poor countrymen in London, having the greatest confidence in his honest execution of the trust, whose angelic natures there is some | as he had already given the world such a proof of his piety in having written St. Matthew's Gospel.-Prior's Life of Malone.



The tark may sing her sweetest song. As rising from the waving corn, On soaring wings, she skims along To welcome in the rising morn : Her sweetest song is nought to me, Compared to home's sweet harmony.

Deep in the woods, the aightingale, At midnight hour, may tune her isy, May pour upon the list ning vale Her lovliest streams of melody : Lovely her midnight lay may be, But loylier home's sweet harmony.

Sweet are the songsters of the spring. And of the summer's sumy days, And autumn's feathered warblers sing In rapturous strains their sweetest lays ; Lovely the songs of bower and tree, But lovlier home's sweet harmony.

But O, what cheers the winter's night, When all around is dark and gloom, When feathered songsters take their flight, Or fill a gloomy little tomb? 'Tis at such hours as these that we Prize most our home's sweet harmony.

O, when dark clouds above us lower, And life's drear winter o'er us comes,

'Tis then we feel your magic power Ye songsters of our hearts and homes : For soon the lowering clouds do flee From our dear home's sweet harmony.

THE FIRST ROBERT PEEL.-When Robert Peel, then a youth, began business as a cottonprinter, near Bury, he lodged with his partner, William Yates, paying eight and sixpence per week for beard and lodging. "William Yates' " William Yates' eldest child," says our author, "was a girl named Ellen, and she soon became an especial favorite with the young lodger. On returning from his hard day's work at "The Ground," he would take the little girl upon his knee, and say to her, "Nelly, thou bonny little dear, wilt be my wife?" to which the child would readily answer, "Yes," as any child would do. "Then I'll wait for thee, Nelly ; I'll wed thee, and none else." And Robert did wait. As the girl grew in heauty towards womanhood, his determination to wait for her was strengthened; and after a lapse of ten years-years of close application to business and rapidiy increasing prosperity-Robert Peel married Ellen Yates when she had completed her seventeenth year : and the pretty child, whom her mother's lodger and her father's partner had nursed upon his knee, became Mrs. Peel, and eventually Lady Peel, the mother of within a foot of the ground. Many c

the future prime minister of England, Peel was a noble and beautiful woman, grace any station in life. She posses powers of mind, and was on every ener the high-souled and faithful counsellor husband. For many years after their m she acted as his amanuensis, conduct principal part of his business correspo-for Mr. Peel himself was an indifferalmost unintelligible writer. She diedin only three years after the baronetcy ha conferred upon her husband. It is si London fashionable life-so nulike what been accustomed to at home-proved if to her health; and old Mr. Yates was after accustomed to say, "if Robert hadn't r Neily a Lady, she might ha been living

CHINESE SALUTATIONS .- The salute tween two Chinamen when they meet, in each clasping and shaking his ove instead of each others, and bowing v foundly, almost to the ground, seven A question more common than "Hor do ?"-is "Have you eaten rice ?" Th the great article of food throughout the and forming the chief and indispensable every meal-it is taken for granted that have "eaten rice" you are well. requires that in conversation each she pliment the other and everything belo him, in a most laudatory style; and d himself with all pertaining to him, tot possible point. The following is not tion, though not the precise words:

"What is your honorable name?" "My insignificant appellation is Wr "Where is your magnificent palace "My contemptible but is at Suchan "How many are your illustrious ch "My vile worthless brats are five."

"How is the health of your dis. spouse ?"

" My mean, good-for-nothing old well."

THE SEVENTEEN YEAR LOCUSTS .been said about the harmlessness of custs, which we were disposed to pr Their history, undoubtedly, is a wond the most striking, indeed, in the who! insect life; but recent observation has us to put them in the same categor curculio, the wheat fly, the cut worm destructive pests, to be destroyed with The woods in some portions of New J as if a fire had passed over them. Th ing of the Locust is not confined to wood of the present year, as is general we have seen innumerable instance wood two, three, and four years old also seen hundreds of young pears, a mental trees, shrubs, &c., completel, them, the incisions, in many of the y being carried down the body of t.

dead others were dying, and the probability the bottom. The water is now poured off and t young trees will be entirely destroyed. the gold washed until all the honey is removed, 'erable.-Horticulturist.



