# PAGES MISSING



### VOL. XXXIII.

### LONDON, ONT., AND WINNIPEG, MAN., JUNE 15, 1898.

### EDITORIAL.

The British Board of Agriculture issued an order, taking effect on June 3rd, prohibiting the importation of swine from the United States.

Letters were recently read in the Canadian Parliament, asking, on behalf of several hedge-fence companies, that honey locust plants be allowed to come into Canada upon previous inspection in the United States, which cannot be done under the San José Scale Act. The application was not entertained, the Minister of Agriculture stating that the honey locust plant was peculiarly susceptible to the scale. If, after a year's experience, he found that anything could be done in the direction suggested, he would be glad to consider the matter.

The Veterinary Department of the British Board of Agriculture reports a very great improvement in respect to the losses of cattle and sheep shipped from the United States during 1897 compared with 1896. "It has been observed that almost all the cattle now sent from the United States are dehorned, and the recent improvement in the condition in which these animals have arrived in this country is probably in no small measure due to the removal of this power of injuring each other during transit." In the South American trade the losses amounted to the serious total of 81 per 1,000 cattle shipped and 36 per 1,000 sheep. The Canadian losses amounted to about 8 cattle in the 1,000, and this occurred mainly on two voyages, due to circumstances of an exceptional and accidental nature. There was no diminution in the efficiency of arrangements for the Canadian trade.

### The Sheep Industry in Canada.

It is unaccountable, in a country so admirably adapted to sheep husbandry as is this Dominion, that so few sheep are found on its farms. We believe it is absolutely safe to say that in no other country are sheep liable to so few diseases or disabilities of any kind. The climate is as near an ideal one for the successful raising of this class of stock as can be found anywhere in the world. The soil also, in almost every section of the Dominion, is suitable to the healthful growth and development of sheep and their volunteer crop of wool. All the leading breeds do well with us. There is no class of stock the raising and care of which requires so little labor or expense as this inoffensive and unpretentious money-maker. They need very little grain at any season, and where roots are grown and fed the breeding flock may be successfully carried through without any grain, though they will pay well for a light ration in the winter season, and for shelter from storms, but cheap sheds are sufficient and may, if well managed, answer the purpose as well or better than fine and expensive structures. Sheep will eat and will thrive upon many of the weeds which infest the pastures, and in this way help to clean a farm and keep it clean. They will live in summer largely upon pickings in the lanes and by-places of the farm, which would otherwise be wasted. The fleece of wool, a product which no other farm stock yields, and which is perennial during the life of the animal, amply pays for the winter's keep, even when liberably fed, and anywhere from fifty to a hundred per cent. of an annual increase from the breeding ewes may reasonably be expected, and with a little care and good management may be realized. There is generally a good demand for mutton sheep and lambs at all seasons of the year at fair paying prices in the meat market, while the demand for breeding stock of all the breeds for replenishing and improving the flocks in the range tercitories both in Canada and the United States, at prices far above those of the butcher, is such as to make it decidedly profitable to in favor of the establishment of a Railway Com-

cater to that trade, and Canada is peculiarly well situated for taking advantage of the increasing trade in this line which seems bound to come our way. United States flockmasters look to Canada for rams, knowing from experience that sheep bred and raised on our soil have the requisite stamina and quality to improve the stock they are brought into contact with, and will continue to come here for fresh blood. If we excel in any one class of stock more than another it is in our sheep, as was amply evidenced by the great success of our flocks at the World's Fair in 1893, at the Madison Garden Show, and the magnificent displays made at our leading exhibitions. While it is true that the quality of our best breeding flocks has been well maintained, thanks to the skill and pluck of the breeders of our pure bred flocks, who have held the fort without adventitious aid from outside sources, and notwithstanding the fact that sheep have been systematically ignored at the Dominion Experimental Farms, while kindred industries have been boomed by Government commissioners and aided by special favors at the public expense, yet it is also true that sheep are being neglected by a very large proportion of farmers and that the aggregate number of sheep in the Dominion has been steadily decreasing for the last ten years or more, a fact which, as stated in the first sentence of this article, is unaccountable when all the good things which can be truthfully said in their favor are enumerated. If any words we have written shall lead to a more general recognition and active appreciation of the claims of this class of stock by our farmers we shall feel that we have done good work in penning them, being fully persuaded that no more profitable branch of farming is within the reach of our people.

### The Elevator Monopoly -- Reply by Dr. Rutherford, M. P.

### To the Editor FARMER'S ADVOCATE :

SIR,-I observe in your issue of June 1st an SIR,-1 Observe in your issue of June 1st an article on the Elevator Monopoly, which is some-what misleading as to the position taken by the Western members in their efforts to abolish this grievance. Western Liberal members, with one notable exception, are unfortunate, inasmuch as, under existing journalistic circumstances, they have no widely circulating medium through which to in-form their constituents of what they are doing or endeavoring to do on their behalf. As a conse quence, they suffer from constant misrepresentation, due sometimes to self-interested vainglory and sometimes to the indiscriminating antagonism of writers politically opposed to them. I trust you will allow me to explain to your readers as briefly as possible the facts relating to this vexed ques-tion. The elevator grievance, shortly stated, lies in the fact that the farmer, who should unquestionably have the privilege of shipping his own grain, when have the privilege of shipping his own grain, when, how, and to whom he pleases, is at present com-pelled to pass it through elevators which may or may not be honestly and fairly conducted. As a result, he is largely in the hands and at the mercy of the elevator owners, who, by the recent union of their forces, have deprived him of the competition which formerly to some extent served as a protection to his interests. Different men hold dif-ferent views, and the Western members, while all desirous of remedying the existing state of affairs, were not of one mind as to the best manner of were not of one minu as to the test manner of bringing about the needed reform. Speaking for myself, I long ago came to the conclusion that there was no need for new legislation, as I considered that the case was already fully provided for by Sub-section 2 of Section 246 of the General Railway Act, which you might publish for the benefit such of your readers as are not familiar with it. of such of your readers as are not familiar with h. Acting on this belief, and after consultation with several high legal authorities, I represented to the Government the desirability of compelling the railway companies to live up to the existing law, and obtained assurances that the matter would receive the attention it deserved. I presented my views as above to the public in the Manitoba Liberal of February 24th, and to the House of Commons as forcibly as I could on March 14th, in seconding Mr. Jameson's ably advocated resolution

15, 1898. No. 456.

No. 456.

Douglas himself :

"Whereas, owing to the pressure of other business it has been found impossible to enact such legislation during the present session as will re-

move the grievances in respect to the shipment of grain under which the producers of Manitobs and the Northwest Territories at present labor; therethe Northwest Territories at present labor; there-fore, we, the undersigned members of Parliament, request you to take such steps under the Railway Act as will secure to the producers the right to ship grain under the following conditions: "1. The producer may load cars directly from his vehicles by means of a suitable platform or otherwise, and shall be allowed reasonable time to

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"2. Where flat warehouses now exist or may hereafter be erected, grain may be shipped through the same and no discrimination shall be mad gainst such warehouses in favor of standard elevators.

elevators. "4. Where grain is shipped directly from vehicles no charge shall be made by any other elevator owner or other person for such privilege, and where grain is shipped through flat warehouses no person other than the owner of the warehouse hall be aptitled to make any charge for said privishall be entitled to make any charge for said privi-

lege. "3. Where the supply of cars is insufficient, such cars as are furnished shall be divided equally among the applicants until each has received one car, and after that the cars shall be distributed in proportion to the amount of business transacted.

JAMES DOUGLAS. "(Signed) " J. G. RUTHERFORD. "R. W. JAMESON. J. A. MCDONNELL. "T. O. DAVIS. " FRANK OLIVER. "R. L. RICHARDSON."

The memorial which you publish did not emanate from the Western members, and you are entirely in error when you state that it was prepared or presented to the Government by them.

### FARMER'S ADVOCATE AND HOME MAGAZINE.

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THE LEADING AGRICULTURAL JOURNAL IN THE DOMINTON.

WILLIAM WELD COMPANY (DINIW

### W. W. OHAPHAN, A nd. London JOHN WELD, MAN

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reful perusal of this latter document will reveal early the special interest which it is calculated to romote. I think I am safe in predicting that here will be no more elevator monopuly, and that ur farmers next fall will load their grain in any asonable way they may see fit to adopt. Should fliculty arise, however, we have the assurance of fective legislation next session, the free discussion hich has taken place being the best possible mans of bringing out the salient points of the mestion.

question. I cannot close without a word regarding the miserable attempt made in some quarters to convey the impression that Dr. Douglas, myself and othere are under the dominating influence of the C. P. R. and like corporations. A more foundationless charge was never made. The people of East Assinibols are most fortunate in their representa-tive. Honest, capable and strong in his desire to do right by his people, Dr. Douglas is respected and trusted by every man at Ottawa not blinded by that most contemptible of human weaknesses, self-glorification. If he erred regarding the amendment that most contemptible of human weaknesses, self-glorification. If he erred regarding the amendment to his Bill, the error was due solely to anxiety to they have shown that while the number of tuberto his Bill, the error was due solely to anxiety to obtain, this session, a remedy for the grievance against which he had been so keenly contending. As time passes Western people will doubtless learn which of their representatives are most worthy of their confidence and esteem. There is an old Scotch proberb which fits fairly and squarely the present case—"Muckle squealin' for little woo', as the deil said when he clippit the soo." Let us be judged by what we do and not by the noise we make. Yours faithfully, J. G. RUTHERFORD. House of Commons. Ottawa.

at the breeders and judges of

his year signs that the breeders and judges of kyrahics have hit upon the happy medium be-ween the thow cow and the dairy cow. Complaints have long been made of a divorce between the cow of commerce and the cow of the showyard. Dairy armers who have to supply the towns with milk in the early morning complained bitterly that the howyard fancy for small, well-planted tests and a countifully suspended vessel only was inimical to the utilitation interests of the dairy farmer. The part prices made in the sale ring and the best prizes pained in the showring were made by animals of two distinct types. When cows have to be milked at lightning speed in the small hours of the morn-ing, the neat test and fancy vessel of the show cow are a great nuisance, and the female part of the agricultural community have never been slow to be used for it with moderation and pre-be used for it with moderation and pre-tion, but he was quite ready to admit that it was couldern the fancy animal. Mr. Allan, although not an advocate of the fancy animal, always stated what could be said for it with moderation and pre-cision, but he was quite ready to admit that it was one of the good things of which one could have too many. This season, more than in any preceding, evidence is furnished in the showring of a return to common-sense in the matter of judging. With a view to bringing out what was wanted by dairy farmers, special prizes have in recent years been given for what were called commercial cows, and this season in several instances these prizes have been won by the champion cows of the showyard. This happened at Kilmarnock, Ayr, Glasgow, Dun-barton and Bute shows. At the first-named show Mr. Hugh Todd, Harperland, Dundonald, secured champion honors with a lovely 3-year-old named Nelle IV. of Harperland, a splendid cow, of great scale, and just the kind of animal everyone wants to fill their byres with. The champion cow at Ayr and Gwned by Mr. William Howie, Burnhouses, bred and owned by Mr. William Howie, Burnhouses, Galston, and one of the grandest cows of the Ayr-shire breed on record. As a dairy cow she is unsur-passed, and it is a remarkable fact that she has not only swept everything before her for two years in succession, but there is also a strong probability that in the year that is to come she will be equally invincible. It is doubtful if there has ever been ex-hibited a better example of the Ayrshire dairy cow. The Dumbarton champion, Queen of Auchentullieh, was also bred in Ayrshire, and is owned by Mr. John Banchop, Auchentullich, Alexandria. She is a grand, lengthy, white cow, of the right scale, with any amount of treed character. The Bute champion, Mos Rose of Mid-Ascog, was bred by her owners, Messrs. R. & J. McAlister, Rothesay, and in some respects she has no superior. She is as good a dairy cow as any, and it is rather noteworthy that she ard her forbears, and also Bute of Burnhouses, the size of Lady Flora, were all bred on Mid-Ascog. This is one of t

country at present in a very hopeful condition. *Tuberculosis* as a subject of agricultural discus-sion is ever with us, and if Government inquiries and Royal Commissions could have cleared it away, we should have been quit of it long ago. Three separate reports on the subject have issued from authorities under parliamentary sanction, but, after all, we never seem to get any "forrader" so far as the elimination of the disease is concerned. The labors of these Commissions have not, how-ever, been in vain. They have tended greatly to relieve the public mind in regard to the dangers affected in the udder is by no means fitted to cause unneccessary alarm. All the men of science are apparently now agreed that unless the udder be diseased there is no risk attending the use of milk from tuberculous cows, and even when the udder is the seat of the disease, the boiling of the milk removes all risk of disease. Dairy cows are more subject to the disorder than others, but even in their case the tendency is to rear cattle so framed that they will not be predisposed to the disease as too many in the past were. Ayrshires of the type referred to in the preceding paragraph are not likely subjects for the disease, and altogether there is every reason to expect an increase in the number of healthy dairy cattle in this country. The dis-cussions on tuberculosis have revealed a curious a characteristic of the British mind. In spite of the evidence collected by various independent witnesses regarding the success of Bang's treatment and method in Denmark, an extraordinary number of men in this country refuse to believe in the success of that system; and they are not inclined to listen even when told that in this country a similar success has attended the Castlecraig experiments of Sir Thomas Gibson-Carmichael. This provincial ism is sometimes an advantage, but at other times it counts for nothing, and in its relation to experimental work it is calculated to do great injury to agriculture. Hackneys Gaining Popularity.-Hackneys have been in great favor during the past few weeks in this country. We have had several sales by auction, and prices are keeping up and going up. Mr. Alexander Morton, of Gowanbank, Darvel, is the great pioneer breeder in Scotland, and for a long time he fought the battle single-handed. At length a change has come over the country, and he has now a large number of companions and com-

Hackney breeders have devoted their attention is breeding carriage horses, and this has proved a di-cided advantage to the entire Hackney interes. The Hackney which was too small for a carrier horse and too large for a pony is wanted by is body, and better days have dawned for breed now that all sorts and conditions of men a recognizing that it is a harness horse or nothin At his sale in the beginning of May, Mr. Morto this year sold 54 head, of all ages and both seres, an average of £75 19s. spiece. A Hackney gedin named Grenadier was sold for 220 gs., or £241 to (\$1,150), and a pony mare made \$420. She is a we colored animal and a phenomenal mover. The average price of four pedigreed Hackney bro colored animal and a phenomenal mover. The average price of four pedigreed Hackney brood marcs was £118 2s. 6d., and 30 harness horses made an average of £82 11. 3d. Another very good Hack ney stud in Scotland is that of Mr. William Scott, Gilfoot, Carluke. He had a sale one were earlier than Mr. Morton's, when he sold fourtee animals at an average of £62 2s. each. Of these the majority were driving horses, and three of them came to the top at the Ayr Show; while more than one was well placed at the great horse show at the Crystal Palace in the end of May. The highest prices and the liveliest biddings way made at the Limefield sale on Tuesday, 17th May. The late Mr. James Walker, of Limefield, was one of the best judges of Hackneys in Scotland. His The late Mr. James Walker, of Limefield, was one of the best judges of Hackneys in Scotland. His stud was one of the smallest in the country, but it was known to be one of the most select, and when on account of his lamented death, it was announced that it was to be sold without reserve, everyboly knew there would be a good sale. A three-year old filly went to Lancashire buyers at £309 15 and a four-year-old mare at £220 10s. The average price of seventeen Hackneys was £84 7s. 5d. There were in the sale six brood mares with foals, four yearling fillies, and four yearling colts, as well as one three-year-old mare, one two-year-old filly, and one harness mare. It was a wonderful sale, and one harness mare. It was a wonderful sale, shows that given good blood, careful selection, an unreserved sale, Hackneys will make almost any price in Scotland. Even the canny Aberdor ians have been trying to breed Hackneys, and successful sale of ponies and Hackneys took place "SCOTLAND YET." there not so long ago.

### Exhibitions for 1808.

Exhibitions for	1898.	~ 法法的公司
Trans-Mississippi, Omaha	June 1 to	Nov. 1.
Winnipeg Industrial	July 1	1 to 16
Portage la Prairie, Man		
Brandon		
Carberry		
Stanstead, Rock Island, Que		
Toledo Tri State		
Toronto Industrial	Aug. 29 to 1	Sept. 10.
New York, Syracuse	Aug. 29 to	Sept. 3.
Ohio, Columbus	Aug. 29 to	Sept. 2.
Minnesota, Hamline		5 to 10.
Eastern, Sherbrooke	Sept.	5 to 10.
London Western		8 to 17.
Indiana, Indianapolis		12 to 17.
Prescott, Vankleek Hill		13 to 15.
New Brunswick, St. John		13 to 28.
Bay of Quinte. Belleville	Sept. 14	ard 10.
Northern, Walkerton	Sept. 14	and is.
Ottawa Central Wisconsin, Milwaukee		10 to 29.
Northern, Collingwood	Sept.	90 to 99
Peninsular, Chatham	Sent	20 to 29.
Prescott, Prescott	Sent.	20 to 22.
Lanark, South Perth	Sept.	21 to 23.
Lanark, South Perth	Sept. 26 t	o Oct. l.
Peel, Brampton	Sept. 27	and 28.
Lanark, North Almonte	Sept. 1	27 to 29.
Centre Bruce, Paisley		and 28.
Northwestern, Goderich	Sept. !	27 to 29.
Prince Edward, Picton	Sept. 28	and 29.
Oxford, Kempville.	Sept. 29	and 30.
Elgin West, Wallacetown	Sept. 29	) and 30.
Ontario and Durham, Whitby	Sept 29 to	o Oct. 1.
Peterboro, West Peterboro St. Louis, St. Louis, Mo Norfolk, Tilsonburg.	Sept. 29 t	o Uct. I.
Norfelt Tileenhung	· · · · · · · · · · · · · · · · · · ·	. 3 to 0.
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Ontario Fat Stock Show, Brantford.	Nov 90 +	Dec 9
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House of Commons, Ottawa.

### STOCK.

### Our Scottish Letter.

A Pioneer Ayrshire Breeder's Demise.-Fanciers of the Ayrshire in Canada have long been familiar with the name of Mr. Alexander Allan, formerly tenant of the farm of Munnoch, Dalry, Ayrshire. He was the oldest of the generation of Ayrshire breeders that now is, but someone else is now holder of the premier place. Mr. Allan died on 15th May, in the seventy-sixth year of his age. He was a great favorite with all classes of the community, and as a judge was in his time unrivalled. He officiated at all the leading shows in this country and on the Continent, and had a very large share of the foreign trade in Ayrshire. He was entrusted with many commissions and selected many animals for foreign buyers. As a typical Ayrshire farmer, shrewd, cautious, painstaking and industrious, Mr. Allan had few equals, and none survive exactly of his own type. His sons, Mr. A. Y. Allan, Croftjane, Thornhill, and Mr. James Allan, Blackston, Dalry, are well-known and popular farmers, and both are recognized as admirable judges of Ayrshire stock.

Ayrshires in Scotland.-Reference to Mr. Allan naturally leads one to say something of his favorites-the Ayrshires. After a long conflict, there are of their shows we will include them in the lists of succeeding issues of the FARMER'S ADVOCATE. - EDITOR.]

### How to Lead a Wild Cow.

"A few years ago," writes a reader of the FARMER'S ADVOCATE, "I purchased a highly mettled Jersey heifer. She was sent from her former owner by train, and when she arrived at our station she was so wild and excited we could not untie her in the car. In fact, we knew if we did turn her loose she would go over everything jumpable. So we threw a blanket over her head and untied her, then tied an old sack over her eyes so that she could not see. This so completely subdued her that she walked home some four miles tied behind a wagon as quietly as anyone could wish. In a few years the cow was again sold, and her purchaser, allhough confident he could lead any cow, could not get her home until he had taken my advice in blindfolding her with an old sack, when she again led away quite peaceably."

J. C. MURRAY, Brandon Hills, Man .:- "I would petitors. During the past few years all of the not like to be without the FARMER'S ADVOCATE."

### The Bath and West of England Show.

JUNE 15, 1898

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NOTES ON SHEEP, SWINE, AND DAIRY SECTIONS.

This annual meeting took place this year in the old town of Cardiff. The sheep were, as a rule, not at all well represented, the principal exceptions being the Devon Long-wool and Shropshire breeds. Cotswolds came out fair if well, Mr. R. Swanwick being the principal winner, as at the Oxford County Show, although the second ram from Mcliment's flock might have gone higher way. Part Mr. McCalmont's flock might have gone higher up. Ram Mr. McCalmont's nove, and yearling ewes only one moderate pair forward. Devon Long-woo's were well and strongly shown. Evidently there is being made a commendable effort increase the demand for this hardy breed of sheep. Southdowns were most disappointing, both in regard to number of entries as well as to quality. No single exhibit could be called tiptop. Earl Cadogan led the way in two lasses, ram and ewes, and Mr. C. R. W. Adeane in the ram lamb class with a pair of capital lambs, the best and most typical exhibit in the section. Hampshire Downs very second-rate exhibit. Some few typical and useful sheep were present, but these were not so numerous as one would have expected them to be at this important how. Lord Rothschild took the ram prize, and two out of three in the ram lambs, but these latter awards were ortainly lucky ones, for a far and away better pen of Mr. A. de Mornay's was placed after them. The leadin this class came from Mr. L. H. Baxendale's flock. Yearing ewes found a grand pen of Mr. A. de Mornay's to the fore. Shropshires were very strongly shown. Mr. J. Bowen Jones led the way in both the ram and ewe classes, in which the competition was very close indeed. Mrs. M. Barrs, W. F. Inge, and J. Harding were winners in the ram class, and in the ewe class Mr. P. L. Mills, Mrs. M. Barrs, and Mr. A. have been headed by Mr. A. Bradburne's pen that came not fully representative, but the winning sheep Tanner. Ram lambs not so strong a class, which ought to

second, but was headed by Mr. W. F. Inge's pen, a good skinned pen, but not of the guality and handle that Bradburne's pen had. Oxford Downs, which were a weak lot. even at the Oxfordshire Show, where in days gone by one always found this breed in strong force, was this year provided for by one of the most moderate ram classes we have ever seen, and here at Cardiff the leading winner was a sheep that failed to get a cash prize at Oxford Show, owing to those of his competitors who were more successful than he not being present. Ram lambs and yearling ewes were such that the least said the better. Dorset Horns were fairly well shown, the ram lambs of Mr. W. R. Flower being first and second, and were about the hest most level and even pens of this breed seen out for some years. This breeder was also successful in the ram classes, and Mr. H. McCalmont took

the lead in yearling ewes. Pigs — Berkshires were present in good numbers, and, generally speaking, their quality and merit was of a very averaged standard of merit. In the boar classes the principal winners were Messis. J. Jefferson, R. Swanwick, E

took the breed championship with him. We did not like his color nor the way he stood on his legs. Messrs, C. Hobbs & Son came second with a better sheep in respect to type and color, but a bit weak outside the thigh. Mr. J. C. Eady was third with a very taking sheep. Ram lambs a useful class; Messrs. W. Arkell and A. H. Wilsden securing the awards. Shearling ewes were headed by a grand pen. Mr. J. C. Eady most deservedly secured therewith the championship of the yard, and his therewith the championship of the yard, and his second pen, equally good as the former, were most excellent. Ewe lambs were fully representative, but those selected for the first awards were not of so good a style or quality as Mr. A. H. Stilgoe's, which took second place. Hampshire Downs were, in the ram and ewe classes, very strong indeed, and the chief honors, not only in these classes, but in several others, went to Earl Carnarvon, whose flock is rapidly pushing its way to the fore. Both Mr. J. is rapidly pushing its way to the fore. Both Mr. J. Flower and Mr. A. de Mornay, who won first in the shearling ewe class, were well to the fore, ex-hibiting first-class specimens of this breed. Southdowns were present in strong force, and the championship of the breed went to a ram lamb out of the pen of three who secured first premium in their class, from that well-known and noted flock of their class, from that well-known and noted flock of the Pagham Harbour Co., Selsey England. This ram lamb, and, indeed, the whole of this flock's representatives, was of first-class quality, type and character, such as few, if any, of the flocks could produce. Earl Cadogan secured second for shear-ling rams and the award for shearling ewes. Both pens will probably in future shows turn tables on their more successful competitors which came from Sir James Blyth's flock. Shropshires were not fully representative, but the winning sheep

we are enabled to say that the .32 of an acre of rape saved 1,062 pounds of grain, or that an acre would be worth 3,318 pounds of grain. In another trial with two lots of 19 in each, con-

281

In another trial with two lots of 19 m each, con-ducted in the same manner, and fed the same rations for seven weeks, the rape lot ate 2,220 3 pounds of maize, 1,109 pounds of shorts, 6 of an acre of rape, and gained 1,066 pounds. The penned lot ate 3,106.5 pounds of maize, 1,563 pounds of shorts, and gained 1,076 pounds. The gain is prac-tically the same in this instance also, so that it may be said that the 6.10 of an arm of rape mayed 886.2 be said that the 6 10 of an acre of rape saved 886.2 pounds of maize and 444 pounds of shorts, or that one acre of rape is worth 2,217 pounds of grain. The average of the two trials indicates that an acre of near is worth 2.767 pounds of arch. of rape is worth 2,767 pounds of such grain as we fed for fattening pigs. The two trials that have been made indicate that

The two trials that have been made indicate that this crop is likely to prove as valuable for swine feeding as it is for sheep. There is less risk in feed-ing it to swine, as they do not bloat on it nor scour if fed properly. It gives every promise of proving an excellent crop for pasturing brood sows and young pigs. It is very evident that for late sum-mer or early fall pasturing it is especially valuable. At that season of the year, when it is hot and dusty, swine are most liable to have fevers, cholera, and other derangements, and there is no doubt but that pasturing them on such a succulent crop as rape would add to their thrift and vigor, and thereby lessen the losses that occur in these months. Rape seems specially valuable for swine feeding during the hot summer months, because of its succulence the hot summer months, because of its succulence and the relish of swine for it, and for these reasons we would urge our swine breeders and feeders to try it on a small scale for this purpose.

