

VOL. II.

891

ant ness one fied, ker,

idle

lack with east

one

ngle

ally t as lded

ned s all ober

akes

aller

cept

ues.

and

: 1/4.

ach

Ou

p to

О.

LONDON, ONT., and WINNIPEG, MAN., MAY, 1891.

THE FARMER'S ADVOCATE & HOME MAGAZINE

THE LEADING AGRICULTURAL JOURNAL PUBLISHED IN THE DOMINION.

The FARMER'S ADVOCATE is published on or about the first of each month. Is impartial and independent of all cliques or parties, handsomely illustrated with original engravings, and furnishes the most profitable, practical and reliable informa-tion for farmers, dairymen, gardeners and stockmen, of any publication in Canada.

Terms of Subscription _\$1.00 per year in advan \$1.55 if in arrears; single copies, 10c. each. New subscriptions can commence with any month.

- The Advocate is sent to subscribers until an explicit order is received for its discontinuance, and all payments of arrearages are made as required by law.
- Registered Letter or Money Order, which will be at our risk. When made otherwise we cannot be responsible.
- The Date on your Label shows to what time your subscription is paid.
- The Law 15, that all subscribers to newspapers are held responsible until all arrearages are paid, and their paper ordered to be discontinued.
- Always give the Name of the Post Office to which your paper is sent. Your name cannot be found on our books paper is sent. Your name unless this is done.
- Discontinuances—Remember that the publisher must be notified by letter when a subscriber wishes his paper stopped. All arrearages must be paid. Returning your paper will not enable us to discontinue it, as we cannot find your name on our books unless your Post Office address is given.
- Advertising Rates-Single insertion, 15 cents per line. Contract rates furnished on application. All communications in reference to any matter connected with this paper should be addressed as below.
- THOMAS WELD,
 - Manager "Farmer's Advocate,"

WINNIPEG, MAN., CANADA

Farmers' Associations. In this issue will be found articles concerning Dominion Grange, the Patrons of Industry, and the history of the Farmers' Alliance. We advise all our readers to carefully study all these articles. Co-operation and unity of action is a necessity for the farmers of the Dominion. The great trade and labor unions are controlling or harrassing the world to-day. If it were not for these unions, capitalists and mighty combines would soon reduce the common people to a state of serfdom. Throughout the United States the condition of the farmers is deplorable. There are a few who are doing fairly, but none who are receiving in return for their labor and capital invested a just return. This state of things ought not to exist. No country can advance as it ought while things continue as they are. What is the immediate cause of the depression, and how can we as a nation rise above our present difficulties? As set forth in the article on the Farmers' Alliance, cheap money is a present necessity. The agricultural class throughout the Dominion are carrying a load of mortgages and other indebtednesses. Few indeed are relieving themselves of their burdens, but thousands are yearly increasing them. Unless help is given these struggling masses in some way or other, times will grow worse and worse each year. The party politicians assert that Canadian farmers are yearly growing richer, and that they are a prosperous class. The farmers themselves know that this is not the case. The time has come when Canadian farmers must forsake all party politics, and join in one mighty national organization and discuss fully the situation and determine the course to take. In this they must work together, as do the Knights of Labor. Only by thus uniting can they ever hope to obtain their rights. Divided as farmers are now as a class, honest politicians who wish to serve them either do not know what they really require, or receive so little support from the farmers themselves that they are rendered helpless. We were recently told by a leading politician that cheap money for the farmers is out of the question. Yet Canadian farmers should remember that upwards of \$20,000,000 was obtained for the C. P. R. by the Dominion Government, and that this same government now has upwards of \$50,-000,000 in the post-office savings banks, for which they pay 31 per cent. If the farmers of the Dominion could obtain money at 41 or even 5 per cent. for the next twenty years the Dominion would prosper as it has never prospered. Though wise and well-meaning politicians may render valuable assistance by opening up foreign markets, yet the salvation of our people is to be obtained by thorough organization.

We wish correspondence on all the subjects referred to in this article, and also concerning the questions discussed by the articles previously re-We will be pleased to receive reports ferred to. from the Grange meetings, from the Farmers' Alliance, the Patrons of Industry, or any other farmers' associations. Tell us how you, prosper and what you think, and we will tell 20,000 farmers each month.

Fine Sporting Goods.

The Hingston-Smith Arms Co., of Winnipeg, have got out an illustrated catalogue of guns, ammunition and sporting goods that does credit to Manitoba. We have seen nothing like it in Canada, for beauty of design and completeness. The illustrations, of which there are between two and three hundred, are from the finest electrotypes, making it an interesting book to all lovers of sport. This firm acts as Manitoba and N. W. T. agents for the great firearms manufactories of Winchester, Marlin, and Colts. In base ball goods, they act for Messrs. A. G. Spalding Bros., of Chicago. In lawn tennis supplies, for Messrs. Wright & Ditson, of Boston. The English kings of cricket, Messrs. Lillywhite, Trowd & Co., and Cobbett & Co. send them their cricket goods. F. H. Ayres & Co. supply them with English lawn tennis, rackets, etc., in fact, the best makers in the world of sporting goods reach the public through their energy. Write them for t catalogue, which is sent free on application. Write them for their

Our Monthly Prize Essays.

CONDITIONS OF COMPETITION.

1.-No award will be made unless one essay at least comes up to the standard for publication.

2.—The essays will be judged by the ideas, argu-ments, conciseness and conformity with the subject, and not by the grammar, punctuation or spelling, our object being to encourage farmers who have enjoved few educational advantages.

3.-Should one or more essays, in addition to the 3.—Should one or more essays, in addition to the one receiving the first prize, present a different view of the question, a second prize will be awarded, but the payment will be in agricultural books. First prize essayists may choose books or money, or part of both. Selections of books from our adver-tised list must be sent in not later than the 15th of the month in which the essays appear. Second prize essayists may order books for any amount not exceeding \$3.00, but no balance will be remitted in cash. When first prize essayists mention nothing cash. When first prize essayists mention nothing about books, we will remit the money.

A prize of \$5 will be given for the best essay on "The Profits of Sheep Husbandry in Manitoba and the Northwest ". Essays to be in this office not later than the 15th of May.

We want Good, Live AGENTS to Canvass for the "Farmer's Advocate" in every locality in the Dominion and United States. Sample copies and subscription blanks free to canvassers who mean business.

The Canadian Cattle Trade.

Copies of a Blue Book containing the evidence taken during the enquiry ordered by the Canadian Government into the export cattle trade have been forwarded to the Imperial Board of Trade. It is to be hoped that in the next session of the Dominion Parliament legislation will be introduced authorizing the government to frame rules and regulations for governing the cattle export industry, and ordering the appointment of an inspector to examine vessels with regard to their seaworthiness, to see that they are properly equipped and ventilated and provided with fittings of a permanent character, to ensure a sufficient number of men being carried to properly attend the animals, and to take care that the animals are plentifully supplied with food and water and have ample space. It is thought that these proposals will meet the views of the most ardent humanitarian.

Messrs. Gordon, of Pilot Mound, and Iron-sides, of Manitou, leave early in May with 600 Manitoba cattle for the Liverpool market. This is the first time these gentlemen have gone across with their own cattle, although they have sold great numbers to Montreal exporters. They have paid the farmers of Southern Manitoba about \$35,000 for this lot.

THE FARMER'S ADVOCATE.

Veterinary.

170

ANSWERED BY W. A. DUNBAR, PRESIDENT MANITOBA VETERINARY ASSOCIATION.

"I have two cows that have failed to clean after calving. Please let me know what to do under such circumstances."

Give to each cow sulphate of magnesia 12 oz., nitrate of potass and ground ginger of each half ounce. Dissolve in one quart of hot ale, add one pint of treacle, and give in one dose. Tie a pound and a-half weight to the protruding membranes close to the vulver or "shape," and if the after birth does not come away in thirtysix hours it should be removed by hand by an experienced person.

"Would you please inform a subscriber, New Westminster, the reason for a mare putting her tongue out of her mouth and allowing it to hang straight down? She only puts it out when she has the bit in her mouth."

Have the animal's mouth thoroughly examined and see if it is free from disease. Observe particularly if the teeth are lacerating the tongue or cheeks, and if so have them dressed by a competent person. Notice if there is anything of an irritating nature in connection with the bit. Endeavor to find out the cause, and if you succeed in doing so the cure will consist in removing it. If there is no pathological or mechanical cause discoverable, the peculiarity is probably due to habit, which is more easily prevented than cured. There are bits specially constructed for the prevention of this nasty habit, which may be bought from any well furnished harnessmaking establishment.

Portage Stallion Show.

The annual spring show of stallions of the Portage and Lakeside Agricultural Society was held at Portage la Prairie on Saturday, April 11th, and brought out a number of fair to good animals. In the Clydesdale class there were eight animals forward. Lord Coleridge, owned by Mr. A. W. Everest, Ridgemere Farm, won first place, and Bounding Willow, owned by the same gentleman, took second place. Lord Coleridge is a nicely topped animal, good quarters and barrel, and a nice neck and head, the latter perhaps rather effeminate to suit some judges : his legs are fair, but feet far from first class, and action not all that could be desired. Bounding Willow is a strong well-muscled horse of great substance, excellent action and the best of feet. His limbs were originally good, but improper feeding and lack of care is telling upon them. The greatest deficiency with this horse is that his ribs are not as nicely sprung as might be desired, and this deficiency is intensified by the fact that he is inclined to lay on flesh more readily elsewhere than on the ribs. Third place was given to J. W. Brown's Georgia. In Shire horses the first was awarded to Rodger Bell's British Tom, who, although winning without competition, was well worthy of the prize. In Pedigreed Draught class Mr. R. Ferriss was awarded a first prize on his Suffolk Punch horse Victor. In the Agricultural class first was awarded to McLean & McRobbie's Walsingham Tom, second to A. C. Moore's British Commander. In Roadsters, A. More's Pilot Chief won first, W. B. Charleton's Electric second, and W. M. Smith's Billy Sheridan third. The judges were, for the bases Robert McGowan, W. M. Sheridan third. The judges were, for the heavy classes: Robert McGowan, W. M. Edwards and Dr. Torrance, V.S., of Brandon; for the light classes, J. J. McRobbie, D. Sinclair and Dr. Torrance. The show was not on the whole equal to that of last year, but is doubtless the best in the province.

Rapid City Institute.

Early in the winter a letter was received at this office from the editor of the Rapid City Reporter, requesting assistance in the formation of a Farmers' Institute for the Electoral Division of Minnedosa. This was granted, and the Reporter man at once set about making the meeting a success. In the meantime an institute had been formed at Minnedosa, thus shutting out Rapid City so far as government aid was concerned. The institute was formed, however, and all the requirements of the law complied with, so that now Rapid City may renew the application to the government and secure the usual grant. Since the formation of this institute it has been progressive and successful, and from present prospects will be one of the best in the province. Much credit is due the local paper for the efforts made, and success attending these efforts.

Brandon Farmers' Institute.

This Institute held a very successful meeting on Friday, March 27th, in McDiarmid's Hall. A paper written by Mr. A. E. Struthers, of the Bernardo Home, Russell, Man., who was unable to be present, was read by the President. The paper gave an account of the establishing of the dairy in connection with the farm, in order to provide, as far as possible, employment for the boys at the Home, and had been in all respects a success. J. W. Bartlett, of the FARMER'S ADVOCATE, read a paper on "Economic Dairying," which, with the discussion thereon, is given in another column. Mr. Leitch, of Brandon, gave a short but valuable address on "Dairying in General," referring to many points well worthy of considering at greater length. Mr. Leitch referred to the following prerequisites to successful dairying : Good stables, such as will keep the cows warm and comfortable, and with sufficient ventilation to keep the stable free from foul odors of any description. The speaker claimed that it was an absolute impossibility to produce first class milk, butter or cheese with manure clinging to the cows, or dandruff, or secretions from the skin dropping into the milk pails. He also insisted that it was necessary to clean the stables thoroughly every morning and evening. He claimed that a large and comfortable corral, with a shed to furnish shade, should be provided for milking the cows in, and only tin vessels should be used to milk or keep milk in, and they should be thoroughly scalded as often as used. Mr. Leitch dwelt at some length on the climate of Manitoba, pronouncing it the best on the continent for the manufacture of butter and cheese. He also referred to the fact, and fact it must be admitted to be, that the men of the farm are chiefly to blame for the inferiority of much of the farm butter, by not providing facilities for producing a better article. He regretted the manner in which many of the cows were kept in this country ; some were in such a manner as to render their product totally unfit for food. Mr. Leitch was listened to with marked attention, and his remarks were evidently appreciated. In the evening a musical and literary entertainment was held in the same place, under the auspices of the Institute, when the following programme was rendered : Music, Go Work in My Vineyard ; addresssubject, Seeds, by Rev. Mr. Urquhart ; instrumental, Miss Pickett; music, Scatter Seeds of Kindness; address-subject, S cds, R v. Mr. Mason; music, What Shall the Harvest Be;

violin solo, by Mrs. Harkness; collection; music, Ho' Reapers of Life's Harvest; address subject, Smut, Rev. T. W. Pickett; music, The Mistakes of My Life; violin solo, Mrs. Harkness; address—subject, Harvest, Rev. Mr. Jenkins; instrumental, Miss Harrison; music, Bringing in the Sheaves. The various subjects were well handled by the reverend gentlemen, some of whom had attended the regular meetings of the Institute, and heard the same subjects discussed in a literal sense, and were in an excellent position to discuss it from a Scriptural standpoint, and apply a moral meaning. The ADVOCATE commends this departure, and hopes to see other institutes follow the example. The next regular meeting will be held on the first Saturday in June, when mixed farming will be discussed.

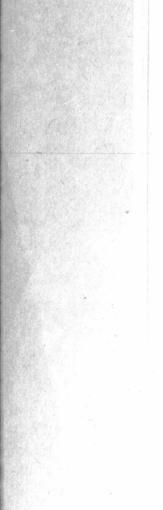
The Registration of Swine. BY HENRY WADE.

Read before the Swine Breeders' Association. I have been requested to prepare a paper on the registration of swine, and in response would say that the Agriculture and Arts Association have been recording Berkshires ever since December, 1876, and now have over 3,600 pedigrees on hand; enough to print a large volume. A Suffolk record was also started about three years ago, but as yet only 50 pedigrees have been recorded. In May, 1889, an Improved Yorkshire record was begun, and we have now over 500 pedigrees, and they are increasing rapidly. I might also say of the Berkshires, that during the last two years fully one half of the 3,600 have been recorded, showing the demand there is at present for swine with pedigrees.

We are quite ready to commence records for Poland China, Chester White, or any good breeds of pigs; our fees are very low, 50c. each, we providing a certificate and sending blank forms for description of animals free, just onehalf of what they charge for registrations in the United States. It is quite time that all swine exhibited at the larger shows should be recorded, and if all the breeds were recorded in this country there would be no difficulty in getting the exhibition associations to adopt the rules.

The Agriculture and Arts Association will be pleased to enter into an agreement with your Association whereby we can work jointly in the interests of swine breeders. I can as Secretary in a very short time double your membership by raising our fee to non-members to 75c. for each certificate instead of 50c. as at present. " Our proposition is this : That for the registration fee of 50c. we will issue a certificate and print a book ready to be sold, the same as we are doing for the other associations. If your annual fee was large enough you could present a volume free to each of your members and still have some money left for other purposes. Now to get at this. In my opinion there are two ways in which to proceed, one is to increase your membership fees to \$2 a year and have a swine record printed with all the breeds in it, and give one to each member yearly. The other plan would be for Berkshire breeders, the Yorkshire breeders and other breeders to pay an extra \$1 and have the books printed separately, the other \$1 being due when each volume is ready, thus having a Berkshire, or other breed, branch of the Swine Breeders' Association, but still acting with the Swine Breeders' Association as a whole. In any case we intend to publish the Berkshire book this summer and a Yorkshire one also if requested, and I now ask that a Committée be appointed from these associations to revise the pedigrees already on record before we

MAY, 1891



MAY, 1891

91

n;

s— The

ss; ing; rell of

the

sed

)8i-

nt,

TE

her gu-

in

on ıld ion)eeès A ars een rkver ly. ng 00 ere

for od ch. nk nehe ine ed. his ng

be ur

ry by ch ur ee 8 ng

ld

ers

es.

wo

180

8

it,

er

k-

an

у,

is

d,

ut

on

 $^{\rm sh}$

ire

m-

to

we

FARMER'S ADVOCATE. THE

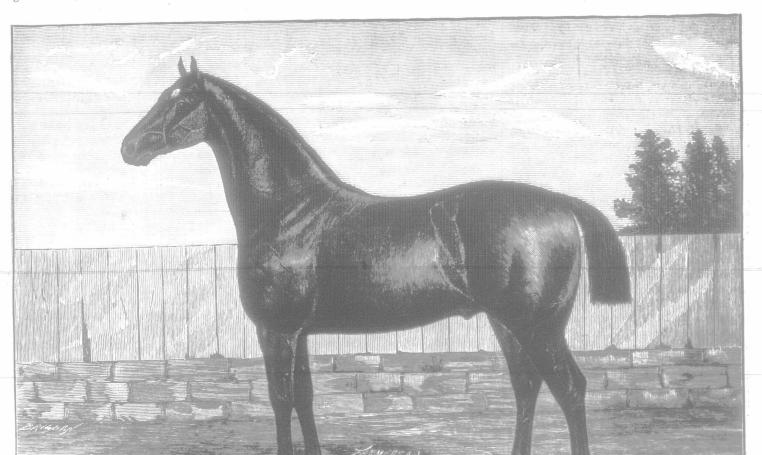
Gold Fox.

is conceded on all hands to be the highest production of the breeder's art-a specimen of the back, stylish put on neck and head ; he has good Thoroughbred horse, having sprung from the highly-prized Eastern blood, of which writers on the horse have spoken in such glowing terms, being noted alike for beauty of form as well as horse, but is sound and right. He should prove fleetness of foot. In England the highest nobles particularly valuable in getting high-class carriof the land, as well as the cleverest talent, have age horses, weight carrying hunters, as well as fed steers, 1,100 to 1,400 lbs., \$5.50 to \$5.75; spent their time and wealth in bringing to the the highest priced saddle horses of all classes. yearling steers, 600 to 1,000 lbs., \$4.75 to \$5.121; greatest perfection the English Thoroughbred. An analysis of his blood lines will convince a corn fed western sheep, 90 to 125 lbs., \$5.50 to His flights of speed, and equally wonderful per- judge of pedigree that the stoutest racing blood \$6.00; shorn westerns, \$4.70 to \$4.90; lambs, formances at long distances have made him much in the stud books courses in his veins. With \$5.75 to \$6.85. Texas sheep very scarce. Sales, sought after by horsemen from all countries. these characteristics Gold Fox has the essentials \$4.75 to \$5 50. Western sheep feeders have not

strong, wide hocks. He is built after the right Our illustration for this issue represents what pattern from the ground up. His top piece is equally well finished, being well coupled ; strong four-year-old—is not a broken down race-

Chatty Stock Letter from the States.

Late notable sales included 26 Angus cows, 1,200 lbs., at \$5.25; 42 Hereford steers, 1,112 depth of rib, good in the middle and at both lbs., \$5.90; 17 Shorthorn steers, 1,282 lbs., ends. Gold Fox is a rich chestnut, and rising \$6.10; 16 Shorthorns, 1,527 lbs., \$6.40; 15 export stags, 1,752 lbs., \$5.35; export bulls, 1,600 to 1,800 lbs., \$3.75 to \$4.50; slop-fed bulls, 1,612 to 1,760 lbs., \$4.25 to \$4.35; slop-



171



upon his offspring what is known as quality, and of London, and we predict a successful career if highest in over three years, with the exception which has made the Thoroughbred cross so popu- he only receives sufficient patronage, which he of one sale last holiday time. Late prices for ar. In England the value of this breeding has decidedly deserves. He is owned by J. D. beef cattle were from \$1 00 to \$1.50 per 100 lbs. always been held in great estimation. Being O'Neil, V.S., of this city, and the illustration, higher than a year ago. Prices for hogs are 30 pre-eminently a horse-loving people, with time which is an admirable likeness, is from an oil cents higher for poor kinds, and \$1.10 per 100 and wealth at their disposal, horse exercise has painting by Mr. J. P. Hunt, of London, Ont. always been in high repute, and, therefore, the best class of horses for saddle and harness has been in demand for generations, each class of the so called light-legged horses being improved by a dash of this blood, to give them bottom and style.

Gold Fox, the subject of the illustration before us, is a beautiful horse ; he is large, standing 16 1½ on the best of feet, particularly well set ankles, and standing squarely on all his legs, with good heavy bone below the knee, capital, success in many cases.

for his well-known prepotency in impressing farmers and horse breeding public in the vicinity have made money. Cattle lately sold the

A mongrel stallion is more damaging to a neighborhood than a Northwest blizzard, and the baneful influence of such a visitor lasts for years. When a man comes peddling such a nuisance into your barnyard, set the dogs on him.

Farmer's Review, Chicago, says :-- " Canadian land agents are endeavoring to induce the settlers of the districts in Dakota where there was a failure of crops last year to emigrate to Canada and take lands along the line of the Canadian Pacific. They are meeting with great

This is not alone for his racing powers, but also for a prime favorite, particularly among the done quite so well as they expected, but they lbs. higher for good kinds, than a year ago. The extremely heavy hogs, averaging 400 to 500 lbs have been comparatively neglected. A good many 100 to 150-lb. pigs have lately sold at \$3.75 to \$5.00. A good many heavy sows have been marketed, and farmers are not keeping half as many breeders as last year. Cattle dealers and handlers are generally unanimous in the opinion that cattle are bound to sell higher than a year ago for some time to come. The writer recently saw some finely bred Shorthorn cattle sold at little if any more than beef prices -\$62 for cows and \$76 for bulls. Such prices would indicate that now is the time to improve the herds.

ADVOCATE. FARMER'S THE

MAY, 1891

Our Scottish Letter—Clydesdales.

172

For some time past, all around our planet, so to speak, the welkin has been ringing with statements and theories regarding the Clydesdale and his alleged want of pith and weight, as compared with his great southern rival-the Shire. In the course of a lecture which has recently been delivered before a meeting of farmers and breeders of horses in Cupar Fife, Scotland, the following statements were made on the authority of the owners of the various horses named, and our readers will be able to judge for themselves after reading them whether the lecturer overstated or underestimated the claims of the Clydesdale to be regarded as the best draught horse in the world :--

Taking three different horses got by different sires, and of somewhat different types, the following results have been obtained : Cairnbrogie Stamp 4274, owned by Mr. John Marr, Cairnbrogie, Oldmeldrum, is familiar to many breeders as the winner of first prize three years in succession at the Highland Society's Shows. His height is 17.01 in.; girth, in low condition, 7 ft. 61 in.; measurement round the upper muscles of the forearm, 32 in.; round the forearm, with the lower edge square with the upper edge of the horn, 18 in.; bone below the knee at smallest part, 111 in.; length from elbow to knee, 16 in., and from knee to fetlock joint, 11½ in.