BY BERANGER, THE FRENCH POET.

ugh hardly worth one paltry groat, and dear to me, my poor old coat: full ten years my friend thou'st beenfull ten years I've brushed thee clean : now, like me, thon'rt old and wan ; h both the glow of youth is gone; worn and shabby as thou art, and the poet shall not part, Poor coat.

not forgot the birthday eve n first I donned thy glossy sleeve; n jovial friends in mantling wine k joy and health to me and mine. indigence let some despise, e dear as ever in their eyes: for their sakes, old as thou art, and the poet shall not part, Poor coat.

evening, I remember yet, ping, feigned to fly Lisette ; trove her lover to retain, by frail skirt was rent in twain. girl, she did her best endeavour, atched thee up as well as ever. er sweet sake, old as thou art, and the poet shall not part, Poor coat.

, my coat, hast thou been found ug thy shoulder to the ground, any upstart "Lord" or "Grace" g a pension or a place. orest flowers-no monarch's dolethy modest button-hole; for that, old as thou art, and the poet shall not part, Poor coat.

hough we be, my good old friend, ld shall bribe our backs to bend : t amid temptations past, Il be honest to the last; ore I prize thy virtuous rags ill the lace a courtier brags; hile I live and have a heart, ad the poet shall not part, My coat.

iss.-Take some leaf-gold and white d grind them together upon a marble the gold is reduced to an impalpable The paste now formed is agitated in lass tumbler with soft water, which the honey while the gold falls down to

vo soon to speak confidently of the extent after which the gold is dried and then suspended injury sustained, but it will no doubt be in a mucilage of gum arabic. It is now used for writing upon paper, and when it becomes dry it may be burnished and rendered brilliant. Silver ink is prepared in the same manner, by substituting silver leaf for the gold. Gold is also obtained in powder by dissolving nitro-hydro-chloric acid (aqua regia), which is called the terchlorido of gold. When crystallized, this is soluble in water, alcohol and ether, and may be used for gold ink by adding a gum mucilage to the water or alcohol in which it is dissolved. Metallic writing fluids of different colors can be made by mining bronze powders in gum mucilage.-Scientific American.

> In the Gulf of Manear (Cevlon) turtle are frequently found of such a size as to measure five feet in length. Sir Emerson Tennant states that, in riding along the sea-shore one day, he saw a man in charge of some sheep, who was resting under the shade of a turtle shell which he had erected on sticks to shield him from the rays of the sun.

> Great quantities of what is called "patent fuel" are manufactured and employed in England, principally on steamships. It consists of the small or fine bituminous coal pressed into square blocks, and rendered adheisive by bitumen. It can be stowed away in less space than the shapeless lumps of common coal, and it is therefore preferable for long voyages.

> LARGE TILE OPERATIONS.—Messies. C. & W. McCammou, of Albany, N. Y., sold in nine months from the first of April, 1859, 1,000,000 of drain tiles. They are now preparing to make 2,000,000 in the present year. They will use a new machine, of their own invention, which will greatly facilitate the process of man-ufacture; it will first crush all the clay, rendering it of equal fineness and consistence, and then discharge it directly into the tile mill.-They can burn 150,000 tiles at once, in one kiln. All the tiles used in the New York Central Park are made by Messrs. McC.

> A Pic Story .-- A farmer out west, was last summer, much annoyed by one of his sows breaking into the corn field, and as he could find no hole in the rail fence he was at a loss to imagine the mode of her entrance. By concealing himself in the field however, one night, he discovered that it was effected by means of a hollow log, through which she would crawl, one end opening on the inside, and the other on the outside of the enclosure. Accordingly after having driven her out once more, the gentleman so arranged the log (it being very crooked) that both ends opened on the outside of the field. When the animal entered the accustomed place the next day and upon emerging found herself in the same field, her astonishment was ludicrous to behold. She again entered the log and again emerging on the wrong side evinced even more

surprise than Lefore. At length finding all her efforts in vain she uttered a short angry grunt of disappointment or four, turned short around and started off on a brisk run, nor could either coaxing or driving ever induce her to visit that part of the field again.