Rearing Young Bulls.

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Perhaps at the time in the p ers are purchasing o calves under a ye calves under rather than it will be with diffi that they can bull calves in th buil calves in the her to meet the trade o next spring for animal fit for service. Now it is important that these young animal be given the right at tention, which tention, which is not well understood, espe-cially by beginners with such stock. Whatever method is pursued, it should be the one object of his owner to make him fit for service by producing a strong frame, with plenty of vigor and activity. One vigor and activity. One of the common mis-takes made with, such animals, especially when a good price has been paid for him, is to keep him in too close confinement, which, if he is well fed, is nearly install to and him certain to send him wrong on his legs. He is especially liable to wrong on his legs. He is especially liable to go back over his hocks greatly diafiguring him and injuring him for service. If obtained as a calf in spring, he should be turned out during the nights through the summer, and given a roomy box and plenty of yard exercise the following winter. It is a good practice to accustom him to be led about with the halter, and will as-suredly result in less trouble with him afterwards : in fact, every bull calf should be thoroughly halter-broken before a ring is put in his nose. If fed milk, though not necessarily sucking a cow, for four or five months, and afterwards given ground oats, bran, and a little oil cake, along with good fodder, he will be fit to serve a limited number of heifers and small cows at twelve to thirteen months old. He will have plenty of time during the following summer to pick up his strength and vigor again, and having more framework and strength, will be fit for general service throughout the herd in the following autumn. It is a great mistake to turn a young bull out with the herd dur-ing his first or even second service summer. He will not only do himself injury, but while some of the females will be served too often, others are liable to be missed. During the time of service it is recommended by liable to be missed. During the time of service it is recommended by E. Brand, in *The Farmer and Stockbreeder*, the young bull's food should be slightly on the increase, and of somewhat more nitrogenous composition. Musty hay should be avoided, and liberal feeding of



Burbridge, N. Benjafield, J. Lawrence, commended. For sows, in strong competition, E. Burbridge and J. A. Fricker led the way, J. Jefferson, N. Benjafield, J. Lawrence and R. Swanwick also coming in for notice. Large Whites were

small in number but good in quality, the premiums being i divided between Sir G. Greenall and Messrs. S. Spencer and F. Allmand. Middle Whites were fully shown, and many first-class pigs were to be seen therein. Messrs. S. Spencer, Sir G. Greenall, A. C. Twentyman and Hon. P. D. Bouverie proved to be invincible, taking the whole of the best prizes ; whilst in the Tamworths Mr. R. Ibbotson had the classes all to himself, his exhibits being, however, of

very great and good merit. The Dairy Section at this show is a most important one, and it has earned a well-deserved reputation of being one of the most important held during the summer season as well as being about the best and most thoroughly well-managed one. The butter tests, the exhibit both of butter and cheese, were all one could wish for, and many valuable and nseful lessons were doubtless gathered up by the large number of visitors who flocked to see the exhibits and hear the lectures, and watch the competitions that took place.

### Oxfordshire (England) County Show.

This fixture is one of the most important of the earlier summer shows; in fact, it, to many of the principal sheep exhibitors, is the starting point of what you, in your country, term the "fair circuit." This meeting is the one at which the Oxford Down Sheep show out in greatest number, and doubtless the classes wesaw thereat, in respect to numbers, will not be exceeded at future shows this year. Mr. A. Brassey is not showing at all this year, so that one misses his well-known exhibits. These were particularly missed in the shearling ram class, in which there were few really first-class show sheep. The winner was one of Mr. Treadwell's, and he also
the penned pigs, that they might eat the rape more for the penned pigs, that they might eat the rape more faw really first-class show sheep.
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THE YEARLING BULL, INDIAN NOBLEMAN, ONE OF THE LAST SONS OF IMPORTED INDIAN CHIEF; BRED BY ARTHUR JOHNSTON, GREENWOOD, ONT.; NOW IN THE HERD OF W. S. LISTER, MARCHMONT FARM, MIDDLECHURCH, MAN.

from Mr. A. Bradburn, G. L. Foster-Harter and Mr. | M. Cooper were fully typical of their breed. Cots-wolds were but small in numbers, but the quality was good, particularly in the case of Mr. R. Swanwick's ram, who secured the award as best ram of all breeds in the yard. This sheep and his flock-mates secured all the first prizes for their owner.

### Rape for Pigs.

At various times, says an American bulletin, we At various times, says an American bulletin, we have tried feeding pigs on rape, and it has always been satisfactory, though it would sometimes be necessary to restrict the other feed that the pigs were receiving until they became acquainted with the taste of the plant. We have made two experi-ments, including, in all, fifty-eight pigs, with the definite object of determining the feeding value of rape. In both these experiments one lot of pigs were penned and fed soaked maize and also shorts in a slop. The grain was fed in the proportion of in a slop. The grain was fed in the proportion of two parts maize and one part shorts by weight. The other lot had in addition to this grain a limited piece of rape. The pigs were fed so as to secure a satisfactory gain in both instances, but the amount of grain fed to those on rape was less than that given the penned pigs, that they might eat the rape more

### Preparation of Dairy Cattle for the owring:

Preparation of Dairy Cattle for the Showring: BY E. S. PER. MOUNT MORRIE, N. Y. (Continued from page 258.)
Now that I have told you what I consider the neipel things to do, I will tell you a few things at you should not do, which is, perhaps, the out important of the two.
First.—Don't wait until a few days before the ow to begin fitting. Four or six weeks is little ne enough : two months is better, and if your we are always about fit so much the better.
Second.—Don't hurry ; you are most sure to ordo the matter and have your stock reach their com before you start for the fairs, which should all means be avoided.
Third.—Whatever you do, Don't feed heavily of lid grain at any time ; let moderation in grain on have undone more in a day, perhaps, than you n recover in a week. Begin early, and go slow.
Fourth.—Don't feed corn (maise) in any form. is very heating to the blood, makes grease in and of bone and muscle, and on the first extra ordination of your cow (like carrying in the sum.) or will will like cut grass drying in the sum.) or will will like cut grass drying in the sum.) or or your cow (like carrying her to the fair) or will will like cut grass drying in the sum.) or or your cow (like carrying her to the fair) or will will like cut grass drying in the sum.) or or your cow (like carrying her to the fair) or will will like cut grass drying in the sum.) or or or your cow (like carrying her to the fair) or will will like cut grass drying in the sum.) or or your cow (like carrying her to the fair) or or your to we have talking about dairy cattle. I do not or your cow (like carrying in the sum.) or or your your you way that it is poor staff to feed to anyon or your cow (like carrying her to the fair) or your or your the it on cattle and sheep, and it to not your cow (like carrying her to the fair).

the corrowral rand-with it on cattle and sheep, Fifth. — Don'r try to feed a dairy cow to a point where she shows she is getting more feed than she can take care of and convert it into milk, or the judge will say she is no good as a profitable dairy tow and send her to the rubbish pile, when, if you had fed less, and at the same time fed more, you might have won a prize. You know a judge has no business to say he thinks the cow has simply been overfed, and if she had been properly fed, etc. No, he must take them as he finds them in the ring that day ; no if's or and's about it. A really good dairy cow carrying a lot of meat which you have ignorantly put on to fit her, as you think, gets sent to the stable without a show. Some old cow whose ribs you can see as far as you can see the cow (with-out any fitting) walks off with the ribbon, and you know you have the best cow for milk, and you naturally think the judge has made a mistake. Perhaps in reality he has, but it is your own fault; you have deceived him by bringing a beefy cow into the ring that is not so naturally, and you must take the consequences. "There neaver was a more mistaken notion than

into the ring that is not so naturally, and you must take the consequences. There never was a more mistaken notion than getting dairy animals fat, or even in high condition, for the showring ; it has lost to the owners no end of prizes, unless the society happens to get a beef breeder to judge them. Skoth.—Don't wait until you get on the car to go to the fair to begin polishing horns and hoofs, or begin the use of the brush ; do these things at home in your own quiet stable, where the cow will be less annoyed than in a strange place. After she has been shook up in a freight car she should have absolute rest and quiet. This is a little thing, but when your cow is fit you must remember she is very easily unfitted, and every farmer knows how sensitive a good dairy cow is to change. Let a boy or dog chase her for two rods and she shrinks in her yield of milk accordingly. So don't do any-thing to add to her disquiet. Seventh.—Don't wait until the last day in the attements or order your car ; have it on hand a day

Begin watering your cattle at home in a pail, or, to-gether with the excitement of the journey, they may refuse to drink on the grounds. Many a good cow has lost a prize by refusing to drink from a pail, because she never did such a thing before in her life. She goes into the ring all "gaunted up," and the judge sends her to the rubbish pile the first thing. "No barrel, no capacity, poor feeder," says the judge; or perhaps he knows the cow well -knows she is a good one-but he cannot help it, it is the owner's misfortune. He says he cannot let himself begin to make excuses for this cow or that ;--if he did, where would he end; so out she goes.

### FARM.

### Haying Pointers.

To the Editor FARMER'S ADVOCATE :

To the Editor FARMER'S ADVOCATE: SIR,—You have an excellent article in June Ist-issue re cutting and curing clover, and only favor-able comment can be made on same. Our system here is very similar to what you recommend. Would suggest, however, that all hay be cocked on day of cutting (provided it is cut on a drying day), otherwise the night dew considerably deteriorates its value. As a rule, on the third day, weather being favorable, hay is sufficiently sweated and ready for mow. Here we cut and always cock on same day.

ready for mow. Here we can all a same day. I certainly agree with you re feeding clover hay to horses, and feel exceedingly pleased to have my view backed by your lucid argument in its favor. From experience here we find that lucerne can be properly cured as you suggest, only care must be taken not to make large cocks. Mr. Editor, keep us posted up in our "good and glorious" cause by such edifying reading as para-graph referred to, and appreciated by JOHN D. MACLEAY, Norfolk Co., Ont. Manager Annandale Farm.

### Haymaking in Nova Scotia.

In curing clover my method has been to strike the first settled weather in July, or as soon as the clover is ready to cut. We prefer to mow in the afternoon and evening, and, as clover with us is never less than three tons per acre, we can usually get enough down without starting the machine in the morning. We do not touch it again till about four o'clock the next day, when we turn the green side to the dew and leave it in that shape for the second night. In the morning we open out a little four o'clock the next day, when we turn the green side to the dew and leave it in that shape for the second night. In the morning we open out a little more thoroughly, shaking the green bunches well out, and towards night, while the hay is good and hot, and before any dew falls, we cock snugly. I might say here, that we never use a horse rake in clover, for two reasons: First—I have never yet found a horse rake that would leave a good crop of clover in as good form for cocking as it is in the swath; and, Secondly—Because we find it sheds the rain much better when cocked out of swath than out of windrow. Weather being favorable, we let it stand in cock for a couple of days; we then open out in morning and turn over after a few hours' sun, and start teams hauling to barn. One of the disadvantages of this method is, we have a large quantity of hay out in case of bad weather, as we keep cutting every day; but even clover hay, after it has stood over night in snug cocks, will turn quite a shower of rain. Timothy is much easier to handle. We cut it in evening, or in morning after the dew is pretty well off, and turn over about noon, start rake about three o'clock, cock snugly for over night, turning

off, and turn over about noon, start rake about three o'clock, cock snugly for over night, turning out the next morning; it will be ready for the barn about noon, with very little turning, provided the weather is favorable. Of course, no one can lay down cast-iron rules for haymaking in our Nova Scotia climate, and it is often a question of letting hay spoil outdoors or putting it in the barn to spoil, and of two evils we try to choose the least. Colchester Co., N. S. C. A. ARCHIBALD.

JUNE 15, 1898

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### Harvesting Clover. To the Editor FARMER'S ADVOCATE :

To the Editor FARMER'S ADVOCATE: SIR.—Clover, next to silage, is the most valu-able crop for stock that a farmer can grow, and therefore should have the greatest care. Turnips might not suffer to a very large extent by three or four days' neglect—their product is not damaged by a shower of rain, while a shower of rain on the clover at a certain stage of its curing would deterio-rate the value of the crop from 40 to 60 per cent. Clover also, like silage, should be cut at a certain stage to get the most food value. In the corn crop every successful siloist knows that the crop in-creases in value up to the glazing stage, after which every day allowed to pass is a decrease in the pala-tability of the silage. The clover plant follows the same lines. The object of every plant is to repro-duce its kind, and every growth to the time the seed is ready to mature has the one object. When the leaves and stems and they begin to decay ; the leaves dry up and fall off and the stalks become woody. The proper time to cut clover, therefore, is when the plant is in full bloom and the seed pods formed ; this takes place before the heads turn brow. brown.

formed; this takes place before the heads turn brown. There are different methods of harvesting the crop, and every farmer (almost) "thinks he knows. it all." I don't. I think the object should be to get it in the barn dry, with as much of the leaves on as possible, and with as green an appearance as possible. If it is allowed to get wet and has a bleached appearance, with most of the leaves left on the ground, it would require the farmer to fur-nish green goggles to make the cattle take to it. The following appears to me to be a good method, with variations to suit the weather: Commence to cut after four o'clock in the afternoon and cut until nine in the morning (if necessary). The object of this is that the clover will not have com-menced to wilt to any extent before the dew falls, and therefore is not affected by the dew. If the following day is warm, with a good breeze, after noon put on the tedder or turn with forks. By five o'clock it will be sufficiently dry to put up, when it is allowed to sweat 60 hours or thereabout. Turn it out gently (so as not to shake off the leaves) in the forenoon, and draw after dinner. Keep a certain amount cut ahead so as to keep the hands going, never cutting more than the strength of the force available can, handle. It is advisable to put on about a gallon of salt to the load; it makes the hay more palatable, and, I think, helps it to retain its green color.

it to retain its green color. If properly cured, and properly fed, it is better food for horses than timothy, as it contains more food elements. The mistake with most horse feeders is that they imagine a horse should eat all the time he is in the stable, and if they go in and see the manger empty they immediately fill it up. The clover, if properly cured, is so palatable that they would eat too much of it. If they would feed what they would eat up clean in say an hour, and if any is left remove it until feeding time again, they would never be troubled with colic. If they feed musty clover, and all they will eat of it, it will likely an output they will eat of it, it feed musty clover, and all they will eat of it, it will likely affect the horses' wind. If fed with judgment it is superior to timothy hay. Ontario County, Ont. J. E. G.

### **Clover Cutting and Curing.**

There has been a great deal said about clover during the past few years; quite sufficient, one would think, to convince the most sceptical. Still, some of us farmers do stick to the dear old timothy.

Seventh.—Don'T wait until the last day in the afternoon to order your car; have it on hand a day or two before and all ready bedded, and with a bit of hay in front of the cows before they go in, a barrel filled with water, and see that they are very quietly loaded into the car at least an hour before starting; give yourself or men plenty of time; see that the gang plank is littered with straw, and that they have everything done to ensure their safety and to avoid excitement. Tip the engineer if neces-eary, so he will start them out of the switch carefully. Bighth.—Don'T wait until you get to the fair grounds to know where your stalls are. Write the

**Carefully. Bighth.**—Don't wait until you get to the fair grounds to know where your stalls are. Write the secretary and see, or have some one you can trust see for you, that your stalls are all ready bedded and hay in manger, and when your cattle arrive take your time in unloading, let the trainmen swear, and the superintendent of cattle damn. Don't hurry, don't get rattled, keep cool. It is enough to make a man lose his religion to have spent six weeks getting his cattle fit, and then when he gets them to the grounds have to the them to a fence next to the railroad track because the stalls are not ready. There is no excuse on the part of a next to the railroad track because the stalls are not ready. There is no excuse on the part of a society for such gross neglect. Not a wax figure, or the most delicate piece of machinery, needs more careful handling than a herd of dairy cattle. When they have been brought up to the top notch some farmers have had such disheartening results that they say: "It don't pay to fit our cattle; we take them up out of pasture and take our chances : we them up out of pasture and take our chances ; we know we are greatly handicapped, but we prefer to lose a prize rather than one of our best cows."

Ninth. — Don'T use kerosene oil to make the cattle's hair lay smooth; it makes a botch job of it; a handful of oil-cake meal in their feed daily for a week or two before, and a soft brush to remove the dirt, will do the business to perfection.

Some of this is not exactly how to fit, but it amounts to the same thing if it tells you how to avoid some things that help to unfit. One thing more. dry season.

### Cut the Clover Early.

If possible let the farm work be well forward in this month of June so that haymaking may com-mence as soon as the clover is fairly in bloom. Cut mence as soon as the clover is larry in bloch. Cut first such fields as may have in them any noxious weeds that are liable to ripen early and thus to spread from the seed. If it is intended to harvest clover seed from the second crop it is well to cut the first crop early. If the purpose is to plow down the first crop early. If the purpose is to plow down the clover sod in any field as a preparation for fall wheat it should be cut early so that advantage may be taken of any wet spells that may come to keep the teams going turning under the sod, which should be immediately rolled and harrowed, the harrowing to be repeated frequently, especially after each rain, to solidify the ground and to retain the moisture in the land. This makes a fine preparation for fall wheat, and no matter how dry the months of August and September may be the land will contain sufficient moisture to give the wheat a good start when sown and to keep it going on. Early cut clover, if well cured by exposure to wind and sun for a day or two and allowed to stand in cock for three or four days, if weather permits, makes the very best and most nutritious hay; and the aftergrowth of pasture on early cut clover meadows is so much more abundant than on those cut later that it makes a wonderful difference in the amount of feed a field will produce, even in a

Perhaps if we would sit down and think how dear. it is we might think less of it and more of clover. This old world of ours must be moving, and not a few wide-awake agriculturists are helping it along. When I read so much about clover and contrast the ideas expressed now with those I remember hearing when a boy—which is not so long ago—I wonder whether it is the time that has changed or the clover. I never did quite fall in with the old idea that timothy was the only hay fit for a horse to eat; that he must have all of it he could roll into himself, and cats too, or he could do no work; that clover might do very well for the cows and sheep, but keep it away from the horses, and as for hogs and hene, I don't think such a preposterous notion ever entered the mind. Look at it now. I was very glad to see in your June 1st issue the statement: Early-cut, well-cured clover is undoubtedly the best all 'round fodder for either horses, cattle or sheep, and even hogs and hens are kept in a healthy and thriving condition by the use of clover as a part of their winter ration." That clover is an all-round fodder for all our farm stock is becoming more and more patent to all who will give it a fair trial. We think that well-cured lucerne clover will not only form a complete ration for horses during the winter, but for a summer ration, and for a working team give me the lucerne hay in preference to timothy hay and three gallons of oats per day. I remember hearing T. B. Terry, of Ohio, that clover king, saying he had a working team thirteen years old, and he offered \$500 to any man who could prove they had ever had one gallon of oats during those thirteen years; they got nothing but clover hay; did all the work of the farm; always looked well, and we might also add that neither was touched with the heaves. I could hardly credit the statement then, but I am sure now it can be done; such managing would greatly lessen the cost of production. As for the hens, all I know

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### FARMER'S ADVOCATE. THE

that they are very fond of it green or cured; at they work better, or whether it produces aves or not I am not prepared to say; but I ould like to say a word for the hog if I am not thing away from my subject. We winter our we when we have no roots, on cut clover, soaked, th a sprinkling of bran, and find it very econom-tening pigs, but with more of the bran or meal. present—June—we have eighty-four (84) pigs ming on a two-acre paddock of lucerne clover, thing nothing but the clover and what whey by will drink. They work hard, but they cannot p that patch down ; it is getting ahead of them. good is clover for pasture, the pigs are doing if, and we expect to have a few tons of cheap it before the winter comes. The advantages of cutting clover early men-

well, and we expect to have a few tons of cheap pork before the winter comes. The advantages of cutting clover early men-tioned in you article are decisive, but I believe are not fully understood or appreciated by many of our farmers to-day. I have known men who were, perhaps, a little behind with their haying, leave the hay until their fall wheat was cut and in the barn. List season taught a lesson to the tardy ones; those who were behind and had their hay wet so often were unable to sell, and admit that ost straw was more relished by the stock. Better cut carly and avoid to a large extent the chance of being spoiled by either rain or old age. We find the question of having the clover well cured in the cock very important, also keeping it from the dew and rain. If possible, we leave none lying over night. With alfalfa the greatest care must be taken not to allow too much exposure to sun, as the leaves fall off very readily. Cut after the dew is off, rake as soon as leaves well wilted, medium sized cocks before evening dew falls, al-lowed to stand for several days until thoroughly oursed, well stacked or put in mow, and if the quantity is there, the horses, cattle or sheep, and even hogs and hens, will come out in good thriving condition, and even fat if so desired. Huron Co., Ont. F. C. ELFORD,

F. C. ELFORD. Huron Co., Ont.

### Harvesting the Clover Crop in P. E. Island.

To the Editor FARMER'S ADVOCATE :

SIE,-Your article on "Farm Work for June" is season-able and pointed, and should be carefully read by all who able and pointed, and should be caretully read by all who are so fortunate as to have a good orop of clover to make into hay this year, and I am happy to say that most all farmers down here have. Clover is perhaps the best paying crop we grow on the farm, even if we do fail to save it in the best of order. But if we can get it cured properly, there is no other crop can be compared to it in value. Well-cured clover is said to be worth \$6 to \$6 a ton for its manurial value after it is fed, and it is surely worth as much for stock feed. The feed in clover is so very largely contained in the leaves and blossoms that it is very imporcontained in the leaves and blossoms that it is very impor-tant that in curing and handling it these should be all saved. The directions in your article for cutting and suring the crop are pretty full and explicit, and leave little to be

The secret of making good clover is to begin early, before it is too ripe, and take your time to it. We mean by this, don't hurry and cut down a lot of it at once, and by this, don't hurry and cut down a lot of it at once, and run the risk of having it all spoiled. Unless you are sure of fine weather don't leave it in swath over night. If it is tossed about during half a day in sun and wind, cock it up at night before the dew falls. No fear of it spoiling this way for a night and a day, if there is no water in it when it is cocked up. We never leave hay in windrows over night, for if it gets wet in that shape it is about useless. We would much prefer leaving it in swarth. Hay cans are almost a necessity in curing the clover cron:

Hay caps are almost a necessity in curing the clover crop;

E FARMER'S ADVOCA does also the root of the dodder, but the dodder stem continues to grow, extending itself to other obver plants, from which it continues to dryn behind as its support is destroyed, and pushing out produce clusters of flowers, and if not interrupted a succession of flowers, and seeds is produced, being checked only by the frosts of autumn. The seeds able to retain their germinating power fire years of longer, but will grow at the first favorable opportunity. It is never safe to sow clover or matter. All vegetation on infested spots, and for matter the fodder may be fed to stock, but if seeds are formed it should be mowed as closely formed the fodder may be fed to stock, but if seeds and burned. About a week after the infested spots hould be carefully examined for new growth of the dodder vines, which not infrequently appear on the burned. About a week after the infested spots hould be carefully examined for new growth of the dodder vines, which not infrequently appear on the bit the sulphates of iron, potassium, and copper, bit the sulphates of iron are starter the infested spots applied in ten per cent, solutions. The solution fifterities when dissolved in water and liberal ing, but the clover plants usually grow up again for the roots. It is well to hoe infested spots applied in ten per cent, solutions. The solution is such as season's cultivation. To pasture closely wines the season's cultivation. To pasture closely wines the should not be allowed access to other fields or ther may carry some of the seeds are but the suimals should not be allowed access to other fields or the may carry some of the seeds in their wool or feet. **The Stone Silo**.