Sirdar 4714, a successful prize horse, and now the property of the Fortmashire Clydesdale Horse Company (limited), is of somewhat different build and breeding. His height is 17.11 in.; girth, lean, 7 ft. 10 in.; weight (at present), 191 cwts., or 2,184 lbs.; measurement round upper muscle of forearm, 23 in.; round forearm above horn, 164 in.; bone below knee at smallest part, 103 in., and bone below hock, 121 in.; length from elbow to knee, 181 in.; from knee to fetlock joint, 121 in.; from stifle to hock, 22 in.; from front of hock to fetlock, 13 in., and from point of hock to fetlock, 151 in.

Sir Everard 5353, owned by Mr. William

girth, and the question of condition would require to be considered before that could fairly be compared. He measures 19 in. round the knee, whereas Sir Everard, who is eight years younger, measures 17 in. at the same part.

Captain Heaton, the respected manager of the Earl of Ellsmere's stud, furnishes these measurements of Vulcan 4145, the London champion of 1889 and 1891. This horse is eight years old, and, therefore, three years older than Prince of Albion : two years older than Sir Everard ; one year older than Cairnbrogie Stamp and Sirdar, and the same age as Flashwood. Vulcan's height is 17 hands; girth, 8 ft. 7 in.; weight, 20 cwts.; measurement round forearm, 20 ft. 7 in.; bone below the knee, 12 in.; length from elbow to knee, 1 ft. 7 in.; knee to centre of fetlock joint, 13 in.; stifle to hock, 1 ft. 9 in.; point of hock to fetlock joint, 1 ft. 7 in. It is a pre-eminently fair comparison to bring some of the measurements of the Clydesdale, Flashwood 3604, alongside of these figures regarding the Shire, Vulcan. He was first at the Glasgow Spring Stallion Show in the same years and months as Vulcan was first at the London Spring Show, and both are of the same age. Flashwood then stands 17 hands high and weighs 20 cwts. His girth is 8 ft ; he measures above the knee and round the forearm, level with the upper edge of the "horn," 20 in.; below the knee, 11 in.; above the hock, 211 in.; and below the hock, $12\frac{1}{2}$ in. It will thus be seen that he and Sir Everard measure 7 in. less in girth than Vulcan and 1 in. less in bone below the knee, but Sir Everard in the middle of his season last year weighed 3 cwt. heavier than Vulcan did four weeks after his London triumph, and Flashwood weighed equal to Vulcan under almost similar conditions. Deduct the Shire horse's 7 inches greater girth, making allowance for the part that plays in increasing his weight, and it is obvious that the two Clydesdales weigh heavier in bone, muscle and sinew than he, although in these they are less bulky. My object in bringing forward these compari sons will not, I hope, be misunderstood. It is not to furnish data whereby Clydesdale men may attack the Shires, but to enable those who are partial to the Clydesdale, but have their ears ringing with declamations as to his deficiency in size and weight to judge for themselves how much truth there is in such declamation. It is admitted that Shires are as big as the heaviest kind of draught labor calls for a horse being. It is admitted that Bar None and Vulcan are typical Shires of the heaviest class. It is proved by these figures that while these two horses surpass several of our heaviest Clydesdale horses in weight and size of body, they do not surpass them in gross weight, so that the conclusion is forced on us that in that which constitutes the true strength and power of a draught horsebone, muscle and sinew-the Clydesdale is not inferior to any other breed, but is superior, while the absence of an overweighted carcass renders him the most active of all draught horses. But I intend to go further. I maintain that the Clydesdale of most quality, the Clydesdale that is most popular in the show ring, that is sometimes, even by those who do not admit the truth of the charge of lack of substance and

material that constitutes real strength and power in draught, than horses that to the eye appear to be bigger. To illustrate this position Mr. Gilmour's Prince of Albion (6178) was taken. It has been publicly asserted, not in England, but in Scotland, as a sort of universally acknowledged truism that Prince of Albion is undersized. Here are his measurements. The reader can compare them even with Vulcan's, the London champion of the Shires (the best Shire horse I have ever seen, and one of the best draught stallions that ever entered a show ring), and judge for himself. Prince of Albion on plates-not wearing shoes-stands 16.3 in.; girth, 7 ft. 4 in.; round forearm, tape touching horn, 1 ft. 6 in.; round upper muscle of forearm, 1 ft. 111 in.; below knee, 111 in.; below hock, 121 in.; length from elbow to middle of knee joint, 1 ft. 71 in.; from knee joint to middle of fetlock joint, 111 m.; from stifle to hock, 1 ft. 91 in.; and from hock to fetlock, 1 ft. 21 in. These are the measurements ; how do they compare with those that have gone before ? Always bear in mind what has been said about the ages of the various horses. Prince of Albion is one inch less in height than Flashwood and Vulcan, 11 in. less than Cairnbrogie Stamp, 2 in. less than Sir Everard and Bar None, and 21 in. less than Sirdar. In girth he is 1 ft. 5 in. less than Bar None, 1 ft. 3 in. less than Vulcan, 8 in. less than Sir Everard and Flashwood, 6 in. less than Sirdar, and 21 in. less than Cairnbrogie Stamp. Round the upper muscle of forearm he measures $8\frac{1}{2}$ in. less than Cairnbrogie Stamp, $7\frac{1}{2}$ in. less than Vulcan, 21 in. less than Sir Everard, and $\frac{1}{2}$ in. more than Sirdar. In bone below the knee he measures $\frac{1}{2}$ in. less than Vulcan, the same as Cairnbrogie Stamp and the aged Shire horse Bar None, $\frac{1}{2}$ in. more than Flashwood and Sir Everard, and $\frac{3}{4}$ in. more than Sirdar. Below the hock he is 1 in. better than Sirdar, $\frac{1}{2}$ in, better than Sir Everard. and the same as Flashwood.

It will be seen from these figures that Prince of Albion has absolutely the greatest width of bone of all the horses with which he is con



Taylor, Park Mains, Paisley, has three years in succession been awarded the Glasgow district premium at the Spring Stallion Show. His height is fully 17.1 in.; girth, in lean condition, 8 ft.; weight (in June, 1890), 203 cwts., or 2,324 lbs.; measurement round upper muscle of forearm, 26 in.; round knee, 17 in.; bone below the knee, smallest part, 11 in.; below the hock, 12 in.; length from centre of knee to centre of fetlock joint, 111 in.; from stifle to bend of hock, 211 in.; from point of hock to fetlock, 181 in.; from top of shoulder to top of foreleg, 3 ft. 4 in., and from elbow to stifle, 3 ft. 2 in. \skew All of these measurements were taken in the second week of March, 1891, except the weight of Sir Everard as specified above.

If we look now at the measurements of one or two well-known Shire horses, we get the follow ing results :-

Mr. Forshaw's Bar None 2388, a much older horse than either of the three Clydesdales specified, having been foaled in 1877, is a wellknown and popular sire in England. Some measurements connected with him were recently published, and from these it appears that his height is 17.1 in.; girth, 8 ft. 9 in., and measurement of bone two inches below the knee, 111 in. weight as brought against the breed as a whole, From these three items it appears that he has admitted to be somewhat on the small side, may no advantage over the Clydesdales except in be and sometimes is possessed of more of the

pared except Vulcan, and age being considered, he surpasses him also, and that in respect of his height and other measurements, he has the best proportion of bone, muscle and sinew. Cairnbrogie Stamp has more muscle than Vulcan, and almost as much compass of bone. The other measurements may be compared at leisure. What has been said is sufficient to establish the position that has been taken up, and to prove that even on the score of size and weight, which are not the only tests of the merit and value of the draught horse, the Clydesdale can do more than hold his own against other breeds. The last position that is established by these figures from the measurements of Prince Albion ought to suggest caution in making strong statements regarding well-balanced horses. The question in regard to draught horses, as well as in regard to racing horses, is not first which horse is the biggest, but which horse is made of the best stuff; which horse will stand the strain longest. These thoroughbreds are not the biggest looking, nor are they often the big-gest in reality, and the best Clydesdale is not the horse that looks biggest at home, where there is more that he may be compared with, but the horse that is seen to best advantage when compared with the best that can be brought against him. Round, porous bone to the eye appears heavier than clean, flinty, flat bone, but we have seen that the horses with the latter turn the scales to best advantage.

SCOTLAND YET.



MAY, 1891

391

and

eye

ion

was

in

ver-

ion

Гhе

n's,

pest

pest

ıg),

on

in.;

ing

rm,

ock.

nee

of 6

ft.

in.

om-

ays

ges

one

ean,

less

less

han

less

han

mp.

ires

less

and

the

the

hire

and

lar.

lar,

8.8

nce

of

red,

his

best

irn-

an,

The

ure.

the

ove

tht,

and

can

eds.

1050

oion

ong

The

8.8

nich

e of

the

not

big-

not

iere

ith,

age

be

to

flat

THE FARMER'S ADVOCATE.

Improving Stock—Raising Calves— Developing the Steers.

(CONTRIBUTED.)

A paper too lengthy for our columns, and too valuable to be consigned to the waste basket, written by a gentleman of long experience in stock-raising and feeding, who does not wish his name to appear in print, has been received at this office, and the following extracts are taken from it :---

IMPROVING THE STOCK.

"The first and most important point after securing your cow, is to get as good a pure-bred sire as you can afford, for a few extra dollars either in the purchase or service of such an one will be more than repaid in the effect it will have on the offspring. When the cow comes in heat she should be allowed to see the bull apart from other cattle, and immediately after service tied up in her stall until her heat fully passes off. The practice of hurrying cows into the yard for service, and then turning them out again is a bad one, as the other cattle tease and worry to no good, but frequently to positive injury.

RAISING CALVES.

"Objections have been made to allowing calves to run with the dams during summer, but on ranches it is the only feasible method, on account of the saving of labor effected, but the calves will grow up wild and unmanageable. If a steer, and intended for beef, this is of little moment, but if a heifer, intended for the dairy, she is much harder to manage and break in than if subjected to early handling, like calves that are raised from the pail.

THE STEER AT ONE YEAR OLD.

His treatment will of course greatly depend on whether he is to be fattened off the grass at two and a half years or kept over and finished at three years. No doubt fattening off the grass is cheaper, but where grazing is as scarce as it now is in many parts of this country it is as well to stall feed. I do not intend to go into all the details of the different weights and measurements required to make a pound of beef, but will merely give an outline of what I think the cheapest and easiest method for the ordinary farmer in Manitoba, without fancy and artificial foods. When the steer is turned out to grass in the spring he should be allowed a little salt once a week at least; but better still, that he have continuous access to it, and have plenty of good water. Steers do much better on a large run, being much more contented than in a small one where they soon pick over the grass, and begin to fret. In the fall they should be put in the stables before the weather becomes severe. They should only be allowed out in the middle of the day when the weather is fine, and in stormy weather should be watered in the stable, if it is at all convenient to do so, and not turned out at all. They should never be overfed, but should be given just what they will eat up clean at a meal. I have not mentioned roots, as they are a lot of trouble and hard to save in good condition, very few farmers having cellars large enough to hold as many as would be required. In the stable every beast should be taught to walk up into its own stall as soon as it comes in, thus saving much trouble and inconvenience. Finely cut hay mixed with a little crushed oats or wheat, measured or weighed, and not fed in bulk, as is usually done, makes very good feed. | thoroughbred cow ?

The amount may require to be changed, according to the weather, less grain being required in mild and more in severe weather. If this food could be fed warm a great saving would be effected, as a great expenditure of animal heat is required to warm cold feed going into the stomach. and as a consequence more food is required if fed cold than if slightly warmed. In the stalls the cattle should be kept clean and well bedded with straw or other litter. If this is attended to they will lie down most of the time when not feeding, and will take on flesh much faster than if kept in a state of nervous excitement by uncomfortable surroundings. Much has been said and written as to the cost of beef from the different kinds of food, but I think the cost depends more upon the care and regularity of the feeder. Suffice it to say that all experiments tell us that it costs less to put a hundred pounds of beef on the calf than the yearling, and less upon the yearling than the two-year old. It also costs much less upon the thrifty than the unthrifty. It is, therefore, hard to determine the cost of the steer, when fit for beef, until the cost of feeding a given number of calves shall be accurately noted from birth until fully matured and ready for the butcher."

A Prolific Shorthorn.

The Shorthorn cow Isabella Third = 6369 =, bred by Mr. Seth Heacock, Kettleby, Ont., and owned by Mr. H. H. Spencer, Brooklin, Ont., sired by Fidgit's Oxford Eighth - 631 =, dam Isabella Second, by Oxford Mazurka, gr. dam bred at Kinellar, is a good example of productiveness, showing how exceedingly remunerative an investment such a cow turns out, and how quickly a large herd can be produced from one cow with a little more than ordinary heifer producing predifection. The law of heredity follows as faithfully in producing powers as in any other essential point, and in this Isabella Third has come honestly by her prolificness, her dam having bred her first calf at two years old, with a goodly lot of descendants, and her gr. dam proved an exceedingly good breeder, with a long list of calves to her credit. Isabella Third, calved Nov., 1876, produced one heifer which turned out a good breeder before Mr. Spencer purchased her. Since coming to Mr. Spencer's herd she has produced seven calves, five of which were heifers, the four oldest as follows : Isabella 4th, calved Feb., 1881, produced her first calf, a heifer, Nov., 1883, seven in all up to date, five of which were heifers. Isabella .5th, calved Feb., 1882, has produced six calves one of which was a heifer. Isabella 7th, calved 1884, has produced four calves. Isabella 12th, calved Feb., 1887, has produced one calf. Of Isabella Fourth's first four daughters, Isabella 6th, sold to Mr. A. C. Bell, New Glasgow, N. S., calved Nov., 1883, has produced four calves. Isabella 8th, calved Oct., 1884, has produced two calves. Isabella 10th, calved 1885, has produced four calves. Isabella 11th, calved Oct., 1886, has produced three calves. Isabella 9th, the only heifer from Isabella 5th, also sold to Mr. A. C. Bell, has produced one calf. Then Isabella 13th and 14th have each one calf, making a grand total of 49 cattle to the credit of one cow inside of ten years. Among the lot, a goodly number of bulls have been distributed far and wide over the country. With a few records of produce such as this, who would not invest in a

The Most Economical and Healthful System of Feeding Farm Horses.

BY THOS. M'MILLAN.

In view of the fact that this province has become noted for the high standard of its draught horses, and knowing that our climate is well adapted to the raising of such animals, it is our duty to enquire, and endeavor to find out the most economical system of feeding, always bearing in mind that no system can be ranked as economical which does not ensure the health, and build up and maintain that hardiness of constitution required for the purpose of enduring constant work, for which horses are used. We must bear in mind that in order to gain the best results our course of feeding and management must be such as to secure a steady and continuous growth until the animal reaches maturity. In order to do this we must know that our duty begins at the time of conception, and that any irrational treatment of the dam will be injurious to her young, because in following out a system of feeding brood mares successfully and economically it cannot be disassociated with the general management which they otherwise ought to receive. Although horses are kept for their muscle and to work, brood mares should not be overstrained, and should be fed regularly and liberally upon such food as will best provide that nourishment required for the proper growth of the colt. During the summer and fall there is no better treatment for brood mares than to turn them on a good grass field with plenty of shade and pure water. In the winter season they must have plenty of exercise, and be fed on laxative food. Now, when the time has come that there is not sufficient work on the farm in winter to keep mares in constant exercise, a good mode of feeding and treatment is as follows :---Water three times a day, and always before feeding ; in the morning give 3 lbs. bruised oats mixed with 2 lbs. cut hay and straw, also 4 lbs. long hay in manger ; noon, 3 lbs. bruised oats, 2 lbs. cut straw and hay, with 3 or 4 lbs. turnips, and 3 lbs. long hay; night, 3 lbs. oats (boiled) mixed with 1 lb. bran and 2 lbs. cut straw and hay and 7 lbs. long hay in manger, or a total weight of 32 lbs. per day, costing me, at market price, about 18 cents. Along with this system of feeding, mares should be turned out in yards for exercise during part of the day, and have the freedom of a loose box at night. During the spring mares should be worked constantly up to the time of foaling, but with great care, to prevent tiring too much or overheating them. During the suckling period they should never be worked, and directly after foaling care should be taken in feeding for the first ten days, if the dam is a good milker, that the foal does not get too much milk. After the foal has become used to the mother's milk, the latter should be well fed in order to give sufficient milk to produce a strong growth in the foal, which should be suckled from four to five months. Turn her into good pasture with plenty of living water, and feed a ration of bruised oats and bran, perhaps twice a day, as scant nourishment of the foal during this period is often fatal to full development afterwards. The whole system of the young animal is plastic in the hands of the skilful feeder. Full rations of appropriate food will give it the habit of strong and rapid growth, which is easily continued after weaning; but, on the other hand, deficient nourishment will not only contract its present

173

THE FARMER'S ADVOCATE.

prominent during the last ten years. Foremost

MAY, 1891

growth, but also contract its powers of digestion so as to make it unable to use sufficient food to give full growth after weaning.

When the rapid growth of grass in spring is past the mares and foals should be fed in the stable morning and night, a grain and bran ration, mixed with cut hay or cut oat sheaf, and a little green corn, which should be grown for the purpose. Tie the foals in the stall along with their dams, and place food before them. They soon become quiet and docile, will readily learn to feed, and thus there is no loss of flesh in weaning, and no difficulty and annoyance in their after training.

During the first winter colts should be fed as follows :- Daily ration, 5 lbs. oats (3 being bruised and fed morning and noon, and 2 boiled and fed at night); 1 lb. bran, 4 lbs. cut straw and hay, 5 lbs. long hay, with a few roots fed at noon, making about 18 lbs. per day with the roots, and costing at market price here about 912 cents. Keep them in loose boxes, and, except in very stormy weather, have them out in yards the most of the day, as they require lots of exercise. A good and cheap food can also be given by substituting skim-milk, warmed with hot water, in place of some cold water. When spring comes they should be turned to grass, and fed a grain ration twice a day for the first season. They should also be well fed during the following winter, as yearling horses require much nourishment to supply the wants of their growing system, always bearing in mind that they need most of the day for exercise during winter. In the rearing of young horses it will be found that if they are well fed till they are two years of age they will get fat upon good grass the third summer.

Working animals, which are constantly employed during the day, should be confined to the stable at night. Of course, with these as with all other animals, judgment must always be used, and the amount of concentrated food should depend upon the nature of the animal and the manner in which they are worked, but bruised oats.

the habit of bolting it before chewing sufficiently, which cannot be done unless the food is damped to a certain extent. Barley and peas should never be fed to young and growing horses, nor to any horses, excepting when at very hard work, and then only in small quantities, as, owing to their mealy and heating nature, there is always a tendency to induce colic complaints and throw the system out of condition, through the swelling of limbs, clogging of veins, and similar ailments to which the horse is subject, thus rendering him valueless out of the hands of the owner. which is altogether too much risk considering the slight difference of increase a full oat ration might cost.

In the system of feeding horses, as in the feeding of all animals, it must always be borne in mind that although a liberal system may do a great deal, yet much depends upon the disposition of the caretaker, and the treatment which the animal receives at his hands. The colt should be handled almost daily. Care should be taken to avoid frightening it. It should be taught to regard man as its greatest friend from whom it may always expect a pleasant caress or something palatable to eat. This is not only important with reference to its future temper and usefulness, but vastly important to its rapid growth. We often hear of different results from the same food upon animals of the same age and class. but experience has proven that this is caused as often through the feeder as the animal. If, then, the colt raiser and horse feeder desires to produce the best results from the least food, he must accompany the food with kindness.

The Progress of Holstein Cattle in America.

BY R. S. STEVENSON.

The remote origin of the Holstein race of cattle affords a theme for unlimited speculation. According to the best authorities all that seems to be certainly known is that for an indefinite period, before the records of history, there existd in North Holland and Friesla race of cattle. There were a few of this breed imported to America as far back as 1625; but as they were not kept pure they soon became extinct by crossing them with the common cattle of this country. In 1861 an importation of five head, consisting of one bull and four cows, was made. This was the foundation of the breed in this country. They made very slow progress for the first twenty years after their first introduction; but as their merits became known the demand for them increased. In 1881 there were 2,782 registered Holsteins in America, and up to the present time there have been registered 41,034, viz., 24,241 cows and 16,793 bulls, a wonderful growth in ten years. They are scattered over this continent from ocean to ocean, and are giving the best satisfaction wherever they have been introduced. Without disparaging other breeds, it must be admitted that the Holstein has won its way to popular favor in a remarkably short period of time. It has done this in the face of stronger prejudice, and more severe criticism than any other breed ever had to contend with. It would not have been possible for it to have done this without possessing peculiar qualities answering to a wide demand.

among those is its adaptation to more than one purpose. Although theorists may condemn the general purpose cow, the fact remains just the same-that the great mass of farmers of this country to day are demanding just such an animal. It does not pay ordinary farmers to raise cattle for beef alone, nor does it pay to raise them for milk and butter alone. They want milk, butter and beef in one animal. The Holstein-Friesian is just such a breed ; it is the dairy and beef breed, the dairy qualities leading. The enormous amount of testimony that is available to prove the unrivalled excellence of the Holstein for general dairy purposes is almost overwhelming. I shall refer you to the pages of the Advanced Registry, where you will find the well-authenticated milk and butter records of 908 cows. I will also make special mention of the astonishing butter record of 963 lbs. in 9 months made by Pauline Paul, and 223 lbs. in 60 days, and 320 lbs. in 90 days, made by Clothilde II. I would also call your attention to the 83 cows in the Lakeside herd that have averaged 20 lbs. of butter in 7 days, and 27 head in the smaller herd of Mr. Thos. B. Wales that have averaged over 20 lbs. in seven days. This, I think, shows that it is not only individual cows that are capable of producing large quantities of butter, but large numbers of cows in single herds. I will also remind you that for the last four or five years nearly every premium offered for public competition in milk and butter tests has been won by Holstein-Friesian cows. Another characteristic that has brought these cattle into prominence is their heredity, for, as the Hollander has been persistently breeding these cattle for centuries for general dairy purposes, so behind every well-bred Holstein there is a long line of deep-milking ancestors; and so prepotent is the breed that when the bulls are crossed with other cattle the offspring is nearly always black and white, and the grade heifers from well-bred bulls are practically as good dairy animals as the pure-breds. The constitutional vigor of this breed has had much to do with its success. Dairymen require vigorous cattle, as they can be fattened with comparative ease should anything occur to impair their usefulness in the dairy. It is not surprising, in the face of these well-known characteristics of this breed, that the general farmer has taken kindly to it. Their size and docility commend them to every man who is any judge of stock. Farmers, without exception, like that which has size. There is something tangible in cows weighing from 1,200 lbs. up to 1,800, and even more, that will give a pail of good rich milk twice a day and produce a calf modelled after herself every year. There is something forthcoming in that kind of an animal; in other words, there is money in them. Without attempting to prove that they stand equal to the special beef breeds as beef producers, I do claim that on account of their size and the way they will take on flesh when dry they are of greater value for the butcher than any other dairy breed ; and, as they are surpassed by no other breed in general points of usefulness, I honestly think they are the most profitable for the general farmers of this country.