MAPLE SUGAR .- The Scientific Artisan contains the following brief, but excellent suggestions, relative to sugar-making :---- It is impossible to make good maple sugar unless the sap is boiled soon after it runs. If it is allowed to sour in the least the iron vessel in which it is boiled will darken the color of the sugar, giving it a disagreeable taste, and very injurious to the health of those who use it. Never allow the san to burn on the top of the kettle, and every time you fill it up wash it off. You can remedy this by setting your kettle in an arch, leaving a part of your kettle down as low as the line of division between fire and no fire. Never allow your syrup to stand over Make your syrup so thick that one quart night. will make one pound of sugar, and let it get perfectly cool before you sugar off. Stir in a little milk; then keep it over a moderate fire until it is skimmed, and be careful not to ham it afterwards. Stir the sugar while it is cooling, or until perfectly dry. Never nour hot sugar into wooden vessels."

TARRING POTATO SETS.—At a recent meeting of the New York State Agricultural Society, Hon. A. B. Dickinson said he had not sown or planted anything for ten years without a coating of uar, and in planting his potatoes he dissolved one pint of tar in three pails of boiling water, and added four pails of water afterward. This solution he poured over his seed and mixed it with them, and covered with plaster.

The TWIST OF TREES IN THE DIRECTION OF THE SUN —A correspondent of the Scientific American says:—<sup>10</sup> It seems to be a new idea to you that the twist of trees generally turns in the same direction as the sun. My observation has been more particularly upon pines. Chip a pine at the stump height, and if it twists or winds with the sun, leave it, for it will not do for shingles; the higher up you try it, the more you will find it to wind. On the contrary, if it winds against the course of the sun, the twist will run out in some ten feet, and the grain then either continues straight to the remander of the length, or, perhaps, even turns and winds with the sam, near the top of the tree. This is a fact which is no less true than carious."

THE UNIVERSAL METAMORPHOSIS.—If a water be laid on a surface of polished metal, which is then breathed upon, and if, when the moisture of the breath has evaporated, the wafer be shaken off, we shall find that the whole polished surface is not as it was before, although our again upon it the surface will be moist everywhere except on the spot previously sheltered

by the water, which will now appear as as tral image on the surface. Again and an breathe, and the moisture evaporates, be the spectral wafer reappears. This exter succeeds after a lapse of many most the metal be carefully put aside where a face cannot be disturbed. If a sheet of on which a key has been laid be except some minutes to the sunshine, and thear taneously viewed in the dark, the key les moved, a fading spectre of the key will be Let this paper he put aside for ble. months where nothing can disturb it, and in darkness be laid on a plate of hot med spectre of the key will again appear. case of bodics more phosphorescent than the spectres of many different objects which have been laid on it in succession w warming, emerge in their proper olde. is equally true of our bodies and of our We are involved in the universal metaz Nothing leaves us wholly as it for sis. Every man we meet, every book we read picture or landscape we see, every word. we hear, mingles with our being and mol There are cases or record of ignoranty in states of insanity, uttering Greek a brew phrases, which in past years the heard their masters atter, without, of comprehending them. These tones has been forgotten ; the traces were so faunder ordinary conditions, they were in but these traces were there, and in the light of cerebral excitement they star prominence, just as the spectral imagine key started into sight on the application It is thus with all the influences to a are subjected.-Cornhill Magazine.

DRUNKENNESS IN WINE GROWING COL In Europe you see many things wh Take the use strange to an American. If I am right, the Europeans consur 6.500.000 gallons of wine. In Frax out of account the pasture land while ploughed, and the forests, of the actu land one-third is devoted to the cuits grape. Yet there are immense distric no wine can be raised at all. I see its the government returns make it appear people of France drink 850,000,000; wine, and the calculation is that the: not much less than 1,000,000,000 ! Y believe, in the year 1859, there was drunkenness among the 39,000,000 France as among the 3,000,000 of Y New Lagland! I have been four r Rome ; there are wine shops everywh out doors from three to six hours a have never yet seen a man drunk : nov one is merry, never intoxicated. The Italians, French, &c., are quite temper drink their weak wine with water, and take liquors, it is only a little glass (which does not make a spoouful.)