### The Stone Silo.

To the Editor FARMER'S ADVOCATE :

SIR, —With regard to silos, I built one two years ago with stone and mortar, 12x18 feet inside, 27 feet high, with round corners outside as well as inside, four inches nerrower and four as inside, four inches narrower and four inches shorter at the top than at the bot-tom inside of silo. I commenced 18-in ch wall at the bottom and tapered the walls in to 10 inches when finished at the top. I left an open space from top to bottom two feet wide, with pieces of wood built in so as to nail 2r4 scantlings on each

in so as to nail 2x4 GROUND PLAN OF STONE SILO. scantlings on each side, about one inch from the inside face of the wall. Then get tongued and grooved lumber, the narrower the better, so that it won't warp and let in the air; cut to fit across the open space on to the scantling. This makes it much more convenient to throw ensilage out, as you can take pieces off as you desire. I plastered inside with common mortar once, and last coat with water lime and Portland compart and last coat with water lime and Portland cement, and bottom as well, so there is no waste at the bottom. For about six weeks after it is filled the liquid comes out through one place into the stable by bucketfuls, as it can't escape otherwise. It is well to make the wall as air-tight as possible with mortar. Mortar. I cut for half a day into the silo, last fall, two inches long and some one inch. In the evening I noticed in FARMER'S ADVOCATE it was better to cut corn short, as it would pack better and take up less room. I find it is much better cut short every way you like to take it. In the first place, one can run the barley fork through it and peel the top off, and the fork is always clean; but when I got down to the long cut it was everlastingly slicking to the prongs. With the short cut it was easier to mix with other cut feed, and the cattle liked it better. This advice alone was worth two or three years' subscription to the ADVOCATE. It took two men This advice alone was worth two or three years subscription to the ADVOCATE. It took two men to take it off the wagon and feed the cutter with less than half-inch cut. I like high speed for ensilage cutter. I use a jack with horse power. It's much better to keep your knives one-sixteenth of an inch from the plate when cutting corn, and then you can keep your knives sharp. JOHN JONES. can keep your knives sharp. Wellington Co., Ont.

### The Octagonal Cement Silos.

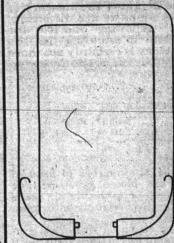
To the Editor FARMER'S ADVOCATE :

The Octagonal Cement Silos. To see Alter Family ADVOARS: The Advise Samer's ADVOARS: The Advise Samer's ADVOARS: The Advise Samer's the question of silos. This, for of the day to the average farmer, because of the farm products, and especially so with those who feed for beef, dairy or breeding purposes. With how material chapses, and the most convenient to be material chapses, and the most convenient to be stock, and thus lessen my expenses? It is a ques-tion of economy, then, we are after, and to my mind. The allo goes far to aid in the right direction. The allo goes far to aid in the right direction, we what so ilo of some sort. Now, the question is, what sort of a silo shall build that will fill the bill properly, and not be too heavy an outlay? This I understand to be somewhat of a pumile to many. For my own part I can readily settle the vestion, but for another I cannot, because circum-tainess differ so much with different people. In discussing this question I would like to say, after the apperience I have had with allos for the last well built, will keep ensilage good if properly put of these is cement, built silos for the last induction built of another I cannot, because circum-durability as to the material with which it is built. Now, sir, I have worked with and been around (of stores and frame), stone (square), and those of wood, built square, rectangular and round (of stores and frame), stone (square), and those of word, built square, rectangular and round (of stores of these is cement, built sight-sided, and how ne to say, I chaim the hone of built for com-stores and frame), stone (square), and those of word, the stores is cement, built sight-sided, and how ne to say, I chaim the hone of built stores word on the say. I chaim the hone of builts pro-stores for these is cement, built sight-sided, and how me to say, I chaim the hone of builts pro-stores for the same capacity. Any one winds the country for the Hon. John Dryden, Minister of whole thing myself

Ontario Co., Ont. A. H. CHRISTIAN. [NOTE.-We are sure many of our readers will i anxious to learn from Mr. Christian the dimension of the octagonal silo he so successfully built, the thickness of walls, the number of barrels of cemer contained in it, the proportion of gravel and store to cement, the number of men and time required is build it, the arrangement of the doors, and the arrangement of wooden frame used in building the structure.-EDITOR FARMER'S ADVOCATE.]

### Preparing for Fall Wheat.

The high price recently ruling for wheat will no doubt lead farmers generally this year to make provision for sowing a larger acresge than usual. This is quite natural, and we would not disuade those who have available land suitable for the crop from taking chances on what appears to be a good prospect for continued good prices; but we would emphasize the importance of making a good those who have available take mitable for the good prospect for continued good prices ; but we would emphasize the importance of making a good preparation for the crop and giving it a fair chance to give a fair return. The experience of farmers in the past year in many sections of the country where wheat was sown on unsuitable soll, or on illy prepared seed-beds, should not be forgotten, but should teach them to profit by the mistakes of the past and to practice wiser methods this year. The extreme drouth which set in last year immediately after harvest and continued through the months of September and October over a large area in the central provinces rendered the germination and growth so very slow and imperfect that the crop was weak to begin the winter with; and the severe freezing in the first weeks of April still further enervated it, and the result is, in many case, a very unsatisfactory prospect for a crop. These remarks apply principally to clay lands where care was not taken to preserve moisture in the land preparatory to sowing. On land that was summer fallowed, being frequently stirred and consequently kept moist, wheat started well and made good growth, even on strong clay lands. We also noted that on clover sod that was plowed down during the wet weather in July, and kept well worked on the surface after each succeeding shower up to seeding time, the wheat made a good start and stood the winter well, and is tolerably clean, and the surface is well barrowed after each rain, such a preparation has proved quite successful. Wheat may also, to a limited extent, follow barley or cate if the land is in good heart and there is sufficient moisture in the ground to admit of its being worked fine after plowing. If the land is not rich enough it is unwise to risk wheat on such a preparation



283

hay caps are atoms them will pay for themselves a year a hundred or two of them will pay for themselves a year like this when the clover crop is heavy. They can be made cheaply of a square of cotton forty inches wide, well oiled, and a stone tied to each corner or pegs to stick into the bot-tom of t is cock through the corners will serve to keep them a stone the part our clover into the bottom of a in p'ace. We prefer to put our clover into the bottom of a deep mow, and we think it can be cured much better and deep mow, and we think it can be cured much better and greener that way, as if it begins to warm up by putting a weight of other hay on top it will press the heat out of it and completely cure it. The air being excluded in the mow is a great advantage in keeping clover. If the cocks are covered with good caps and let stand till the hay is well sweated, it will not require long after opening out to get it in prime condition for the mow. The crop of clover on this Island this year will be worth many thousands of dollars to the farmers if harvested in proper condition. With a wet haying season much will be lost at best ; but with care and judgment in haymaking and using all the help we find and judgment in haymaking and using all the help we find useful, much may be saved that would otherwise be spoiled. Queen's Co, P. E. I. W. S.

### Dodder Infesting Clover and Lucerne.

On several occasions there have been brought into our office specimens of clover entwined with dodder. No doubt this parasitic weed is quite generally dis-tributed, even more so than farmers recognize. There are various species of dodder, all of which are annual plants with inconspicuous yellow, pink or white flowers growing on threadlike stems of similar color. It may grow upon and draw its nourishment from almost any herbaceous upland plant, but it thrives best on clovers.

plant, out it thrives best on clovers. The seeds are generally introduced with impure clover or distributed with hay. The seeds germi-nate in the soil and grow up as do the clover plants. After growing several inches high it clings to some green plant. When it binds this host plant tightly many roots or suckers are produced and grow into the tissues of the plant, elaborating its sap. The clover plant, when thus attacked, usually dies, as

It is announced that the Dominion Expres It is announced that the Dominion Express Company has reduced its rate on fruit from British Columbia to Winnipeg from \$4 to \$2.40 per 100 lbs., and \$2.25 per 100 in 1,000 pound lots. The B. C. peo-ple are endeavoring to supplant the California fruits in the markets of Manitoba, and as they are paying more attention to the selection of varieties and the conditions of shipping, they should, with the more favorable express rates quoted, succeed, which would be greatly to the benefit of both provinces in retain-ing the money, formerly going to the States, within Canadian territory. Canadian territory.

short manure is available and is applied as a aniess short manure is available and is applied as a top dressing, being worked into the soil with harrow and cultivator. In all these cases it is well to make calculations for re-seeding to grass and clover, sowing say three or four pounds of timothy with the wheat, or soon after, and a full seeding of clover in the spring, to fertilize the field by the growth of a clover crop, which is one of nature's best restorers of fertility.

### Sow a Piece of Rape.

Sow a Piece of Rape. Every farmer who keeps sheep or young cattle will find it profitable to have a few acres of rape for late fall pasture. No crop will produce as much succilent feed or force young stock on in condition so rapidly. It may be sown profitably any time up to the middle of July, but the last week in June is the ideal time to sow. Clover sod may be plowed down after the early cut crop is removed, and will make a good preparation for rape, which may be sown on the level with a grain drill if a turnip drill that will sow on the level is not available, using the grass seed attachment of the drill, closing part of the holes and running the seed down the rubber tubes, which may be slanted to carry it to the hoes in use, sowing two or three drills at a time from 20 to 26 inches apart as the division of the hoes on the drill will admit. Oultivate a few times with the horse hoe to keep down weeds and promote the rapid growth of the crop.

### VETERINARY.

### The Housing of Live Stock with Regard to Health.

BY C. A. SANKEY, V. S., LEWIS CO., N. Y., U. S.

BY C. A. SANKEY, V. S., LEWIS CO., N. Y., U. S. A. My attention has recently been turned to a subject of great interest to farmers and stock-owners, namely, the proper housing of live stock during the long winter months of our severe northern climate. The importance of the great dairy and live stock industry justifies the applica-tion thereto of the best results of scientific experi-ment and structural skill in the erection of suitable buildings for the shelter and care of the animals upon the output of which the profits of the industry depends. Regard for economy and convenience, the smallest possible pecuaiary outlay with the best facilities for attention to the stock, looking to investment and labor, has led to the combination of barn and stable in one building. While this combination has many commendable features, it has also serious disadvantages which are liable to imperceptibly defeat the prime object of the inhas also serious disadvantages which are liable to imperceptibly defeat the prime object of the in-vestment and render the enterprise unprofitable through an unthrifty condition of the stock from overcrowding, the results of which are that the circulatory system of the animals is impaired, digestion is only partially performed, vital stamina is lowered, and the resistant power to disease is diminished. These results become definite in the poor showing of the farmer's ledger at the end of the year.

the year. Several things have tended to bring this subject prominently to my notice during the past few months, among which may be mentioned the in-spection of some unhealthy cattle which I found housed in a faulty barn, the perusal of various plans for barn and stable buildings which have appeared in this journal, and a suggestion con-tained in a letter by Mr. Arthur Johnston, of Greenwood, Ont., which appeared in the issue of Jan. 15th, commendatory of my article on Tuber-cular Infection in the issue of Jan. 1st, which, with other like favorable comments, I desire gratefully to acknowledge. to acknowledge. Mr. Johnston was more than right in saying a good word for light and ventilation in stables, and it is to the unfolding of this suggestion by showing how essential these are from a sanitary and eco-nomic point of view that I now address myself. If rational methods of barn architecture conduce at once to the maintenance of the highest standard of health and the most economic and profitable care of stock, there is surely sufficient inducement to the consideration of this subject.

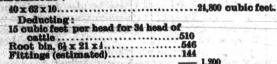
prevention of disease and the maintenance of health under these conditions as factors in the problem. The solution of this problem lies in the application of the principles of animal hygiene to barn structure, and let not the farmer be afraid of the application of science to this matter, for true science is essentially practicable. In what follows I shall use data supplied by that eminent authority, Fred Smith, F. R. C. V. S., in his work on Veterinary Hygiene. Dr. Smith stands at the head of the Army Veterinary Depart-ment of Great Britain, and is consultant in the building of military stabling. His statements may be accepted with the greatest confidence, and my calculations and deductions will be based upon them.

For the maintenance of health the exhalation of carbonic acid gas from the lungs or arising from excrement must not accumulate in excess of .2 per excrement must not accumulate in excess of 2 per 1,000 volumes. The gas ammonia is also largely present in the cattle stable, and that is detrimental to the system generally and to the eyes in partic-ular. Besides the poisonous effect of these gasses in themselves, if an atmosphere befouled by their presence has to be breathed by stock any microbic infection present has a good opportunity to get in its fine work. The average amount of carbonic acid gas exhalation is 6.5 cubic feet per head per hour for animals weighing 1,000 lbs. A supply of 32,500 cubic feet of pure air per head per hour is therefore necessary in order to the maintenance of a healthy standard for animals of this weight. Reducing this to the average weight grade of the stock contemplated, we have 32,000 cubic feet per head per hour as the neces-sary supply. sary supply.

### AN ILLUSTRATION.

To illustrate my argument I will ask my readers to study carefully, with the accompanying descrip-tion, the plans for a "Well-contrived Barn" in the FARMER'S ADVOCATE of March 1st, page 102. These plans are probably better than the average of actual barns, and are referred to not for special animadversion, but to give concrete effect to the discussion

In the description the height of the masonry of In the description the height of the masonry of the main building, which alone we are discussing, is given as nine feet. Allowing one foot for joisting, I think I am safe in assuming that the height of the basement story is certainly not more than ten feet. We have, therefore, the following dimensions :





Dividing this result by 34, the number of head of cattle for which fixtures are placed, gives 604.4, or say, roughly, 700 cubic feet of available air space per head as the most liberal construction the plan admits of.

Without ventilation such space would be contaminated with carbonic acid gas to the extent of 9.3 per 1,000 volumes in one hour. Alarming as this appears, the vitiation can be remedied if suffi-ciently frequent changes of air can be made so as to dilute or remove these poisonous exhalations. In our northern climate, however, the condition of cold is a factor to be contended with, and the necessary introductions of pure air to maintain the health standard of .2 per 1,000 volumes would be not less than 454 times per hour, or about once every minute and a half. With such frequent changes of air the temperature of the stable would be practically the same as that outside, the extreme cold making great demands upon the feeding simply to maintain body heat. Yet the failure to effect these changes of air where by the cubic contents of stable space per capita of stock they are necessary is precisely the reason why cattle will come out from the pretentious new barn in a less healthy condition than from the old straw-chinked stable with its unintentional provision for ventilation, the same care in other respects being exercised in each.

morning. The root bin will also have to be left out. These changes would yield the following result :

40.040 cubic feet.

### 475 Available air space..... 39,565 cubic feet.

### A VENTILATION SCHEME SET FORTH.

The best mode of ventilation now claims our at-tention. I regret that the absence of side elevation or sectional view in the plans we are reviewing leaves us without precise knowledge of the means of ventilation employed therein. I can therefore only state what I conceive to be necessary and eable

Adjustable windows are, as a rule, unsatisfac-tory on account of their fragile nature and the tendency of frames to swell under the influence of tendency of frames to swell under the influence of moisture. Windows should be used only for the access of light, and should be made double or pro-vided with storm sashes for the saving of heat; and, indeed, every part of the building should be made as cold-proof as possible, since every unit of heat thus conserved may be reckoned as a bank ac-count on which we draw for the purchase of the pure air necessary for health, and the balance of which means economy in feeding and increased productiveness. Neither can doors be relied upon for ventilation, though useful for occasional flush-ing, since it is during the long nights when pru-dence tells us that they should be locked that the greatest need obtains for a regular change of air. reatest need obtains for a regular change of air. A draft is in nowise necessary in order to per-fect ventilation, which consists essentially in the dilution of vitiated air by the gradual perflation of pure air, or simply by the diffusive power of the

In vertical ventilation shafts, as ordinarily con-In vertical ventilation sharts, as orumarily con-structed, there is great difficulty in maintaining the up draft, from the tendency of the foul air to have only a slight amount of buoyancy, and to balance in the shaft, becoming when cooled of equal weight with the surrounding medium in the upper part of the shaft. The only mode of construction part of the shaft. The only mode of construction I have found successful is making them two feet square, with smooth boards on the inside to avoid friction, dividing the shaft vertically and corner-wise from end to end, and having it project two feet from the roof, with side openings for the four compartments and a suitable covering. Thus con-structed, the shaft becomes a combined up and down continue of the shaft becomes its up and down disaft down ventilator, changing its up and down draft according to the direction of the wind. Shafts thus constructed work admirably in small stables; thus constructed work animative in share a second or is but in stables on the scale we are considering horizontal ventilators placed between joists, with openings on the sides of the building, and conveyors to carry the fresh air one-fourth across the building, give better results. A word must be said concerning the area of ven-

tilators. In the plans being reviewed I notice there are in the cattle department three shafts, the combined area of which is fifteen square feet, which would not begin to effect the changes of air re-quired by the number of stock contemplated for the space. For twenty-five head of stock twenty square feet of ventilator area on each side (for in square reet of ventilator area on each side (ing an and out draft) would be required, assuming an average wind rate of eight miles an hour. Slides would, of course, have to be provided for use in case of special draft; and in order that only pure air be admitted, without which the whole purpose of the provision would be defeated, it is absolutely necessary that manure be not deposited under the openings of the ventilators.

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### SUNLIGHT A VALUABLE GERM DESTROYER.

The benefits of light justify the trite statement The benefits of light justify the trite statement that you cannot have to much of it. It is not generally known, though it ought to be, that the best, cheapest and most easily applied germ-destroyer is bright, hot, dry sunlight. The most thrifty microbes cannot live in its presence more than a few hours, while in a dark, dank place they will thrive, and it would seem that the whole wicked brood love darkness rather than sunlight because of their evil deeds. Put in, therefore, all the windows you can, and if your animals "laugh and grow fat" from the increased pleasure brought into their monotonous existence, as probably they will. you will not object.

The principal interest of the subject, however, centers in the matter of accommodation and ventilation or the provision of the necessary space so that the animals may have an adequate supply of pure air, for it is in this respect that the gravest sins against nature's laws are committed and the greatest need of improvement in our barn buildings obtains.

The natural life for stock is, of course, out in the green field where everything conduces to health. But the necessity of winter sheltering confronts with the artificial conditions it involves, and this has to be considered, with provision for the

### THE ASSOCIATED MANURE SHED CONDEMNED.

The manure shed in the plans under review can-not but be regarded with disfavor. Any receptacle for the temporary deposit and rehandling of excre-ment so eituated would only increase the trouble. ment so situated would only increase the trouble. In such a place and under such conditions the liberation of ammonia would be very considerable, and that of carbonic acid gas would be from .9 to 3.0 per 1,000 volumes; and if heating of manure ensues bacterial spores will fill the surrounding air and be carried to the adjacent stables.

The fact is, there are fixtures for double the number of cattle that in cubic dimensions the building is adequate for when conditioned by the necessity of protection from the extreme cold of our rigorous winters. Seventeen is the utmost number of stock which such a stable would Seventeen is the utmost properly accommodate. It might, however, be made to accommodate twenty-five head by certain alterations which are perhaps possible. At least 1,500 cubic feet of space per head must be provided, though 2,000 feet would not be any too much in our climate. This would require that the stable basement be made 13 feet clear of floor and the total area of the manure shed be added, the space of which could then be advantageously used as a Animals, we know, can adapt themselves to a driveway to remove the stable clearings every great variety of adverse circumstances, but the

### PRESERVE FRED FROM CONTAMINATION.

In regard to the feed storage upstairs, though very convenient, unless it be well protected from the gasses ascending from the stables by the tightest fittings and covered chutes, the feed will not be improved in quality, and may become seriously contaminated by microbic foes.

In conclusion, I would say that stock-owners should realize that light and pure air are just as necessary as foods; that nature supplies us with an unlimited quantity of these free of charge; that windows and ventilators are all that is neces ary to windows and ventrations are an inter that is because in a give access to these important vital agents; and that space is an absolute stable requirement of the latitude in which we live; and also that the extra expense involved in a good building is very little when spread over a fifty years' term of usefulness. The tendency of the time is towards the large, pretentious barn, which has so many valuable fea tures to commend it, and makes such a show on the farm; but I believe that the best results will be obtained in the single-storied stable, with moderately-pitched roof, and separate building for feed storage, which, being adjacent to the stable, will allow of the feed being mechanically distributed to the stock by means of travelling conveyors.

Animals, we know, can adapt themselves to a

898

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FARMER'S ADVOCATE. THE

stock-owner will best secure his interests by follow-ing the principles I have imperfectly set forth. Nor do these principles apply only to the cattle stable, but also to the horse stable as well. The maintenance of health commends itself from a humanitarian as well as from an economic standpoint, for the enjoyment of health is the right of all creatures, and we should provide, therefore, as far as possible for our dumb friends, to whom we are indebted in so many ways for profit and pleas-ure, and with whom we are involved in the conse-quences of a common environment.

### DAIRY.

Revision of Rules and Regulations of the Dairy Department of the Provincial Winter Show.

Dairy Department of the Provincial Winter Show. The committee appointed to revise the Rules and Regulations of the Dairy Department of the Provincial Winter Show met at the Royal Hotel, Guelph, on Saturday, June 4th. Members of the committee present were Prof. H. H. Dean, G. W. Olemons, G. E. Day, and W. E. Butler. The clauses in which a change was made now read as follows: (a) The following entrance fees will be charged and must accompany each application for entry, for which accommodation will be provided; for each entry, with the exception of those designated "Special," \$2.00. (b) The age of dairy cattle will be computed to the 1st of August. (c) Cows must all be giving milk, and the awards shall be made by the following scale: 10 points for constitution and conformation, 20 points for each pound of fat, 4 points for each pound of solids (not fat), 1 point for each 10 days in milk after the first 30 days (limit, 30 points). (d) An affidavit will be required from each achibitor in the Dairy Department stating the number of days his exhibits have been in milk, also stating that each exhibit is shown in her proper class, and that she is the animal named on the registration certificate produced. (c) Prizes in the Dairy Department will not be paid for one week after the show is held. This rule is made necessary on account of the large amount of work in figuring out the result of the test. As the show this year will be held on Wednesday, Thursday, and Friday, the test will take place on Wednesday.