174

mixed with cut hay and straw fed dry, with a few roots and long hay, with an occasional bran mash should be the principal food during the winter. When the grass has become sufficiently long in spring it should supply the place of hay, as it will add greatly to the health and appetite of the animals. After the grass has become dry, green corn should, on account of its health and cheapness, constitute a valuable food during late summer and autumn. The principal grain food in the rearing of horses should be oats and wheat bran, as they contain as great a proportion of muscle-forming material as any grains, and from their nature are easily digested, not being so liable to clog in the stomach, and thus preventing the gastric' juice from passing freely through it and acting on every part at once. In a state of nature the horse is nourished upon the grasses, and it must have a proportion of its food (at least one-half in bulk) of a fibrous nature. These are the reasons why grain should not be fed alone, as the cut hay and straw are thoroughly mixed among it, and thus prevent clogging, and render the ration as near as possible the bulk and proportion of nature's allowance. The food should be given dry, in order to undergo thorough mastication before entering the stomach, experience having proved that animals fed constantly upon damp food frequently form

I will now endeavor to place before you some pof the reasons why this breed has become so

The Australian high-jumping horse record is now six feet six and one-half inches, Spondulix having jumped that height at the Royal Agricultural Show in Melbourne.



MAY, 1891

91

ost

ne

he

he

his

an

to

to

ey

he

he

ıg.

is

of

ost

ges

nd

ds

on

19

60

de

83

ged

ad

at

is,

ıal

ti-

in

he

ım

ter

ws.

ese

8.8

ng

iry

ein

rs ;

lls

is

de

8,8

on-

to

ous

ive

eir

in

of

cen

nd

ck.

18.8

re,

8

self

in

e is

070

eds

; of

her

are

s of

ost

ry.

ri-

ADVOCATE. FARMER'S THE

A Holstein-Friesian Herd Book for Canada.

At a meeting of Holstein-Friesian breeders held in Stratford, February 18th, 1891, the advisability of starting a Canadian Herd Book was fully discussed, and the meeting was almost unanimous in favor of establishing a Herd Book. At a subsequent meeting at Guelph, it was decided to establish it, and steps were taken to make all arrangements complete and put it on a firm and substantial basis.

Some of the reasons for establishing a Canadian Herd Book were that of paying exorbitant fees for registration to the Americans, with the prospect of paying still higher in the near future, and never receiving anything in return, except the certificates of registry and transfers.

In order that all Canadian breeders might join our Association the entrance fee was fixed at a low rate of \$5, and an annual fee of \$1 afterwards. Most of the largest, most successful and most influential breeders have already joined, and there are more than sixty names already on our books, and within a few months we expect to have the number reach up into the hundreds, so that there is no doubt it can be conducted successfully. As an Association we would, therefore, ask all persons interested in the success of this breed to join at once, and help us place these noble cattle in the front ranks. The Secretary is now ready to register, transfer, or reregister all animals. The cost of reregistering animals that have been registered in the American Herd Book is only twenty-five cents each, and in order to do so it is necessary to have the American certificate of registry sent to the Secretary, and then he will return with it the Canadian certificate of registry to the owner of the cattle.

RULES FOR MEMBERSHIP.

Any person of good character interested in the breeding of Holstein-Friesian cattle, and the owner of such, may apply for membership in this Associa-tion by filing an application in such form as the Executive Committee may prescribe with the Sec-retary, with the membership fee.

Every application for membership tee. Every application for membership shall be sub-mitted to the Executive Committee, and if in their judgment the applicant is eligible for membership, and ought to be admitted as a member of the Association, and a two-thirds majority vote of the Executive Commmittee present to that effect is passed, his name shall be entered on the records as members and the Societary shall issue a certificate member, and the Secretary shall issue a certificate of membership

rectors, McCaugherty, Breckon, Wm. Suhring and Wm. Shunk; Secretary-Treasurer. D. E. Smith; Auditors, W. B. Smith and Wm. Shunk. Fees-Charge for registration to members, 75c. for each animal. To non-members, \$1.50 for each ani-mal. Transfers, 50c. for each animal. Membership fee-\$5 for entrance, and \$1 each year after. Heregistration, that is all animals that have been registered in the American Herd Book, will receive a Canadian Certificate of Registry for 25c. each animal, and will be recorded in the Holstein-Friesian Herd Book of Canada. All communications should be addressed to D. E. SMITH,

D. E. SMITH,

Recording and Corresponding Sec'y., Churchville (Peel Co.), Ontario.

The General Purpose Cow. BY D. E. SMITH.

In your last issue appears a letter by Mr. S. Nicholson, who makes some remarks about Holstein cattle, that calls for correction. He begins by championing the rights of the "submerged farmer", as he calls him, but soon reveals the true object of his letter by the animus he displays in speaking of Holstein cattle. We believe the Shorthorns are a good breed of cattle, and have never had to build up a reputation for the Holsteins by either putting down other breeds or making false statements about them ; all we ask is fair play and an open field. Let us compare the sales of these breeds, and this may aid us to find where the shoe so severly pinches Mr. N. In the Dominion Shorthorn Breeders' report for 1890 we find 3,166 registrations, and 350 changes of ownership. In the American Holstein Breeders' report for 1890 we find 7,293 registrations, and 6,027 changes of ownership. Most Canadian cattle of these two breeds are registered in these herd books, and we make the comparison wishing your readers to consider that this is in favor of the Holstein, and make due allowance for it. The registrations were a little over two to one in favor of the Holstein, and the changes of ownership or sales over seventeen to one. Now, we claim that these sales of seventeen to one in favor of the Holsteins is the open sore that pains Mr. N. and inflames his mind. Mr. N. makes some pretty strong assertions, but is very eak in giving proofs, in fact his object seems

The Holstein calf, Ohio Champion, weighed 1,070 lbs. at a few days over 9 months; Spot weighed 1,450 lbs. at 221 months, and another heifer weighed 850 at 81 months of age. This was their weight at the Chicago Fat Stock Show. This means early maturity. Mr. Waddell, after thirty-five years experience with all breeds, said that the Ohio Champion was the best feeder he ever owned. Of the twenty-seven head slaughtered in 1888 at the Chicago Fat Stock Show only three had hindquarters heavier than the fore ones, and two of these were Holsteins, and only two Holsteins were slaughtered that year. Thus for beef they show quality, quantity, economy of feed, early maturity, and welldeveloped hindquarters.

175

They are good for milk, Mr. N. to the contrary notwithstanding. Holland, the home of the Holsteins, is the greatest dairy country in world for its size. In 1884 she sent 281 million dollars worth of dairy products to England, the home of the Shorthorns, thus sending there the most of any country in the world. Holland is only one-fourth the size of Ontario. In 1883 Holsteins laid the corner stone of their popularity in America, when Mercedes took the Breeders' Gazette challenge shield valued at \$500, open to all breeds and the world. In this public test the Holstein cow, Mercedes, made 99 lbs. 6½ oz. of butter in thirty days. Since that the wall has gone on beautifully. We will give your readers one layer of solid stone-1889. In 1889 Holsteins took the following butter prizes, open to all breeds :- Buffalo International, 1st and 2nd prizes ; Minnesota State Fair, 1st South Dakota Fair, 1st ; Chicago Fat Stock and Dairy Show, 1st and 2nd ; Mississippi, 1st ; Nebraska State Fair, 1st, 2nd and 3rd ; Detroit Exposition, 1st, 2nd and 3rd ; Michigan State Fair, 1st; Kansas State Fair, 1st; Ohio State Fair, 1st; Alabama State Fair, 1st; Georgia State Fair, 1st. We have decendants in our herd from the cows that took 1st in Buffalo International, Detroit Exposition, Ohio and Michigan State Fairs, and our own herd produced from 6,000 lbs. of milk (tow-year-olds) to 14,1841 lbs. of milk in ten months, and from 134 to 19 lbs of butter in a week. We weigh the milk of every cow and heifer in our herd, and know the amount given. Our two-year-olds give from 6,000 to 7,000 lbs. of milk in a year, three-year-olds from 7,000 to 9,000 lbs., and cows from 8,000 to 14,184[‡] lbs. in ten months. We might add that the greatest butter record yet made was by Pauline Paul, a Holstein cow, who made 1,153 lbs. $15\frac{3}{4}$ oz. of marketable butter in a year. Mr. N. next asserts : "The hand writing is already on the wall," It does not require much observation to see that the wish is father of the thought. Some such men as Mr. N. saw in 1872 the increasing popularity of the Holsteins, and raised the "hue and cry in order to crush out this breed. There were then only 128 registered Holsteins on the continent, but after eighteen years of crying there are 59,678. It doesn't look very much as if they had been weighed in the balance and found wanting. Go on scolding, gentlemen, but you will find it difficult to butt against the solid facts concerning this breed Then, to sum up, we would say that this breed are large cows, weighing from 1,200 to 1,600 lbs., have strong constitutions, good economical digestive systems, adapt themselves well to the varied climate of America, are a contented breed, are large milk and butter producers, have shown themselves good for beef, their calves mature early, and are thrifty and vigorous, so that taking all things into consideration they are the best general purpose cow yet known.

HERD BOOK.

Sec. 1—This Association shall publish the Hol-stein-Friesian Herd Book at intervals of not less than one year.

Sec. 2-Each volume of the H. F. Herd Book shall contain the Constitution and By-laws, and a list of members of the Association, and any other matters of general interest.

See. 4—Thoroughbred Holsein-Friesian shall be held to mean and refer only to those large, im-proved black and white cattle already registered in the Holstien Dutch-Friesian or Holstein-Fries-ian Herd Books, and such as are descended from them in direct line, both as to sire and dam and such ported animals as are registered in the Netherland, Friesian, or North Holland Herd Books.

Sec. 5—American bred animals shall only be registered in the Herd Book upon application made upon or following the form furnished by the Associa-tion and the payment of a fee of 75 cents by members of the Association and \$1.50 by persons not members for the association and state animal which members, for the registry of each animal, which must accompany the application.

Sec. 8-Animals imported from the United States shall be charged \$5 each for females and \$15 for males, and be subject to inspection by the inspector.

Sec. 10—A register or transfer of ownership of any animal registered in the Herd Book will be made on application of the owner and payment of 50 cents. A certificate of such transfer shall be made by the Secretary and sent to the owner of the animal animal.

Sec. 11-No application for registry or transfer will receive attention unless accompanied with the required fee.

All animals born after January 1st, 1890, are now eligible for registration and will be until July 1st, 1891, and will be charged the regular fee for under one year old. After that those over twelve months old will be charged according as the constitution directs. directs.

Officers for the current year: -A. C. Hallman, President; H. Bollert, 1st Vice-President; R. S. Stevenson, 2nd Vice-President; M. Felan, 3rd Vice-President; A. Kennedy, 4th Vice-President; Di-

to have been to tar the Holsteins with false assertions and insinuations.

The first objection he raises is that they are no good for beef, and then his wisdom tells us how he finds it out: 1. they were not at our fat stock shows. 2. "I have lately been in three or four barnyards where for two or three years Holstein bulls have been used." We do not think your many intelligent readers will condemn a breed on such meagre evidence. Yet on these he condemns the breed. For sake of argument we will discuss the question. In 1887 the Holstein cow Zaneta (8355 H. H. B.) took first prize in the New York State Fair, as the best fat cow over three years of age, large competition and open to all breeds. At the Michigan Agricultural College steers of the different breeds were fed, to find out which was the most profitable, and in their bulletin we find that the Holstein steer required 7.17 lbs. of grain and hay to gain a pound, whereas the Shorthorns required 10.15 lbs. of same feed to gain a pound. This simply proves that in an actual test by unprejudiced persons the Holstein gained 100 pounds on 717 lbs. of grain and hay, and the Shorthorn required 1,015, that is, the Holstein saved 298 lbs. of food in gaining 100 lbs. This test also showed that of all the breeds the

ADVOCATE. FARMER'S THE

MAY, 1891

The Binscarth Sale.

As per advertisement in the ADVOCATE, the entire stock of this farm will be offered at auction about the middle of June. This is without doubt much the largest offering of pure-bred stock ever made in Manitoba or the Northwest. As readers of the ADVOCATE are aware the stock is of good quality, and always in healthy and thrifty condition. While the dispersion of this herd is a matter for regret, it is an ill blast indeed that blows nobody good, and from this dispersion will come the reinforcement of many existing herds, and foundations for more. It is decidedly in the interests of the country to have nearly a hundred head of high class Shorthorns offered unreservedly, and it would be a great mistake to offer them in any other way. To those contemplating investing in pure-bred cattle in the near future this offering is a golden opportunity, as the stock will prove precisely as represented, and the management has purchased and bred only good stock. While the Shorthorns will prove the leading feature of the sale, a small flock of Shropshires will be sold, and several good horses, also implements, etc., etc.

Cross-Bred Cattle.

The statement that grade cattle are more profitable than pure-bred stock, is periodically thrust upon the public by ignorant or prejudiced persons, but does not receive the sanction of practical everyday breeders and feeders. Graded up cattle are usually superior to the inferior side of the parentage, but inferior to the superior side. There are instances in which a cross of two pure-breds has produced an animal of superior merit to the average of either of the parent breeds, but only superior to the average of the breeds, not of individuals. Some animals have greater prepotency than others, usually from a long line of breeding to a distinct type. but sometimes from greater vigor of constitution and higher development. If for the sake of argument, however, we grant cross-bred animals to be the best, it does not follow that crossbreeding is advisable in Manitoba or the Territories, as we require all pure-bred cattle as breeding stock, and the most ignorant do not for a moment claim that cross-bred cattle are superior or equal to those of pure breeding. The points of merit in our pure-bred stock have been fixed by breeding for those especial points, and the veriest novice will at once recognize the folly of mating two animals each with a firmly fixed character, and thus bringing their superior points in direct antagonism. Even the "Blue Greys," so successfully shown in English and Scotch shows, and universally admitted to be the most successful cross made of two beefing breeds, have not in any way been as great a success as either of the two breeds that produced them. Mr. Keough, a successful Galloway breeder, of Owen Sound, Ont., recently made several experiments to prove the prepotency of the Galloway cattle, but did not claim for a moment that he had produced better animals than the Galloway parent. It does not follow by any means that every farmer should rush into breeding pure-bred stock. He should simply make the best of his circumstances, but the idea that better returns can be had by crossing two pure-breds, or from grades of any breed than from pure-bred stock of that breed is absurd, and only adhered to by those unacquainted with the principles of stock breeding.

Test the Cows.

The farmers of Manitoba are too intelligent to deny the advisability of testing the cows, and raising heifers only from the best. Where a large herd of cows is kept, testing all of them under the old system entails a large amount of work. It is a simple matter, however, with the aid of the lactoscope. Milk the cow, and stir the milk thoroughly, so that the sample selected may be truly representative of the entire milking. Then with the lactoscope ascertain the percentage of butter fat in the milk. Keep a record of the number of pounds of milk during the week, and the average per cent. of butter fat; subtract from the per cent. of fat one-half of one per cent., because it is impossible to cream sufficiently exhaustive to take out all the fat, and it is good work when there is not more than that amount left in the milk. Add to this product one-fifth of twenty per cent., as even good butter will be found to contain that much water and caseous matter. To make the matter perfectly plain we will assume that the cow gives 30 lbs. of milk per day, or 210 lbs. per week, with an average of 4 per cent. butter fat. Deduct one-half of one per cent. for the amount that must of necessity be left in the milk and we have $3\frac{1}{2}$ per cent. of available fat in the milk. Two hundred and ten pounds multiplied by $3\frac{1}{2}$ is equal to 7.35; add to this one-fifth of that, 1.47, for caseous matter, salt, etc., and we have 8.82 lbs., or 8 lbs. 13 oz. and about 2 drams. This will be found a convenient and fairly accurate method of testing cows, and all that is necessary is to test the milk every day and weigh the milk as taken from the cow-no setting and churning sepa-rately for a week required and the results will be much more accurate than those usually obtained from home tests. It must not be inferred, however, that it is not possible to make the churn test as accurate as the lactoscope test, but that it is not in the majority of cases.

The Paris District Breeders' Association.

The above Association has adopted what is a novel system to the horse breeders of the Dominion, but which is very similar to the plan in use in the best breeding districts of England We understand that the Associa and Scotland. tion are indebted to Mr. Arch. Wilson, Paris, for formulating the rules whereby they intend to carry on their operations. Mr. Wilson is well known as a prominent buyer of first-class horses, having pursued the trade in exporting to England high class light harness, saddle horses, and hunters suitable for the English trade, for many years. He has always been considered an authority on horse breeding in all its departments, and he states that the worst drawbacks to the trade is the difficulty in finding suitable horses ; and further adds that this is not caused so much by the lack of suitable brood mares as the difficulty in obtaining the proper stallions to mate with these. With a view to improving on the present system of obtaining the services of the necessary stallions, he prevailed upon a number of prominent horse breeders to form themselves into an Association whereby the best stallions of each breed could be obtained for the season of 1891. They have now got the scheme into proper working shape, with the promise of great success. It would be well that other parts of the country would watch the working of this of the country would watch the working of this Association through the season, as it appears that by the old haphazard system so long in use, if a good horse is brought into any locality he is often taken away for want of proper patronage, and that it is only by combined efforts of those

interested the services of the best class can be obtained. At the present time, while ordinary horses are hardly saleable, all classes of good horses are bringing good prices. During the stallion show at Toronto draught geldings were being purchased for export to Glasgow, and as high as \$275 was paid. First-class carriage horses were never dearer, and there is likely to be a demand at the best prices for years. Owners of high class stallions have been complaining that through the number of cheap horses holding at low fees it is difficult to secure a living patron-Joining together, as here stated, will age. soon drive the scrub horse to the wall.

The Paris Association has secured two of the best horses for the coming season, viz., Wild Harry, sweepstakes coach horse at last Industrial and winner of both first prizes, being first offered by the Provincial Spring Stallion Show, the other the \$30 offered by the Canadian Coach Horse Society at the same show. The draught horse selected is the beautiful two-year-old Crosby Chief, winner of fourth prize in imported Clydesdale class

We append the rules which are given on the back of entry form of the Paris District Association :---

MEMBERSHIP RULES.

MEMBERSHIP RULES. 1. Persons desirous of becoming annual members of the society must pay an entrance fee of 50 cents, and will be supplied with a form on which they will state the number of mares they intend to breed and what horse they intend using; or, if both, state how many for each horse, then sign the form. 2. Members will be held responsible for all mares bred to the Society's horses not in their possession at the time of collecting fees, unless they can give sufficient evidence that they are not in foal. 3. All members who enter their names on the Society's books will be held responsible for their guarantee, unless in the case of death or disable-ment, when notice must be given to the Secretary two weeks before the time of collecting fees. The owner of the horse to collect all demands unless otherwise ordered by the Secretary. 5. That the Society give a guarantee of not less than eighty, and not to exceed one hundred, mares, for insurance for each horse on terms not to exceed fifteen dollars, and that a meeting of members of the Society beld on the 27th February to sum up the entries and appoint three of their number as a deputation to attend the stallion show at Toronto, or elsewhere, for the purpose of selecting their stallions. 6. It will be the duty of the deputation to select two horses of superior quality and breeding. 1. Persons desirous of becoming annual members

stallions. 6. It will be the duty of the deputation to select two horses of superior quality and breeding, registered in their respective stud books, and to receive a certificate to that effect signed by the owners of the horses.

STALLION RULES.

1. That the horse "[]" "()" has been selected by the South Dumfries and Paris District Horse Breeders' Association, and to be wholly under their control for the season 1891.

under their control for the season 1891. 2. That this horse be at the service of the Society not later than the 17th of April till the 17th of July, or till such time as he has duly fulfilled his contract

n the Society. That this horse travel on the route laid out by the directors, and be within reach of all the members

at least once a week. 4. That the groom be supplied with a list of members and all the necessary information as to his route, and the meeting of members outside his

5. That the owner of the horse pay all travelling expenses, and, when the horse has secured a regular night stand with any member of the Society, one nare to be served free, which will be included in

the guarantee. So have power to withhold any part of the frees for any default of the groom in charge, who must act according to the orders of the

If this horse becomes disabled through any un-cessary cause or mismanagement of the groom merit or forfeit any terms that he may have served

for. 8. The groom must not on any account accept mares from non-members without the permission of the Board of Directors, as the horse is strictly held for the use of the Society.

In a case of extra demand for the horse it must arranged to serve one mare for each member, d extra mares according to the number of brood

10. That the owner of the horse collect all fees due to him on the date he may specify, but he must at least give two weeks notice; and the directors do not hold themselves responsible for any outstand-ing fore II. Should the owner of the horse make any in-

be ry od he

re

as

ge to

ers

ng

ng

nill

he

ld

ed he

ht

ed

THE FARMER'S ADVOCATE.

Leicester Sheep.

The British Islands, that have given to the present civilized world so many different breeds of meat producing animals, have through centuries past developed the different races suited to the localities in which they were bred. Before the era of quicker locomotion very few men ever left home for a day and a night, and when we remember that it was not until the middle of last century that road-making was first enquired into, and not much more over a century ago that the first turnpike roads were built in England and Scotland, and the first decade of the present century was past before the coaching system of travelling was inaugurated, therefore the introduction of any new breed of farm animals must of necessity have been slow. At that time there was very little interchange of thought or knowledge of what was going on in the world beyond a certain district. It is, therefore, not surprising that an animal such as the sheep, that is comparatively difficult to transport for any distance, should partake of the character suitable to the soil and surroundings of the country in which they have been bred for so many generations. To Bakewell the flockmasters of the British breeds are indebted, not only to the improvement that has been made on Leicesters, but in the system of ram letting, which has become general in all breeds of British sheep. The marked advantage a master breeder such as Bakewell gained through letting instead of selling, after he had established his own flock, is easily seen, for by this means a ram that turned out a superior breeder was not lost to the flock in which he was produced, his breeder having control of him, and thus obtaining his services when afterwards required. The difficulty which this plan first met is illustrated in the fact that the first Dishley ram was let in 1760 for sixteen shillings for the season, while thirty years later three hundred guineas were received for one ram, and six thousand two hundred guineas for the ram lettings of that year.

The improvement which has been made upon

general, the whole produce of these ewes is retained upon the farm on which they are bred, a proportion of the ewe lambs when gimmers (or shearlings as we call them in Canada) coming in to take the place of the old ewes sold each year, the wether lambs again are disposed of as fat, many of them immediately after being shorn the first time, and the remainder after being fed on turnips, in the winter or spring of the second year. Not unfrequently, however, upon farms where not as large proportion of turnips can be raised, the whole of the wether lambs, and sometimes part of the ewe lambs, are disposed of at weaning time, and those ewe lambs kept beyond the number required to maintain the complement of the year, are sold when shearlings, generally at about eighteen months old."