d drink rum and water, gin and water, &c. sive drinking is not to the taste of the peo-In the north of Europe, and even in erand, it is not so. The English, without from the Irish and Scotch, drink about 600 6000,000 gallons of beer every year, not sk of the wine, spirits, &c., they take to it down withal. There is drunkenness. So rd it in Scandinavia, in Holland, in North ary. How do you think the Americans ule the question? Certainly not by taking to water, tea, coffee, &c. We shall more beer, perhaps, return to the making 'er, and certainly plant vines where they row. Drunkenness is such a monstrous hastly evil, I would do almost anything to fof it. But I sometimes think we have the wrong track. I am glad to see the e law introduced to the New York Legis-, and think it will do more good than our lagland scheme of prohibition by force.from an American in Europe.

r.--A popular preacher tells a good a hit at those kind of preachers who pindolent to pursue the duties required of by their faith. He says that one pious man composed a very fervent prayer to mighty, wrote it very legibly, and affixed muscript to his bed post. Then, on cold he merely pointed to the document, and, he words, 'O Lord! them's my senti-" blew out the light and nestled amid the

ELIC OF THE PAST .- An English paper at James Cooper, who was coachman and l attendant of the first Napoleon in St. is yet alive, and, in his eightieth year, gat Plumstead. He has no pension, and struggle hard "to keep the wolf from the

. Dolson, Esq., of Raleigh, County of breshed 583 bushels of wheat off 13 acres; es an average of forty-five bushels.

**=**111

WAY OF TYING HORSES-Travellers on tern prairies, who can find no trees or o hold their horses, may, perhapsi learn ag from the ingenuity of the Icelanders ating horses from straying, which, I is entirely peculiar to this island. Two en. for instance, are riding together attendants; and wishing to alight for oese of visiting some object at a distance a road, they tied the head of one horse il of the other, and the head of this to of the former. In this state it is utterly ie that they can move on, either back-forward, the one pulling the one way other the other; and, therefore, if dismove at all, it will be only in a circle, then, there must be an agreement to t heads the same way.

LETTER FROM THE LATE SIR R. PIEL TO CHE-VALIER BUNSEN .- The following letter, which was addressed twenty years ago by Sir Robert Peel to Chevalier Bunsen, is published in a biography of the great statesman, written by Herr Kunzel: "My dear Herr Bunsen,-The only purpose of this is to invite you to dine with me and Herr Cornelius on Friday next. I assure you that whatever attention I may have paid to this distinguished artist, I am abundantly rewarded by the satisfaction which I derive from his personal acquaintance. He is one of a noble people, distinguished alike in every art of war and peace. The ultimate union and the patriotism of this people, spread as it is over the centre of Europe, will offer the best guarantee for the peace of the world, and the most powerful check for the propagation of doctrines, pernicious alike to the cause of religion and order, and to that freedom which respects the rights of others. It is my earnest hope that every member of the illustrious race, while he loves the country of his birth, will extend his devotion beyond its frontiers, and pride himself upon the name of a German, acknowledging the common fatherland to be entitled to the love, affection, and patriotic exertion of all its sons. The sentiments of every German are, I hope, correctly estimated by me, when judged from those awakened in my breast-the breast of a stranger and a foreigner-by a simple song, which seems to concentrate within itself the will of a powerful nation-a song which proclaims in enthusiastic words-

> 'That they shall have it, The free German Rhine !

No, they shall not have it, and the Rhine will be protected by a song so long as the feelings inspired by that song are glowing in every Teutonic heart. But you will believe me a regular German if I go on in this way. If cordial wishes for the union and welfare of the race can give me a title to that name, I am one. Believe me, my dear Herr Bunsen, &c,-ROBERT PEEL."

# Editorial Notices.

÷-

OUR LAST NUMBER .- We regret the delay which occurred in the issuing of our last number. It was owing to the paper maker having, "and emergency :-- The Icelanders have by an oversight which we had no reason to anti-urious custom, and a most effectual one finate, failed to supply the proper quantity of cipate, failed to supply the proper quantity of paper. The delay in issuing the last number, together with the intervening of the Provincial Exhibition, has also caused some delay in the appearance of the present number.



ADDISCIONATIONICULTURAL SOCIETY.—The annual extra step of the County of Addington Agricultural Society for 1860, will be held in the village of Newburgh, on Tuesday, October 9th. J. B. Aylsworth, Secretary.