### Ensilage Feeding and Good Butter.

To the Editor FARMER'S ADVOCATE : SIB,-Apropos the question of the silo and en-SIR,—Apropos the question of the silo and en-silage and the adaptability of silage for feed, on enquiry at Avonbank factory regarding results for last winter, Mr. Jos. Lang, buttermaker, handed me letters received from Messrs. Park & Blackwell, of Toronto, and Peebles, of Hamilton, on the closing of the year's business. Appended are extracts: Toronto, May 25th, 1898.

Avonbank Cheese and Butter Mfg. Co., Avonbank: We are pleased to say in closing the season's account that the quality of

closing the season's account that the quality of the Avonbank butter during the past season has been quite satisfactory, and the trade here are now well acquainted with the Avonbank brand, and will look forward to receiving same next season, when your company resume buttermaking opera-tions tions

Yours truly, PARK, BLACKWELL & Co.

Hamilton, May 26, 1898. Hamilton, May 26, 1898. Avonbank Creamery Co., Avonbank, Ont.: DBAR SIRS,—Enclosed you will find check in DBAR SIRS,—Enclosed you will find check in Bar Sirs,—Enclosed you will find check in Bar Sirs,—Enclosed you will find check in Bar Sirs, Si

### A Great Dairy Cow.

To the Editor FARMER'S ADVOCATE: SIR,—Enclosed find photo of our celebrated grade cow,Scotch Lassie, from pure-bred Shorthorn cow and sired by registered Holstein bull, Prince Seward. This cow last year in a little over ten months gave 17,731 lbs. of milk, totalling 765 lbs. butter, a record which, in my opinion, shows what careful breeding, scientific feeding, and care and study of the individual animal will do. The above total is included in year's record of Mr. Tillson's 55 cows, given in your valuable issue of the 16th ult., showing an average per cow of 10,242 lbs. of milk, and 418 lbs. butter, for 11 months and 42 days. We are raising a heifer calf from this cow which it would be difficult to buy at any price, and last year's bull calf we propose using on a few good To the Editor FARMER'S ADVOCATE :

are raising a neifer call from this cow which it would be difficult to buy at any price, and last year's bull calf we propose using on a few good cowe by way of experiment, although Mr. Tillson is adverse, on principle, to using anything on his herd but a *first-class* thoroughbred bull. Please note that by no means do I advocate the exclusive using of grades. The herd here is con-stituted of very excellent pure-bred Holstein cows, giving from 60 to 65 lbs. of milk per day on date of writing, and for which Mr. Tillson paid a handsome price; but I do claim that by careful selection, use of weighscales and Babcock test, and study of the individual ani-mal, very much can be attained to bring the stock to a point of perfection. Most dairymen must now know that the making of a good milker begins be-fore birth, by the proper breeding, feeding and handling of the mother. JOHN D. MACLEAY, Farm Manager.

JOHN D. MACLEAY, Farm Manager. Norfolk Co., Ont.

### Influence of Food on the Quantity and Quality of Milk.

The quantity and quality of milk as influenced by constituents and conditions of rations of cows has been the subject of much discussion during the last few years, and the end is not yet. Mr. F. J. Lloyd, F. C. S., Consulting Chemist to the British Dairy Farmers' Association, in a paper read at a recent conference of the above Associatian, goes into the subject very fully and arrives at some im-portant conclusions which agree with both science and practice. The author of the paper points out



SCOTCH LASSIE"- SHORTHORN-HOLSTEIN CROSS MILK RECORD, 17,731 LBS.; BUTTER RECORD, 765 LBS. IN TEN MONTHS.

fattening, but in doing this its secretory power is diminished. Hence the ultimate result of a food excessively rich in nutriment is not to increase the milk yield, but to diminish it.

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285

milk yield, but to diminish it. In considering the effect of a food deficient in nutriment it might be pointed out that the tend-ency to produce milk, following out the general law of nature whereby the maintenance of off-spring is a more powerful influence than self-preservation, is, as a rule, stronger than the tend-ency to preserve the food stored up in the body. Hence, the effect on the milk of a deficiency of nutriment in the food is for some time very slight, but it will tell on the body of the animal and there will be a gradual loss of weight. For some time only the scales would show the effect of this in-sufficient food, and not the milk. Hence no experi-ments on the effect of food on milk supply are conclusive which do not take into consideration the effect on live weight, for the two are insepar-able.

the effect on live weight, for the two are insepar-able. There is for every individual cow a maximum quantity of milk which she can yield at any one milking. This depends upon the capacity of her udder. The late Mr. C. E. Tisdall, who had devoted years of study to the milking capacity of cows, accumulated a number of measurements of the udder, and claimed that by a careful measurement for the udder it was possible to form a very approxi-mate estimate of the quantity of milk a cow can yield, provided the feeding was so regulated as to prevent any fattening of tissues of the udder. Now, it is perfectly evident that if a cow is receiving an ample supply of food containing the necessary constituents for the production of milk she will make the maximum quantity her udder will hold. Some experimenters, starting with cows in such a condition, and finding that an increase in the quantity of food, or variations in that increase (which did not diminish its nutritive value), pro-duced, as was natural, no increase in the quantity yielded, have jumped to the conclusion that food has no effect. This is one of the most striking sources of error which experimenters have been led into. The quality of milk is dependent on certain

into. The quality of milk is dependent on certain factors quite irrespective of feeding. Primaril any influence which diminishes the quantity tend to increase the quality, hence the richness of the milk of small breeds. Heifers too, whose und ders are not fully developed, yield richer mil than they will produce subsequently as cows, but the quantity of this milk is small. Again, it cows decrease in volume of milk as the period of lactation advances they give milk of increasing richness.

take this opportunity of saying that your butter has given us the very best satisfaction during the past season. Not even once during the season was past season. Not even once during the season was it the least bit off, which is saying a great deal. It is very pleasing for us to be able to speak in this way, for as a general rule when we have to write about butter it is to make complaint, as we are con-sidered cranks on the butter question. Therefore you may consider it quite a compliment for us to have nothing but words of praise for the even and you may consider it quite a compliment for us to have nothing but words of praise for the even and first-class quality of your butter, and from the satisfaction given we expect to double the sale next year. Hoping to handle your butter as usual next winter, I beg to remain, etc., C. H. PEEBLES, Grocer, Hamilton.

Messrs. Park, Blackwell & Co., of Toronto, and Peebles, of Hamilton, have handled the output of Avonbank since first operated. As stated in your last issue in regard to the silos in this vicinity, fully 50% of the butter was made from cows fed on ensilage, and proves conclusively that good creamery lage, and proves conclusively ensilage. butter can be produced from ensilage. Jos. MOUNTAIN.

Perth Co., Ont.

### A Big Day's Make of Butter.

A BIG Day'S liake of Butter. On one Monday recently, says the Argus news-paper, "the St. Mary's Creamery Co. separated over 150,000 pounds of milk, and on May 31 churned 6,272 pounds of butter. This is the largest day's make yet in the creamery, and without doubt the largest quantity of butter ever made in one creamery in the Dominion of Canada in one day. Why, if the promters of this concern had made any Why, if the promters of this concern had made any such statements that within six months of starting over three tons of butter would have been made in one day their audiences would have thought them one day their audiences would have thought them ready for an asylum. But there it is. For May the output will be over 95,000 pounds of butter. In April 17.43 cents was received for butter; with 34 deducted for making, the net returns were LUB cents.'

that after careful study of the results of very many experiments he is firmly convinced that the food of a cow may materially influence both the quantity and the quality of her milk. The reason that the results of so many experiments have been so con-flicting is that experimenters have neglected to take into account the inevitable limitations and conditions with which nature has hemmed in this subject.

subject. In every milking cow two tendencies are at work. The one is to convert the nourishment which is supplied by the food to the blood into the milk; the second is to store up that nourishment in the body. The relative strength of these two tendencies varies greatly in different breeds of cattle. This peculiarity is even more marked among individuals than it is in the various breeds. Hence, in every milking animal there is a constant among individuals than it is in the various breeds. Hence, in every milking animal there is a constant struggle between the two tendencies. Sometimes a comparatively slight or simple cause may upset the balance. Take as example the effect of cold. An exceptionally cold night will cause a marked decline in the milk yield of a large herd. The materials have been utilized for maintenance, the demand for animal heat for the time being hav-ing exercised a more powerful influence than that ing exercised a more powerful influence than that of milk production.

of milk production. In a similar manner the character of the food supplied to an animal may affect either tendency. Thus, if the food provide an excess of some particu-lar constituent, this will ultimately strengthen the tendency for which this constituent is most adapted. tendency for which this constituent is most adapted. For example, a cow fed with an excess of starchy food, having used all that it requires for milk pro-duction, will still be left with a surplus of nutri-ment in the blood. This will be utilized by the tendency of the cow to fatten. In a similar man-ner an excess of nitrogenous food — which, how-ever, is far more rare — will produce a tendency to make flesh. The invariable result of an excess of nutriment is to increase the live weight of the make nesn. The invariable result of an excess of nutriment is to increase the live weight of the animal. It may be well to here follow out this effect on a milk cow to its final result. The udder, like every other tissue of the animal, is capable of

the quantity of this millt is small. Again, as locks decreases in volume of milk as the period of sciences. The wing the entire situation, Mr. Lloyd is left with say generately, combining the volume of a struck by, instead of considering units and quality separately, combining the volume of a struck by, instead of considering units and quality separately, combining the volume of a struck by, instead of a structure of solid matter, whether fat or non-faity solids, which the animal has produced as milk, together with any gain or loss in live weight which has scomes nothing "indubitably holds good in feed upon the stock of nutriment in the blood, whether that antriment be supplied by the form of from the animal's body. "In my opinion," concludes the writer of the regards the effect of food on milk rows will neither fait not lose in live weight, and under such on still which her physical conformation permits, and that will be a maximum epithelial growt. "The food which produces such results is an indik will have its maximum quality; i.e., and the animal's be grown in the struct which man possesses is a good passure. The which man possesses is a good passure. The food which produces such results is an indim will produce the maximum quality; i.e. and the struct. If an excess of nutriment is holden are possesses is a good passure. The issue the tendency to fatter will gradually out-siven the tendency to fatter will gradually out-siven the tendency to fatter will gradually out-ister the tendency to fatter will gradually out-ister the tendency to fatter will meaning apartity will have deficience of the store ondition. The result was have marked when there is simultaneously and and lastly the quantity. These results will we have deficience of the food to replend in quantity and quality of the milk, but it will not be immediate. Experiments – they are not con duced to a sufficiently long period. "Some years age learned of milk news on varies struce the animals were on. This, I think, will be the i

milk."

Ask your neighbor if he reads the FARMER's ADVOCATE. If he does not get him to subscribe for it.

### POULTRY.

### Gapes in Chicks.

Gapes in Chicks. The Editor FARMER'S ADVOLATE: Sing—In your issue of May 16th, Mrs. D. H., of orth Co., asks a question regarding young chicks. rom description of symptoms I would think incks are suffering from gapes, caused by a small orm in the windpipe of the foul (although a little arty in the season); but if she will examine some t the chicks by cutting the windpipe open, she will probably find a number of small red worms bout half of five-sighths of an inch in length— one whave found is to keep all drink from chicks of a few hours, and then give drink of alum dis-olved in water till water is quite sour; give no other rink. There are numerous other remedies, but we ave found this the simplest and best. For larger hicks, soak some corn in alum water and let them at it. If Mrs. D. H. will please report after ex-mination, she will confer a favor on the numerous saders of the ADVOCATE. W. W. K. Kent Co., Ont.

### Pens for Poultry.

Pens for Poultry. To construct a good feeding pen that will admit hence, turkeys, etc., procure about six yards of poultry wire netting, two feet wide, and having a hence-inch mesh. This will not cost more than wenty cents. Four stakes should be driven into twenty cents. Four stakes should be driven into a ground to form a square, a yard and a half each way; around these the wire is stretched and the mais united; the pen is complete. The food may be placed on boards in the pen and the young fowls will pass in, while the older birds are so busy trying to get through that they never consider that it work possible to fly over. If the pen is desired to constructed of netting having a mesh of only two inches; while if it is desired to restrain the wander ings of very young chickens, turkeys or ducks, a finer mesh will be required. But in this case it must be constructed so that it may be easily moved from place to place, and, of course, must be much arger, having room for a coop in the center of the pen. If the coop be placed near one side, hens will be found much superior to the to be of the coop, will be found much superior to the other of the coop, will be found much superior to the other of the coop, will be found much superior to the other of the coop, will be found much superior to the other of the coop, will be found much better, and are not so apt to get tow and look much better, and are not so apt to get tow and look much better, and are not so apt to get tow and look much better, and are not so apt to get tow and look much better.

### Infertile Eggs and the Poultry Industry.

Infertile Eggs and the Poultry Industry. Only those who have to depend upon the open market for their supply of eggs realize, especially during the warm months, what a quantity of eggs are wasted each year by becoming stale or rotten. True, the average housekeeper on the farm knows how necessary it is to break the eggs one by one into a cup before consigning them to their culinary destiny. Now, as we have often pointed out before, these difficulties arise only when the eggs have become fertilized. Eggs do not soon become rotten when there is no male bird in the poultry yard. An unfertilized egg will come out of an incubator or from under a hen at the end of two weeks perfectly clear and fit for cooking purposes, while an impregnated egg, if sat on for forty-eight hours, will, at the end of another week, even if kept in a cool place. be of bad odor. The germ will have commenced to live, and afterwards began to decay. hours, will, at the end of another week, even if kept in a cool place. be of bad odor. The germ will have commenced to live, and afterwards began to decay. The story is told of two poultrymen, one of which cracked the shell of an egg and asked the other to decide whether or not it was all right. The reply he made was to open the shell and consign the contents to his digesting machinery. So freeh and palatable was that egg that even after he had learned that it had been sat on by a hen for four weeks he had not the slightest desire to rid himself of it. Of course, the egg was unfertilized. Speak-ing from experience along this line, we may say that for two seasons we have allowed no male bird to run with our hens, and while we are convinced that the egg returns have been just as large per hen as on previous years when male birds were running with the flock, we have never had bad eggs to contend with during that time. What about chickens? some will ask. We have no difficulty about that, as our neighbor, who keeps a beautiful flock of Plymouth Rocks, is always willing to exchange eggs whenever we have hens wanting to sit. The objection has been raised by some that hens will steal away their nests during the summer months and will, in such cases, bring forth fine brods of chicks from fertilized eggs, whereas infertile eggs will be all lost in such cases. Granted that some such loss may occur, we believe the most profitable and satisfactory results are secured when the breeding is managed as it is with other stock—by selecting the stock from which we would wish to breed, instead of being compelled to throw away large quantities of stale eggs that need not have been stale. Wiewing the matter from a breeding standpoint, odds are in favor of selecting the stock to be mated ; in fact, it is only in this way that improvement in odds are in favor of selecting the stock to be mated; in fact, it is only in this way that improvement in the flock can be accomplished. Every hen is not fit to breed from, any more than every cow will raise the most desirable class of dairy offspring. This

good size and of such a character as there is no doubt about, and for poultry by furnishing a plump, well-developed and nicely dressed class of birds. There is, perhaps, greater room for develop-ment along the poultry line than either meat or dairy products, and those who exercise the greatest skill and intelligence with their flocks will reap the benefit which will surely come.

### **Rearing Ducklings.**

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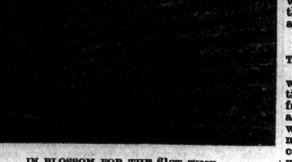
GARDEN AND ORCHARD

A Grand Old Pear Tree.

the fact too often on the pickers that they must b

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fairness is maintained. When the strawberries are past, raspberries, blackberries, and other fruits are engaged, so that a continual succession is had throughout the sum-mer. Customers are often unreasonable in their demands, and one's patience is often severely tried, but never forget that to quarrel with them should be the last thing. Be sure you are right, then be firm, courteous, and liberal. There is much hard work connected with marketing in this way, but to the person who has tact and snap there is pleasure and profit in it.



### IN BLOSSOM FOR THE 61ST TIME.

The pear tree illustrated herewith, reproduced from Agricultural Gazette (Eng.), would not readily be recognized by Canadian born readers without the name beneath, but Englishmen will be re-minded of the custom of training fruit trees upon the sides of walls in the old land.

### Boxing and Marketing Strawberries.

Unless strawberries and other fruit are packed to as to be opened to the market in firm, fresh and inviting condition, much of the season's work with inviting condition, much of the season's work with the crop is lost. It is well in selecting pickers to be guided by the personal appearance of those who make application. A dirty, untidy person, be it boy or girl, woman or man, is rarely satisfactory as a berry picker. When one has a number of pickers employed, as a rule they are not all equally careful. A good means of detecting the poor pickers is to give every picker a number which he or she must mark on the bottom of each box as it is brought in. In this way every picker's work is easily examined, and the bad pickers discharged or otherwise dealt with.

Strawberries should be picked with a stem about

### Spraying of Fruit Trees. To the Editor FARMER'S ADVOCATE

SIR,-I am sorry Prof. Craig thinks my formula SIR, -I am sorry Prof. Uraig thinks my formula will produce Bordeaux mixture unsafe for applica-tion on plum or peach trees. I copied that formula from a bulletin issued in 1896 by U. S. Government, and which was written by Prof. B. T. Galloway, who is considered the highest authority on such matters obtainable. If what Prof. Oraig says is correct, the U. S. Government is doing a serious wrong to the fruit-growers of America by publishwrong to the fruit-growers of America by publish-ing for distribution all over North America a bulletin the formulæ of which are "entirely un-safe." My experience in spraying is this : I began to spray some five or six years ago. For the first three or four years I used the original Bordesux mixture (as given by Prof. Oraig in the April 1st number) on plum and apple trees. Two years ago I received the above mentioned bulletin, and I have since used the formula recommended in it which I since used the formula recommended in it, which I find to be nearly as efficient as the original one. In all the time I have been spraying, I do not think I ever noticed a leaf injured on plum trees the injury of which could be attributed to the Bordeaux mixof which could be attributed to the Bordeaux mix-ture. As far as I remember, I sprayed twice, and did not find it necessary to spray with Bordeaux mixture more than twice a year; and now the trees are looking fine. The varieties of plums I have sprayed are Moor's Arctic, Damson, Sugar Plum, and Monroe. Now, I wish to direct Prof. Craig's attention to the formula given in Mr. Caston's attention to the formula given in Mr. Caston's article (which he recommends as sensible) for the preparation of Bordeaux mixture. He will find it to be precisely the same as mine, with Paris green at a much stronger ratio; yet his is "sensible" and mine is "entirely unsafe." This looks bad, espe-cially as Mr. Caston's article contains a compli-mentary reference to Prof. Craig and mine does not, which some people would say was the reason the most desirable class of dairy onspring. This journ of the back of the provide of proced with a stem about mine is "entirely unsafe." This looks bad, especially as Mr. Caston's article contains a complication than is usually given it. Markets for eggs can be developed only by supplying eggs of and laid in the box. At least one cannot impress not impress of the provide the provide the procedulation of t

the difference, but which I do not believe, and I ope Prof. Uraig will furnish a better one. Wishing the FARMER'S ADVOCATE and also Prof. Craig suc-sis in all undertakings. E. EDWARDS. P. E. Island.

### THE HELPING HAND.

TONE 15, 1898

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### How to Tramp Hay in a Mow.

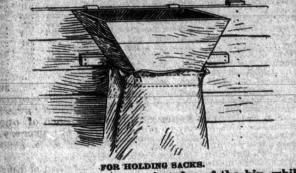
How to Tramp Hay in a Mow. At this age of hay loaders and horse forks the now hands, especially in shallow lofts, find it difficult and often impossible to give the hay suf-ficient tramping to get as much in as the loft should hold. We recently learned, while in conversation with one of our best farmers, that astonishing results in compressing hay can be accomplished by the entire force of the farm going up at noons and in the mornings, and all moving forward together, shoulder to shoulder, keeping in step and springing down at every short step. By going over a mow a few times in this manner on several occasions dur-ing the filling of the loft, the hay will be pressed so tightly that it will settle very little after the mow is filled.

### Hurdles for Guiding Hogs,

At this season of the year there is more or less necessity for catching hogs or driving brood sows quietly from place to place on the farm. A hog is not the easiest animal in the world to drive. We have always used sheep hurdles for this purpose, but recently have noticed a device like the illustra-tion herewith shown. It is composed of two long, light hurdles hinged to a short gate. This permits turning it at any angle, and when in the hands of two persons it enables them to do wonders in driv-ing the most obstinate hog.—Homestead.

### Filling Sacks Easily.

The accompanying illustration shows a conven-ient device for filling grain sacks. Strong iron



hooks fasten the box to the edge of the bin, while smaller hooks are put in each lower corner, to which the sacks are attached. The grain is then shoveled from the bin into the box.—American Agriculturist.

### QUESTIONS AND ANSWERS.

In order to make this department as useful as possible, parties enclosing stamped envelopes will receive answers by mail, in cases where early replies appear to us advisable; all enquiries, when of general interest, will be published in next succeeding issue, if received at this office in sufficient time. Enquirers must in all cases attach their name and address in full, though not necessarily for publication.]

ounce doses of nitre potash. She is not, apparently, any better yet. What is the matter with her, and what treatment should I pursue in order to hasten a cure, as I am wanting her to work? 2nd. When is the proper time to trim spruce for making a hedge?"

[No doubt the part was poisoned with Alsike clover bloom. Apply equal parts turpentine and olive oil every day for a couple of weeks. Then try iodine ointment, as follows: Potassium iodide, two drams; iodine crystals, one dram; salicylic acid, one dram; lard, two ounces. Rub in well every day. Keep the mare moderately quiet and feed her well on opening food, such as grass, bran and oats. It will require patient work to bring about a cure. 2. There is no better time to trim a spruce hedge than the month of June.]

### Aiscellaneous.

### A Breeding Problem.

QUERY, Peel Co., Ont :--- "Suppose A buys ten cows in calf ; that these cows breed regularly one calf each year ; that their female offspring each pro-duce a calf at two years old, and that one half the calves from the original cows and their female

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### HURDLES FOR GUIDING HOGS.

NORDLEB FOR COIDING HOGE. offspring are heifers, the male calves not being counted, how many will the herd number at the end of ten years, provided none have died in the meantime; and if the male calves also are counted, what would the number be?" [Will some one or more having time and the disposition to work out a complex problem please answer this question, which is not so easy and the result probably not so surprising as that of the question, " If half a cent is charged for driving the first of the 32 nails in a horse's shoes, and the price is doubled in the case of each nail driven, what will it cost to shoe a horse?"] Harvesting Lucerne, Clover Seed.

### Harvesting Lucerne Clover Seed.

J. A L., Peel Co., Ont.:-"I have some lucerne. clover which I intend cutting for seed. Could you tell me something about saving it for seed; whether I take the first crop, or, as with red clover, take the

I take the first crop, or, as with red clover, take the second crop ?" [When alfals is grown for seed, the second crop is the one usually saved. The yield from this is usually heavy, and ripens uniformly. The first crop does not often seed well, probably because the insects which aid in fertilization of the flowers are not present in sufficient numbers in May or early June when the flowers first open. The crop should be cut for seed when the pods are dark brown. Rake at once into heaps and allow it to cure there. If the crop is put together damp it is very liable to mold. In Kansas, Nebraska, and Colorado con-siderable success has been had in cutting the crop for seed with a binder, and threshing directly from the field or from the stack. Alfalfa can be threshed with sats of screens of small mesh, such as are used in hulling clover.] in hulling clover.]