The system here detailed prevails with little difference throughout the midland districts of England, modified, of course, by the fact as to whether pasture or arable land is most abundant on a particular farm. The fault that has been found with the English Leicester is that they are not as prolific as some of the other improved breeds, this quality no doubt being overlooked by Bakewell and his followers of that date. From this or other faults they have not been as freely imported of late, while an offshoot known as the Border Leicester is now being more frequently met in Canada, and it is with this kind we are best acquainted. It is claimed that the Border Leicester orginated with a cross of the English Bakewell or Dishley sheep, with the Cheviot, and from the appearance and character of these sheep, it is quite probable that such is the case. Others claim that Lincoln blood was infused. However that may be, the Border Leicester is now a distinct sort, having special characteristics of its own, and has been growing much in favor in Canada, and certain votaries of this sort can claim that this breed do not degenerate after a sojourn on this side of the Atlantic. We question if any sort of improved farm stock can stand up with and keep their place any better than this breed of sheep without having recourse to frequent importation of fresh blood. The special points of the breed are : Head well set on, long; broad between eyes, but not up on the crown; not too heavy behind the ears; muzzle open and black; hair on face and legs white and hard, but not so wiry as in the Cheviot, extending well back behind the ears ; ears not too large nor drooping; white inside and out; black spots appear sometimes with age; the belly comparatively light, said to carry little offal, giving a leggy appearance when without wool ; the wool soft and long, and in little locks; not too open coated. In Canada they have been bred in moderately small flocks, and by the most careful and intelligent class of breeders, and in their hands they have been brought to such perfection that for many years it would be extremely difficult for imported Border Leicesters to obtain a prize at any of our leading shows, when the best Ontario flocks were properly represented. This is partly to be accounted for by the high condition that they are brought out in, and the great care displayed in fitting them for show. Border Leicester rams are used for crossing for getting lambs for the summer trade, there being a great demand for lambs at this time of the year for the eastern markets. This cross also greatly improves the feeding qualities of the ordinary flocks, and is

The Yorkshire Longwool, that were at one time the most extensively imported and bred, are to be found in different sections of the country; and although they were crossed with both Lincolns and Cotswolds by a good many Canadian breeders, in order to obtain a heavier fleece, still they are to be found of much the same character that they were twenty-five years ago. Several small but select flocks of them are to be found in the county of Kent, where they have been bred for twenty-five years without having any new infusion of foreign blood, and they still retain plenty of size and vigor.

177

Fodder Corn.

At the Experimental Farm at Brandon last year, one plant of corn attained a stalk growth of eighty-four feet, and the yield of fodder ranged from twelve to forty tons per acre. --[Portage Review.

This eighty-four feet of stalk growth attained by one hill of corn of seven stalks, averaging twelve feet in length, has been referred to in many places, and by many people, during the past winter, and is likely, in connection with other references made to the enormous growth of corn at the Experimental Farm, to prove misleading. Gov. Hoard, of Wisconsin, is proverbial for his timely stories, and one of them told in this connection is decidedly appropriate. A man at the dairy meeting where the Governor was presiding insisted that this large corn must be profitable to grow, because it produced so many tons of feed per acre. The Governor in his own quaint way remarked : "My dear fellow, if you ever have the good luck to get up to the pearly gates, seeking admission, St. Peter will not ask you how much you weigh the question will be, what are you good for.' This is a question we should ask ourselves in considering the advisability of sowing or planting fodder corn. There are a few, and only a few varieties of corn of the many grown at the Experimental Farm last season that will mature sufficiently to make good food. This forty tons per acre corn is, if fed green, as the best farmers in the east have testified, but an expensive method of watering the cattle. If cured and thoroughly dried, there is not as much nutriment in it as a crop of some smaller variety that would reach a more advanced stage in the time of growth we enjoy here. Professor Roberts, of the Cornell University, Ithica, N.Y., says: "Grow the largest variety of corn that will reach the glazed stage in your own locality." In the Southern States the Mammoth Southern Sweet may be the best variety, while in the Northern States and Canada it is comparatively useless. There is no sense in planting a corn here that will not mature sufficiently in Ontario to make good ensilage, which is the case with all the larger varieties. A good heavy crop of oats cut when the grain is in the milk will afford much more food than a crop of this B. & W. or Mammoth Sweet Corn. It is very well to look at a field of this corn ten feet high and say it is a great crop, but when you come to ensile it, or feed it as a soiling crop, you wonder why the stock does not do better. Plant the smaller varieties such as "Squaw Corn" and other native varieties. Sow oats, or oats and peas-in fact, any of the cereals that will ripen or come near to it; but don't plant this eighty four-feetto-the-hill and forty-tons-per-acre corn.

the Leicesters very soon had an effect on the other breeds, and doubtless several of the other sorts have been improved by an admixture of this breeding.

Although the old Dishley Leicester was first to feel the improvement that had gone through all lines of farm yard stock, breeders of late have not been breeding them after their former character, and have branched off on other lines perhaps more suitable for the requirements of the present age. The improved Leicester still occupies a large extent of the most fertile districts of England, and it is also bred in Scotland with equal care and success. It is, of course, in both countries principally confined to the Lowlands or land of pretty good quality. The following account of the modes of management in Roxburghshire on the Teviot and Tweed, may be taken as a fair sample of the system adopted in the several districts in either country, and a good sample, as regards long-woolled sheep in less improved localities :--

"On nearly all farms of any considerable extent what is called a breeding stock of these sheep is kept, and the system pursued is generally the following: From the ewes three successive crops of lambs are taken, the dams being sold off at the close of their third breeding season, or when four and a-half years old. In

Want of success in farming generally comes through careless treatment of live stock. Neglect of stock and neglect to shun partizanship in politics have ruined thousands of farmers.

THE FARMER'S ADVOCATE.

How Shorthorns Were Mated. BY WILLIAM LINTON.

[Read before the Shorthorn Breeders' Association.]

It is said that the elder Maynard, of Eryholme, the father of Messrs. J. C. and A. L. Maynard, with the Collings, and a few cotemporary breeders, gathered together the materials of a superior breed found at their doors. and combined them with a definite object of improvement. Before their time Shorthorns as a distinct breed could scarcely be said to exist. That colors and markings indicated, to say the least, great breadth of taste and freedom of practice we learn conclusively both from general descriptions of the breed and from the notes preserved of the peculiarities of single animals. For instance, Jacob Smith's bull (608) was yellow-red, with white face, white back, and white legs to the knees. Dalton Duke (188) was brindled, indicating black blood ; Mr. Hill's red bull (31C), by Dalton Duke's brother, was the sire of Mr. Richard Barker's bull (52) which had a black nose ; Mr. Richard Barker's bull was the sire of Mr. Charles Colling's dark-faced Foljambe (263), the sire of both parents of Favorite (252). Favorite himself had dark bronze horns. Thus we learn what all our Shorthorns of the present day trace to, for it is admitted by all that there are no Shorthorns living that do not, trace to Favorite (252), and yet there are a number of breeders of Shorthorns at the present day who pretend to despise Favorite and the blood coming through him. Mr. Warfield says it is a mighty fine thing to trace to the favorite cow of a Col. ling, a Booth, or a Townley, but it is a very hollow mockery if the line runs through a slabsided, raw-boned, hollow-chested dam and granddam. I would rather have a little more personal merit and a little less tradition in my family. Give me a calf with the six animals of the two preceding generations all of high class, and I will take her before I would one with a mean dam and grand-dam and fourteen crosses of Favorite in her pedigree. The early breeders seem to have had no fear of any disease in any shape what ever, for they interbred their cattle generation after generation, and much the same practice is carried on yet in line breeding. Is there any wonder that tuberculosis is becoming prevalent in many herds. Would that our breeders of the present day had the genius and knowledge of a Colling, a Booth, or a Bates-a perfect knowledge of how to breed the sires and dams without a loss to the vital forces and harmony of the outward features. Mr. Hedley, an authority on Shorthorns, has told us with regard to the elder Mr. Booth and Mr. Bates' herds, that the success of those two splendid herds may be attributed to three causes : 1st. the wonderful pow ers for recognizing strength and beauty in animal structures, possessed by the owners; 2nd. The long time these powers were exercised on two herds, and in one direction ; and 3rd. Close crossing, which, as far as we can gather, was practiced upon both. To stamp a type, nothing is so potential as a consanguineous cross. It cannot be neutralized or eliminated in a short time, and Messrs. Booth and Bates were the kind of men who knew when to do it, namely, at the period when their herds had attained that perfection of form and vigor of constitution desired. If all the branches of those two noble families of will occasionally produce animals which are not cattle had sprung from two or three roots, distinctive peculiarities of strength and Leanty He will have to feed her three years before he

could not have been long sustained, for although they now come under the designation of two great names, they are derived from various sources, all drawn in and wisely engrafted by the powers that then presided. Nothing is so fatal to a herd as a succession of very close crossing. Nothing is so difficult to manage as wide cross. ing. Strong males have an affinity for weak females, and vice versa. When the animals are running at large the strong males kill the weak ones off, and thus through all time preserve the vigor of the race. In like manner Messrs. Booth and Bates did for a short time for Shorthorns. They studied nature, and as it were adopted one of her laws. These men produced strength and symmetry in their cattle, because they had the organs of individuality, form, and color well developed in their heads. They also had love of animals in their hearts, and many of the faculties which actuated a Potter or a Landseer to place those subjects on canvas. What Sir Edwin did by his brush, Messrs. Booth and Bates did through the living agencies of the animals themselves. Given a beautiful horse or cow, Sir Edwin could place it on canvas in form and color as he saw it. Given a selection of males and females, Messrs. Booth and Bates could put them together so as to produce similar or improved forms in the progeny. This is the faculty required in a first-class breeder of Shorthorns, and, therefore, I cannot too strongly impress upon you the danger of practicing such a difficult art without being possessed of some of the special qualifications for it.

Are the Holstein-Friesians a General **Purpose Breed**?

BY H. BOLLERT.

This question can be best decided by investigating the desirable points in the make-up of a general purpose animal, and the desirability of such an animal for the general farmer and dairyman. The desirable points are : That she be an early maturer, of good size, that she converts her food to the best advantage for the production of milk and butter and when has the capacity of producing beef at a profit. I hold that the breed which combines these points to the highest degree is the most desirable for the general farmer. For illustration take the horse, one of our most useful animals. The thoroughbred and trotter are special purpose animals, they have their desirable points, and have their sphere to fill (which, by the way, is a limited one), but to the great mass of men who require horses for general work they are utterly useless. The draught horse, also a special purpose animal, is of more usefulness, but still is not what is most desirable for the general farmer. The horse which best fills the bill is the one which is heavy enough to draw the cultivator and the plough, and yet is active enough while taking his owner to town, to go from six to seven miles an hour-in other words, the general purpose horse. The same with the cow. The cow which to the highest degree combines the qualities of producing milk, butter and beef is the most profitable. The breeding of superior dairy stock is much more difficult than the breed ing of beef cattle; no matter how skilful a breeder is, and how well he has laid his plans and selected his foundation stock, he will yet find that he up to the standard as profitable dairy cows.

failure for the dairy and is of good size and frame, so that he can profitably feed her for beef, she must be certainly of more profit to him than if she were only a small size and frame, or a special purpose animal which he would have to give away almost for nothing. While the careful breeder experiences these failures, how much oftener must they occur to the less careful breeder, and how much more necessary will he find it to weed out these unprofitable misses. It is through this rigid weeding out system that the careful Hollander has produced the greatest of all dairy and general purpose breeds-the Holstein-Friesian. Yes, the Holstein-Friesian is truly a general purpose cow. She is also a special purpose cow; for as a profitable milk producer she stands unrivalled and alone, and for the dairymen who sell their milk in cities or deliver it to cheese factories, she is simply unequalled. A large book could be filled with records from individual cows and entire herds, ranging from 12,000 to 30,000 lbs. of milk in a year. These figures must seem incredulous to the dairyman who keeps the ordinary cow, which only yields from 3,000 to 4,000 lbs. per year, but they are, nevertheless, true and undeniable facts. Again, for the butter-maker she is a special purpose cow, for the better strains of Holsteins have no superiors, if equals, as butter producers of the finest quality and texture. There are as many, if not more, cows of this breed in America that have made 20 lbs. or more per week than all other breeds taken together. They are the champions of the world, holding the greatest 30, 60 and 90 days, also the greatest yearly records. The great Paulena Paul with her 963 lbs. 15³/₁ oz. in nine months surpasses the greatest yearly record ever made by any cow of any breed by over 18 lbs. As a beef producer of fine quality the Holstein stands well to the front; her large size and early maturing quality adapts her well for the profitable production of beef. Proof of this comes from all over America, wherever they have been Only the other day I was in my neigh bor's barn-he is feeding some grade Holstein and grade Shorthorn steers ; they were raised together, were of the same age, and had the same care and food to the present day. While there a drover came along and tried to purchase the sattle. He offered \$5 more per head for the Holsteins than the Shorthorns. They were weighed the following day and the Helstein outweighed the Shorthorn by 100 lbs. This same drover secured a three year old grade Holstein heifer to feed for the English market. He thinks she will exceed 1,800 lbs., and believes her the best heifer he ever fed. From California we hear that Senator L. Stanford, the great trotting horse breeder, fattened some Holstein steers for the Christmas market. Experts who viewed the animals declared that no such beef cattle were ever seen in that section. They were as fat as they could roll and dressed from 1,200 to 1,500 lbs. As to the quality of Holstein beef a fine test is reported from across the line from the State of Michigan, and from no less a judge than Wm. J. Chittenden, of the Russell House, Detroit. Writing a few weeks ago to Mr. Davenport he gave his opinion on the beef from the Michigan College as follows, the test having been independently made by his partner, Mr. McCreary, by the steward, and by himself : "We made a thorough test of the qualities of

definitely knows what she is. If she proves a

res a

and

for

rofit

and

he

ing.

hese

r to

nore

pro-

ling

pro-

eral

the

ow.

pro-

and

nilk

le is

lled

tire

nilk

lous

ow,

per

un

she

s of

tter

are.

this

or

to-

rld.

the

ena

ine

ver

lbs.

tein

and

the

mes

een

tein

sed

the

hile

8.80

the

rere

tein

his

Iol-

He

ves

nia

eat

ein

vho

uch

hey

om

Iol-

the

less

sell

to

beef

test

ıer,

elf:

the beef sent us by Mr. Dixon, with the following results :--Devon, first, and by all odds the best flavor; Galloway, Holstein, Hereford and Shorthorn in the order I have written. I will add that all were splendid samples of beef; I have never seen better. The steaks were all numbered and we each noted our own opinions and all agreed." From the foregoing testimony you will see that the Holstein Friesian combines the quality of profitably producing milk, butter and beef to a greater extent than any other breed known, and is, therefore, a general purpose breed, and the most desirable breed for the general farmer and dairyman.

THE

A Word with Mr. Nicholson.

EDITOR FARMER'S ADVOCATE, -- In your April issue Mr. Stephen Nicholson, the well known Shorthorn breeder, in discussing "The General Purpose Cow," says :--

"At the Dominion Holstein meeting last winter Mr. Thompson, of the London Advertiser, told them (Holstein breeders) that if they wanted to make the breed popular they *must* boom it as a general purpose breed," etc.

Evidently friend Nicholson has misinterpreted the address which, on invitation of the Holstein-Friesian breeders, I gave at their meeting, or his memory is at fault, assuming that he read it. Had he attributed to me the words "must breed," it would have been nearer the mark, but I certainly did not counsel "booming." Farmers and townsmen have suffered severely from "booms," as many an investor knows to his sorrow, who in days of inflation and fictitious values parted company with his money. Furthermore, I did not proffer unasked - for suggestions as to their methods of selling cattle. I spoke to them as breeders endeavoring, as far as I understood it, to discuss the present condition with past and present tendencies of dairying in our country, and the relation of breeding thereto. Having special regard to the large areas of Ontario in which summer cheese dairying is carried on, together with what seemed to me the prospects for beef production, it appeared, without regard to breeds, that the needed cow of the hour in such districts was one that would (1st) convert her food economically into a generous flow of milk; 2nd, when the cheese factory was not running be good for at least four months profitable service in butter making; 3rd, produce male calves that could be fattened with profit. In view of the development of our beef trade, I could not in fairness, ignore that consideration, and simply asked the question if the production of such cows was a problem beyond their skill as breeders. That opinions differed was evident, for one breeder remarked that in his view steers were out of -place on a dairy farm. I referred also to city and town milkmen, and those whose specialty is butter-making pure and simple, all indicating markets more or less important for dairy stock, leaving it to their intelligence to judge along which line they should specially breed. But I did not suggest nor recommend the substitution for proper and well defined methods, the fictitious uncertainties of mere "boom". In concluding the above quoted sentence, Mr. Nicholson makes the singular statement :-"So that now it is not only the best dairy breed, but the best beefing breed as well." This credits the Holstein breeders with the absurdity of claiming that the beef and milk producing functions had been abnormally developed in the same cattle at the same time, all of which, with other allegations, are referred to their tender mercies, WM. THOMPSON.

Individuality.

FARMER'S

ADVOCATE.

BY WM. THOMSON.

[Papers read before the Holstein-Friesian meeting held at Stratford.]

Like produces like is the foundation principle upon which the breeder must build. With the genesis of life went forth the Great Law Giver's command, "Let the earth bring forth the living creature after his kind, cattle and creeping thing and beasts of the earth after his kind ; and it was so." That is the Biblical record of the origin of heredity. "Like begets like" is a remarkable law, but it has limitations which check the ambitious efforts of man. The record given in Genesis of the very successful cattle breeding experience of that crafty herdsman, Jacob, who secured for himself such liberal wages in ring-straked, speckled and spotted cattle of good, vigorous constitution, indicates that in some respects, with all our boasted knowledge and progress, we are not able to show any great advance of patriarchial methods. Holstein-Friesian cattle breeders want to invoke spiritual backing, that record is testimony to the antiquity of spotted cattle, though I do not vouch that they were black and white. Heredity is not like an axiom in geometry-invariably and absolutely certain. The breeder experiences this: he finds his efforts thwarted by that mysterious law of reversion or atavism whereby characteristics of ancestors, more or less remote, reappear in individual animals. But the great contrary force against which the breeder has to contend is variation from a particular type as a result of environment, food, treatment, or certain influences arising in the ancestral breeding of a given animal. The natural tendency is to degeneration and disorder. Left to itself the fairest garden becomes a tangled mass of weeds and sickly bloom. The controlling intelligence of man must rule. Herein is an answer to those who protest that the extra care and comfort nowadays proposed for dairy cows tends to make them "artificial" creatures. Well, is not the dairy cow as we know her now at best largely an artificial, highly developed creation of man? How will the breeder overcome these obstacles? By selection. Selection means choice, and there can be no intelligent choice without a study of individuality in order that such breeding animals be chosen as show the characteristics which the breeder wishes to perpetuate. In this step towards success nature aids the breeder by means of prepotency, that wonderful power which is defined by Warfield as "The superior influence of one parent over the other in determining the character of the offspring." The study of indi-viduality lies, therefore, at the basis of intelli-gent selection, in which work the breeder calls to his aid pedigree, simply as a guarantee that the the animal through his ancestry represents certain tendencies which are to be reproduced in order to the subsequent production, say of milk, or beefor both. The founders of "advanced registry" fully recognise the importance of this matter. It follows, therefore, that in the permanent interest of this or any other breed the knife of the veter inary or the butcher should be more unsparingly used. Weakly, ill-formed sires beget those characteristics though the pedigree might run back to the spotted herd of Jacob. The sale of such breeding stock is certain to injure the future fortunes of any breed. Pure-bred scrubs should be mercilessly weeded out. Be not tempted to sell them. To do so is damaging to a breeders's reputation, to the breed he handles, and an injury to the agricultural community. The study of individuality is also important in mating animals to produce a given type, and in governing the time when young animals, especially heifers, are to be bred. Breeding animals too far short of maturity is fraught with danger. Maternity is a severe_tax upon the vitality and | disappointment.

development of the female. Too early breeding tends to produce improperly developed frame, udders and teats, loss of vitality and a weakened constitution with pre-disposition to tuberculosis. Constitution gone, and I think you will agree, the fabric collapses both for breeding purposes and for the practical dairyman, whose only measure of a cow's value is utility. Gain may tempt a breeder to make haste in the production of calves, but I warn him of danger ahead, which will increase with each succeeding generation so bred. It is claimed that early breeding fixes the milking habit as against the beef tendency. What becomes then, I ask, of the boasted prepotency and characteristics of cattle bred specially along dairy lines for hundreds of years ? Is that so easily lost ? If so the breeder is of all men the victim of misplaced confidence. Individuality should be carefully studied in the handling of dairy cattle, as the nervous young things especially need kind treatmont in order to develop an even, placid disposition, so important in securing uniformily good performance; as the herdsman so the herd is. It is in milk and butter production that individuality shines out most conspicuously. Here every tub stands on its own bottom. Let no dairyman suppose that black and white spots necessarily guarantee him washtubfuls of milk per day, or a fawn colored Channel Islander a gallon of cream.

In a published record by Smith, Powell & Lamb, in 159 cows the range was from 10,000 to 26,000 pounds of milk in one year, and of the entire list only four pairs showed records alike. Weekly butter records in the same herd ranged from 10 to 30 pounds, and the amount of milk required to make one pound of butter from 12.27 to 24.98.

In the Jersey cattle milking trial at the British Dairy Show of 1890 thirteen cows competing, the yield of butter per day ran from $15\frac{3}{4}$ ounces to 2 pounds $3\frac{1}{2}$ ounces; the milk yield from 16.10 pounds per day to 43.14, and the number of pounds of milk required to make a pound of butter from 14.28 to 28.36.

a pound of butter from 14 28 to 28.36. Professor William Saunders, speaking before the Dominion Dairymen's Association last year said :-- "There is one point which has particularly impressed me as important, that is the strong individuality which we find in certain cows. There are, at the present time, two Jerseys milking. I suppose it would be difficult for a Jersey dvocate to believe that we have one Holstein that has produced a larger proportion of butterfat in her milk than one of the Jerseys. Again, one Jersey produces about 50 per cent. more butter-fat than her sister cow along side, one 6.05 butter-fat containing milk yield of the other producing 4.35. The Holstein, to which I refer, gives milk yielding 4.61, while another yields 3.76. The Ayrshires will run 3.58, 3.08, 3.83, 3.48 and 3.95, all coming under 4%, showing that as far as one can judge from a single analysis, these two cows of the Holstein breed, which I may say are from among the best butter strains known among the Holsteins, are producing on an average a larger percentage of butter fat than the Ayrshires, though not up to the average of the Jerseys. I mention these facts, not with a view of drawing any conclusions from them, but merely to impress upon your minds the importance of this particular point ; that you may have a dozen cows in your barn, five boarding at your expense and five yielding you a profit, which shows the importance of every farmer endeavoring to ascertain for himself what cows are doing best for him." From this it follows naturally that the dairy farmer, having individualized his herd by means of suitable tests, should discard the unprofitable cows, and fill their places with stock better suited to attain the end in view, at the same time taking good care of the residue and their progeny. Reams of testimony might be piled up in support of my contention, that individuality is the all important study of the present for the practical dairyman in the selection of cows of whatever breed, and in the case of the breeder whether of pure bloods or grades, individual excellence and vigor of constitution must go hand in hand with good pedigree, for without the former the latter will prove a delusion and a

179

THE FARMER'S ADVOCATE.