# Markets.

#### TORONTO MARKETS.

#### THURSDAY, Sept. 15, 1860.

To-day the Wheat market still showed signs of decline, and upwards of 4,000 bshls changed hands at \$1 20, that being the current figure of the day—the range extending from that to \$1 16. The average price for the day was \$1 19 per bushel. There has not been much buoyancy on the market. Barley—was very active although a little casier at os to 71c, the current rate being 70c per bushel. Spring Wheat—was hardly so brisk, and \$1 was the prevalent figure for the ordi ary sample. Peas—in good request at 60 to 63c, sometimes 65c per bush. Onts—are steady at 25 to occ per bush. Other things are unchanged.

#### NEW YORK MARKETS.

#### NEW YORK, Sept 15.

FLOUR-Heavy and 5 to 10c lower; sales, 19,-000 brls at \$512 to \$520 for superfine State; \$535 to \$556 for extra State, \$512 to \$520for superfine Western; \$540 to \$565 for common to medium extra Western; \$550 to \$570for inferior to good shipping brands extra round hoop Ohio.

CANADIAN FLOUR-Dull and drooping: sales 350 brls at \$5 40 to \$7 50 for extra.

RYE FLOUR-Steady at \$3 50 to \$4 40.

WHEAT—A shade firmer with a moderate export demand, chiefl. to complete freight engagements and to fill old orders previous to the arrivol of the Europa's mails; sales 50,000 bshls at  $\xi$ 1 17 to  $\xi$ 1 19 for Chicago Spring;  $\xi$ 1 23 for Muwaukie Club;  $\xi$ 1 27 to  $\xi$ 1 30 for Winter red Western;  $\xi$ 1 30 tor red State;  $\xi$ 1 32 to  $\xi$ 1 40 for white Ohio and Indiana.

RYE-Quiet at 78 to 80c.

BARLEY-Scarce and firm ; sales I 500 bshls of Canada East at 85c.

CORN—Better with very limited offerings; sales 21,0 0 bshls at 67 to 68c.

OATS-Heavy and lower; sales at 37 to 39c for Western, Canadian and State

PORK-Firmer for mess; sales 1,100 brls at \$19 for old mess; \$19 10 to 19 30 for new mess;

 3 25 for old prime; \$14 to \$14 30 for new. BEEF—Steady; sales 250 brls.
AAD—Dull; sales 300 brls at 12 to 134c.
BUTTER—In fair request at 124 to 16c for Ohio;
1 = 10 20c for State.

#### BUFFALO MARKETS.

#### BUFFALO, Sept. 15.

WARAT-Closed firm and no sales after Eastern co-patch; sales 12,000 banls of new Chicago ; pring at \$1; 11,000 bahls choice do \$1 01; t so 0 bahls red Winter at \$1 12

Cons-Quiet and no sales.

DATS-Steady.

BARAEY-Firm ; sales 2,000 bshls at 75c.

# PROVINCIAL EXHIBITION

#### TO BE HELD AT

#### HAMILTON,

#### ON THE

# 18th, 19th, 20th & 21 SEPTEMBER, 1860.

Entries of articles for Exhibition, excer Horticultural Products, Ladies' Work and i eign Products, must be forwarded to the & tary's Office, Toronto, on or before Septer 1st.

Horticultural Products, &c., may be env till the evening of Monday, 17th, when books will be closed.

Entries, as above stated, will be receive Toronto, till the evening of Friday, Septer 14th, and afterwards at Hamilton.

Prize Lists and Printed forms of Entry, taining .ull information, may be obtained & Secretaries of Agricultural Societies, or Me nics' Institutes, throughout the Province.

Articles for Exhibition must be placed in Crystal Palace, or on the Grounds, on Mo-17th, except Live Stock, which must bet not later than Tuesday, at noon.

Exhibitors must themselves provide for forwarding of their articles, and placing in the grounds.

HUGH C. THOMSON Secretary Board of Agrice

BOARD OF AGRICULTURE OFFICE, Toronto, August 24, 1860.

AVRSHIRE CATTLE — Patrick R. Wright, Cobourg, C. W., breeder of Ayrshire & Sheep, &c., has several young Bulls and H for sale. His herd is well known as onec best in Canada West, and his terms of sa liberal.

Full Pedigree of all animals-U. C. C. Register.

# The Agriculturist,

OR JOURNAL AND TRANSACTIONS OF THE 1

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