### Goslings with Staggers,

J. F. H., Simcoe, Co., Ont :-- "Can any of the aders of the FARMER'S ADVOCATE tell me what readers of the FARMER'S ADVOCATE tell me what they think is wrong with my goslings and what to do with them? They are kept in the orchard and have plenty of good grass and water, but in the mid-dle of the day some of them got so weak they were unable to walk, and if taken into the house for awhile they would seem to get strong, and when taken out again would appear all right, but afterwards would take staggers and die. I gave them suphur in their feed, which consists of shorts and bread, but it did not seem to help them."

287

carpeted? Would it be hard to draw carpets? If so, could a strip of soft wood be put in all around edge of room?" I. Under no dircumstances will hardwood, ex-cept perhaps oak, last as long as posts as cedar or tamarack. 2. The best time to cut timber to secure thebest and most lasting quality of wood is when the tree contains the minimum of moisture, and that is in the autumn just after the leaves have fallen. We would suggest that the trees be cut at that time, allowed to season, and given a thorough painting with hot oil. 3. We think there would be very little difference in the lasting qualities of the which is claimed to remain solid longer than the others. 4. Maple is frequently used for flooring with the pine strip inserted around the edge of the room to tack the carpet to.]

### Wool Balls in Lambs

Weel Balls in Lambs. J. W. H., Peterboro Co., Ont:-"I had for lambs die since going on the grass, and when opened them I found a ball of clotted stuff in th stomachs like as if they had chowed up some woo or binding cord. The clots were as large as an eg and some larger, and so hard and matted one could hardly pull it apart with a stick. I had several d last spring, and the ones I opened were the same the lambs were on the grass two or three week when they died. Was that the cause of the death, if so, what caused it to gather?" [The wool balls were, no doubt, the cause death, and had probably been formed bufore the lambs went to grass from wool taken in a way possibly, while biting at ticks that were worry to them. Sometimes the ball is composed partly, wholly, of the fiber of overripe lucerne or oth clover or grasses. It is hardly possible to break such a combination with medicine, but a liber dose of castor oil will do no harm, and in son cases may be effectual in removing the trouble.] Origin of the German Coach Horse.

Origin of the German Coach Horse, W. Y., Lanark Co., Ont.-" Oan you give a ormation as to the breeds of horses from who German coach horse of the present day or bed ?"

the German coach horse of the present day nated ?" [Mr. A. B. Holbert, President of the G Coach Horse Association of America, writes they originated from the Arabian horses and during the last century there has been an in the blood of a few English thoroughbres Schlesing, Holstein, the stud book carries m the horses back to Kuherian-el-Ajur 30, a stall ported into that country just 50 years ago, a mare that carried the Prophet Mahomme Mecca to Medens A. D. 622. Stud books have showing a record of all breading stallions, to the "Koerung" Examining Committe through the 19th century, and some recor back as far as the 17th century, the first app about 1620; and in 1600 the Duke of Ne excellence, and uniformity of style, et mare thyle of recording horses in Germ different from the old as kept by the Gover-but all pedigrees and books are faced and by the old Government records as compiled "Koerungs" of the different provinces. we may say that the stud book dates back to authentic records from one to two and centuries in different parts of the empire.]

### MARKETS.



Landlord and Tenant. READER :— "A, the tenant, leases from B, the landlord, a farm for three years; the lease is in writing, but there is nothing in it expressly requir-ing A to sow any grass seed, either clover or timothy, nor is there any express clause providing against sowing successive crops of wheat, etc. Is A bound to sow any grass seed, and could he if he choose take off three successive crops of wheat from the same land?" [Unless the lease provides for the same, B cannot

from the same land ?" [Unless the lease provides for the same, B cannot compel A to sow any grass seed, nor can be prevent him from taking off three successive crops of wheat; but the ordinary forms of farm leases usually contain a clause requiring the tenant to crop and cultivate the land in a proper, good, husbandlike manner, and by a regular rotation of crops, so as not to injure or impoverish the land, and if the lease contains such a clause, then, of course, it must be observed in a reasonable way, and the question would be whether under all the circumstances, considering the quality and nature of the soil and the custom of the locality, such proposed seeding and cropping is a reasonable ob-servance of the agreement.]

### Veterinary.

### Lame Mare.

W. B., Haldimand Co., Ont .:- "I write to ask 1st, What is the matter with one of my mares? One of her hind legs swelled up and broke out from One of her hind legs swelled up and broke out from the pastern joint, and yellow, watery matter runs out. It is very painful. She holds her foot up when standing, but lies down a good deal, and is being flesh fast. She has been in Alsike clover. by you think that the clover would be the cause of Do you think that the clover would be the cause of her trouble? I gave her a quart of oil and one her trouble? I also gave twice a day half-

### Eradication of Burdocks.

R. O'DONOGHUE, Wellington Co., Ont.:-"Will you kindly inform me of the best method to get rid of burdocks ?"

of burdocks?" [The burdock belongs to the class of plants known as biennials, producing seed the second year, which is the last year of its life. If growing where they can be left until the flowers have formed, they may then be cut off near the ground and destroyed, and the root will give no further trouble. If it is desired to dig them up the first year, or during the early part of the second year, they should be cut off well below the crown, when the roots will die. If cut above the surface of the second year, the roots will throw up fresh shoots and propagate themselves afresh. Our method is to go carefully round the farm, especially along line fences, immediately after harvest and gather all the plants in flower and burn them. We thus prevent seed ripening and falling into the ground.] Hardwood for Posts and Floors.

### Hardwood for Posts and Floors.

### FARM GOSSIP.

### Prince Edward Island.

Prince Edward Island. The crop is all in here now, except the turn tion is well advanced for this time of the year once up finely and is growing well. Most factories opened about the first of the meanth of milk is fair, but there is not the hopeful fee to dairy markets that there was last year. The butter made than formerly at the factor orop this season will likely double that of last, are being raised where there used to be only on is the best for years and the hay crop promises roots, peas and con grown for cow feed, and wheat is worth \$1.10 ; oats, 40e. Considerab of potatoes have been bought for shipment bushel. Best fat cattle are worth 46e. How we of thic for best and 46e. for heavy fats. Mo being bred this year than for many years past the better prices obtainable for good horses. The Government to give grants for achibition. We have a Government inspector overing and stamping out tuberculosis. He have many cases of it yet. June 7th.

Prof. F. M. Webster, of the Ohio Exper-Station, after four or five years' study, believ has definitely located Japan as the orginal ho the San José scale. A few weeks ago he flowering cherries, imported by a U. S. nu firm from Japan, badly infested with the pest

### Canadian Bacon at the Top.

We notice by a recent report from Carter, Wilkinson & of Liverpool, Eng., that "Canadian singed Wiltshire, y to light," tops the list of quotations, at 46 to 48 lings, being ten shillings higher than the best quota-for American bacon, Canadian hams being three shil-s bigher than the U. S. product.

### **Canadian** Horses in England.

**Canadian Horses in England.** The English Live Stock Journal of May 6th contains the following encouraging note for our horse-raisers: "Canadian and United States horses have considerably dvanced in price in London. At a few of the late sales by motion every animal offered was disposed of at improved international offered was disposed of at improved probably the American-Spanish war has been the principal factor in an improved market, as in the case of wheat. The increased value of horses from the North American Continent will have its effect on the principal factor in an improved market, as in the case of wheat. The increased value of horses from the North American Continent will have its effect on the principal factor in an improved market, as in the case of wheat. The increased value of horses from the North American Continent will have its effect on the principal factor in an improved market, as in the case of wheat. The increased value of horses from the North American Continent will have its effect on the principal factor in an improved market, as in the case of wheat. The increase of owners of horses is all are encouraging for the present season. It may be prive trade all round, and the prospects of owners of horses in all their way to the Continent – to Belgian, Dutch, and German ports. They do not go direct to Fince ountries. These importations to the Continent doubtless is as English horses – not as 'made in Germany' or in the United States and Canada."

### Lincoln County, Ont.

**Lincen county, Ont** though everything in the for a good soaking rain. M. B.

### Toronto Markets.

"Why, times are good !" was the remark of several drovers the market. The great advance in the price of agricultural

fat and light advanced 5c.; the price is now \$4.50, and will likely continue next week. Too many light hogs are still coming forward. Heavy, fat hogs are still quoted at \$4.50 to \$4.90; for choice sows, \$3.25, and stags at \$2.00 per owt. June 11th, 1898.

### The Montreal Markets.

The Montreal flarkets. The runs of cattle on recent markets have been of a very place from one market be another. Neither has the price of stock on this market been very materially effected by the on-innous run of poor British markets. There is a light supply of oattle in the country, and it is evidenced by the light to steady receipts here, and whenever there is a sight apply of oattle in the country, and it is evidenced by the light to on the local trade. It remained for yesterday's trade, how-over (June 9th), to considerably disturb the even tenor of requirements, only 300 head of oattle being in. As there were expert oattle wasted to finish up a few lots, and as butchers were also in want of boef, there was quite a rush made for what stock was offered. Drovers, naturally, took and the result was it out a buyer 5c per lb. for almost any thing that would fill the bill. The bulk of the stock ranged from 4c to 5c, per lb. over the scales. Beep and Lambs. – Receipts shout 600 head, for which there was a good trade at 8b to 3b to \$6 for each, for which there was a good trade at 8b to 3b to \$6 for good to onoice pring lambs.

there was a good israde at Sic. to Sic. for shipping sheep; ic. for good to choice yearlings, and \$2.50 to \$4 for good to choice spring lambs. *Hides and Skins.*—In our last report of this market we noted a prospective advance of lo. per lb. on green hides, owing to pressure of opposition. That we were justified in our estimate of the market has been amply verified. On the date of your issue a sharp advance of lo. per lb. took place. It was only throwing fat into the fire, for this week two additional advances of lo. each took place on two successive days, and green hides are now worth to the butcher llo. for No. 1, 10c. for No. 2, and 9c. for No. 3. The cauge of the break was the kicking over the traces of one of the Quebeo tanners, who, not satisfied with the treatment meted out to him, placed a buyer of his own on this market, hence the speedy rise. There is, however, taking the price of hides in the States as a basis, plenty of room for butchers to get morefor their hides, and still leave room for a margin on their turnovers. Call skins, 10c. to 110. for No. 1; 8c. to 9c. for No. 2. Lamb skins, 20c. each.

### The British Markets.

Cabled advices this week were a triffe more encouraging for exporters of Canadian stock, but are as yet not sufficiently good to see much margin on shipments. Both London and Liverpool cables noted an advance of jc. per 1b. on Canadian stock to 10jc, per 1b., which it will be seen is just jc. behind your last cabled report. United States cattle, however, de-clined a jc. from this day week to 10jc, to 10jc, for choice per 1b. Argentines unohanged. Later advices received from Liverpool (June 9) show a small profit on shipments, but the same loss on London.

### May Live Stock Shipments.

The shipments of far this year show quite a heavy falling off in numbers from the corresponding period of last year, as will be seen in the accompanying table. Shipments so far in June only serve to accentuate the decrease. The following table contains a list of the live stock ship-ments from this port for the month of May, with comparisons;

To	No. of Ships,	Sheep.	Cattle.	Horses.	
			4.885*	355	N.
			4,6621	1,053	
		10	988 639		
	F		720	Complete Sta	
Glasgow	10	309	3,6691	213	
Belfast	1		an See Plan	18	
	s	309 2,736	15,563 18,073	1,669	
	luding 478 Unit	Charles and the second second second	s cattle.	Sec. Sec. Blag	
+	* 175	A			
1. Sec. 1. Sec. 1	" 42 '	a stand and a stand			
Included in	the above total	s to Live	rpool are	those of th	10

88. Sociaman, which salled on April 30th, taking 580 cattle and 139 horses. June 10th, 1898.

### Chatty Stock Letter from Chicago.

<text><text><text><text><text><text><text><text>

The av				of he	gs at	Chic	ago f	or mo	nths	men-
	98.	'97.	'96.	'95.	'94.	'93.	'92.	'91.	'90.	199.
Jan	233	217	236	223	251	217	235	233	241	
Feb	227	238	239	220	234	214	219	208	232	247
March	229	230	246	222	232	220	215	209	227 222	- 220
April	223	235	243	226	226	225	216	204	222	234 235
May	225	237	243	227	227	225	212	208	231	235
June		240	249	225	233	233	214	214	235	242
July		238	249	233	226	237	216	216	235	246
Aug		249	253	237	224	250	224	218	245	252
Sept		252	257	242	232	268	257	225	241	272
Oct		244	242	230	232	267	280	227	233 232	258 249
Nov		252	245	241	235	262	235	232		249
Dec	*•	245	254	243	229	255	230	242	232	251
Year		242	246	230	233	240	223	221	234	248

and are the principal causes and are the principal causes and are the principal causes on. The attention of Mayor growded state of our market, or to the effect that a site for This is not what is wanted. Mot, everything that can be play Park on both sides of to be in required. arket is required. od situation ; is f

and has caused to be issued a noise to the energi that is wanted. We have a good situation; is fast, everything that can be required in this respect—the Stanley Park on both sides of King street. What we do want is a live, bright business manager as market superintendent, and one with some ides of what a market is meant to convy—a prominent and con-venient place in the city where cattle can be exposed. for sale with safety to the public and promptness to the buyers. There has been more money wested in patching and renewing than would have made a thorough, substantial lairage and put a brick wall around the present market. Export Cattle.—The bulk of eattle on view to-day were exposers. Good fat cattle soid up to \$4.60 per owt.; medium to choice, \$4.50 per owt.; fair and good, \$1.125 per owt. Demand active. Many exporters had space to fill, and consequently all good choice cattle soid early. More could have been disposed of. Mr. L. H. Mann, of Ridgetown, Barbadoes, commissioned Mr. Maybes to purchase cattle for export via Halifax for the U. S. Army and Navy contractors. Twenty Polled Angus steers, fed by Mr. Massey, of the Messre. Massey-Harris & Co., at his farm on the York Town Line, were bought by Mr. Jeese Dum at \$1.60 per owt., averaging 1,445 hs. each. These were a fas, even lot of choice steers. Although not so heavy assome we have seen, were well finished and handled, and reflect great credit on the feeder. *Butchers' Cattle*.—Altogether there were better prices in this class of cattle; in fact, the best active market which has ruled for some time here. A great many Montreal buyers on the market to day. Choice ploked lots of butchers' cattle, \$3.65 to \$3.00 per owt. Good cattle, \$4 ; common cattle, \$3.65 to \$3.00 per owt.

at \$1.15 to \$3.39 per owt. Good cathle, \$4; common cattle, \$3.65 to \$3.30 per owt. Stockers.—In fair demand, and selling at \$3.65 to \$3.90 per owt. Not many on offer. Feeders.—Farmers are still anxious buyers, but the price seems to hold high and supply scarce, \$4 to \$4.12; per owt. Bulls.—Not many on offer; fair quality bulls, 1,800-lb, average each, at \$3.75 to \$4 per owt. Sheep.—Prices easy, at \$3 to \$3.25 for ewes. Bucks at \$2.75. Sheep.—Prices easy, at \$3 to \$3.25 for ewes. Bucks at \$2.75. Cates...For general run prices held firm at \$3 to \$6 per head : some extra quality reals brought \$7 to \$8 per head. Milk Cours.—Good average quality dairy cows, \$30 to \$45 per head. A choice dairy cow sold for \$55. Hogs.—As foreshadowed in my last, hogs fell off 10c. per owt. But they more than made that up by an advance of 10c., and the price is now \$5.20 for choice singers off cars. Thick-

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ANTIONS REMOOD OF TLAC	BROOW 1.	1. 16		18.41	Cheven	-	10.5	La La C	
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the second survey and a second second second		-	Shiel.	1.4	70 V				
CATTLE.	. Hixtren	ne j	<b>T10</b>	88.		go.		897.	1896
1500 lbs. up		4 2	0 50	5 15	- 84	15		5 30	84 24
1360 @ 1600	1	4 10	) to (	5 50	6	15	199	5 20	4 50
1200 @ 1350		4 0	to	5 35		25		10	4 3
1050 @ 1900		8.0	to	5 00		90		5 20	4 34
1000 @ 1000		0 0		4 75		80		75	4 12
900 @ 1050		0 0		10				10	* 10
Fed Westerns	*******	3 34		00		20			1112
Stillers		4 10	to	1 80		65		80	4 10
Stockers and feeders						00		62	3 8
Fat cows and heifers		3 7	i to s	1 65		75		65	4 00
Canners		2 24	i to S	3 25	3	50	2	60	2 24
Bulls		2 6	to to	1 30	4	30	. 4	00	3 25
Calves		3 7/	s to	7 40	7	15	e	40	5 15
Texas steers		3 6	0 to	4 30		55		70	3 8
Texas C. & B		9 7/	to	00		25		85	2 85
Corn-fed Texas		1 9	to	1 75		75			
STATISTICS CONTRACTOR STATISTICS		8 01		10		10			
· Hogs.								N 1979	
Mixed		396	i to i	15		60		60	3 45
Heavy		3 90	to f	20	- 4	70	3	571	3 40
Light					4	40		624	3 60
Pigs		3 5	i to S	8 90		25		60	3 60
SHEEP.									0 00
Natives	· · · · ·	9 40	to	85		60		85	4 60
Western	••••	9 7/	100	00				50	3 75
Western	*******	0 10	10	00	1	90			
Texas						60		25	3 60
Lamps		F 00	TO 6	30	6	10		00	6 35
Chicago receipts	or cattle	, h	<b>)g</b> 8,	and	she	ep	IOL	мау	, 1898,
and the first five mon	ths of 189	8:							
Receipts.			C	ttle.		He	O'R:	SI	leep.
TARANT Prope								<b>N</b> .	soop.

Receipts.								· 33		1	10	Cattle.	1	Hogs.	Sheep.
May, 1898			-	1	1		••			•	-	210,903	nine.	800,870	284,791
April, 1898		•				• •						170,852		679,311	291,827
May, 1897												200,467		729,748	268,790
May. 1896						• •			•	• •		205,030		660,313	301,924
May, 1895												187,233		674,864	261.710
May, 1894												238,413		573,187	259.103
May, 1893												248.813		463,897	292,847
May, 1892						• •			•	•		261,849		737,239	194.292
Five months, 18	98.			 							1	,012,246		3,559,813	1,533,598
Same period, 18	97.			 • •	 •							971,302		3, 322, 095	1,367,105
Same period, 18	96			 • •	•			• •			1	,025.968		3,134,471	1,445,413
Same period, 18	95.			 			•	: .				922,379		3.540.577	1.311.074
Same period, 18	94.			 							1	,187.058		3,103,037	1,268,757
Same period, 18	93.			 • •	 •			• •			1	,243,911		2,194,646	1,181,617
Same period, 18	92.			 							1	,335,247		3,580,666	882,999

Shippers of live stock to this market from all points of the compass agree almost without exception that fat cattle are very scarce and young stock cattle still scarcer. Some 130-1b. stoer calves recently sold here to go to Iowa. Feeders at \$4.25 per 100 pounds.

### Live Stock Exports.

The live stock exports for the two weeks ending June 8th, as prepared by R. Bickerdike, of the Live Stock Exchange, Montreal, show that 5,320 cattle and 1,040 sheep have left Montreal for Liverpool, London, Bristol, Glasgow, New-castle, and Manchester, on sixteen boats.

### English Live Stock Markets.

Liverpool, June 11.-(Special.)-The market is slow. Ameri-can steers are selling at from 94c to 104c. per lb. (estimated dressed weight); live sheep are steady at 94c. to 104c. per lb. (estimated dressed weight); refrigerator beef is dull at 74c. to 8c. per lb.

### An Exhibit at Omaha.

An exhibit of grain in the straw has been sent from the Brandon Experimental Farm to the Trans-Mississippi Exposition being held at Omaha, Neb. The exhibit consists of 150 bunches of various varieties of grains best calculated to illustrate the capabilities of Manitoba farmers' wheat lands.



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The Village Oracle. Beneath the weather beaten porch That shades the village store He sits at case an aged man Of three score years or more, That ample seat for him is placed Beside the open door.

His face is very keen and shrewd, And piercing are his eyes, As with an air of prophecy He scans the cloudy skies ; And children look with awe on him For he is weather-wise.

And jolly farmers riding by On fragrant loads of hay, Call out, "Good morning, Uncle Dan!" And "Will it rain to day !" And boys who would a fishing go Await what he will say.

"Ws-al, of th' wind should change about" (They listen engerly; But he is very slow and calm For thus should prophets be) "Mabbe them clouds will bring us rain; But I dunno," says he.

And ever as the seasons come And the seasons go. The oracle is asked the signs Of wind or rain or snow. And still he never hesitates To answer "I dunno." -Cleveland Leader.

### BOGER'S BANQUET.

Late in the afternoon of November 10, 189-, a merry group of youngsters was gathered round the fire in one of the coaey smoking-rooms of the Mutton Chop Club, engaged in the con-sumption of much tobacco, and the perpetration of mnimited goesp. The Mutton Chop is a fairly well-known club, and, of its sort, it has an established, albeit a Bohemian, reputation. It is frequented chiefly by those members of the literary and artistic professions who are not big enough guns to put up for more famous institutions, and also by a considerable sprin-king of the Junior Bar. An insignificant entrance fee and a moderate subscription bring it within the range of most purses. Not that it is a club to which election is a mere-matter of nomination; still less, a club which is under the degrating necessity of having to cade for members. As a slue for small guns, the Mutton Chop holds its head high. The lesser artillery of letters and the drams are well satisfied to print "Mutton Chop" upon their visiting coards; for, ac-ording to a certain standard, it stamps a man select; and it is something to beselect oven among popyns. The group of men gathered round the fire on this partion-ier siternoon were all unmistakably jolly popynes, as was evinced by the good-humored chaff, the playful banter, the proses that were freely bandied between them. And presently they fell to discussing a subject in which the whole group seemed to take a lively interest. "No; I don't think he nesshown up here to-day," said an-other. "Beastly shabby of him, too. He must know that was are ali spoiling to hear how he fared at the Guildhall feed last neght". "Why the devil did they invite him f" propounded a third

night!" Why the devil did they invite him !" propounded a third

night!" "Why the devil did they invite him " propounded a third man. "A compliment, my dear fellow. Boger hasn't set the "A complement, my dear fellow. Boger hasn't set the Thames on firs. But he's a good workman-we all know that. And those articles of his in "The Weekly Wirepuller," orack-fing up the Corporation and the City Liveries, attracted a good deal of attention in certain circles. They were able articles, too. Never read a weak case more fortibly presented. You'll see. They'll do something for old Boger!" "Hope they will. The poor beggar needs it. A man with his talenes ought to be raking in the oof; yet somehow he never manages to rise above starvation pay. Utterly defi-cleat in commercial instincts, I suppose!" "Yes," ohimed in another. "Ho's always in a obronio state of harduppishness. Often has to cadge on his uncle for a dinner, I'm told." "Wonder so shy and sensitive a man has the face to beard the avuncular dragon.! Good old bashful Boger!" "Expect he enjoyed the fizz last night," added someone else, chuckling. "Boger loves his liquor, eht Good old bibu-lous Boger!" "Eke did enjoy the turtle. Boger hath a capacious waist-coat. Tfeoks. He will, in truth, be a liveryman to-morrow. Good old bibus-lous Boger!" "Eke did enjoy the turtle. Boger hath a capacious waist-coat. Tfeoks. He will, in truth, be a liveryman to-morrow. Geod old bilous Boger!" said a theatrical gentleman, then just rising into fame as an interpreter of Shakespearian clowns. "Hem ! Corporations to the Corporation, eh?"