Contagious Abortion.

180

As regular as seasons come around, so do complaints of the inroads of that dire epidemic named as above, crop out from some district or country. With the number of experimental stations established in this and other countries one would think means could be found for mitigating the evil, or to some extent staying its terrible infectious character. Heretofore we have heard of no tangible benefit, nor has anything been advanced that would lead us to hope for a specific remedy. Veterinarians have not yet located the cause, they being fond of ascribing the difficulty to ergot, which we are inclined to think very seldom has anything to do with it. Abortion comes on at all seasons, often before ergot is developed, and it still is a question if sout on corn, oats, etc., has much effect on pregnant animals. One of the western experimental stations fed an incredibly large quantity of corn smut to a cow without having any effect, and on which she apparently thrived. If it is caused by an accumulation of ergot in the system, as some contend, the effect would show itself in other ways; cows are almost invariably perfectly healthy, outside this particular attack, and suffer no apparent inconvenience, seldom missing a meal. Ridiculous reasons are given, and equally ridiculous recipes prescribed, but all to no effect. Contagious abortion is a disease that stockmen dread worse than any other, and which, to all appearance, science is powerless to encounter. When it obtains a foothold there is no telling when it will quit; it leaves for a time, and as suddenly breaks out afresh and fills the proprietor and attendant alike with despair.

Many of the most advanced thinkers are of the opinion that it is caused by a bacillus or germ, and recommend injections per vagina, and thereby hope to grapple with it. However, there is room for much investigation. A case came under our own observation which has led us to believe that it is often contracted at the time of copulation. A two-year-old bull was purchased for temporary use in a herd. Part of this herd were dispersed at public sale about five weeks after the bull arrived. Although these cattle went hundreds of miles apart, and many only served a few days previous to the sale, yet wherever they went the worst type of contagious abortion followed them. And still more singular the bull was sold a few months after, before the difficulty was known, and yet proved perfectly satisfactory, and bred well until he was nine years old. One who signs himself Sufferer in the London Live Stock Journal thus describes his experience :-

of anticasting drenches, which many people say they have used successfully. I have also used an American remedy which a friend sent me with the assurance that it never failed. I have bled, I have isolated them, as much as possible, I have now a goat amongst them, I have put some of them upon poor sheep land upon my farm where I have not formerly kept cattle, and used every precaution, but all in vain. My farm is a large one, with three sets of buildings, at which different men attend, but all the same, whether in summer at grass or in winter at one place eating straw and roots, and at others hay, etc., the scourge still goes on. Every theory have heard my own experience will controvert. One says change the bulls, and yet over forty cows belonging to neighbors sent to mine have each carried their calves full time. Another says they catch it from each other, and yet those I put upon fresh and poor land last summer are as bad as any. These latter were a lot that had aborted, and I wished to try to breed a second time. Many of them were in a stinking condition when turned there, and yet two neighbors cows adjoining and daily smelling them through the fence did not abort. Again, I put my two-year-old heifers into an orchard quite removed from the other cows, and kept them there with a goat the whole summer after service, but of no avail. No ergot has ever been seen upon my farm that I am aware of, though I am told modern scientific opinion is against the old notion that ergot causes abortion. I have no theory now of my own of the cause, and my unfortunate experience will upset all I have ever heard, but I do think it is not very creditable to modern science that a cause and a remedy cannot be found for a disease (if it is one) which I am convinced is doing far more mischief than is generally supposed. I trust some of your readers may be inclined to offer some remarks of their experience or knowledge which may at any rate throw more light upon the subject.

Second Prize Essay.

IS IT ADVANTAGEOUS FOR FARM MARES TO DROP THEIR FOALS IN THE LATE FALL OR EARLY WINTER FOR BEST RESULTS IN WORK AND FOALS DURING THE YEAR ?

BY D. F. WILSON, BRANDON, MAN.

In looking at the question it is necessary to see whether as good a foal can be raised at that time of the year as can be when dropped in the

again been steadily at work, it has been principally ploughing, the very best work she could be at under the circumstances, and not nearly so distressing to her as walking on the soft soil in the spring. With proper quarters there will be no more difficulty at foaling than at any other time of the year. Then follows four or five months of comparative rest, for though the mare may be required on the road marketing grain, etc., this task is neither so steady, nor is the day work generally so long as is the summer work on the farm, and, moreover, there is generally on the farm sufficient horse flesh to do this work without using the mares that have foals. If comfortably stabled in a box stall, the mare well fed on a ration sufficiently nitrogenous, with a few roots, and being turned out for a time every day the weather permits that the foal may get some exercise, there is nothing to prevent the young animal keeping in perfect health and growing right along. As the foal begins to eat, a little nice sweet hay should be kept within reach for it to nibble at, and by way of concentrated food, some chopped oats with a small quantity of oil cake mixed with it will be all the condition powder that it will require. It may be argued that the foal requires to be on the grass to have it do well, but this is a mistake, for up to the age of five or six months it requires but a small quantity of succulent food, and this can be supplied in the shape of a few roots cut. small and sprinkled with a little meal. Shortly before seeding the foal may be weaned, which, with proper food and attention, will not check its growth. The mare will then be in a fit condition for spring work, neither heavy in foal nor suckling her offspring. If the foal is kept in a growing condition till the pasture is good it will then look after itself, for it is by that time of an age when grass is its best possible food, and it will thrive and grow all summer, and in the fall will in all probability have caught up to those colts which had come six months earlier. This faster growth in the fall I would attribute to its getting on the grass almost as soon as it was of

MAY, 1891

"I am (or was) the owner of a large and valuable herd of pedigree cattle, which had taken many years and a large outlay of money to get together. Until nearly two years ago I had had no abortions. I then had two in calf cows from an adjoining farm where several cows had aborted their calves a few months previously. One of these did so after she came to me, and I am inclined to think this was the commencement of the trouble, though it is a singular fact that if, as some believe, that land must have been infected by those cows aborting, yet it then changed hands, and not one cow belonging to the fresh tenant has aborted.

"From that time until now I have had between sixty and ninety cows and heifers about (or as it is called here) "slip" their calves, notwithstanding that I have adopted various supposed remedies to prevent it. They have done sout various periods of pregnancy, ranging from fourand a half to eight months. I have used dozens

spring, and also whether the mare can do more work with the greater ease to herself, less harm to progeny, and more profit to her owner.

As a rule, when foals come in the spring they are dropped about the time seeding is finished. the mares having had good stiff work on the soft land for the few weeks previous which may have pulled them down in flesh a little, and though it may not, it certainly has not done animals in. their condition any good. Then follows a short period of rest, during which the foal is dropped. and, as is said, gets a start. But breaking soon begins, followed by summerfallowing, and the foal follows the mother up and down the field unless it is of a lymphatic nature which is a kind that should not be encouraged. It is also tormented by flies, and is exposed to the heat of the summer sun. This, with an occasional drink of overheated milk from its mother, is not what could be expected to give the best results. Haying and harvest follow, with very little improvement, but with the fall work things begin to look better, that is if the owner is careful. The foal will be stabled, fed a ration of grain, and will be allowed to run with the mother when she is not at work, but as work is pressing at this time of the year the foal is often neglected just when it needs a good push.

various periods of pregnancy, ranging from tour and a half to eight months. I have used dozens ground freezes in the fall, though the mare has the nutritive ratio.

sufficient age to properly assimilate a succulent food, while the spring foal is put on dry feed just at the time that it requires succulent.

There is no doubt that the mare can accomplish the year's work much more easily by dropping her foal in the fall, the fact of their breeding scarcely interfering with it, while the extra cost of feeding the mare during the winter months should not be charged against the mare, but against the foal, and will not be higher than the cost of properly wintering the spring foal.

Feeding Frozen Wheat.

Walter Lynch, Westbourne, Man., writing the ADVOCATE under date of March 30th, says :--"We are feeding crushed wheat, slightly frozen, mixed with bran, and never had such unsatisfactory food. During the cold weather it was just about all the cattle could do to hold their own, but on the same food are doing nicely now. I wonder if this has been the experience of others? This is the first winter I have been without barley, and I don't want to be without it again." Feeders who have had experience with frozen wheat will confer a favor by giving it to the public through the columns of the ADVOCATE, as experience is the best guide in this matter. In forming a ration from sound grain, the nutritive ratio of each can be taken into consideration, but with frozen wheat it is impossible to do so, as no feeding tables give

MAY, 1891

90

er

If

8.]

h

to

n

ŀ

11

10

y

1e

e,

88

it.

01

11

se

is

ts

hs

he

n,

is-

8.8

eir

W

of

en

ut

ce

ng

he

nd

is

1

den.

THE FARMER'S ADVOCATE.

Losses of Fat in Buttermilk.

At the Iowa Experiment Station, analysis of four samples of buttermilk from ripened cream which had been churned in an ordinary box churn showed an average of 0.6 per cent. of fat, and sixteen analyses of buttermilk from another source, but also with ripened cream, averaged 0.49 per cent. These analyses indicate a loss of butter fat in churning which in general practice would amount to from 18 to 24 lbs. in the first case, and in the second from 15 to 20 lbs. for every 1000 lbs. of butter made. It would have been much more interesting had the bulletin shown the comparative losses as between churning ripened and sweet cream.

Harrow the Grain and Kill the Weeds.

The ADVOCATE last year earnestly recommended the harrowing of grain, especially wheat, when the plants had thrown out two or three side leaves, or about three weeks after coming up, for the double purpose of destroying the weeds and renewing the mulch by loosening the soil. Several of our subscribers state that it has proved efficacious in both respects, but peculiarly so in killing the weeds. Among these are Mr. S. A. Bedford, Superintendant of the Experimental Farm at Brandon. Mr. Bedford says :-"There was not more than three per cent. of the weeds on the ground thus treated that were produced on an adjoining plot sown under the same conditions." No instance has been given in which harrowing did not prove beneficial, and as no evil can result if reasonable care is taken to use a light harrow with small teeth it certainly is advisible to harrow in every instance where it is possible to do so.

A Suggestion.

Mr. L. McLeod in a paper on "dairying" read before the Farmers' Convention at Regina, on Thursday, March 26th, suggested that "the government appoint a practical professor of dairying for Manitoba and the Northwest Territories, to instruct and enlighten the farmers to successful farming, Mr. Lawrence has for on butter-making." I would suggest that these people needing instruction subscribe for some such periodical as the FARMER'S ADVOCATE, and thereby get as much light on that subject as they would from a professor. Hearing a professor is all very well, but a journal coming regularly into the home has more influence than speeches by professors. I also find that the great dairy apostle, Prof. Robertson, places a high value on agricultural journals. Constant dropping wears the hardest rocks, and I think the hardest sinner against the dairy gospel would be softened to a certain extent at least by reading the dairy columns' of the ADVOCATE, or any first-class agricultural paper. We must not stand still, or the world gets away ahead of us. We must use the most advanced methods, utensils, etc., or our butter will not be suited to modern wants. Now, no one appreciates the information to be gained by listening to advanced men more than myself, but I must insist that even our professors get a large amount of their information from agricultural papers.

Manitoba Studs, Flocks and Herds. Four miles northwest of Carberry Station, on the C. P. R., is

FAIRVIEW FARM,

the property of Mr. John Barron, and the home of the Fairview Shorthorns. At the head of the herd is Barrington Waterloo = 10855 =, bred by Mr. John Iddington, Stratford, Ont. Barrington Waterloo is a compact, heavy set animal, good in most points, but exceptionally heavy quarters with a grand top, and although appearing to a casual observer a little lacking in the fore rib is not really so, but has that appearance from his shoulders being massive and unusually thick. His bottom line is good, and he is, on the whole, an exceptionally fine animal. Barrington Waterloo was got by the 5th Duke of Holker =1242 = (44637), dam Waterloo Belle 2nd (imp.) =5223=. At Fairview may also be seen the cow May Queen =15861=, bred by Thomas Shaw, Woodburn, Ont.; got by Waterloo Warder (imp.) = 1315 = (47222), dam Red Rose =10496=. Also May Queen 2nd, by Barrington Waterloo, dam May Queen. Mr. Barron also has a fine cow, a yearling heifer and a bull calf, recently brought from Ontario from the herd of Mr. James Phinn, Hespeler, Ont. There are in all ten pure-bred Shorthorns on the farm, and fifteen pure-bred Berkshires. In one of the stables were thirteen choice yearlings, all large, of good form, and with a thrifty, healthy look, which is only born of good care. Mr. Barron farms three quarter sections on this famous Carberry Plain, and considers farming without stock unsatisfactory and unsafe. Every year a fine bunch of fat cattle is disposed of, and ten choice ones, at the time of this writing, are in the stable ripening. At

CLEARWATER

may be seen one of the finest herds of Shorthorns in the province. The fortunate owner is Mr. Joseph Lawrence, who owns somewhere about a thousand acres of land in that vicinity. Recognizing the fact that stock was a necessary adjunct some years kept a large herd of grades, using a pure-bred sire. This season the desire to have something better grew so strong on him that he went east and bought eleven head of choice purebred Shorthorn females-nine from the herd of Messrs. Nicholson, Sylvan, and two from Mr. James Smith, Maple Lodge, Ont. Among those from Nicholson Bros.' are Vacuna 9th = 13325 =, by Prince Albert, a fine red and white cow, calved February 11th, 1885. She is a fine, straight cow of good length, with an excellent top, well let down in the flank, and good style. Vacuna 10th = 13326 =, sire Prince Albert, is a nicely quartered animal; fine, broad, level top; carries her size well to both ends, and has a shoulder top that is simply grand. Her head and horns are, however, not as stylish as might be desired. Sylvan Pride 10th = 13273 =, also by Prince Albert, is a fine, heavy-set, short-legged cow, with nice head and horns, and has a grand top and good bottom lines. Baroness Stanley 2nd =14735 =, by Prince Albert, is a fine red cow; four years of age; very lengthy; has a fine level back ; is heavy and thick fleshed; carries her size from one end to the other; has a thick, close twist; stands on short legs, and has a model head and horns. Tulip 2nd, by Warrior (imp.) = 4133 =, is a fine heifer in many ways-not as good a top line as might be desired,

but very thick fleshed. This heifer was one of the first prize herd at Toronto last fall. Second Leonore of Elmdale is a heavy-set cow; five years old; is very broad and thick fleshed; handles well, and is in most respects a choice animal. Thirteenth Maid of Sylvan = 12393 =, by Prince Albert = 3669 =is not of the orthodox Shorthorn type, but has many points to denote good breeding. She has at foot a very nice red bull calf by Warrior. Her first calf was a noted prize-winner in the east. Sixteenth Maid of Sylvan = _ got by imported Warrior will, with flesh, make a choice cow. She is rather thin at present, having dropped a calf just prior to being bought by Mr. Lawrence. Princess Dagmar 8th = by Prince Albert, is a red three-year-old heifer, well developed, and has been a great prize-winner. She is very thick and well-fleshed, has a wide level top and straight underline, well sprung rib, thick close twist, good flank, very nice head and horns, and will, if properly cared for, maintain her reputation as a prize-winner. The two from Maple Lodge are Rose 11th, of Maple Lodge, and Duchess Jane 7th. These are good animals, and from all appearances are superior dairy cows. Mr. Lawrence also imported at the same time three sows and a boar of the improved Yorkshire breed of hogs from Mr. Wm. Goodger, Woodstock. Mr. Lawrence has been successful in his farming and stock operations in the past, and with the greater facilities thus provided there is reason to anticipate for him greater success in the future. He says this venture is entirely due to reading the ADVOCATE, it being largely instrumental in educating him to the superiority of pure-bred cattle, and also in bringing him into communication with Messrs. Nicholson.

Condensed Milk.

The milk is condensed by the evaporation of a portion of the water which it originally contains. There are several processes by which this is done. The more general one is to have the milk first boiled; to it is then added a portion of powdered loaf sugar ; it is then introduced into a vacuum where, by rapid boiling, enough of its

181

SUBSCRIBER, Glenfell, N. W. T.

Mr. Jno. Robson, of Manitou, recommends the sowing of timothy seed on the growing grain when it is up, and nearly covering the ground. How would it do to harrow at the same time, thus killing the weeds and covering the seeds ?

water is removed to reduce it to a consistency about as thick as ordinary syrup. It will then be only one-fifth of its original volume. It is afterwards put into tin boxes, which are hermetically sealed and properly labelled.

Milk is sometimes preserved by the application of heat alone, without any evaporation being effected. In that case it is placed in a tin vessel, and after being heated to over boiling point, a small orifice is made in the tin to allow the air to find an exit; then the vessel is hermetically closed.

Various other processes for preserving milk have been proposed and tried, most of them being based on the use of antiseptics. However, they are looked upon by the public generally with disfavor.

It would hardly be practicable for a farmer to carry on the business of condensing milk upon a small scale. The apparatus required might as well be used for a large quantity, and thus the expense for plant per pound of milk that was used would be reduced.

Mr. George Healey, of Virden, asks us to apologize to the gentleman at Portage la Prairie who wrote him re Eureka wheat, but whose address has since been lost. Mr. Healey says Prof. Saunders pronounces the Eureka and Red Fern wheat the same.

THE FARMER'S ADVOCATE. 🔦

182

Establishing Cheese Factories and Creameries.

A special bulletin on the above subject has been issued by Prof. Robertson, Dairy Commissioner, Central Experimental Farm, Ottawa. It is a timely document of about 50 pages illustrated with numerous diagrams and plans, and containing statements in detail of all general requirements and appliances, together with model rules and regulations for factory and creamery management. We would recommend persons contemplating such enterprises to write for copies of this bulletin, which is published both in English and French. (Why not in German also?) Factorymen or creamerymen already established might find in it many profitable hints.

The first step essential in such a movement is to ascertain if the general conditions in the proposed locality be favorable to dairying, and if the milk of a sufficient number of cows is available and within as compact an area as possible, in order to keep down running expenses. A point to avoid is excessive competition on territory of factories or creameries already existing. In getting appliances of all kinds deal with well established, reliable firms, keeping in mind the warning against "creamery sharks" as given on page 134, April issue FARMER'S ADVOCATE.

Native Grasses at the Experimental Farm, Brandon.

BY H. L. PATMORE.

One of the most interesting and valuable experiments being conducted at the Manitoba Experimental Farm, is the trial of a number of varieties of our native grasses to ascertain their value and adaptability to cultivation.

With the breaking up of our prairies and the diminished yields of our natural hay meadows, it is becoming a question with every farmer where to look for hay and pasturage. Fodders can be grown for hay, but they are only annual and cannot be used for pasturage. Many have tried timothy and other grasses with more or less

Agropyrum caninum, all varieties of rye grass; the Poa seratina, or meadow grass, and Bromus ciliatus, or Brome grass.

As very few farmers are likely to know these grasses by the names given, perhaps a brief description of each may enable them to recognize one or more of them, so that another season they will be able to secure a little seed for themselves, from the careful cultivation of which they will soon obtain a larger supply.

From the small start made by the Experimental Farm they have this season threshed out 130 lbs. of seed, with which it is proposed to sow a larger area this coming spring for the purpose of making further tests.

Elymus canadensis, or rye grass, is perhaps one of the most common of our native grasses. It is a fine, stout grass, growing on dry hill sides and alongside ravines and low places; tall, with a long, drooping, bearded head. Under cultivation it grows very luxuriant; of a dark green color, attaining a height of four feet; estimated yield, about three to four tons per acre; ripens in August.

Elymus virginicus, another rye grass, has a bald head, resembling wheat; in its wild state is found principally in the scrub alongside rivers and sloughs. Under cultivation it makes strong bunchy growth, attaining a height of two to two and a-half feet, and produces an abundance of heavy, grainlike seed; estimated yield, two tons per acre; ripens in August.

Agropyrum tenerum, another rye grass, is said to be very abundant in the prairie region, it is said to be found almost anywhere alongside trails and meadows, grows very bunchy, and has a long, thin head, which is thought by some to resemble couch grass, but is really more like the Italian rye. When cultivated it is very early, and on that account may be useful for spring pasturage; it grows to a height of 4 feet 9 inches; estimated yield. 1½ to 2 tons per acre; ripens in June. Prof. Macoun, writing of this grass, says: "This is one of the finest grasses on the prairie for hay or pasture; it seems to prefer saline and damp soil, and does not grow in bunches, but singly."

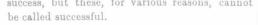
Holland Spring Show.

MAY, 1891

This show was held on Wednesday, April 15th. and was considered a success. There were upwards of twenty entries. In the heavy draught class, R. H. Peel's Ivanhoe, who has a good record for prize-winning in the east, took first place. Mr. Mullen, of Cypress River, winning second with Cairnbrogie of the Dean. In the agricultural class Donald Ross, of Cypress River, won first with Young Clydesdale Champion, Mr. Gable's Tarry Rob winning second. In general purpose. Joseph Cobb's Netherby won first, Joseph Holland's Better Times, second. In the roadster class there was strong competition, Mambrino Kirkwood, owned by A. & P. Sinclair, of Holland, winning first, Staples & Hawe, of Treherne, winning second with Young Ridgewood. In cattle the entries were not so large, Messers. George Sanderson and John Hall winning the two Shorthorn first prizes. Mr. N. Little, of Glenboro, won first on bull any age with a fine Galloway recently purchased from Mr. Wm. Martin, Hope Farm, St. Jean Baptiste.

Farmers' Institute Act.

At the session of the Local Legislature heid in 1890 an Act was passed intituled "An Act respecting the establishment of Farmers' Institutes," which provided for a grant of fifty cents per member to one regularly organized institute in any electoral division, providing there were twenty-five petitioners for the organization of such institute. Ffty dollars was fixed as the maximum amount however to any institute. This Act was not all that it should have been, but showed a desire on the part of the Minister of Agriculture to aid institute work. The ADVOCATE pointed out some of its shortcomings at the time but advised the farming public to avail themselves of the aid offered, and thus demonstrate that further aid would prove advisable. Early in the past winter the work of organizing institutes began and continued until approaching spring warned the farmers that the rush of work was upon them, when in most instances the meetings were adjourned until the month of June. The success that attended these meetings was a matter of great surprise to those inexperienced in institute work. Many very profitable meetings have been held, and many persons who were doubtful of the benefits to be derived are now enthusiastic supporters of the institute. It was found also that many improvements might be made in the Act. The ADVOCATE having at various times made suggestions concerning necessary amendments to the Act, the editor was invited to meet the committee on agriculture in reference thereto. The committee manifested a desire to aid institute work to the fullest extent consistent with existing circumstances. Among the changes made in the Act were in substance the following :-Two institutes may be formed in an electoral division, instead of one as heretofore; any person may become a member of any institute, without regard to residence, and is eligible for office if otherwise qualified. This enables two or more electoral divisions to unite, and form an institute with officers from any or all of the divisions, which with residence qualification was impossible;



The Experimental Farm, seeing the result of these trials, and recognizing the necessity of finding some suitable grasses, both for hay and pasturage, collected during the fall of 1888 a few pounds of seed of some twenty varieties of native grasses. These were sown in the spring of 1889, and during the summer of that year a further supply of seed of all the most promising native grasses was obtained, and sown again in the spring of 1890. The seed was sown in drills one foot apart, so as to be able to keep each variety pure and clean.