"Why, old Boger-well, here is a go. But just listen." All turned their attention esgerly to the speaker, who, in an excited and impressive voice, began to read aloud, as follows:

"Why, old Boger-well, here is a go. But just Haten." All turned their attention esgerly to the speaker, who, in a exciled and impressive voice, began to read aloud, as follows: "SINGULAR CHARGE OF THEFT AGAINST AN AUTHOR." "At the Mansion House Police Court this morning Walter Boger, described as an author and journalist, was charged before Alderman Sir Benjamin Bucksmith with the theft of a table-kinfe. Mr. Havyood, who appeared to prose-oute on behalf of Mesars. Alder & Co., the well-known refresh-ment contractors, said that the charge was a somewhat singular one. The defendant Boger was present, by invita-tion, at the Lord Mayor's banquet, at the Guildhall isst evening, and was noticed by one of the waiters to take up a table-knife, belonging to the prosecutors, and to secrete is in the tail pocket of his dress cost. The waiter at once commun-icated this to the manager, whe kept his eye on Boger, stapped him as he was lawing the banqueting hall, and questioned him on the subject. If he had aknowledged the theft, or given some sort of reasonable explanation, the matter might have gone no further. Bub his answers, on being interrogated, were so shuffling and unsatificatory, that the default-ant in charge. On his being searched at the police station, the finite was found in his pocket; and also upon his person was discovered an envelope containing several pawnhorkers' duplicates. They hore the mane and address – clearly flot-tiought it his duty to call in a constable and give the default into a spoons, pledged a few weeks previously with Mesars. Trepill, in the Borow. ""In the light of this discovery, Mesars. Alder & Co. has thought it incumbent.on them to press the case — which, in other dirumstances, they would have been loath to do. ""The Alderman: But why did you take the knifet "The Alderman: And how do you take the knifet "The Alderman: And how do you account for these may intentional theft; said that he meant to replace the more they that they were in my possession. I was uttery atousing, called an

survive were found, and that the defendant was liberated on ball." The reading of the above account evoked loud expressions of amassment from our whole group of listeners. "Goodness!" ejaculated one. "Who the deuce would have thought it!" oried another. "Impossible!" exclaimed a third. "There must be some mistake," said a fourth. "Boger a thie! It is out of the question." "It he was going to steal at all, he would surely have gone for the spoons or forks," promounced another. "Well, I simply don't believe it." "But here it is—in black and white," rejoined the reader of the paragraph.

"But here if is-in black and where the paragraph. "He didn't even deny that he had sneaked the knife." "Those pawntickets look deuced fish?." "Of course, the fellow is notoriously hard up." "He often doesn't know where to turn for dixpence." "I tell you there's some confounded mistake." "It tell you there's some confounded mistake." "It is take my head on Boger's honesty. "He couldn't have done it." "He did it, though." "It's a clear case."

"It's a clear case." "Hang it all, you fellows! Don't turn on a friend the moment he is accused !" "Rot! The accused in has been clearly brought home to

him." "I bet you it will all be explained satisfactorily." "I bet you it won't." "Take me in a fiver ?" "Yes." "Yes."

"Yes." "The committee will have something to say to this." "They will, indeed. We don't want thieves in the Mutton

Chop." And so this discussion raged for an hour or so, until one more urgent and interesting demanded the attention of the disputants. It was by that time close upon 8 o'clock. The discussion of our friend's misfortunes is, beyond measure, attractive, but even that pales in attractiveness before the attractive, of one delly dinner.

gentleman, when asked how the pawntickets could have come nto Boger's possession, was unable to suggest a possible explanation. Under stress of circumstances, he had, some weeks ago, sold his dress-suit to a second-hand dealer. And it might have happened, he said, that Boger had purchased nto Boger's provide stress of diroumstances, dealer. And explanation. Under stress of diroumstances, dealer. And weeks ago, sola his dress-suit to a second-hand dealer. And it might have happened, he said, that Boger had purchash the suit. He referred the police to the dealer in question. The result, Your Worship, has been to prove conclusively that the defendant, Boger, and hire that very dress suit from this dealer on the afgenificance of the date." A murmur of surprise was heard throughout the court. A murmur of surprise was heard throughout the courts well-regulated, magisterial astonishment. "Under these singular diroumstances," continued counsel "taking into consideration that nothing whatever has tran spired against defendant's previous character, and that the theft with which he stands charged is utteriy insignificant my dients have no desire to press the case. I may also ad my dients have no desire to press the case. I may also ad

289

in olients have no desire to press the case. Int if the defendant had frankly explained, a swntickets, this prosecution would never h ted. I confess I am utterly at a loss to o explicable behavior in concealing these facts, we seen would tell immensely in his fava salble. Your Worship, that if he can now the factorily. But, however that most of the fendant has been we ire for appropri

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our - Worship! W-what a sessit and the pawnbroke I-I-ought to have explain the police station. But I w ly true. and frightened, and and as now blushing to the ro

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The Old Straw Hat.

Geod old bitious Boger!" said a theatrical gentiuma, then just rising into fame as an interpreter of Shakespearian clowns. "Hemi Corporations to the Corporation, ch?" "Hai ha ha! What a sore point-if, indeed, the word may be used of so obtuse a thing—what a sore point is that selfasme corporation to the worthy Boger. He walks leagues every day in his efforts to train it down, and is awfully sick because it obstinately refuses to shrink." "Yet, why should he be sore about it? For my part, I should be proud to present such an imposing front to my fellow-men. Still, as you say, it is an awfully tender subject with him. I have learned that—to my cost. You know what a gentle, inoffensive, good-natured creature he usually is. Well, only yesterday I chaffed him about his tummy. By Jovel you should have seen how he lost his wool. I thought he was going for me, so I prudently decamped." "I heard a story about him, to the same effect, last week." "I heard a story about him, to the same effect, last week." "I heard a story about him, to the same stall or your back. trivin, sir, says old Shearman, the tailor. He was measuring Boger for incryreesibles, it seems, and in the course of doing so he punched Boger rather unduly — as our friend thoughe—about the lumbago regions. "What the deuce are you up to? says Boger. 'I'm a tryin, sir, says old Shearman, 'to find the small o' your back." "And by Job, sir,' old Shearman told me, 'Blowed if Mister Boger didn't fling hisself straight out of my shop in a regilar tankrum, saying he'd see medammed before hed give me another order, and that he'd half a mind to knock my blooming head off. And yet I hadn't mean't ne offense. Not that it matters to me very much, for Mr. Boger's custom scarcely runs to one soot a year, and he don't always pay for that." "Yes; no one can call Boger a dressy man. Yet I think-port old chap—he's awfully sensitive about his shabby olothes, poot old chap—he's awfully sensitive about his shabby olothes.

that.'" 'Yes; no one can call Boger a dressy man. Yet I think-poor old chap-he's awfully sensitive about his shabby clothes, and his poverty. Can't bear to think that they are noticed. I wonder what sort of figure he cut at the Guildhall last night." 'Yes; I wonder. I"-'' I say, you fellows,' suddenly chimed in another man, '' I say, you fellows,' suddenly chimed in another man, who was skimming an evening paper, with his back turned to oar group. ''I say ! Just listen to this. By Jehosophat! Well, I never!" '' What's that ?"

discussion of our friends pales in attractiveness before the discussion of our daily dinner. On that day week, when the unfortunate Boger sur-rendered to his recognisances at the Mannion House, quite interest appeared in the dock, looking thoroughly harassed and miserable. And when, or centing a furtive giance round and meserable. And when, or centing a furtive giance round and court, he caught sight of so many familiar faces, his dis-trees and confusion became quite pitable to witness. Sensi-trees and confusion became quite pitable to support his posi-meters and painfully shy under any ofreumstances, he was now —ac could be clearly seen -coarcely able to support his posi-trees and confusion became quite pitable to witness. Sensi-trees and confusion became quite pitable to support his posi-meters anxiety and supprese over this humiliating charge had done for poor Boger what no amount of training and a more this expansive figure were palpably less full, round, protrusive. Bolidity, weight, bulk still remained; wast indeed, and excessive for the average man, but for Boger, a mere, shrunker relic; lean, shadowy, immaterial. "Mo, indeed while not have to punch for the semail of Boger's back now." "You, indeed, and excessive for the average man, but for Boger, a mere, shrunker relic; lean, shadowy, immaterial. "By Jovel" whispered one of his sequations. "You, indeed, and excessive for these parallely theft-unless, perhage, he was drunk." "By Jovel" whispered me of his sequations and been obtain the set of a support of indices to be the prosecutors. "He has 1 They're beginning." "The Has wood, who again appeared for the prosecutors. In which the day at once, four Worship' he said, "that. I have the net dedress the Bench." "The has 1 hereing of this case, information has been obtained by the police which her was a somewhat less verters indeed, which had been found on the defendant, one of them relating to a packet of spoones, fark and Entwee John Smith. Messet, ithe last hear

rom to of caroles we specified and to relieve and to

Its narrow brim and sunken crown Are touched with all the grace That glowed beneath is in the brown Of father's honest face.

Hareh edges of the autumn corn Have sawed its ragged brim, Until in every line forlorn I read a field-told hymn.

It brought me berries from the patch, Picked by his plough-worn hands; White stores of ears from rick and thatch, Treasures from field and sand.

Such year he called its service done, But when the bluebirds came Is said they would not find the sun And flowers of spring the same

If never moved about the yard The old familiar hat; They'd miss it from the orchard sward Beside him where he sat:

And as I hear their plaintive note From out the sour-bough tree. I each from every warbler's threat A strain of sympathy.

Vhat like these strands, bathed in the dew And bronzed by summer skies! eneath I see that face so true, Those patient, honest eyes! —Forrest Crisey, in Chicago Post. an include E

BROILED SPRING CHICKEN. —Split, sprinkle with pepper, salt, and rub all over with butter. Pinion the legs to the side, place on a gridiron over a hot fire, with the inside of the chicken down. Turn often. When a nice brown, dish, pour over it melted butter and sprinkle with pounded crackers. Serve with broiled tomatces.



290

following little story from Lilly T the we are not offering a prize for eb 21576

### The Discontented Boy.

There was once a boy who was never contented-if you gave him one thing he would always wish for another. One day his father and mother went to town and left him to take care of his little sister Maggie. His mother and father said they would be home soon. After they had gone to town Maggie cooked some apples, and then they played in the garden. Their parents had told them not to open the gate unless their uncle came. They were playing ball and the ball went over the fence. The went. When he was outside he saw some berries. He called on Maggie, but no, she would not go. After a while she heard her brother calling "help i" She ran after where the voice came from, and there as be saw her brother up to the waist in sinking sand. After a while help came and he got out, but his leg was broken. If this little boy had been contented in the garden he might not have been hurt. Multons, Lift 1 Your little for is "try noted withers on the same the same is an after writer. There was once a boy who was never contented.

Well done, Lilly 1 Your little story is very nicely written, and it is a pleasure to give it a place in our "Corner." I wonder if you young written and as many troubles as a certain little boy. I have heard of,

"Johnny on Easy Writing."

don't believe 'twas hard to do When Homer wrote of Troy— "here were no rules for him to watch, No grammars to annoy ; Is had no slang to guard against ; He spelled the easiest way : "he subjects were not threadbare then, Because he had first say.

Ind Dante had it easy, too, In Florence, when he wrote; Is made each phrase as he went on; There were no words to quote. he common talk of every day Was good enough to use. Too trite " was something never heard; There were no terms to choose.

Chaucer had no task at all, te wrote what come along ; put down just what people sa nd couldn't spell words wrom a see, no one had tried before o write this brand-new speech Chaucer fixed it his own way or all the schools to teach.

wasn't bad when Shakespeare li The right no one could tell; sere were no dictionaries then,---No wonder he wrote well. ow it gets harder all the time; Each word must mean just so; he very term you'd like the best is one that will not go. are lived ;

# THE FARMER'S ADVOCATE.

"Can't do it, sir; it's his customer. Here, Jim." He threw him the coin and was after a customer himself in a moment. Well, boys what do you think ' Wouldn't you like to lend a hand to a dek comrade sometimes ' Surely boys like that may be found in the country a will as m the city. And believe me, a boy that is an "all-round good cellow," and "ac meak," will never grow up into a dishonorable man.

COUSIN DOROTHY.

### THE OUIET HOUR.

### Sunshine for Every Day.

he doeth little kinds Which most leave u le kindnesses eave undone or despise ; hich sets one heart at eas appiness or pesce, ed in her eyes."

And giveth happiness or peace, Is low-esteemed in her eyes." Some people are like sunshine. Even to meet them on the street and receive their smiling greet-ing does us good. Think how our comfort depends on the good spirits of other people. If any member of our family is in an irritable mood, finding fault with the meals, or even the weather — how many seem to feel themselves at liberty to do that, forgetting that the weather comes from God, and to grumble at it is really com-plaining against Him—think how the commonplace crossness of one individual can make the whole family comfortable. Mow, if you are that individual, is the position one you would like to maintain? Do you realize how unlovely you can be if you try? It is easy to see, if someone else is in a bad temper, how un-pleasant he is making himself. Do we like to upset the comfort of our friends and relations? Of course we don't. But let us be careful lest, without in-tending it, we are making the atmosphere of our homes unpleasant. Now let us look at the other side. Think of the

homes unpleasant. Now let us look at the other side. Think of the sunny people. They come down smiling in the morning, and all the little annoyances of the day

gives us to do is great, and all other work is small. You do not know how the kindness which seems so trifling may reach a brother or sister, and draw them nearer to Christ than a hundred sermons might. Your daily life shows most certainly to those who live in the same house the reality or un-reality of your religious profession.

The little worries which we meet each day May lie as stumbling blocks across our way. Or we may make them stepping stones to be Of grace, O Lord, to Thee."

The days in which you find most opportuni-ties for sacrificing your own will, for bearing patiently the little things which might fret and worry you, are like good growing weather for the character. Welcome, then, the little disappoint-ments and worries, for they will, if rightly used, make you patient and strong to endure when the larger trials are sent to test your character.

"I am glad to think I am not bound to make the world go right; But only to discover and to do, With cheerful heart, the work that God appoints. I will trust in Him. That He can hold His own; and I will take His will above the work He sendeth me, To be my chiefest good."

- Is it for Me? O Saviour, precious Saviour, My heart is at Thy feet; I bless Thee, and I love Thee. And Thee I long to meet. A thrill of solemn gladness Has hushed my very heart. To think that I shall really Behold Thee as Thon art;

Behold Thee in Thy beauty, Behold Thee face to face, Behold Thee in Thy glory, And reap Thy smile of grace; And be with Thee forever, And never grieve Thee more! Dear Saviour, I must praise Three, And lovingly adore! F. R. Havergal.

### MINNIE MAY'S DEPARTM'T.

MY DEAR NIECES,— Let us have a talk this month on one of the social virtues. Suppose we choose Courage. That is a social grace which is one of the most important factors in human life. Picture two persons, one gifted with courage and one without this virtue, and what a difference there is between them! The former will not be conquered. difference there is between them? The former will not be conquered. Whenever any difficulty occurs she will rise to meet it, call courage to her aid, and fight the obstacle to the bit-ter end. There may be—nay, proba-bly there will be—a hard, sharp tussle; but she has a grand weapon to help her, and with its assistance she will win the day. But the other person— the one not blessed with this grace— appears very different. Let her come face to face with some difficuly and she will give way at once. She will say: "There is no use in trying to surmount this, for I simply cannot. What must be, must be; so I shall just resign myself to my fate, and bear it meekly." Not much resignation there, is there? I call it moral cowardice. Such conduct will make her weaker and weaker every time there is need and weaker every time there is need for courage, and she will imitate the



### A Summer Scene.

This picturesque scene might aptly be named "A Study in Foliage," so rich are the exquisite combinations of light and shade. The stretch of water, with the reflected shadows from the banks, adds much to the beauty of the picture.

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### A Point of Honor.

A reporter called to a little bootblack to give him a shine. The little fellow came forward rather slowly. Before he could get his brushes another larger boy ran up and, calmly pushing the little one aside, said, "Here, you go sit down, Jimmy!" The reporter at once became indignant at what he considered a piece of outrageous bullying, and sharply told the newcomer to clear out. "Oh, that's all right, boss," was the reply; "I'm only goin' to do it fur him. You see, he's bin sick in the hospital for mor'n a month, and can't do much work yet, so us boys all turn in and give him a lift when we can."

much work yet, so us boys all turn in and give him a lift when we can." "Is that so, Jimmy?" asked the reporter, turn-ing to the smaller boy. "Yes, sir," wearily replied Jimmy, and as he looked up, the pale, pinched face could be seen even through the dirt that covered it. "He does it for ma if you'll let him." me if you'll let him."

"Certainly; go ahead." And as the bootblack plied the brush the reporter plied him with questions.

tions. "You say all the boys help him in this way?" "Yes, sir. When they ain't got a job them-selves, and Jimmy gets one, they turns in and helps him, 'cause he ain't very strong yet, ye see." "What percentage do you charge him on a job?" "Hey?" queried the youngster. "I don't know

what you mean.

"I mean, what part of the money do you give

Jimmy, and how much do you keep out of it?" "Yer bet yer life I don't keep none; I ain't such a sneak as that.

"So you give it all to him, do you?"

"Yes, I do. All the boys give him what they get on his job. I'd like to catch any feller sneaking it on a sick boy, I would."

The shine being completed, the reporter handed the urchin a quarter, saying, "I guess you're a pretty good fellow, so you keep ten cents and give the rest to Jimmy."

a the banks, adds much to the beauty of the picture. fail to ruffle them. They form a habit of doing the "little kindnesses" which, more than anything else, make the indoor sunshine of our homes. The fresh flower gathered for the breakfast-table, the "cup of cold water" carried to a thirsty worker, the cheery word or laugh, the filling up of the wood-box or the water pails to lighten someone else's burden,—little things like these, how they oil the wheels of life and do away with the jolts. Why shouldn't the farm wagon be fitted up with pneu-matic tires? The best part of it is that the one who makes things easier for the rest of the family gets the largest share of happiness himself. It is always "more blessed to give than to receive." Try it for a day or two, and see ! Forget your own little worries in trying to give pleasure to others. Unfailing good-humor goes a long way; and a real sympathy, entering into the feelings of others, should be cultivated by anyone who desires to play the part of a ray of sufishine and gild the dark

the part of a ray of sunshine and gild the dark corners of life. If any members of the household are old, and perhaps rather neglected in the busy rush of work, there is always a chance to pay them ruan of work, there is always a chance to pay them the little attentions which they appreciate so much. It is very hard, after a busy life, to find when one is old and unable to work, that the children and grandchildren find one in the way; or, if not really unkind, yet never think of including grandfather or grandmother in the conversation. Don't spend all your strength in dreaming of the heroism and self-sacrifice you are capable of if only the opportunity would arrive. Great things we would like to do, small things we may do. Wait! What are great things and what are small things? We know what men consider great and small, but surely our ambition soars higher than the desire to please men. We wish to offer to God a gift which He will feel is worth accepting. What shall it be? Shall we neglect the little daily duties which He has set us, and do (or dream of doing) something great which is not required? Surely the work He

for courage, and she will imitate the timid snall by drawing herself, as it were, into her shell at the least hint of danger, until at last she will become a very insignificant person indeed, of little use in the world, and of no use whatever in helping others. Now, it is far easier to have courage in a great crisis than it is to have the same in small tempta-

tions. We have scores of examples of men who tions. We have scores of examples of men who held to their opinions in spite of the greatest op-position. Think of good old Martin Luther in Germany, of John Wycliffe in England, of John Huss in Prague, of the Scottish Covenanters. These were all noble examples of great moral courage in great crises, and we should do well to imitate them; but it is more likely that we women will be tried in smaller matters, in what would will be tried in smaller matters—in what would appear trifles. Now, cowardice in trifles is a com-mon failing in social life, touching nearly everyone, though few will confess it.

One thing a woman finds it hard to confess is having a small purse. How often we would fain appear richer than we are, and spend our money on things unnecessary, just because some other woman does so-and all because we are cowards and do not like to be behind our neighbors. Perhaps the "other woman" does it for the same reason. Why cannot we all be courageous and say firmly, "No, I cannot afford that?" People may smile, or even laugh derisively; but it is far, far better to bear sneers than to be dishonest. And, indeed, the sneers of those persons are not worth minding (though we are all human and cannot help feeling). If we could only peep behind the scenes with regard to these people we would probably find that they were deep in debt and living in style off their creditors. My dear nicces, would you not far

ere the courage comes in, and possibly the nice

JUNE 15, 1898

where the courage comes in, and possibly the nice cart will come yet. Another small social temptation is to act or speak contrary to one's conscience because we have not the courage to stand up for right against wrong. We do not like to be singular; but we must have our own opinions, and hold to them honestly, unless we wish to become slaves to others —afraid to venture an idea lest we might give offence. Of course, I do not mean that we are to be bold and aggressive, and hold that our opinion is the only right one—not at all. Everyone has, or should have, her own opinions, and we must respect those of others; but others must also respect ours, so we must be courageous in showing them, making sure in the first place that our ideas are right and good and upheld by our conscience. We require courage in our duties, in our pleas-

are right and good and upheld by our conscience. We require courage in our duties, in our pleas-ures, in our associates, in our fashions, and in our habits. Some girls are ashamed to be seen wielding broom or duster; -- they need courage in duty. Some will engage in doubtful amusements because they are not brave enough to say no; -- these want courage in pleasures. And we must be very careful about the kind of friends we make, and the habits which we cultivate, as well as the fashions which we follow. All these require courage, and sometimes as great in its way as the courage displayed on the battlefield. Another thing we dread is ridicule, and which

as great in its way as the courage displayed on the battlefield. Another thing we dread is ridicule, and which of us can endure that? Many a one will undergo anything rather than be a laughingstock. Some-times we are subjected to this from people who know very little—perhaps it may be their ignorance of "the correct thing " that makes them laugh, and that makes it all the more galling to us. But "they laugh best who laugh last." So cheer up, dear nieces. Keep a stout heart and do not lose courage for one moment if you can help it. Do you know that courage is derived from the Latin word cor, which means the heart? Long ago the heart was considered the seat of courage; so when we say "Keep up your heart," that is just another way of saying "Keep up your courage." Let us all endesvor to be morally courageous, and so help in some degree to improve and elevate society. If we follow Charles Kingsley's advice we shall do well. He says: "Be good, sweet maid, and let who will be clover;

"Be good, sweet maid, and let who will be clever ; Do noble things, not dream them, all day long ; And so make Life, Death, and that vast Forever, One grand, sweet song."

Your loving old auntie,

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MINNIE MAY.

Acknowledgments from Winners in the "Great Canadian Puzzle" Competition.

Up to the time of going to press we had received acknowledgments from the two undersigned suc-cessful competitors in the Great Canadian Puzzle competition, whose letters speak for themselves. As was announced in our June 1st issue, one of the prizes was sent to a Manitoba competitor, whose letter of acknowledgment has not yet had time to reach us.

To the Editor FARMER'S ADVOCATE :

To the Editor FARMER'S ADVOCATE : DEAR SIR,—I have received the gold watch which I was fortunate enough to win in your Prize Puzzle competition, and am highly pleased with it. It has a substantial case of bean-tiful design, and I feel sure it will give satisfaction from the record it is making so far. I am, I think, justly proud of it, andithank you heartily for the offer of so excellent a timepice. I am pleased to take this opportunity of wishing the FARMER'S ADVOCATE the prosperity it deserves. Yours very truly, ALBERT MCARTHUR.

gether by his housekeeper; and he wore yellow boots.

Jemmy made many curious inventions. He made himself wings and tried to fly, but had little success. He invented a windmill, and made a mar-vellous carriage to which he fixed what was the first cyclomet

cyclometer. Lord Wharncliffe used to be among his guests, and Jemmy is said to have given a very fair enter-tainment, and to have always amused his company with his jokes. George III., hearing of his eccen-tricities through Lord Beaumont, invited him to London. Jemmy wrote in reply that as he was then very busy training an otter to fish for him he could not accept the invitation for a month. At the end of that period he set out in his wonderful carriage. He was drawn to London in four days by his favorite Andalusian mules. In his marvellous attire he presented himself at the Court. The Duke of Devonshire was waiting for an audience, and at sight of Jemmy was convulsed with laughter, and chaffed Lord Beaumont about his strange companion.

his strange companion.