Although the season of 1889 was very dry, the seeds of seven varieties germinated and grew even and regular, some of them ripening their seed the first year. The plants were wintered without protection, and during the season of 1890 made very satisfactory growth. Of nineteen varieties sown in the spring of 1890, the seven best of the preceding year were again the most promising. Three or four other varieties started growth, but as yet have not made much headway.

In addition to the Muhlenbergia sylvatica, referred to in March number of the ADVOCATE, six varieties which we may say are suitable for cultivation are the Elymus canadeness, Elymus virginicus, Agropyrum tenerum and first few pounds have been obtained.

Agropyrum caninum is in every respect similar to Agropyrum tenerum, except that it has a bearded head.

Poa seratina, or meadow grass, is what is commonly known as red-top, or June grass; it grows in patches in nearly all low meadows. There are two native varieties of this grass. Under cultivation it grows freely to a height of two feet, and is of excellent quality for either hay or pasture; estimated yield about one ton per acre; ripens June and July.

Bromus ciliatus or Brome grass, has a head like a flag oat in its wild state; it is found generally amongst scrub, and grows to a great height. Under cultivation it is excellent in quality, but does not appear to thrive equally with the other varieties, but would probably be very useful for pasturage.

The main objection in the way of a general cultivation of any of these grasses will be the difficulty in obtaining a sufficient supply of seed, but the ease with which the grasses above mentioned can be cultivated, and the abundance of seed they will annually yield if allowed to tipen will soon overcome that difficulty after the first few pounds have been obtained

The annual meeting may be held at any time between the 15th day of June and 31st day of July, instead of on the second Monday in July,



ōth,

up-

ght

ord

ace,

ond

cul-

von

Mr.

eral

rst,

the

on,

air,

of

ge-

ge,

7in-

N.

ith

m.

Act

sti-

nts

ute

ere

of

the

te.

en,

ter

The

ngs

to

hus

vis-

of

ntil

ost

the

to

ny

fits

ny

The

es-

the

m-

he

ate

st-

ade

ral

ny

for

wo

an

the

on

ly,

THE FARMER'S ADVOCATE.

as formerly provided. This will be found highly beneficial, as it will enable the different institutes to hold an especially good meeting, and thus secure a good membership at the beginning of the year, as well as to provide a larger field from which to select officers. The committee also recommended, and the Minister has since promised to so amend the Act, that a portion or all of the balance of the amount placed in the estimates for the purpose of aiding institutes, and not required for the regular grants, may be used by the Department to secure assistance in institute work, if considered advisable by the Department. The committee and the House have materially aided institute work, and from present indications the time is not far distant when our institute system will be second to none in either the eastern provinces or neighboring states.

Co-operative Butter-Making.

The great secret of the success of Canadian cheese abroad, by which a \$9,000,000 per annum export trade has been built up, is its uniform excellence. When it comes to marketing this, uniformity is an indispensable requisite, whether in butter or cheese. Large dealers want a supply upon which they can with certainty rely. It should not be intermittent either in quantity or quality. Many of our farmers do turn out butter of superior character. Intelligence and determination in the private dairy will most certainly. accomplish that end, but unfortunately in a host of cases those factors are conspicuously absent. Consequently, every conceivable sort of butter, both in its quality and style of package, is thrown upon the market, where the bad injures the good. There is no hope for a profitable export trade by the indiscriminate packing of a hundred different styles of butter from as many different small farm dairies. The inferior samples will drag the rest of the load down to their own low standard. There must be one general system and uniform method. Along the other line the thing is hopeless, as the Farming World the other day pointed out in commenting on the proposed establishment of a creamery in Dum-

more skill and care the farmer and his family put in the management of their herd, dairy room, and marketing, the more profit is likely to accrue. Better butter will mean increased consumption. Nothing is surer than that. Increased consumption implies a keener demand with firmer prices. For the foreign trade, as we have said, the creamery, or factory plan, will be found essential, and coupled with it the best possible and speediest means of transportation to the great consuming centres of the world.

Salt the Cows.

The importance of salt in animal economy is often overlookd, and nowhere is it of more importance than with the dairy cow. She should have access to salt daily at least, and if it can be within her reach at all times so much the better. Some dairymen make a pratice of salting the food for their stock, but it is best to have salt within the reach of the animals, thus allowing them to use only what they desire. Experiments have proved that when dairy cows are deprived of salt for even one to three weeks there is a decrease of from 15 to 20 per cent. in the yield of milk. The milk from unsalted cows also sours much quicker than when they have unrestricted access to salt.

The Water Supply.

In many districts sufficient attention is not given to providing an adequate supply of pure water for cows, especially in summer. Do not rely on shallow pond holes that will turn green and slimy before the summer is half over or go dry altogether. The foulness of such water goes into the milk to reappear as rancid butter and gassy curds, reducing the price both of butter and cheese. This means loss. No dairyman need expect his long suffering cows to maintain a good flow of milk when driven miles on hot, dusty roads for a drink at a "crick." The loss sustained in that way would soon dig a deep well and erect a windmill that would for long years prove a paying investment. The Successful Agriculturist. Agriculture includes the preparation of the soil, the planting of seeds, and the raising and harvesting of crops. These may be regarded as easy to accomplish, but, nevertheless, it is impossible for a man to farm successfully without having a knowledge of his work. A man may know how to plough, harrow, etc., and still not be a successful agriculturist. The successful farmer is one who uses his head as well as his hands, that is, he must understand drainage, the kind of soil suitable for the growing of different grains and roots, and also how to restore and retain fertility to the soil by the application of fertilizers. If these facts are known and practiced they are certain to return profit, and being ignorant of them is too often the cause of failure. Education is just as necessary for a farmer as for any other profession, and if this be neglected by farmers' sons they cannot compete with farmers who have been educated, just because they do not know how to raise the quality of any production required, therefore cannot attain the level of the educated farmer. Now, in order to receive as much knowledge of agriculture as possible, it is essential that a person should read and study books or papers treating on that subject, or attend the Ontario Agricultural College, and thus an education would be received that would enable the farmer

Diseases of Pigs.

183

BY J. Y. ORMSBY, V. S.

PNEUMONIA, OR INFLAMMATION OF THE LUNGS.

This disease, fortunately, is not very commonly met with among hogs, but when it does occur it is generally very fatal, more particularly when the case is neglected at first. Among pigs, just as among men, we usually find pneumonia associated with cold, damp, draughty quarters, it very rarely occurring among pigs that are well housed and attended to, although even where this is the case it may be produced by a sudden chill, such as would result from turning a pig that had been well cared for in a warm pen out of doors in stormy weather, or leaving a pig out of doors exposed to the weather after it had been heated by driving it a distance. The ordinary symptoms of pneumonia are not hard to diagnose. The animal has fits of shivering, its hair has a staring appearance and stands up, there is a difficulty in breathing and a cough, the ears and nose are hot and dry, and the pig shows very little inclination to eat.

The treatment in such cases must be prompt, otherwise it will be almost useless. Place the animal in a nice warm, dry pen, well bedded, if possible, with wheat straw, and give the following dose in a little gruel :- Spts. ether nitros, 2 drams; liq. ammon. acet. (or mindererus spts.), 2 drams; nitrate of potass, half dram. Give all the nourishing food that the pig will take, such as warm skim-milk, with a little shorts and linseed meal stirred through it ; and if the animal appears to be very weak a little whiskey will be found useful, added to the feed, The administration of a dose of epsom salts, from one to two tablespoonfuls, is often very useful at the outset of the case. If the breathing is very distressed and the animal appears to be suffering much pain, relief will often be afforded it by bathing its sides with hot water for twenty minutes to half an hour at a time, after which the part should be thoroughly dried and a lini-

fries, Scotland. At a meeting there the complaint from the merchants was that they could not get a sufficient quantity of butter and cheese of uniform quality. Another point in favor of the creamery or butter factory is that its output may be in quantity large enough to be kept separate from other samples until it reaches the market where it is assigned to its own class.

Canada is going to push butter-making as well as cheese-making. Whether the cheese districts can develope any considerable winter buttermaking industry on the factory plan, without any detriment to the sister branch, remains to be seen, but Prof. Robertson and others are most sanguine on this score. In the meantime the production of butter privately and otherwise is certain to increase, and the Dairy Commissioner and others will do well to put forth every possible effort to develop the export trade, lest presently we find our local markets over stocked, and our ambitious dairymen discouraged by a season of low prices. This safety valve will be needed, in all probability. Scotland is pushing ahead in dairying, and this year Ireland will embark in dairying more extensively than ever before, with condensed milk factories and buttermaking as specialties.

One word as to private farm butter-making. The ADVOCATE has nothing to say against the march of improvement in this direction. The ment rubbed on composed of equal parts of ammonia, turpentine, and oil.

RHEUMATISM.

Rheumatism may be said to be almost as common among pigs as pneumonia is uncommon, and here again we find dirty, damp pens and general neglect the commonest factors in producing the disease. Pigs suffering from rheumatism usually show very great indisposition to move about, it being almost impossible sometimes to get them even to come to the trough to feed. When they do move lameness is apparent in the affected parts, and this is usually accompanied by soreness of the muscles and a decided elevation of temperature. In mild cases a warm, dry pen, plenty of good, clean, dry bedding, and the application to the affected parts of liniment composed of equal parts of turpentine and olive oil will be found sufficient, while, if the pig be fat, a dose of epsom salts will be in order. In severe cases it will be necessary to carry the treatment further, and now one to two tablespoonfuls of cod liver oil twice a day will be found very beneficial, while in Prof. Long's "Book of the Pig" we find the feeding of sour milk recommended. In addition to this the administration of bicarbonate of soda, a small teaspoonful daily in the feed, and continued for a few days, has proved of service.

THE FARMER'S ADVOCATE.

MAY, 1891

PARALYSIS.

Paralysis is usually found among pigs in the form of paraplegia, or paralysis of the hind parts. In this country we often find it caused by exposure to a very hot sun. In such cases removing the animal to a cool, dark place, and giving a purgative and laxative diet is usually sufficient. In severe cases, where we have reason to suppose that there has been some injury to the spinal column, I would recommend the destruction of the animal as a general thing, as I have found such cases usually very unsatisfactory to treat, although in the case of a valuable breeding animal it might be well to try the effect of hot fomentation to the back and loins, followed by blisters, together with the use of enemas and a laxative. Should there be partial recovery followed by a weakness in the parts, ten grains of powdered nux vomica given twice a day in the feed for a couple of weeks will be found useful.

Domestic Veterinary Treatment of Farm Animals.

BY DR. MOLE.

It is almost impossible for anyone unacquainted with the various details of so complex an organization as an animal's structure to treat successfully the many diseases that are to be met with, but there are a great many simple disorders and bodily injuries that almost anyone with a superficial knowledge of the animal's structure, and an intimate acquaintance with its habits, may treat and remedy with a fair amount of success. But there are books innumerable that profess to make every man his own horse or cattle doctor, and lots of treatises that will guide a man if he is not too wedded to his own opinion. The fact is, that, whether recognized by veterinarians or not, domestic medicine, both in application to men and the lower animals, is an institution which cannot be abolished ; and as there are many districts that are without the aid of skilled veterinary surgeons, but are within the reach of such a paper as the FARMER'S ADVOCATE, it may be worth while to offer some suggestions with a view of placing it in its proper position and give some guide to those who have the care of live stock. It must, however, be clearly understood that by domestic medicine is intended the use of simple remedies that are generally kept on every well ordered farm. All kinds of patent medicine that are largely advertised should be avoided. They are extravagantly high in price and generally contain some deleterious agent that more often does harm than good. In all cases of difficulty and danger, and when the life and well-being of the animal is concerned, it is advisable, and the truest economy, to seek the aid of a skilled veterinary surgeon, and having consulted him, take his instructions and carefully follow his directions, for only by these means can any good resulf. Veterinarians' charges are often a tax on a farmer's resources, and I am sure that some method could be devised, more especially by the farmer's institutes and societies, to contract for the periodical attendance of a veterinary surgeon to the members of such societies, the same as is carried out by many sick and benevolent societies. This method would give universal satisfaction and the cost to each individual member would be small. The vetericary surgeon would find it to his interest to keep the animals of the farm in good health by advising as to 1 his bad habits.

their general welfare. It might be left to the farmer's institute to carry out all the details of the scheme, and I believe that under such conditions many men would be found to seek the membership of these excellent institutions for the benefit that they would receive on this account. Again, by this simple process of guaranteeing a veterinary surgeon a certain income it would attract men to settle in various districts not at present represented. There is no doubt it would lessen to a considerable extent the annual losses inflicted on the live stock of the various provinces.

As it is vain to hope that all men will avail themselves of the constant aid of veterinary surgeons, it may not be out of place to offer some advice, as to the proper treatment of farm stock, when assistance is not to be procured, and even should it be within reach there are a number of simple ailments that can be and are attended by farmers themselves; so that a few plain directions for the proper treatment will be given. It must, however, be said that the directions and remedial measures that will be employed shall not be capable of adding to the mischief instead of repairing it.

There is always one serious obstacle that presents itself is advising amateurs what is the proper selection of the various medicines and their doses. Now it must be borne in mind that a cow will take more than a horse, a horse more than a calf, and a calf more than a sheep, so that something must be left to the general intelligence of the farmers in giving medicine to their stock ; therefore pay particular attention to the symptoms presented. Any deviation from the normal or regular standard of health constitutes disease and is to be acted upon with decision and promptitude. Before proceeding any further with our subject it will be necessary to take into consideration the general outlines of anatomy, the knowledge of the general plan of the circulation of the blood, the theory and practical explanation of inflammation, and the influence on the digestive organs, for unless we know the grand and masterly manner in which

The Grange. BY HY. GLENDINNING.

The first Grange (Patrons of Husbandry) was organized in the city of Washington, D. C., on the fourth day of December, 1867, from whence it spread over the United States to Canada. On the 16.h day of August, 1872, the first Grange was organized in this country, and on the 2nd day of June, 1874, the Dominion Grange of Canada was organized in the city of London, there being at that time twenty-four subordinate granges, whose charters had been obtained from the United States. Up to the present time there has been about one thousand charters issued by Dominion Grange to division and subordinate granges. The first few years after its inception the increase in new granges and membership was very great, indeed much too rapid for its permanency. It being the first organization the farmers as a class had that brought them together in their several localities, from there to the county association or Division Grange, thence to the Provincial and Dominion Granges, the effect upon the farmers and their families was very marked from a social, educa-tional, and financial standpoint. Many families who had lived a lifetime within a short distance of each other, with only a slight acquaintance, became close friends. They met in the grange, exchanged opinions upon the various questions relative to their calling. Successes and failures in the growing of crops and stock raising were freely discussed, which added greatly to the knowledge of the members. Co-operation in the purchasing of supplies was

a prominent feature, and in some sections the selling of grain and other products of the farm was carried on to a considerable extent with But this success led too many to success. extremes. Not satisfied with a small measure, they advocated, and in some instances attempted to run institutions entirely foreign to that of the farm, the result in most cases proving disastrous to those engaged in the enterprise. instead of laying the blame to themselves and those who were engaged with them they laid it at the door of the grange; this led to a large decrease in the membership. This class was followed by the timid and those who joined for financial gain only, as the gold did not roll in as they imagined it should without effort on their part. Another bad result of these wild discus-

all the various organs are dependent on one another we cannot hope to be successful in our treatment of disease.

In considering the action of the heart on the circulation it must be accepted that the immediate cause of the heart's action is within the heart itself, and is dependent on the due supply of properly oxygenated blood derived from the lungs, and unless the blood is properly prepared from good nutritious food, derived from the digestive organs, the whole of the animal's structure must suffer, for the blood is the life of the animal, and unless it is of good quality and sufficient in quantity, disease must ensue; so that we can see by this very short description that the whole of the complex organization is dependent on a few essential conditions, and in searching for disease the very first principles must be looked for, and are invariably found in food, water or atmosphere.

Practical gardening is taught in all the common schools of France, numbering about 25,000. A horse beautiful in form and active, and able to travel seven or eight miles an hour for five hours, ought to be prized more than any 2.10 trotter.

The silo has come to stay. But it will not stay long with the slipshod farmer. Not much else will stay with him that can get away, except his bad habits.

part. Another bad result of these wild discussions and attempts to run everything in the country was to set all classes of society (whether they had reason or not), from the village blacksmith to the banker, in opposition, hence the influence of all these parties was arrayed against the grange.

The grange in Canada to day differs from that of a few years ago in that it has profited by its sixteen years' experience. Its members recognize that the division of labor with a proper training as necessary for the successful transaction of business; that more is to be gained by the social and educational features than starting wild, imaginary schemes for making money. Of late years the grange has devoted much attention to matters of legislation affecting the farming class with good results. However good the intentions of our lawmakers may be, yet it is a fact that most of the laws put upon the statute book when put to practical use are found to be defective. No better means could be devised for the farmers to have these laws amended and made workable than that now employed. The members bring the matter before their Subordinate Grange and discuss it; the delegate from that grange lays it before Dominion Grange, and the Executive Committee of that body lays it before the governments of our country, which, I am pleased to state, has met with gratifying results. While the grange does not possess as great a membership as it did a few years ago, yet its influence is as great or greater than ever. During the past winter a number of dormant granges have been resuscitated and started out again with new life, which bespeaks for the Order prosperous future.

Was

, on

ence

On

inge

2nd

e of

lon,

nate

rom

time

ters

sub-

tits

em-

apid

niz-

ight

rom

sion

nion

heir

uca-

ilies

ance

nce,

nge,

ions

ures

vere

the

was

the

arm

vith to

ure,

ted,

the

rous

nen,

and d it

arge

was for

n as

the

ther

ack-

the

inst

that

its

nize

ning

n of

the

ting

Of

ten-

rm-

the

is a

tute

be ised

and The

ordi-

rom nge,

lays

ich,

ying as **as**

ago,

ver.

ant

out

135

THE FARMER'S ADVOCATE.

Economic Dairying.

[Read at the Regular Meeting of the Brandon Farmers' Institute by J. W. Bartlett.]

In considering this question it will be quite in order to first give attention to the cow, as without a good cow—and I wish to place strong accent on the good—dairying cannot be made profitable. It is almost universally admitted in Ontario that more than half the cows in that province are kept at a loss. This should lead us to at least consider for a moment what is requisite in a dairy cow that she be profitable. There are two important requisites, viz., good breeding and good feeding.

POINTS OF A DAIRY COW.

First and foremost the "wedge shape," which implies a body comparatively of the shape of a wedge in form from rear to front, being wide across the hips, and back quarters heavy, denoting well-developed maternal organs, and a thin shoulder and very slim neck, showing no superfluous flesh ; shoulders thin at top, very deep and thick at the bottom, thus presenting the form of an inverted wedge, and denoting great heart and lung power. The ribs should be wide apart, and the first rib at a considerable distance from the hip point. The twist should be open and wide, the bones having at least a slight bow upwards to make room for the udder, which should extend well up behind and well forward underneath. The teats should be even, of medium size, and not too close together; and two rudimentary teats, partly well developed on the rear portion of the udder, is indicative of a good milking family, although not always of an individual. The bones should be fine, the head and horns small and fine, eyes very prominent and of good size, muzzle fine, hide thin, soft and glove-like, hair soft and silken, and the whole organization denoting an absence of superfluous flesh. In selecting a sire of the dairy breeds see that he conforms to this type, so far as the difference in sex will admit. Having these points, and a line of breeding to enable mim to transmit them to his progeny with reasonable certainty, he will prove valuable as a sire. Having selected the cows nearest to this type and breed them to such a sire, the next matter of importance is to develop the heifer. I would begin immediately after birth. After one week gradually reduce the amount of whole milk, and substitute skimmed milk warmed to blood heat, until, at the end of four weeks, the food should consist solely of skimmed milk. Later on it might be well to feed crushed oats in moderate quantities after the milk. The heifer should be kept in moderate flesh, never thin enough so retard growth. At twenty months old the heifer should be bred, thus producing her first calf at about two and a-half years. The heifer should be kept on first-class pasture in summer, and fed on nutritious and succulent food in winter, to promote the secretion of milk and development. She should be milked (not suckle her calf) for a year, or up to within a very short time of dropping the second calf. By this means the habit of early drying off will have been avoided, which would not have been the case had she been allowed to go dry long between the first and second calves.

end of the teat is a valve which the cow seems capable of opening or closing at pleasure. When subjected to nervous excitement, such as worrying by dogs, or violence at the hands of the milker, she invariably closes this valve, and will only open it when her excitement is allayed, and her nerves had a season of quiet, and even then the fat will not be present in as large quantities as if nothing had occurred to disturb her. In winter either ensilage or roots must be fed for best results-to keep the system healthy, and the digestive organs active, and in a condition to utilize to the fullest extent the other food consumed. I venture the assertion that this province does not realize on her dairy products more than sixty per cent. of what it is possible to do from the amount of food consumed. Part of this is due to unprofitable cows, and more to unprofitable methods of home manufacture.

An inferior price is received for all farm or home dairy butter made, except by a few farmers near the cities of Winnipeg and Brandon, and the town of Portage la Prairie, and even in these instances the price is kept down by the inferiority of the bulk of farm butter.

Co-operative dairying is much more profitable for various reasons, but chiefly on account of the uniformity of product commanding a better price than mixed lots. If one hundred farmers patronize a creamery there is but one quality of product, while if these one hundred farmers manufactured their own butter there would probably be one hundred grades of butter, and if the butter was even better in the aggregate, it would not command nearly as high a price. Owing to the sparseness of settlement we are, however, heavily handicapped in co-operative dairying by the expense of collecting milk. A creamery conducted on the cream-gathering system, raising the cream by the submerged process, however, overcomes this to a considerable extent, as only the cream has to be hauled, and three times a week is often enough to go over the route, while with a cheese factory, or a creamery where the separator is used, the whole milk must be delivered every morning.