PULLING THE NOSE OF A DUKE.

PULLING THE NOSE OF A DUKE. Jemmy listened patiently for a moment only, and then seizing a tumbler of water that stood on the sideboard, he dashed it in the Duke's face, exclaiming that the poor man was in "hysterics"; he ran to the Duke, loosed his cravat, pulled his nose, and shook him, pretending that he was doing his best to bring him round from his fit. Jemmy was very familiar with the King, shook hands, saying, "Eh, I'm glad to see thes such a plain owd chap. If thou ever comes to Rawcliffe step in and give me a visit. I can give thee some rare good wine or a sup of brandy and water at any time." The King was much amused.

### Recipes.

STRAWBERRY SHORTCAKE.

STRAWBERRY SHORTOAKE. Rub 2 ozs. of butter into 1 qt. of flour, then add 1 teaspoonful of salt, 2 teaspoonfuls of baking powder, and sufficient milk to make a soft dough; mix quickly; roll out about one and one-half inches in thichness, put into a greased, large square baking pan, and bake in a very quick oven for about 30 minutes. When done split in halves and spread each half lightly with butter; put the lower half on the serving dish and cover thickly with straw-berries, which should be mashed and sweetened; put on the top and spread this also with berries. Serve at once with cream and sugar.

### GINGER COOKIES.

One pint of molasses, one coffee cup of lard and butter, using equal parts; put these over the fire and boil two minutes. When nearly cold add three tablespoonfuls of boiling water and one small table-spoonful of soda; stir briskly until it foams, then add one tablespoonful of ginger, a little sait, a little Cayenne pepper, and flour to roll.

The following prizes are offered every qu h months of April, July and October : izles during each quarter list prize, \$1.50 For original puzzles-list, \$1.00; 2nd, 75c and, \$1.00; 10, SL 750

75c. For or This col rules : Puzz from other : be original—that is, other papers; they must be will r, and sender's name signed its nocompany all original pussies c). It is not necessary to write o answers - the number of pussi ient. Partial answers will reo od for first issue of any month a ther than the 15th of the month p not later than the 5th of that i month is protection of the second pers; , and s

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pynas. theov. potuuertb. ylli. rrpmlois.	SORARADE. ST MY SKOOND grows white as mountain snows. Masse Ross.	
9,-N My whole is a state My 2, 6, 7, 8 is to re My 1, 2, 4, 5 is vile. My 9, 2, 4, 5 is not f My 7, 8, 9, 10 is hold	WHERICAL ENIGMA. which sometimes leads to desperation.	
My (f) is in My (f) is in My (f) is in My total's 11V	n water but not in fire ; n father but not in sire ; n town but not in fort ; the name of a Chinese port. BLANCHE MACMUREAN. WHAT IS THE WORD. ve letters spelled the same both back- Each letter represents a number,	
12 1. Cirifecas das le las. 2. Ewhn het rihas : 3. Errro, dunoedw	"Err," ATRANSPOSITION. effe vondelot lhaolw trass dan lift his is ringi hroto is rust torimapist, thisewr ni nelp, adm side magon sik "Diok." L-LADDER ENIGMA.	
	Initials—a stamp. Finals—goos over. Ist rung—a fish. Ind rung—to repair. Srd rung—a hunting dog.	
1Don, Seine, O regon, Rhone, Arno 2P E N		
H O T	P E S E P I D 3Sweet-bread. S E D A N R E M I T 3 Aves, (3) Tortage, (4) Oruga, (3) Trini- St, Oatherine, (3) Faikland, (8) Farce, muda, (12) Long.	
R U M M A O P I A T	G B 6Portland, Madiera, Fin- land, Balkal, Stanley, Storny, Bligo, Ell. 7	

To the Editor FARMER'S ADVOCATE :

To the Editor FARMERS ADVOCATE : DEAR SIR, —Please accept my thanks for the silver watch which I have received. It is allthe beauty, being perfect in every part. Wishing you every success, I remain, Yours truly, FRANCIS TUCKEY.

### The Greatest Human Oddity the World Has Ever Known.

Ever Known. Jemmy Hirst's career is perhaps the most amus-ing and extraordinary in human annals. This od-dity of a man lived to be ninety-one, after a life spent in doing the strangest of things. He was born in 1738 and died in 1829, and was buried in a grotesque coffin of his own construction, and in accordance with his will he was carried to his grave by twelve old maids. preceded by a per-forming bagpipe and fiddler. He was born at Raw-cliffe, in the West Riding. From his very boyhood he was an oddity. He was clever in training brutes. When he was a boy he used to get on the back of a sow, tie a piece of twine to the ring in her snout, run a nail in the heel of his boot to act as a spur, and gallop her round the yard. His greatest success with animals was with a bull. He trained it to per-form various tricks, and he broke it to bear the saddle. "Jupiter"—the name he gave the bull— rebelled against the saddle, but Jemmy conquered its opposition, and afterwards rode it daily, to the great amusement of people generally, especially when he trotted into Snaith on market days on the bull's back. He rode out regularly with Lord Beau-mont's foxhounds, always on Jupiter, who was trained to jump as well as to run. Not only was Jemmy Hirst odd in respect to his pets in his nerson he was one of the strangest

Not only was Jemmy Hirst odd in respect to his pets; in his person he was one of the strangest figures seen.

He wore a broad-brimmed hat of lambskin, fully nine feet in circumference; a rabbit-skin jacket, a waistcoat made of the skins of drake's necks with the feathers on, red stockings ; his breeches were of listings of yellow, blue, black, and red, plaited to-

open, mark "Printer's Copy" in one corner, and letter come for one cent. Address all work to Miss Ada Arm Pakenham, Ont.] 1.-ANAGRAM.

### (Characters of Walter Scott.) Mary St. Roab. Descon St. Chizer. Major A. F. W. Garteon. 6. Annie P. Ismosd.

2. Descon St. C 3. Major A. F. 2.-WORD SQUARE.

No. 1. An entertainment. No. 2. A mistake. No. 3. To arrange in line. No. 4. Compounds of eil and alkaline. No. 5. To tryst. MURIEL E. DAY.

### S.-CHARADE

S.-CHARADE. I ran away from school one day. It vexed my one, and he did say. It vexed my one, and he did say. That, "if such a trick again I would do, Of whippings I would get one or two." He also told my Uncle Sam That he would send me to COMPLETE. "Twas not because my teacher was cross; I guess 'twas I that wanted to boss. I twas not because of little to cat. I always got plenty of THREE and meat. So long ago it is since that, Beyond my two it has almost got; Still, I think, in all my waye I'll always remember my school days. A. Source Wonn.

4.-SQUARE WORD.

1. Reward. 2. To strike off. 3. To mature. 4. Thoughts. 5. A modification of a verb. PETER HYDE. 5.-NUMERICAL ENIGMA.

2, 22, 12, 8= warmth. 21, 14, 10, 11, 6, 1=a small bird.

21, 15, 10, 14, 97 5, 7, 4, 3 =anger. 4, 18, 19, 20, 21, 3=to eat greedily. 10, 13, 15=one interested in the puzzling corner. 1 to 22=something which has been of great interest. PETER Hyde.

### 6.-NUMERICAL ENIGMA.

(Composed of 17 letters.)

10, 16, 3, 12 means humble. 4, 5, 6, 14, 7, 17, town in Australia. 11, 2, 17, 1, 9, a vault. 8, 5, 15 means nothing. whole is the name of a prominent American. "ART."

Firm hearts and true

TYNY

destemppl. rood to him who loves it is a flower. e worth is in being, not seeming.

llard (" herd " should have read " hero.")

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SOLVERS OF MAY 10TH PUZZLES. "Brownie," "Toledo," J. A. Macde eter Hyde, Jessie Hyde. SOLVERS OF MAY 3ND PUZZLES. (Late for last issue.) ald. 0. "Dick,"

"Pansy "and "E

COUSINLY CHAT.

Neilie R.-The answer came all right, but I did not think the puzzle suitable. Try some others. Pakenham is in Lanark Co. "Mai."-I did miss your letters. Too bad you have so little leisure. Did you, "Margareta" and "Puss" make that

little leisure. Did you, "Margarets" and "Puss" make trip yet? "Muriel."-So giad everything went off nicely. Di get my letter! Do not let your new title prevent your of regularly to see us. "Ogms."-Surely the prize has reached you; I sen address some time ago. J.A.M.-Really, your initials sound pleasant, new they? Did not use your puzzle because it savors slighth advertisement. Send some others, please. Thank y kind words about our "Cornes." You know each conti doen his share to make it bright. Did your friend recei sample copies? "Pansy."-You have chosen a prety nom de plume you fond of flowers. I am, and pansies are great far

"Pansy."-You have chosen a pretty nom de pleme you fond of flowers. I am, and pansies are great fav with me. "Diok."-Can't use your rebus, lad, it is not well e drawn. Your other puzzles are very nice. "Margareta."-You mischief, where are you now i on the housetop with a novel, surely. Do hurry and se that "expected." I sent answers just as you drew then they were not published so-not my fault, dearie. "Crieff."-Your visits are too far apart; onme oftene Peter.-Don't talk of being discouraged-you do ver "Toledo."-Was glad to hear from you. My best fr a-like you, but a girl, of course. Will always be plea hear from you.

292

### THE FARMER'S ADVOCATE.

### **GOSSIP.**

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The live stock associations will send an-other carload of pure-bred live stock from Ontario to the West the last week of this month. The following gentlemen have al-ready spoken for space: Henry Arkell, Arkell; J. E. Brethour, Burford ; W. H. & O. H. Mo-Nish, Lyn ; W. R. Bowman, Mount Forest.

Nish, Lyn; W. R. Bowman, Mount Forest. R. J. & A. Lyurie, Wolverton, Ont., write under date of June 7th:-"The demand for Taunworths is very brick just now, a few of our most recentables being a sow (in farrow) to D. Clemens, Washington; two young sows to Geo, Kannedy, Strathallan; one boar to W. J. Smith, Kileyth; one pair to W.J. Moorhead, Elm; one pair to J. Silverthorn, Stayner; one boar to N. Blain, St. George; four sows to W. D. Reesor, Markham. The ADVOCATE gives great satisfaction as an advertising medium, as well as being full of news of great interest to farmers.

to farmers. Henry Stevens & Sons, of Lacona, N. Y., in making change in their advertisement, write: "That the readers of the ADVOCATE may know something relative to the class of ani-mais we send out, we quote from a letter which we received this day from Mr. A. D. Foster, of Holloway, Ont: "The two-year-old heifer I purchased of you last spring is doing well. She has given in the last seven days. Thick she will reach 60 lbs. Expect to com-mence an official test of her June 7th." Mr. Foster's heifer is no accident. She has two orosses of DeKol 2nd, and her grandam is Helena Burke, with an official record of 25 46 lbs. butter in seven days, and 98 lbs. milk in one day. Our herd is largely composed of DeKol 2nd, Helena Burke, and Netherland Hengerveld strains."

Hengerveld strains." Under the management of W. D. Grand, formerly of Toronto, a very successful sale of high-class carriage and road horses was held at the American Horse Exchange, New York, on June 1st. The animals sold were the prop-erty of Wm. C. Bryant, and Dobson & Aiz, of Marion, Iowa. Thirty-two animals of the Bryant consignment brought \$12,890, an aver-age of \$402, the highest price being \$2,000 for a pair of brown reldinge, 5 and 6 years old, 16 nands high. The next price received was \$1,600 for a pair of 5-year-old bay geldings, 15.3 hands, and \$1,300 was paid for steam of 5-year-old geldinge. 15 9 hands high; \$900 was paid for the single Royal Seal, 5 years old, and \$1,000 for a pair of obestnuts. this last pair being of the consignment of Dobson & Aiz, whose thirty animals averaged \$333 each. The high-est price for a single animal in this lot was \$550 fora 4-year-old brown gelding, 16.04 hands. CAITHINESS, VANITY AND CRIMSON KNIGHT FOR AITHNERS, VANITY AND CRIMBON KNIGHT FOR MANITOBA.

# 

## VALUABLE -FARM PROPERTY FOR SALE

This farm consists of 4,000 acres of land, situated in what was known as Wilbur Swamp, Iosco County, Michigan. Is now well drained by main ditch running through the property which is connected by smaller ones. The soil on this property cannot be beaten in the world. There is over 400 acres of cultivated land, and a large portion of balance is wild meadow. There is over 400 acres of cultivated land, and a large portion of balance is wild meadow. There is over 400 acres of cultivated land, and a large portion of balance is wild meadow. There is over 400 acres of cultivated land, and a large portion of balance is wild meadow. There is over 400 acres of cultivated land, and a large portion of balance is wild meadow. Station, and eix miles from East Tawas. On this farm there is a two-story frame dwelling, station, and eix miles from East Tawas. On this farm there is a two-story frame dwelling, one barn 65 x 125 feet, another 60 x 30 feet, and farming utensils of various kinds. This farm one barn 65 x 125 feet, another 60 x 30 feet, and farming utensils of various kinds. This farm one barn 65 x 125 feet, for the market in the fall. There is an inexhaustible supply of spring spring and they are fit for the market in the fall. There is an inexhaustible supply of spring spring and they are fit for the market in the fall. There is an inexhaustible supply of spring us fice on easy terms, and will bear inspection. The owner, who is not a farmer, is closing out fice on easy terms, and will bear inspection. The owner, who is not a farmer, is closing out all his interest and retiring to Southern California. For all further information, write to

1103 MAJESTIC BUILDING. - A. R. CODE, Detroit, Michigan.



# SOUTHDOWN SHEEP.

DISPERSION SALE

ill sell at auction, without reserve, at my farm, three miles south of the City of London,

On Thursday, July 7th, 1898, eptire flock of EIGHTY Registered South-ms, including itams, Ewes and Lamba, it was founded in 1890 on selected imported is from the famous flocks of Weeb, Cole-and Jonas, which have been bred to imp. bb rams till last season, when a high-class orted ram from the flock of Sir J. Blyth used, and a grand crop of lambs will be he sale. This flock has furnished show op and prize-winners to leading breeders showmen in Canada and the United States. rms:--Under \$10, cash; over that amount, neaths credit on approved notes. Discount ate of six per cent. per annum for cash. D. H. DALCE.

D. H. DALE, **GLENDALE P. O., ONT.** . M. HUNT, Auctioneer.



1 three-year-old imported stallion, by Prince of Millfield, out of Connie Nairn, by Prince of Wales.

I four-year old, by Queen's Own, out of Imp. Candour, by Macgregor.

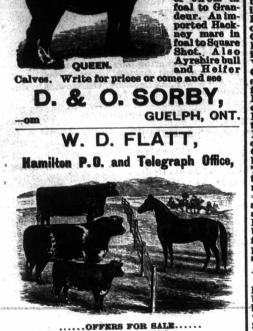
2 imported two-year-old stallions, by Macgregor.

2 two-year-old stallions, by Prince of Quality, out of imported dams.

Have also a well-mated team of three-year-old Clyde Fillies, sired by Imp. Energy (7691), out of imp.

These animals are all large size, good quality and sound. Terms reasonable.

ROBT. DAVIES, Thorneliffe Stock Farm, TORONTO. **JUNE 15, 1898** 



FASHIONABLY-BRED J YOUNG SHORTHORN BULLS J

Also cows and heifers representing the lead-ing popular families. Imported Golden Fame =26056= at head of herd. A few good Roadster horses. Farm six miles from Hamilton. Cata-logue sent on application, Visitors met at G. T.R. or C.P.R. if notified. - om

Hawthorn Herd of Deep- Shorthorns Stock of both sexes for sale, of choicest breeding and good quality, prices right.

WM. GRAINGER & SON, Londesboro, Ont.

AN IMPORTANT SALE OF AYRSHIRE CATTLE.

AN IMPORTANT SALE OF AYRSHIRE CATTLE. Mr. Robert Davies recently had landed on his Thornoliffe farm (Toronto) four of the best Ayrshire yearling heifers that have been hitherto imported into York County. They were bred by Messrs. Dundas & Grandy, of Springville, Ont. The sire, Victor of Boghall, was bred by Robert Wilson, of Boghall, Scot-land. The dams of Mr. Davies' heifers were bred by Mr. Parks and Mr. Wilson, of Ren-frewshire, Scotland, and were selected by Mr. Dundas and imported tecause of their great excellence as dairy cows, one of them having a record of 18 lbs, butter is one week. These Ayrshires are of the most fashionable type. GOLD MEDALS AT THE OTTAWA EXHIBITION.

GOLD MEDALS AT THE OTTAWA EXHIBITION.

GOLD MEDALS AT THE OTTAWA EXHIBITION. A splendid string of gold medals donated as special prizes by liberal citizens of Ottawa, for horses, cattle, and dairy produce, will be up for competition at the Central Canada Exhi-bition, Sept. 16th to 24th. Over thirty gold medals are on the list, besides a number of handsome cash prizes offered by cattle and sheep breeders' associations, amounting in all to some \$250. DETROIT, te some \$250.

**Record 2:19**<sup>1</sup>/<sub>2</sub> 10073. With ordinary marces in Canada, Wild Brino's has demon-strated his ability to sire extreme speed. Among his get are: Little Jim 2:13%. Dorothe S. 2:19%, Kngarita 2:19%, Mo S 2:25% and Wildcrouts 2:25% as two year olds, and many others with records of 2:30 and better. At the great Torothe exibition of 1857 five of his get raced, two winning first money and three second money. Five others were exhibited in the show ring, three took first prize and the item of the show ring, three took first prize and the value first money and two second money. At Windsor, Ont. Thursday of each week. Terms \$5.00 cash with usual retorn privileges. Special attention given to marce while with us but at owners risk only. Write us when and how you slip and our men will meet boat or train. With for dheight pedigree of Wild Brino. We also have the best breed thoroughbred stallion this side of kentucky. "KAHBAR." Terms \$10.00 cash, return privi-leges. Tabulated pedigree on application.

MICH 85 & 87 Gongress St., West, Detroit, Mich.

 FOR SALE—Shorthorn Bull, BOLD BRITAIN

 sired by John Isaac. Markham,

 sired by Golden Crown (Iurr), first-class in

 every respect, having headed my herd for the

 past three years.

 F. A. GARDNER,

 oe

 BRITANNIA, PAEL COUNTY, ONT.

A SHTON FRONTVIEW FARM
A. J. WATSON, CASTLEDERG, ONT.
Shorthorn heifers, by Statesman; and Berkshires 8 weeks old, by Baron Lee; also one
Baron Lee boar 10 months old.

Stock Farm.

ANADAS GREATEST

Now OwnED BY

WILD WOOD

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"Gem Holstein Herd." TOCK FOR SALE!

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oles young bulls and helfers, also me older animals, all of the very st dairy quality, that we will sail, se or more at a time, or reasonable rms. Correspondence solicited.

BLLIS BROTHERS. D PARE P.O. O

7-y-om Maple Hill Holstein-Friesians

### (THE GOLD MEDAL HERD OF 1897). SERVICE BULLS:

DeKol 2nd's Paul DeKol Duke (Imp.), Sir Pledge DeKol (Imp.).

spare a few young things of both serves trictly first-class cows of DeKol, Em-

. G. W. CLEMONS, ST. GEORGE, ONT.

### HOLSTEINS FOR SALE

a want the blood of DeKol 2nd or Nether-Bengerveld ! These two cows have pro-more butter in seven days than any two cows that have been officially. Their daughters are large producers. If these two great cows head our herd. Is of all ages and richest breeding.

### HENRY STEVENS & SONS, Lacona, Oswego Co., N. Y.

BROOKBANK HOLSTEIN HERD

50-Champions for Milk and Butter-50 A number of desirable young BULLS on hand from eight months to two months old, from our great milkers. Writefor just what you want. Females of all ages. Also yearing Poland-China Boar, Currie's King, to be sold to make room for a new importation. Oxford Co. ont. • CURRIE'S CROSSING.

TTLE ATENT FLUID INONCI JOIETONOUE P DI AND CATTLE WASH THE ORIGINAL

Non-Poisonous Fluid Dip

Still the favorite dip, as proved by the testi-mony of our Minister of Agriculture and other large stockmen.

FOR SHEEP:

Kills ticks, maggets; cures soab, heals old sores, wounds, etc.; and greatly increases and improves growth of wool. CATTLE, HORSES, PIGS, ETC.;

Cleanses the skin from all insects, makes the coat beautifully soft and glo

PREVENTS the attack of warble fly. HEALS saddle galls, sore shoulders, ulo

NO DANGER; SAFE, CHEAP, and EFFECTIVE,

### THE FARMER'S ADVOCATE.

# <section-header><text> Important Auction Sale of Southdowns,

BRITISH ADVERTISEMENTS. HAMPSHIRE DOWN SHEEP Splendid mutton, good wool, great weight. This highly valuable ENGLISH BREED OF SHEEP is unrivaled in its rapid and

### WONDERFULLY EARLY MATURITY

Possessing, too, a hardiness of con-stitution adapted to all climates, whilst in the quality of

### **MUTTON AND LARGE PROPOR** TION OF LEAN MEAT, IT IS UNSURPASSED.

At the great Swithfield Club Show in Lon-don, December, 1837, Hampshire Downs again held their own, the class for wether lambs with 20 entries exceeding in numbers that of any other oreed, whilst a pen of wethers stood reserve for the champion plate for the best short-woolled sheep in the show. A Hamp-shire Down also again took first prize in the dead carcase competition against all other short-woolled breeds. -0 Full info nation of

JAMES E. RAWLENCE, Secretary, Hampshire Down Sheep Breeders' Association

Salisbury, England.

### ALL PEDIGREE STOCK BREEDERS should keep in touch with Herd, Flock and Stud movements by reading the

### Farmer and Stock-Breeder

The best, most complete and attractive agri-cultural and live-stock newspaper. Enlarged to 36 pages weekly. Frequent special issues, 40 to 48 pages. Illustrations are a speciality, each number containing many of the leading prize-winners, etc.; brilliant and practical articles on the Farm. Dairy, Horses, Cattle, Sheep, Pigs, Poultry, Veterinary, etc., etc. Unequalled as a medium for advertisements intended to reach the best class of breeders and farmers throughout Europe. Subscription, post-paid, for one year, \$2.50.

ntending Purchasers of British Pure send us particulars of their requirements, large shipments and extensive connections having given our staff of expert buyers that experience which is indispensable in live-stock transactions. Enquiries welcomed. Addres

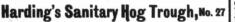
### W. W. Chapman

FARMER & STOCK-BREEDER, LONDON, ENGLAND

Secretary of the National Sheep Breed-ers' Association. Secretary of the Kent or Romney Marsh Sheep Breeders' Association. and late Secretary of the Southdown Sheep Society.

Pedigree Live Stock Agent, Exporter and Shipper. All kinds of registered Stock per-sonally elected and exported on commission quotations given, and all enquiries answered. Address - FITZALAN HOUSE, ARUNDEL

8T., STRAND, LONDON W. W. Cables-Sheepcote, London.



JUNE 15, 1898

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### **GOSSIP**. H. CARGILL & BON'S SHORTHORNS.

PCC. Figure 1. Construction of Messers. H. Cargill, 65 Son, Cargill, Ont, were looked over when in that section, and although we found them much reduced in numbers from a year ago, yet what we did see might be considered the best bunch ever owned together an the farm. Since our visit a year ago we learned that over 60 animals had been shipped to new home: going to various parts of Ontario, some to the United States, and a number to the Northwest. The imported stock bulk royal Member, by Royal James, and out of Nonparell Sind, is in as much flesh if not als as fresh and active as a two-year-old. He is unquestionably making an impression in the imported cow Early Bud, and her drawther Early Bud 2nd, by Rastin Robin. The old cow was purchased at D. D. Wilson's the imported cow Early Bud, and her drawther Early Bud 2nd, by Rastin Robin. The old cow was purchased at D. D. Wilson's the imported cow and her two-year-old daughter is Myrile 3rd (imp). The helfer breeder, Mr. Duthie. She is one of the bulk and is a freed and her drawther is Myrile 3rd (imp). The helfer breeder, Mr. Duthie. She is one of the bulk and is a that matures so early. Both are sold crassmitting her own is pro to her progeny, as her daughter resemble her very much faughter is Myrile 3rd (imp). The helfer bulk and is a thick set, evenly fide-ked type of a nameal that matures so early. Both are sold for as a large, handsome, four-year-old faughter is Myrile 3rd (imp). The helfer shall, since our east visit to the farm a year sol, since our east visit to the farm a year sol, she is a large, handsome, four-year-old, faughter is Myrile 3rd (imp). The helfer shall, by Pride of the Morning, and out of Myr Both and carry or an invalid that matures so early. Both are sold for the well-olothed back could scarcely found of eight years old, and carry in a sonthar molet. She too possesses the early mention in any company. Among a further would decored it os any early dender were informed they were the farm they were the indiver were they were the as the two s the very efficient attendants now in charge

W. R. BOWMAN'S SHORTHORNS, BERKSHIRES, YORKSHIRES, AND SHROPSHIRES.

W. R. BOWMAN'S SHORTHOMNS, BERKEMINES, YORKGHIRES, AND SHROPSHIRES. Mr. W. R. Bowman's farm, some three miles from the town of Mount Forest, is admirably adapted for stock-raising, the soil being very productive of rich pastures which are well watered by living springs. Upon our visit we found a herd of some twenty odd Short-horn cattle of the Beauty and Duchess of Warlaby families. Cecelia, by Eclipse and out of Clara 40th, is eight years old, and has been a valuable and regular producer. Her bull calf at foot is by Monarch of Bowfront. Monarch of Mapleton, out of Nettle 2nd (1st at Guelph when a calf), heads the herd. He is a deep red two-year-old, strongly made fellow that is proving himself a sure size of mostly deep red calves. At present Mr. Howman has on hand four bull calves that are the kind, with proper care, that will be in great demand again the coming season; their dams being of the high milking kind, little risk can be run in them.



on the day appointed. Conveyances will leave the Bernard House, London, on merning of

**GOSSIP.** 

One of the features of the approaching show of the Hereford Agricultural Society, England, is a department in which are exhibited pictures of Hereford cattle, for which the committee in charge has secured the loan of many fine paintings.

JOSEPH CAIRNS' CHESTER WHITES



111 Yonge St., Toronto.

### OAK LODGE HERD OF YORKSHIRES



Highest quality of bacon hogs, profitable to the feeder, and correct type for the packers. Orders now being taken for young pigs suita-ble for exhibition purposes. Largest herd in Canada to select from. Write for prices.

J. E. BRETHOUR, BURFORD, BRANT CO.

### R. HONEY, Warkworth, Ont., Northumberland Co.,

-



Choice young Yorkshires for sale at prices to suit the times. Orders booked for choice Cotswold ram lambs. 12-2-y-o

DURING the month of June we offer choice bred Berk, and York, swine, 6 weeks old, at \$6. F. O. B. Also an up to date Jersey bull calf for \$15. All stock registered. We have them all ages them all ages. -0 W. R. BOWMAN, Mt. Forest, Ontario.

with proper carls with or in great dama being of the high milking kind, little risk can be run in them. In Yorkshires we were shown some twenty head, and were informed that they were the result of foundation stock obtained from such breeders as Brethour, Hume, Cowan and Featherstone. Four brood sows are kept on hand. Our attention was attracted by a bunch of nine young boars that are from six to eight months old, among which we saw some really good ones, not highly fed animals, but growing up in strong, serviceable con-dition, being allowed a plot to run in for exercise. Mr. B informed us that they were sired by the stock boar, Lord Grey. The Berkshire herd is made up of half a dozen of Snell and Model Farm bred animals. Riverside Jewel, purchased from O. A. College, is now five years old, and was due to farrow shortly after our visit. She should produce some good things, for she possesse good qualifications herself. The stock boar, Count-Vasel, is a two-year-old hog, having plenty of length and bone and nicely marked. He has always been a winner in the showring and is proving himself a valuable sire. We were also shown a bunch of half a dozen five-months-old pigs that are held for sale. In Shropshires we saw some strong, well covered, even, good ewes. They were bred to a very choice. well covered ram, purchased for sale. The ewes were purchased from Messrs. Campbell, Phin, Hunter, and directly imported, and are bred in the purple. A pen of some fifty odd Plymouth Rock fowls are kept on hand, of Diokeson strain, which receive considerable attention and from which receive considerable attention and from

which receive considerable attention and from which eggs and young fowls may be obtained at a reasonable price. At Mr. Hunter's dispersion sale last whiter two pure-bred Clyde mares were purchased. They were from imported Queen and Master Lyndock. One dropped a nice filly the morning before our visit, to McClintock (imp.), that was a nice, straight, well-marked foal, the dam having plenty of size, bone and hair.

JUNE 15, 1898

### NOTICES.

Who wants a 4,000-acre farm, especially adapted to sheep and cattle raising? It is all ready to go right along and make money from, being drained, and also well watered, with 400 acres under cultivation. Such a piece of iand is offered for sale elsewhere in this issue by A. R. Code, 1103 Majestic Building, Detroit, Mich.

Mich. The Maple Leaf churn advertised else where in this issue by Wilson Bros., Collingwood, Out., is not claimed by its manufacturers to make more butter than the cream contains, nor do they say it will churn to perfect con-sistency in from three to five minutes. The fields, however, about this simply-constructed churn are that it is easy to work, easy to clean, and makes excellent butter from good cream is the time that the best authorities claim should be taken in churning.

should be taken in churning. Mr. W. H. Gardner offers for sale in this issue farm lands in all parts of Manitoba on casy torms and low prices. All visitors to the Winnipeg Industrial who are thinking of purchasing farm property in this Province are invited by Mr. Gardner to call on him at 383 Main street, Wianipeg, where they can look over his list and receive information in person. For the convenience of those who cannot call, a list of lands and information will be mailed on request.

on request. As the school holiday season is approaching we would remind teachers and pupils of the special teachers' session to be held at Belleville Business College, of which J. Krith Jeffers, M.A., is principal, during July and August. The full session will cover seven weeks, from July 5th to August 20th, but it is arranged that those who can spend only three to five weeks at the school may accomplish definite work. We would recommend those who de-sire to thus improve their vacation weeks to write the Principal Belleville Business College at once for a handsome circular containing much information. WARNING RE WINDMILIS.

much information. WARNING RE WINDMILLS. Goold, Shapley & Muir Co., limited., Brant-ford, Canada, manufacturers of Galvanized Steel Windmills, hereby notify the public that they hold Canadian Patent No. 48,143 for roller and ball bearings on windmills, and that they will take vigorous means to protect their rights under this patent against any infringe-ment. This applies to both the manufacturer who makes a windmill infringing on this patent and to the purchaser and user of such a windmill. We alone in Canada have the lawful right to make and sell windmills fitted with these bearings.

### **GOSSIP.**

Six New York dealers were recently con-victed of handling eleomargarine, and fined amounts varying from \$25 to \$50 each.

Only 69 creameries in 1897 availed themselves of the bonus offered by the Dominion Govern-ment to assist in providing cold storage equipment. The bonus offer, however, will be continued during the present year.

The well-known French Coach stallion, Indré, has been sold by Mr. Dunham, of "Oaklawn," to L. V. Harkness, a New York millionaire, for his Kentucky farm, where he will be crossed with trotting-bred marces.

will be crossed with trotting-bred mares. On June 3rd, Wm. Cummings & Son, Buda, Ill., sold 37 Shorthorns at an average of \$94.20. Gleriana, a red yearling heifer, by imp. Gitt-spur, sold for \$230, the highest price of the day, and the red yearling bull, Victor of Glen-wood, by the same sire, made \$200, which was the next highest price obtained, though it was equalled in the case of two young cows.

equalled in the case of two young cows. Capt. T. E. Robson, Ilderton, Ont., has pur-chased from Mr. H. F. Brown, Minneapolis, Minn., the fine show cow Louan 2nd of Browndale and her calf. This cow, we under-stand, is a graduate of the Minnesota State Fair, having won all the honors that one animal is permitted to compete for in that Institution, and her being barred there is probably the only reason she could be secured for Canada, the land of liberty, where the best is allowed to win without let or hindrance. Messre, H. Bennett & Sons, St. Williams, Ont., breeders of fine Berkshire swine, report that sales are good, and that they are gaining orders all the time through the FARMER'S A DVOCATE. all the time through the FARMER'S ADVOCATE. "We trust your paper may prosper in future as it has done in the past. We consider it the best medium to advertise in." Messrs. Bennett have greatly strengthened their breeding stock of late by the addition of a grand imported Beskshire boar, and also two of the best Chester Whites that money would buy in Penneylvania. Attention is directed to a change in their advertisement. Vol. 20 of the British Cludentals Stud Dete change in their advertisement. Vol. 20 of the British Clydesdale Stud Book has recently been issued, and contains pedi-grees of marces Nos. 12,978 to 13,334, and stallions Nos. 10,302 to 10,483, being in all 96 more than were contained in Vol. 19. The book is gotten up in its usual good form, and bears lifelike illustrations of the stallion, Montrave Sentinel (10094), winner of first-prizes as a three-year-old in 1897; the mare, Lady Lothian (13319), winner of the Cawdor Cup, 1897, and the gelding. The Boos, one of the champion pair at the Roval, Manchester. 1897. The Secretary and Editor is Arch'd M'Neilage, Glasgow. A mong other stock which has recently been 1897. The Secretary and Editor is Arch a M'Neilage, Glasgow. Among other stock which has recently been taken to Manitoba from Ontario by Mr. James Yule, Hon. Thos. Greenway's herdsman, are the two Clydesdales mares. Kate Hill 3rd and Boydston Lass 7th, bred by Messrs. Jas. I. Davidson & Son, Balsam, Ont. They go to the stables of Mr. McKenzie, of Burnside, a horse-man who will keep only the beet, and a suc-cessful farmer of the Portage Plains. It will be remembered these mares were illustrated in the FARMER'S ADVOCATE of October 15, 1897. They are half sisters by Westfield Stamp (imported) [1819], and out of Boydston Lass 3rd and Kate Hill. Boyston Lass 7th won first as a foal, as a 2-year-old, and as a 3-year-old at the Toronto Industrial, and at the same exhibi-tion Kate Hill 3rd won first as a 2-year-old, as well as the championship over all ages. Their hest victories, however, were at the late Toronto Horse Show, when they won first and second in the mare class (Kate Hill 3rd winning first) and first as team. As they are just four years old, they have, barring accidents, a brilliant for ure before them in their new Western home.

### THE FARMER'S ADVOCATE.

### ENGLISH BERKSHIRES !!



Come to headquarters for pigs of either sex if you want Berkshires that will make you money. Orders taken for spring pigs. Write for

J. G. SNELL, Prices. SNELGROVE, ONT. -om





Write H. J. DAVIS, Box 290, Woodstock, Ont., breeder of Yorkshires, Berkshires, Shorthorns, and Shropshires. ROSE HILL FARM.

### JAMES DORRANCE, SEAFORTH,

### BREEDER OF

**REGISTERED : BERKSHIRES** Of the most approved type. Choice young stock always for sale. Write at once an secure a bargain. 18-2-y-om

LARGE ENGLISH BERKSHIRES. Imp. Knight of River-de, Bright Star, and Canada's Glory at head of herd. Boars ready for service and choice pigs two months old. Write

### nonths old. Write Manager A. BENNETT & SON, St. Williams, Ont. ENGLISH BERKSHIRES AND CHESTER WHITES.

### Young boars fit for service; sows ready to breed. Also young stock of either sex ready to ship. CAMPBELL & MARTINSON,

Near Lewisville, G.T.R. - Northwood, Ont. English Berkshires.

Herd headed by three first-prize boars. Large quality, and a choice lot of breeding sows. Orders booked for spring pigs. GEORGE GREEN, Fairview P.O., Ontario. o-Stratford Station and Telegraph Office.



BERKSHIRES, BERKSHIRES, BERKSHIRES

My herd contains such blood as Baron Lee, Varna Duke, and other imported strains, with the celebrated sire, First Prize, at the head: WH. MCALLISTER, VARNA, ONT. 2-2-70

# Prof. Jas. W. Robertson, of Ottawa, Agri-cultural and Dairy Commissioner, has gone on a tour to the Northwest. a tour to the Northwest. At the public sale of Shorthorns belonging to B. Whitsitt & Sons, Pre-emption, Ill., June and, 34 head brought an average of \$92.80, the highest price being \$205-the red yearling bull, Scarlet Prince, by Waverley. Lady Lavender and, by the same sire, brought \$150, which was the next highest price.

E. JEFF & SONS' SHORTHORNS, BERKSHIRES

**GOSSIP**.

Scalifs Frince, by Waverley, Lady Lavender Ind, by the same sire, brought \$150, which was the next highest price. AND SOUTHDOWNS. At the village of Bondhead, Ont, is the large, well kept farm of the Mess threeded to the breeding and improving of live stock. Shorthorns have been broch here for upwards of thirty years, and many worthy animals have been developed and ay his two ambitions sons are as hot Shorthorns. Among the ma-trons not as the Shorthorn of the stock by his lifelong, where you interest in this respect as the Shorthorn. Among the ma-trons not a sho the or in the past, assisted by his lifelong, where you interest in this respect as the Shorthorn. Among the ma-trons not a shorthorn of the stock of imported Killerby (SSGI) SST. They are a winning producer, imported by F. W. Stoce). Margaret by Snowball (a great showing winning producer, imported by F. W. Stoce). Mad of Honor, and other worthy strains. Among the yearitrow his fill pedigree he is a length, well-formed young bull. The yearing heiler, your and you work you have done to the stack through first imported top oros size, and apart from his fill pedigree he is a lengthy. Well-formed young bull. The yearing heiler, your and you way you do not a stack through first imported top oros size, and apart from his fill pedigree he is a lengthy. Well-formed young bull. The yearing red daughtor of Zemoy heat and downed by arch, mellow stark, with alf-rowned god animal, qualified tor Well Stand ort of Zee, is a beautiful red, well-matured ani-down of by arch line well-formed young bull. The standing well on her well-formed segnand downed by arch has youry flexe hard you god size. This year' make the advertise of animal, the our side to the stand of god size. This year's more than an data down of her youry red and down which are and france and any our sets is a low-end the family do an her well-formed segnand down and younger, has made equally down and younger, has made a spatial to the tow and anon allow and animal of god size. This year's mare the mor



boars and sows, suitable for show purposes, which we can sell for prices to suit the times; also, two imported Guernsey bull calves. Write for description, photo, and price. WM. BUTLER & SONS,

DEREHAM CENTRE, ONT.

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-om

AND White Holland Turkeys

W. E. WRIGHT, - GLANWORTH, ONTARIO. IF YOU WANT

CHESTER WHITES Write me for particulars. The imported sires John A. 751 and Nonsuch 910, at head of herd

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HERMANVILLE TAMWORTHS. FOR SALE :

"Parkhill Mab"\_772-

The greatest Tamworth sow in Canada. Farrowed May 26th, 1897. Height at shoul-der, 50 inches: extreme length (from snout to set of tail), 64 inches; heart girth, 65 inches; weight, 550 to 400 pounds-mot fat, but fleshy; perfect conformation-as *ideal of the breet*. In pig to the St. Dunstan College boar, Kirso GBORGE =818-, the greatest boar in the Lower Provinces; and due to farrow June 30th. Will receive offers for the sale of this sowtill June 15th. Aff No offer for less than \$100 will be con-sidered. Address: om

Hermanville Farm, Hermanville, P.E.I.

SPRINGBROOK HOLSTEINS. TAM WORTHS and BARRED ROCKS

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by prize-winning im-ported Nimrod, and a few sows. A lot of nice pige ready to wean. One buil, 10 months old, and calves. B. Rook settings from choice mature birds. A. C. HALLMAN, NEW DUNDEE, ONT.

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I have the largest herd in Canada, of dif ferent strains. Choice Boars and Sows from six weeks to three Boars and Sows from six weeks to three and four months old. Orders booked for piss s. Prices reasonable

from 14 sows and 4 boars. Prices reasonable om J. N. SIMONTON, Box 304, CHATHAM, ONT.

OAK HILL HERD OF TAMWORTHS. Two choice young BOARS and one Sow read; for breeding; also young stock of both sexes Write or call on

R. J. & A. LAURIE, 'o WOLVERTON, ONT.

Oxford Herd of Winning Poland-Chinas. ving won the herd prizes at



296

### THE FARMER'S ADVOCATE.

Ex.

NOTICES.

The Farmers' Gasette states that at a sale of Shorthorns, at Harwich, Eng., May 23rd, bred by Col. T. R. Rateliffe, the young cow Sea Gem, the champion of the breed at the Royal Show last year. illustrated in the FARMER's ADVO-CATE of September 1st, was sold for 420 guineas to Mr. Wm. Harris, of West Smithfield.

to mr. w m. Harris, of West Smithfield. At the unreserved sale of seventeen Hack-neys, the property of James Walker, of West Calder, Scotland, May 17th, an average of £84 78. 5d. was made. The highest price was 295 guineas for the three-year-old Regina Danegelt. Sweeteet May made 210 guineas, and the seven-teen-year-old brood mare, Miss Agnes, brought 115 guineas.

dvocate."

### Prof. Jas. Fletcher, Dominion Entomologist,

At the Ontario Fruit Growers' Meet-ing at Waterloo, December 15th and 16th, 1897, said:

and 16th, 1897, said: "In buying a cheap spraying pump you make a great deal of bad temper, and use a great deal of bad language, and mot save, as you intended, a percentage of your crops. Now, there are a great many spray pumps, and there is only one shown here (the SPRAMO-TOR of London), and I will asy it is a good pump. You will do better to pay an extra dollar or two, that is charges for the bear-inge that are subject to the influence of copper mix-

copper mix-tures, to have those of brase those of brass; it is a saving in the life of th pump, sometimes of three or four years."

FRUITLAND, April 21, '98. W. H. HEARD, ESQ., MANAGER SPRAMOTOR Co., LONDON, ONT.:

Dear Sir, - Your favor of yesterday just received. Am glad to learn that the fourteen pumps ordered for Provincial Experimental Spraying have gone forward so promptly. Please ship me a No. 2 outfit, complete, for my own use. Yours truly. W. M. ORE.

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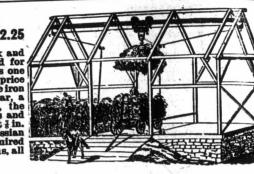
SPRAMOTOR CO'Y

357 Richmond St., LONDON, ONT. Mention FARMER'S ADVOCATE.



### HAY FORK OUTFITS COM-PLETE FOR \$12.25

We are headquarters for Hay Fork and Waggon Sling outfits for Barns and for Stacking Outfits. The picture shows one of our \$12.25 Fork Outfits in use. The price (\$12.25)includes the very best malleable iron improved Swivel and Reversible Car, a good Steel Double Harpoon Fork, the rafter track Bolts, the Rope Pulleys and Pulley Hooks, 125 feet of the very best § in. Pure Manilla Rope, and the best Russian Hemp Trip Rope, the whole outfit required for a wood track Horse Fork apparatus, all for only \$12.25. The New Brunswick Provincial Exhibition will be held at St. John, Sept. 13th to 23rd. An adjourned meeting of the American Southdown Breeders' Association will be held in Springfield, III., June 29th, for the election of officers and directors, and for the transaction of other business. John G. Springer, Spring-field, III., is the secretary. Mr. F. S. Peer, Mt. Morris, N. Y., will sail for England and the Channel Islands on July 9th to import cattle, sheep and swine. This is his second trip this year, and he is open to accept commissions to bring out stock for breeders who wish to avail themselves of his services.



STACKING OUTFITS. We also carry a full line of Wire Cable for building stacks of hay or grain. Our printed matter explains everything and quotes the lowest prices for the best goods in America. If you are interested, write to us, mention this paper, and we will at once mail you our Hay Fork circular. Write at once; the outfits should be in place. Thousands of farmers are taking advantage of our low prices and putting in these great laborsaving machines.

MACHINE SECTIONS. We sell machine sections to fit old machine not now made or one of the modern binders, reapers or mowers. Send a pattern of the old section on paper, showing rivet holes, or send us an old section. Our price for any number of any sections is only six cents (6c.) each, with rivets.

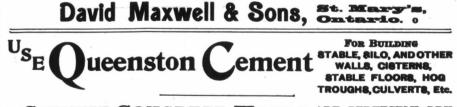
BINDER TWINE. Pure Sisal Binder Twine of the best quality, six seven cents (7c.) per lb. Our terms are cash with the order.

### HAMILTON, ONT. STANLEY MILLS & CO.,

Send us \$1 and we will promptly mail to you one of the very best concave or hollow ground razors you have ever used.



A new implement, thoroughly tested and endorsed by prominent agriculturists. The most labor-saving tool on a farm. Send for catalogue.



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JOSEPH YUILL & SONS, Carleton Place, Ont., breeder of Ayrshire Cattle, Shrop shire Sheep, and Berkshire Swine. Young stock for sale.

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THE GRANGE,	SHROPSHIRE SHEEP
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R. J. MCNEIL, Ormstown, Que., breeder of registered Berkshires. Young stock always for sale at reasonable prices.

Mr. F. W. Taylor, Wellman's Corners, Ont. preeder of Aryshires, whose advertisement 

SALE OF LIMEFIELD HACKNEYS.

SALE OF LIMEFIELD HACKNEYS. Seventeen Hackneys, the property of Mr. James Walker, Limefield, West Calder, Scot-land, were recently sold, buyers being present from all parts of Scotland and several from England. The prices obtained averaged over 824. Regina Danegelt 10464, a three-year-old filly, brought the highest price of the day, being bought by Messra. Billington Bros., Blackpool, for 295 gs. Sweetest May 8512, a brood mare, was purchased by Captain Ashe, Mid Calder, for 210 gs. Another mare, New-bald Regina, was bought by Mr. Watson, Blackpool, for 120 gs.; while the mare Miss Agnes 248 also went into three figures, going to Mr. Mitchell, Millfield, for 115 gs. The following is a summary of the prices :

Totto the B of the B		rage
~	£	s. d.
6 Brood mares, with foals	. 92	11 6
1 Harness mare	. 220	10 0
1 Three-year-old filly	. 309	15 0
1 Two.vear-old filly	. 44	2 0
4 Yearling fillies	. 12	5 3
4 Yearling colts	. 33	17 3
17 Al' ages		-

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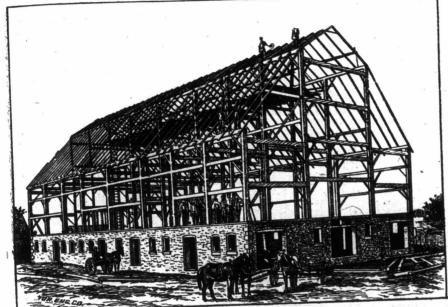
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Mammoth Barn of Beswetherick Bros., near Hagersville, Ont. Floors for horses and cattle were put in this barn with BATTLE'S THOROLD CEMENT.

Most perfect cement made. Has been tested in every capacity.

To those who are unacquainted with the manner in which the cement should be mixed and prepared, we will send, FREE OF ANY CHARGE, a thoroughly practical mason and builder who will lay out all work and give full instructions.

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The Bath and West of England Show

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