The farm dairy will doubtless, howe duce the bulk of our butter for some years, and let us use every effort to raise the product to the highest possible standard of excellence. It is quite within the province of the farm dairy to produce an article of butter decidedly superior to that of any co-operative establishment. The latter has of necessity to use milk produced by all kinds of cows, fed upon all kinds of feed, and milked by all kinds of persons, in all kinds of vessels, and exposed to all kinds of odors; while the farm dairyman has control of the cow, the feed, the surroundings, and every particular, all the way from the feed box to the butter plate. As before stated, when the farm is located near a city, where private customers who are able and willing to pay for a first-class article can be found, good prices will be realized, but it is truly discouraging to produce such butter and trade it at the corner grocery for goods, at the same price that the negligent, shiftless farmer gets for his grease. I would strongly recommend this institute to take some step to induce the Brandon merchants to adopt the system of inspection adopted this season in Virden, which has given entire satisfaction, by securing to the producer a price based on quality of product.

sufficient importance to be taken up at a future meeting of the' institute.

Mr. Koester stated that with three mature cows and two heifers he had produced two hundred dollars worth of butter, which, considering all things, was equal to what is claimed, viz., that a cow should at least make two hundred and fifty pounds of butter, worth twenty-five cents per pound, in a year.

Mr. Percival, well known as a stockman in the vicinity of Brandon, claimed that a cow should not be kept that would not make on an average eight lbs. of butter per week, for forty weeks out of the year. Mr. Percival had found stock and dairying much more profitable than wheat growing.

Another gentleman asked the speaker what cow he would recommend as a dairy cow.

The answer was, the cow that will give forty pounds of milk containing five per cent. of butter fat, and they may be found in well developed families of any and all of the dairy breeds.

Mr. Bedford referred to some of the fodder plants grown on the Experimental Farm, which promised to aid materially in dairy farming. The general feeling of the meeting was that the upland pasture of the vicinity would require to be supplemented by a soiling crop or crops.

Keep Good Stock.

BY WM. GROGAN, MANITOU, MAN.

One reason why so little is made out of poultry is because so little effort is made to improve the stock. It will take all the vim and snap out of the brightest boy to put him to taking care of scrub cattle. If you want to destroy all the faith of your girls in the chicken business, give them charge of the common dunghill fowls, and no good place to keep them. If you want your boys to use profane language, allow the chickens to roost in the stable among the horses. But if you want to train your boys or girls to habits of thrift, and to have faith in poultry, just send off to some reliable breeder and get a setting of eggs of some choice breed. Then show them how to take care of them. Give them a good place to roost, and a warm house in winter, so that they will not strike when eggs go up. A boy or girl has some heart in taking care of stock that has beauty as well as utility, and when faith in the business and habits of good management are learned the

185

TREATMENT

must be kind and considerate, if we expect to get the best returns. A man may punish a cow by brute force, but she will punish him by a reduced flow of milk of inferior quality. At the upper

Winnipeg Industrial Exhibition.

battle is won.

This Association has received a special Act of incorporation, providing for the Board of Directors, etc., etc., and is now in business shape. But, owing to a slight misunderstanding of the Deputy-Minister of the Interior regarding the proprietorship of the exhibition site, the title has not been acquired, and as a consequence building operations have not been proceeded with. The Act of incorporation provides for a board of directors not less than ten and not more than twenty-one. Two of these will be appointed by the city council, one each by the Cattle Breeders' Association, Dairy Association, and Poultry Association, the remainder from among the members of the Exhibition Association. At this writing it looks just a little as though it would require a big rush later on, for the time now being lost. It is, however, but justice to say, that no blame can be attached to the Board, as the delay is not from their neglect. It is to be hoped that a title may be made to the city at once, and

THE FARMER'S ADVOCATE.

Patrons of Industry.

186

Numerous inquiries having been addressed to us as to the object for which the association known as "The Patrons of Industry" has been formed, we cannot do better than to quote from the constitution adopted by the Supreme Associstion of this order, which opens with the following preamble :--

" Being impressed with the fact that all parties interested in commerce, manufactures, and other enterprises of importance, are organized and using their combined influence for the promotion of their own special interests, while the farmers and employés, upon whose labors depend the prosperity of the nation, are almost entirely unorganized ;

"We, the citizens, farmers and employés of North America, believing that Almighty God, as the source of all power and the ruler of all nations, should be acknowledged in all constitutions of societies, states and nations, do hereby, with due reverence to Him. associate ourselves together under the following articles, and do solemnly pledge ourselves one to another, to labor for the promotion of the interests of farmers and employes, and the good of the nation of which we are a part.'

Then follow the articles, the first of which states that: "This order shall be called 'The Patrons of Industry of North America,' and its object is to secure the rights and interests of agriculturists and laborers, and shall be nonpartisan and non-sectarian.

The other four articles set forth the manner in which the different associations of which the Order is composed are to be formed, and it is not necessary for us to touch upon them here, as our object is simply to show the general aim of the order itself, which, according to article 1, is "to secure the rights and interests of agriculturists and laborers.

From what we can learn the principal steps taken by the "Patrons of Industry" have been directed towards putting down as far as possible those monopolies or combines under which farmers are suffering to day, such as the "Binder Twine Trust," "The Salt Trust," and other combines of a like nature; and also towards introducing a cash system of dealing between farmers and storekeepers, whereby the latter are enabled to sell goods at a much lower rate of profit than hitherto, and in both of these WP cannot but feel that t

simply this: "If you will sell us goods at a fixed percentage increase on wholesale prices, we will pay you cash and give you all our custom, and we fail to see any injustice in this to anyone. There is no force about it. No storekeeper is compelled to accept these terms. In fact, the storekeeper is simply in the same position the farmer was in when he objected to the price of salt. The storekeeper said : "If you do not like the price, do not take the salt; you are not forced to." The farmer now says: "If you do not like my offer, do not take it ; you are not forced to.

That goods can be sold at a much lower price for cash is an undoubted fact, and if the Patrons succeed in introducing a cash system of doing business, in our opinion they will confer an incalculable benefit on the country at large, for undoubtedly the credit system at present in vogue is one of the greatest curses of the country; and should they also succeed in doing away with the combinations or rings that have of late been formed in all the different manufacturing interests that farmers have to deal with, and so compel the prices of such articles to be regulated by the natural laws of commerce, there is not a doubt in our mind but that the formation of the Order will be a grand thing for the farming community.

We would, however, point out that such results can only be brought about by the thorough co-operation of all interested, and that one or two men, no matter how active or pushing they may be, cannot carry out such a work unless backed up by the solid mass of the agri-cultural population of the country; and we would also counsel moderation, for while we are in hearty sympathy with the aims of the Order, as we understand them, we do not think any thing is to be gained by too radical measures, and would urge the leaders of the movement to remember that, while it is only right that farmers' interests should be protected, at the same time, both retail dealers and manufacturers have a right to a *fair profit*, and so we would suggest to them to keep before their eyes the motto "live and let live.

Horticulture at the Central Experimental Farm.

The situation of the Experimental Farm at Ottawa gives, owing to the peculiarly trying climate of that locality, special advantages in testing fruits and originating varieties calculated to be of great value to the province of Quebec, the colder parts of Ontario, also Manitoba and

3. An orchard containing about 5,000 seedlings planted five feet apart each way has been set out. These have been grown from selected seed of Russian and American origin, and will be added to annually, as many individuals in the process of selection will be found tender or otherwise unsuited to the climate ; but with so large a collection, and having the work conducted on different lines, the chance of obtaining seedlings of value is largely increased.

4. The methods of cultivating orchards too has a most important bearing upon their health and longevity, and this subject is securing due attention.

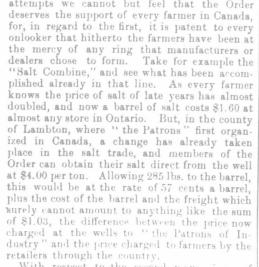
5. The annual losses to orchardists of late years, due to the effects of the disease known as apple scab," or "apple spot" has led to sundry investigations in regard to its life history, development, and best means of combating the disease. After finding that the trouble was due to a minute parasitic form of plant growth, experiments were inaugurated using copper and other salts dissolved and applied in the form of a spray. Encouraging results led to repeated trials with added success. This work has been taken up at Ottawa, and last year's experiments point to a remedy which will soon be in general practice. The results of these experiments are given in full in the annual report of the Experimental Farm now being distributed.

SMALL FRUITS.

Strawberries have been a marked feature of the work in this department. The bulletin on their culture, with descriptive notes on varieties, published by Mr. Hilborn while in charge of the horticultural department, is the most complete manual of its kind issued in Canada ; but the work of testing introduced varieties and originating others is still going on.

Many varieties of raspberries, seedlings and hybrids were inspected during the fruiting season of last year by a committee composed of promi-nent members of the Ontario and Quebec Provincial Horticultural Societies. This committee recommended the propagation of about twentyfive kinds, thought by them to be superior to those now in general cultivation. Speaking of this work as a whole, they stated in the report submitted that the introduction of these varie-

MAY, 1891



With respect to the second move, i. e., introducing a cash system by which the farmer pays cash, and receives his goods at a fixed perentage over the wholesale price, a howl has already gone up that it is an attempt to crush the retail storekeeper, that it is the creation of a huge monopoly itself by placing the trade all in the hands of a few men, and that altogether it is a piece of most intolerable impertinence on the part of the farmers, forsooth, to attempt to interfere in any way with the trade. But, we would ask, where is the attempt to interfere with anyone. As far as we can see, the proposi tion made by the Patrons to the storekeepers is ' carried out will remain unsettled.

the Northwest.

LARGE FRUITS.

The work in this division may be classified under the following heads :-- 1. Tests of varieties; 2. Methods of propagating; 3. Methods of cultivating ; 4. Originating varieties by seedling production and cross-fertilization ; 5. Experiments with fungicides. 1. In apples alone the collection includes more than 200 of the Russian varieties, as well as our standard Canadian and American sorts. In plums, cherries, pears, and apricots proportionately large collections are on trial, with all the European and American varieties represented. Mr. Craig is strongly of the opinion that in order to build a sure foundation for the future success of fruit culture in the colder sections of Canada, we shall have to develop our own varieties by careful cross-breeding and selection. With the many widely differing kinds of fruit on the Central Farm the oppor tunities for the advancement of this work are excellent, and will be pushed as rapidly as possible.

2. Experiments are under way to test the effect of the different methods of propagating fruit trees. The question is one about which there has been and is a great deal of controversy, and until a systematic line of investigation is

than enav all ex incurred in the horticultural department of the Experimental Farm.

VEGETABLES

A few classes of these are being taken up each year for the purpose of testing all new varieties, sifting out duplicates, and selecting seed from the most desirable strains. Last season there were on trial 48 varieties of tomatoes; cabbages, 58; radishes, 45; peas, 56 elettuce, 40; celery, 36; sweet corn, 22.

FORESTRY.

In forestry the work is being pursued along three different lines. 1st. The planting of per-manent belts, with a view of determining the adaptability and usefulness of the different timber trees grown in this way. 2nd. In order to stimulate tree growing in the Northwest Territories, where shelter belts are so urgently needed, seedling trees are being distributed free in pack-ages containing 100 each, to voluntary applicants. The distribution amounted to 100,000 trees last year, and arrangements have been made for double that number to go out this spring, the pames of a sufficient number of applicants being now on hand to cover all the stock available. 3rd. A large quantity of tree seeds of varieties native to Manitoba has been collected and are being sent out through the mails in small bags to districts in the Northwest remote from timbered tracts. Already over 2,000 of these bags, each containing from 3,000 to 4,000 seeds of such varieties as Manitoba Maple (Box Elder) and Manitoba Ash. These seeds from hardy native forms will furnish the farmers with the right kind of of stock-in-trade to start with.



gs

of

d

88

86

f-

of

)0

le

THE FARMER'S ADVOCATE.

Pure-Bred Cattle Breeders' Association.

President Lynch writes the ADVOCATE that he has instructed the Secretary to proceed with arrangements for the annual meeting of this Association on the evening of the first day of the Brandon fair. Mr. Lynch thinks it well to hold the annual meeting prior to the Winnipeg exhibition, which now seems to be a certainty. The ADVOCATE commends this course, and hopes to see a good attendance at the annual meeting.

Instructions for Planting.

BY JOHN CRAIG, HORTICULTURIST AT CENTRAL EXPERIMENTAL FARM, OTTAWA, ONT.

When the trees are received, unpack at once, and wet the roots. If unable to plant immediately, store them in a cool cellar, or bury out of doors, covering them completely with moist earth.

SITUATION.—When selecting a site for planting if possible choose a loamy and friable soil on a northern slope—a piece that has been summerfallowed is preferable. Avoid southern exposures, as trees in such situations are liable to be injured by alternate freezing and thawing in the spring, and by hot winds in summer. (Observe the situation in which trees are found naturally in Manitoba, and particularly the Northwest—generally a northern exposure.)

PREPARATION OF SOIL. — Work the ground twelve to fifteen inches deep, and pulverize thoroughly; mark out rows three and a-half or four feet apart, running north and south.

PLANTING.-Cut back to the living wood any tops that may be withered or otherwise injured. Do not expose the roots to the sun or wind for a moment, as the tender seedlings are quickly injured by such exposure. A good plan is to carry the seedlings to the field in a pail of water, from which they are planted ; set deep, four feet apart each, putting the stronger growing varieties, as Box Elder and Cottonwoods, in the out side rows. If the soil is dry, pour water in the holes when half filled. Press the earth firmly about the roots in all cases, and leave the tree in a slight basin with the surface soil loosely laid on. It should be kept in this loose condition by frequent stirring during the growing season. Where practicable, plant corn in the interspaces of the north and south rows, and leave the stalks standing over winter. The corn-will serve as a summer shade, and assist in collecting snow through the winter.

making a large tree, and is one of the most valuable timbers we have. It is a fairly rapid grower when cultivated, though not as quick growing as the next, it makes a larger tree. Seed ripens in the fall, can be sown at once, or kept in a damp place over winter and planted in spring.

GREEN ASH (Fraxinus vividis).—This makes a smaller tree than the last, but is a more rapid grower when young. It is found farther north and west than the white ash. Seed of the Manitoba form of this has been distributed the past winter. It is found well adapted to cultivation in prairie regions.

Box ELDER—Ash leaved maple, Manitoba maple (Negundo aceroides).—This variously named tree has been sent out as Box Elder. It is extremely variable in hardiness, chiefly dependent on the locality from which it is derived. The Manitoba form is preferable to any other for the use of northwest planters. While the wood is not specially valuable in the manufactures, yet its rapid growth, extreme hardiness, and ability to stand neglect and abuse renders it at once the most valuable tree for beginners in prairie forestry. Seed ripens in the fall, and germinates best when sown immediately. It may be propagated from cuttings set out in the fall.

SOFT MAPLE—Silver leaf or River maple (Acer dasycarpum).—A rapid grower, found naturally on river bottoms through the west. Planted in groves it makes fuel and shelter very quickly, but does not in the west make a long lived tree; planted singly it is apt to be broken by windstorms. The seed ripens, according to location, in May and June, and should be planted at once. The young seedlings will appear as quickly as corn, and need shading.

SYCAMORE-Plane tree, Buttonwood (Plata mus occidentalis) .--- This has been sent out with the special purpose of determining its usefulness under northwest prairie conditions. It has a wide range of distribution in the Atlantic and Western States. It is one of the finest shade trees for street planting. The wood is valuable in cabinet work. The seed is collected and sown in the spring, and also may be propagated from cuttings set out in the fall. AMERICAN ELM (Ulmus americana).-Specially valuable for avenue and road side planting, and as a pasture shade tree. The value of the wood for manufacturing is well known. The seeds ripen in May, usually before the trees come into full leaf. Sow at once on gathering. The seed may be planted in corn hills to good advantage. MANITOBA ELM .- This, though botanically the same as the last, has been collected and distributed, to demonstrate the superior hardiness of the native over the eastern or southern grown tree. It would be well to plant alongside each other for closer comparison. BLACK CHERRY (Prunus scrotina). - A valuable tree which in rich soil attains a height of fifty or sixty feet. It usually grows straight to about one fourth of its height, when it forms a fine head. A wood much in demand for cabinet work. A tree that succeeds generally, and one that it will pay to grow. Seed collected and sown in the fall, or kept over winter in damp sand.

moist bottom soil with clean cultivation. It is best to plant the nuts where the tree is to remain; the growth by this method is rapid and unchecked. It is important to collect the nuts from trees growing as far north as they can be found. The trees sent out have been selected with this principle in view.

HONEY LOCUST (*Gleditschia triacanthos*).— This tree does not sprout as does the yellow locust, nor is it attacked by borers in the same way. The wood is close grained, making durable fence posts and rails. It is variable as to thorns, some being very prickly, others being entirely thornless. The seeds should be collected in the fall, kept dry over winter, and scalded before planting. Those that swell will germinate readily. The seedlings are tender the first year, but afterwards are fairly hardy.

WHITE BIRCH (Betula alba). — Makes a medium sized tree, growing rapidly on the poorest soils. The seed ripens in September and October, and can be sown in the fall or kept dry over winter. Soak before planting in the spring, and cover lightly.

CANOE BIRCH—Paper birch (Betula papyrifera).—Forms of this extend to the northern limit of diciduous trees. It attains a large size, and is ornamental. The seed ripens with the last, and is treated in the same manner.

AMERICAN MOUNTAIN ASH (Pyrus americana).—One of our hardiest ornamental trees. It succeeds admirably on dry soils and in most trying situations. The seeds, like hawthorn, are slow to germinate, usually not appearing till the second year. When grown in a large way, germination may be hastened by rotting them in heaps.

COTTONWOOD (Populus monolifera).—Prominent among varieties of the poplar, suitable for planting on the prairies, is the cottonwood. As a rapidly growing tree, easily raised from cuttings, which can be cheaply obtained, there are few trees that will make as much wood and shelter in a given time. In selecting cuttings choose clean two-year old wood, or well-ripened one-year, cut from ten to twelve inches long. If

187

EVERGREENS. — Special care must be taken that the roots of these do not become dried. They will also require partial shade during the first season.

CULTIVATE at least once a week throughout the growing season; afterwards sufficiently often to keep the weeds down. This treatment should be continued annually until the trees are large enough to shade the ground. Mulch each year in the fall with straw, manure, or prairie hay, which is to be removed in the spring when cultivation begins.

You will please take such notes during the growing period as will enable you to make a report at the close of the season on the behavior of each variety, giving soil and exposure. Reports will be expected whether favorable or unfavorable.

NOTES ON VARIETIES.

WHITE ASH (Fraxinus americana).-Prefers a moist soil, but does well on dry ground,

BLACK WALNUT (Juglaus nigra). — Whereever this tree succeeds it should be cultivated from the standpoint of profit. The supply is becoming more scanty each year, with corresponding increase in price. It thrives best on

this is done in the fall they may be planted, setting down to the last bud in the soil, which should be well loosened. Roots will soon form, and a growth of three or four feet is quite common the first season. In setting large plantations in well-prepared ground, the cuttings can be set expeditiously by ploughing them in every third furrow.

RIGI PINE (*Pinus sylvestris rigaensis*).—This has been introduced into the Western States as an east European form of the Scotch pine, and superior to it as a timber and ornamental tree. It has given evidence of hardiness and adaptability to prairie conditions wherever I have seen it growing.

NORWAY SPRUCE (abisezcelsa). — More rapid in growth than the white spruce, but not so longlived in this climate. Its value for the extreme northwest is problematical, but its great vigor and thriftiness renders it worthy of trial.

AREOR VITE (Thuja occidentalis).—Though growing naturally in most situations, this tree succeeds well on high land, transplanted specimens often outstripping in growth those that have not been removed. Through the eastern provinces it makes one of the best hedges and wind breaks. A slight winter protection when the trees are young will help them to become established, and in a measure acclimated to the vicissitudes of the northwestern climate.

THE FARMER'S ADVOCATE.

Is Duck-Raising Profitable?

A correspondent of the Country Gentleman has this to say about duck culture. As he writes from some experience in the matter, his conclusions may be profitable :---

"1. The Pekin or Aylesbury ducks seem to be best adapted for purely economical purposes, having large bodies, white plumage, and a habit of extremely rapid growth. They are prolific egg-producers, and the eggs hatch well.

"2. My experience with the young has been that extreme care is necessary for the first two or three days after they are hatched, as they do not begin to eat or drink readily, even when twenty-four or thirty-six hours old. A little patience, however, in teaching them to eat will overcome this difficulty—if difficulty others have found it. When once they begin to eat they will need no urging, as anyone who attempts to feed a couple of hundred will soon find out.

"3. Their growth from the shell up to the time when they are eight or nine weeks old is simply marvellous. One can almost see their bodies expanding. But to sustain such a growth they must have a large supply of growth producing foods—milk, meat, bran, oats and whole wheat steamed, chopped clover steamed, and some corn meal, or better, cracked corn. To secure the greatest profit, the young stock should be marketed at about eight weeks of age. Prices in other years have been very good for young ducks at the proper season in the spring."

The Sitting Hen.

BY JAS. ANDERSON.

As some of our farmer friends will be purchasing eggs at this season for hatching from some of our leading breeders, a few hints as how to manage the sitting hen will not be out of place. The greatest danger of loss of the hatching eggs, is being exposed to severe changes of temperature. The hens may allow the eggs to get chilled by remaining off the nests too long, or may not cover them properly while on the nest; and the embryochick is destroyed. In very warm ather there is not so much danger of this. but in its stead comes the danger from want of moisture. When a hen steals her nest she invariably hatches nearly all the eggs. The time she leaves the nest in search of food is invariably in the morning before the dew is off the grass, and the feathers of her body become damp. When she returns to her nest this moisture is brought into contact with the eggs and keeps them in a favorable condition for hatching. I find a good way in setting a hen (but be sure she wants to sit firmly before putting valuable eggs under her) is to put a sod under her, which resembles Mother Earth, and when the weather is very warm I give a sprinkling of lukewarm water just before the hen returns to her nest. which prevents the eggs getting chilled. In the early stages of incubation the hen does not leave the nest so frequently as she does in the later stages, when the heat from the living chickens in the shell increases the evaluration and more moisture is required. Especially is this the case when hatching duck eggs under hens: we often find one-half of the eggs with full-formed, dead birds in them. The cause of this is want of moisture; they often cannot break the shell, then die. You often see the beak protrude, and they can get no farti : the chicken becomes fastened to the membrane of the egg for want of moisture, and cannot turn to enlarge the opening and free itself. When the the land.

birds come out healthy and strong, it is found the shell is broken more than half around before the chick can get its release. When this is the case there is plenty of moisture and the chick can work freely in the shell. When the chicken is found fastened to the shell it can be assisted by holding the egg for a short time in lukewarm water and dampening the membrane. It will not do to tear the membrane or remove more of the shell than is free from it, or you will kill the chick. You must not allow other hens near the sitting hen or you will be sure to lose some of your eggs. I generally put up a large shingle, have it fixed so it will slide up and down ; let all the sitting hens off for feed and water at noon, and when through my dinner go out and find them on their nest, put up the shingle and all is safe.

Poultry.

[An Essay read by Mr. Jas. Anderson before the South Wellington Farmers' Institute.]

He said that the rapid strides made in poultry in the Dominion was wonderful. Some eight or ten years ago the Ontario Poultry Association was inaugurated, and the Government granted \$600 towards it through the influence of the late Peter Gow, Esq. As a proof of the great interest taken in poultry, there were over ninety professional breeders advertising in the Canadian Poultry Review, a great many of whom made their living by the business. He next gave a synopsis of his experience in poultry raising during the past 25 years, having commenced in 1862 by trading a Berkshire boar for two pair of Light Brahmas, and paying \$6 express charges on the fowls from Baltimore. He had been breeding six or eight of the leading varieties of fowls ever since, and considered the Light Brahmas still to the front for general purposes and the Plymouth Rock for a farmer's use. With the mercury averaging from 5 below to 15 above zero, he averaged nine eggs a day from 12 laying hens. Another farmer with 45 hens got 1,218 eggs in three months. The diseases, he said, of poultry were not so numerous if they are kept comfortable and clean. He here described the different diseases they are subject to, and the proper mode of treatment. Continuing he said the turkey was the next bird in value to the farmer. It is a great forager, and picks up any amount of grasshoppers and other insects destructive to his crops. Among all the different varieties the Bronzes were the best, being the largest, hardiest and nearest allied to the wild bird. The Poultry Journal says :-- "After several years of depression, we are again on the crest of a wave of universal interest, which all lovers of fine fowls fondly hope will put the fancy where it ought to be-high in the esteem and favor of the people in general. The mission of the poultry breeder who aims at the highest type is not a lowly one. No other product of Canadian industry is more important than the poultry product; few other products can be produced in every nook and corner of our broad land by every farmer and villager, and every city resident who can command a tew square feet of yard room. This product is, in dollars and cents, the most important of our agricultural products, yearly excelling in worth the combined value of cattle sheep and hogs. Anyone has only to consult the statistics of either Canada or the United States to prove this. It was ordained from the foundation of the earth that the poultry business should never be monopolized. No trust can prevent every family in the land from raising their own fowls and eggs. A pound of chicken is better than a pound of beef, and costs less to raise it, and good fresh eggs are fit for Her Majesty, and may be enjoyed by the poorest in

May Management. By R. F. HOLTERMANN.

The management of bees during the month of May is very important. Some adopt the system of breeding up poor colonies at the expense of the weaker, and some very good authorities do this. It appears to me, in these days, when the hive and combs cost as much, and sometimes more, than the bees on them, it does not pay to try and build up colonies which can barely carry over at the expense of the strong. I would sooner let the strong colony push forward as quickly as as it can, and let the first swarm occupy the empty hive and combs of the colony which might have been made to carry through. I am inclined to think that such a system will give the better results. By this time every one should have decided if he shall run for comb or for extracted honey, but many wait until the last moment to order their supplies. The general impression appears to be that a farmer had better raise comb honey, because there is less work about it. That is true; but there are other very decided disadvantages for the farmer in the taking of comb honey. Every colony will not make comb honey to advantage. One having a few colonies has generally neither the time or experience to judge which colonies are best adapted for taking comb honey, and next, he has not enough to select from. A colony which will give good results with comb honey is sure to do so taking extracted honey. Next, it takes more experience to produce comb honey. Colonies have to be kept near the swarming impulse yet not have it. If plenty of room is given, sections will not be well filled, and if not enough, swarming may be the result. Sections must not be left on too long or their appearance may be injured and the product become unmarketable at good prices. Again, as a rule the farmer cannot watch his bees as closely as the specialist in bee-keeping, and the danger from swarming in the taking of comb honey is very great. For the above reasons it is advisable to take extracted rather than comb honey Be sure and put supers on the hive too early rather than too late. When the bees crowd the lower story it is safe to put on supers, if it be in the month of May. If the bees are examined every day, I should say wait until you see the comb cells drawn out near the top bar, having a white, fresh appearance. But with the farmer it is generally not safe to do this ; his attention is often not closely riveted on the bees, and before he knows it (a day or two may do the work) the bees are losing for want of room, and the swarming impulse is on ; therefore, put the supers on in plenty of time. Should the night be cool, try and remember to contract the entrance. As I have before stated, try and get the little boys and girls interested in the bees; give them a small percentage of the honey, and it. will keep their minds occupied and teach them business habits, which may be very beneficial to their material prosperity when they grow up.

188



If there was any plant that I-would recommend for honey alone, it would be the raspberry; it continues in bloom for three weeks, and a peculiarity about it is, that bees will be working upon it immediately after a hard shower. The heads hang down, and the rain does not wash the honey out.

MAY, 1891

91

of m of

he 08

to ry ld 8.8 m

ny h.

ne

Or

ıst

-al ad

888 ler he

ot 8

or st

8.8 ill do ore ies et

ns

n٠ be

be

ole

ler ist ng or

et-

·ly

he in ed

he

ng er

on nd he

nd

he ht

he

et s ;

ch

ry

en

it

8

ng

he

THE FARMER'S ADVOCATE.

Family Sircle.

Beason Versus Love.

"Cheoping !-Tom, man, can't you feel "Tis a danger to your broken wrist?" "Yes, I feel it, but a dollar From my purse would soon be missed, And besides, sir, there's a br'de, sir, (Oh, I know whereof I speak), And I wait no longer for my heart is stronger Than a broken bone is weak,"

"Good man Tom, the heart's not all, sir, Heart needs hand and head; Haste is folly; often patience Swifter to falr end has sped." "But the lassie, bonnie lassie— You know not the one I seek— She is willing, she is waiting, And we marry Easter week."

"There is need for care dear fellow, Time may weave the hidden snare: Grim the skies may grow and dreary, And some hour spring up despair "— "Be all these things as they may, sir, I shall neither pine nor peak If dear Cassie, my own lassie, Marries me in Easter week,"

"But, my man, in all things Reason Should your guide and helper be "---"Reason's good, but there's another Better rule than that for me--That is love--the sure-foot fellow--He is all the guide I seek; Care says "tarry "-love says "marry," And we marry Easter week."

-Robert Elliott.

AFTER LONG YEARS.

Miss Phyllis Blunt had danced all the evening at a ball at her next door neighbors, the Harveys. She wore a pretty pink dress, with a little lace-trimmed pocket at the side. Her principal partner was young Herbert Harvey, who was deeply in love with her, but had never told his love. On this night he had written a letter, which by adroit management he contrived to place in the pink pocket aforesaid. It offered her his hand and ended:--

If you do not answer I shall know that you can-

"If you do not answer I shall now that you take not love me, and shall go away." No answer came to him. Phyllis had sent the dress, pocket and all, away in a box to the wardrobe, where she put dresses she was weary of. She had not looked into the pocket, and knew nothing of

not looked into the pocket, and knew nothing of the letter. Harvey took silence for refusal, and left the country within a month. In a year pretty Phylis was dead. Nobody knew it, but she had broken her heart over the departed lover. And so one romance ended. Our story is of another. Twenty years had passed. Moss grew on the white stones over the breast of Phyllis Blunt. And at the old place her brother lived—a widower, with one daughter. Looking up at the house from the roadside you

He mended the fences, repaired the verandas, kept the lawn and garden in order, trimmed the treas, and flourished a long-handled duster among the cobwebs that gathered so fast in the long, low-

hung hall that the spiders loved. Everywhere the rich old furniture, with little upholstery and much carving about it, resisted

upholstery and much carving about it, resisted decay. Unless you had stayed to dinner on a meager day, you would never have guessed that anything was wrong ; and then the table would have been set with old china and good cutlery and silver spoons. Neither did Mr. Blunt's great Panania hat, indestructible and costly, or bis well-laundried linen suits tell anything. Other women knew that Miss. Phyllis had not a good gown to her name; but a man would have thought the afternoon dimity, made out of an old extra pair of bedroom curtains, very good indeed, when she pinned one crimson rose at her throat and another in her black halr. The last of a large family early gathered to the tomb, following their consumptive mother thither only a year or two apart, Phyllis at eighteen, was the picture of health. The family sorrows were not hers. All wits over when she was born, and life was before her, and her home was lovely, and she felt as much above common folk as a queen. Only asking for housekeeping money and having no wardrobe to speak of worried her, until the make-shift was concocted. Phylis had rummaged the garret for years, and

shift was concocted. Phyllis had rummaged the garret for years, and had made a cloak out of a brown table-cloth lined with a long, flannel petiticoat that had been hers as a baby, had raveled footless silk stockings, and knit them over for herself with cotton tops, and the beaux who dropped in on an evening admired her greatly.

the beaux who dropped in on an evening admitted her greatly. It had been a trying day. Mr. Blunt had been quite tragic since dawn, and had decided to part with the horse and carriage. This was a blow. Job wept under it! Miss Phyllis turned pale, and had not the heart to put roses in her belt. Mr. Blunt had remarked that it would be just as well not to send the balter away, because he would need that to hang himself with. But attea time they had preserved apricots and bread and butter with a beverage. Phyllis found a letter at her plate, and, opening it, read this :---

plate, and, opening it, read this :--"DEAR MISS PHYLLIS:--Uncle Herbert is com-ing home and we are going to give a party for him. He has been away twenty years. I never saw him before, and I have made up my mind it shall be a fancy dress. Come in some character. It is not a masked ball. Papa disapproves of masks, but it will be fun. "Come early to see the arrivals. Won't you beg your dear father to break through his rule for once and join us? We should be so honored. He needn't costume unless he chooses. The elder peo-ple will be allowed to do as they like, but you must my dear. "BELLE."

"Oh, papa!" cried Phyllis, all her sadness gone on the instant. "You'll come, won't you'?" "You have not stated where," replied Mr. Blunt, in his sternest voice. "To a fancy dress ball, papa, dear!" replied she. "I, who sit here waiting for the complete down-fall of our family—I, who will leave you soon a beggared orphan—go to a fancy ball!" cried Mr. Blunt. "Not another word!" "Oh, papa! Then I mustn't go either!" almost sobbed poor Phyllis.

" Poor auntie, I don't remember her," sighed Phyllis, "but Job, I think I'll take the dress down-stairs. Carry it down for me, will you?" "Yes, Miss Phyllis," said Job; " and excuse me for offer-ing one word of advice. I'm of opinion that if that dress seems to you to be suitable for this ball you need'nt have no scruples of conscience about wear-ing of it. Miss Phyllis would have the honor of the family at heart for you to drees well, and she was just your build. That dress will fit you like skin, Miss Phyllis, and if your aunt were alive she would say wear it my dear child and be bappy." " I'm ure," thought the girl. as she tried it on before the glass, "Job is right; my poor little auntie would never, never care. I shouldn't if I were she, and it's the pretitest, quaintest thing." Then she brushed her hair into a smooth, bat's-wing style of the period, and saw a picture so like the portrait of her aunt in the parlor below that she almost screamed. Bhe wore it to the ball. How pretty she looked I How quaint! How sweet! And who ever lacks a complement when gentlemen are near to wisper it I The sweet intoxication of flattery that is founded on fact had thrilled the girl's young blood before her hostess found the lion of the evening and brough him to the spot where Miss Phyllis stood among heradmirers. A handsomeman of forty-five, young enough in all outward seeming to be still charming; tall, broad-shouldered, picturesque; with no grey in his hair as yet, and with his own splendid teth. For the first time in her life the girl's heart flutered. "Uncle, this is my friend, Miss Phyllis Blunt," edid the young beginses "Phyllis dear Mr Hasher'

"Uncle, this is my friend, Miss Phyllis Blunt," said the young hostess. "Phyllis, dear, Mr. Herbert

"Uncle, this is my friend, Miss Phyllis Blunt," said the young hostess. "Phyllis, dear, Mr. Herbert Harvey." Then the poor creature fluttered away, and the rest of the ball was Mr. Herbert Harvey to Phyllis. We all know what that means. For his part, Herbert Harvey went home with strange sensations in his heart. It seemed to him as if he had once more seen his Phyllis. He had read her name on the mossy tombstone in the graveyard, and the barb of that unanswered letter had rankled in his heart his whole life through; but here, fresh and young again, with a look in her eyes that seemed to say to him : "Try, and see if you can win me." she stood in the person of Phyllis Blunt, her niece, actually in a gown of the same pattern. He did not know it was the very same, with the pink pocket a its side, into which he had slipped the letter twenty years before. He dreamed strange dreams that night, in which twin girls in rose-color ran before him. One was his love, one his vision; but whichever he grasped proved to be the ghost, and melted in his grasp to nothing. At dawn he slept. He still slept at eleven o'clock, when Phyllis, in her dimity morning-robe, made out of disused bed-curtains of her grandmother's, folded the ball-dress in its box again. She er-amined it closely. How well they used to seew; no slighting as we slight our dress-making, and this pocket—how perfectly every stitch was set ! She took out the kerchief, and, what was this? A letter -a little, faintly perfumed thing-with her name upon it :--

upon it :

MISS PHYLLIS BLUNT.

She opened it, her heart beating wildly. It was an offer of marriage from Mr. Herbert Harvey. What a strange, romantic thing to do-a man of five and forty-a rich man, a man of the world! It was love at first sight, and what she had al-ways longed for. And she knew she also had fallen in love with him. She was sure now. All the morning Phyllis was in a dream.

189

would assuredly have believed that the people who

lived there were rich. It was the residence, you would naturally have said to yourself, of people of means. And being unblessed with real estate, you might have sighed, with a little spice of envy, for folk who owned such a solid dwelling, such rare old oaks, such a smooth-shaven, green, velvet lawn, such a garden, and yes, such a gardner. There he was now among the roses; but when you have three wishes given you by a fairy, it is wise, as the old tale proves, never wish yourself anybody else until you examine into the private affairs of that indi-vidual.

you examine into the private affairs of that indi-vidual. In the story I allude to, the wisher wished him-self "that king there," seeing him in a magic mirror, and, behold ! he was transformed into a monarch who had been conquered, and was about to be put to death by decapitation. Thus the envious admirer of his property, who had wisned himself Mr. Blunt because he thought him a rich man, would have been greatly astonished to find himself sitting before an old oak desk, trying in vain to arrange chaotic papers, which, when in order, only proved that he was dreadfully in debt; or to see his daughter waiting behind him, with trembling anxiety, knowing that he could have no dinner but salt pork he so hated, unless, by chance, he had a little money about him. If he had, it all went well; but, alas! if he had not, he would turn his wild, black eyes on her, when she had spoken twice or thrice, and with his fine, curling white hair, would ask her, in tone of Lear-like reproach, where she supposed he could have gotten money ? He !

nne, curling white hair, would ask her, in tone of Lear-like reproach, where she supposed he could have gotten money? He ! It was in the old days when a gentlemen might not work, and that wonderful gardener was their only servant. He was older than Mr. Blunt, and prouder of the family. He did the cooking. He did all the work except that done surreptitiously by Miss Phyllis in the privacy of parlor and bed-room.

There is a fascination to people of his race in making believe a great deal, and old Job spoke of his fellow-servants, gone long ago, as though they were about the place still, and, through his zeal, it looked as well as a rear looked as well as ever.

beggared orphan-go to a rate; bait. Crist and Blunt. "Not another word !" "Oh, papa! Then I mustn't go either !" almost sobbed poor Phyllis. "You're a woman." replied her father. "The Turks think women soulless. I am not sure but that they are right. However, I am too poor to give you a ball-dress." "Oh! I can make up something out of nothing. It's my one talent," cried Phyllis. "But let me tell you the occasion. They say your presence would be an honor, and you might like to meet

"Not another word!" cried Mr. Blunt.

"Not another word!" cried Mr. Blunt. His obedient daughter held ner tongue, finished her bread and jam, and, having called for Job to clear away, went up into the garret with a candle. "TII go as King Cophetua's beggar-maid, in artis-tic rags, if I can't do any better," she laughed. She looked the old bureau through, the old chests, the old wardrobe, fruitlessiy. Several years of foraging had emptied them. But on the top of the wardrobe, quite out of reach, stood a long paper box.

foraging had emptied them. But othe top paper wardrobe, quite out of reach, stood a long paper box. What might it not contain of rumbled gauze or lace that might be "done up," or silk that might be cleaned? Phyllis turned on her tiny toes and tripped down the garret stairs. "Job!" she cried, "come here and get that box down for me off the wardrobe in the garret." Job stumped upstairs, set an old table against the piece of furniture, and climbed up. On his way he stumbled and fell, the box burst open, and spread abroad on the garret floor lay a pink dress of old-fashioned silk, a bow of ribbon to match, a fan and a gauzy scarf, all little bobs and fringes. Yes, and a little muslin bag, from which protruded the toes of a pair of slippers, and gloves all rose-color and white. "Why! has my fairy grandmother been here?" know, miss." said Job. "That dress was worn by know, miss." said Job. "That dress was pretty, just like they call you. She was pretty, just like you, Miss Phyllis; just like you. And she went to a ball in this dress, so bright and lively and happy. She came home pale and wan, and she sent this dress all folded up in the box up into the garret. Said she never would wear it no more. She hated it, and she never did. She died early Miss Phyllis—that's the story, miss."

All the morning Phyllis was in a dream. That afternoon she wrote this answer:-

"DEAR MR. HARVEY :- On reaching home I found your letter in my pocket. Since you say silence will mean refusal to you I reply. But you know so little of me—are you sure your feelings

know so little of me-are you sure your feelings will last? "You may call if you like; papa will be glad to see you-so shall 1-but before you do, let me tell you I am a poor girl, indeed. Everything is going from us-even our home, I fear. Even Job stays with us out of love, and though my costly dress last night might make you think I had some money. even that was an illusion. "It was a dress an aunt of mine, who died young, left behind her, else I could not have been at the ball.

ball. "I conceal nothing; but you ask me if I like you. Surely as well as I could like a gentleman I had seen but once, and perhaps I could like you more; but we must know each other better.

PHYLLIS BLUNT."

Job took this note to Mr. Harvey, who awoke from his strange dreams to read it. He understood it all. Poor Phyllis had never found the letter. It had remained in the little pink pocket twenty years for her niece to answer; and he shed tears for the first time since he left his babyhood behind him.

him. However, he called that evening on the new Miss However, he called that evening on the new Miss Blunt: and they are married now, and his wealth has restored the old place, and its master is happy. And Phyllis, who loves her husband so well, will never dream that she answered her aunt's love-letter. It is a secret buried in the depths of that chivalrous bosom on which she reposes.

Young lady tourist (caressing the hotel terrier, Bareglourie, N. B.)-"Oh, Binkie is his name He seems inclined to be quite friendly with me. Waiter-"Oo, aye, miss, he's no vera perteec'lar wha he taks oop wi' ! "

ADVOCATE. FARMER'S THE

190

Minnie May's Dep't.

Bedtime Fancies.

Out from the corners and over the floor Come flocking and flocking the shadow band; I will get in my little white coach and drive Through the Valley of Dreams into slumberland.

I have four black horses that Night has lent, I call the name of my coachman Sleep; And the little white coach is cozy and soft, As I nestle down in its cushions deep.

Heighol we are off. The horses go slow At first, then fast and faster still, With silent hoof-beats speeding on, Down to the foot of the Drowsy Hill.

This twilight place is the Valley of Dreams, Where all the wonderful dream things are, And the balsam groves and poppy fields That stretch on ever and ever so far.

The dream forests rustle their secrets out, The lights of the dream town twinkle and shine, And the white dream-ships from the harbor sail Away to the dim horizon line.

Ah ! the sounds of the Valley are growing faint, Its sights are fading on either hand, I cross the border still and dark, And enter the real Slumberland.

-Virginia Cabell Gardner in Independent.

My DEAR NIECES :---

One of the principal secrets of success is pluck, and where that is lacking other qualifications do not count for much. More women die from "can't" than "won't," and in this age women's responsibilites are just as great as a man's, so do not sit down in despair when you have made a failure, and attribute it all to being a woman. No ; be honest and confess you did not do your best. Try again, and just see if success will not crown your second and best effort. In the life of every woman there comes special trials that demand special courage, and it is our duty to be prepared for them. Fainting is a cowardly way to get out of a difficulty ; but to act a brave and resolute part is to lighten the burden and gain strength instead of losing it. The Honorable Joseph Howe, of Nova Scotia, in his essay upon the moral influence of women, says: "The influence which women exercised upon the spirits of their age, on the character and fortunes of their country, has been in exact proportion to the neideration in which they were hold and the rational freedom which they enjoyed. When treated as slaves and inferior beings they have invariably degenerated, as man himself does when so treated, in body and mind ; but when regarded as rational beings, as the friends and companions of the other sex, as the wives and mothers of statesmen and warriors, they have constantly shown an elevation of soul, a susceptibility to the impressions of patriotism and national glory, a readiness to sacrifice even the heart's best affections to the interests of their country and the reputation of those they loved, which justifies the high place that they occupy in the history of the more civilized nations of the world." You may think, my dear girls, that a woman's sphere is a narrow on?, and what little you can do is not worth doing; but let me ask you how much of the destiny of our fair Canada is in your hands? Never undervalue the character of your own influence, or the extent of your moral obligations. We are proud to call Canada our own ; and what has Canada to sustain her but the character, the intelligence, the energy, and self-devotion of her people? Let it be your constant aim, your study, and your pride to cultivate those qualities and to inspire your brothers, husbands, lovers slow oven ; ice with brown sugar icing ; half a and children with the sentiments from which cup of milk and one cup of brown sugar; boiled they spring. You can teach the idlers and five minutes; stir until stiff.

triflers of our sex that Canada has neither hands nor minds to spare. That their favors are to be won only by those glorious "labors which embellish life." In the full enjoyment of all the liberties and privileges, such as no women of any civilized nation enjoyed before, what is to be expected of us ? "Each of us can do our little, until it merges in one grand whole, and as time goes on will mark its impress on the MINNIE MAY. destinies of our country."

Minnie May offers the prize of \$2 for the best essay. Subject, "Are the Mental Faculties of Women Equal to Those of Men ?" All communications to be in our office by the 15th June.

Some Tested Recipes.

Scrape three-quarters of a cup full of maple sugar into a dry saucepan, put it on the stove and stir until it boils and begins to burn, stir in one wine-glassful of water and set aside; put one and one-half pints of fresh milk to boil, and stir in three parts of a cup of flour, mixed smooth with a little milk, let it boil until perfectly smooth, sweeten with brown sugar; then stir in the maple caramel; set aside to cool, and serve. in a pretty glass dish. It can be flavored with vanilla or lemon.

SPRING SALADS.

Slice in thinnest slices a part of a nice white cabbage, put in a vegetable dish or salad bowl, and ornament the top with slices of pickled cucumber or red peppers ; mix one tablespoonful of melted butter, half a cup of vinegar, and a teaspoon of mustard, pour over and serve.

POTATO SALAD.

Slice in thin slices six well-boiled potatoes : arrange the pieces neatly in your dish, and ornament with sprigs of parsley; boil two eggs hard; take the yolks and mix smooth with a little melted butter, pepper and salt; add half a cup of cream and serve ; cut the whites of eggs in slices, and ornament the top.

CARROT SALAD.

Fashion Notes.

MAY, 1891

Where shall I begin to describe the bewildering beauties of dresses and bonnets this May morning ? The colors are lovely, textures fine, and the variety endless. Gauze ribbons are among the novelties for hats. They are beautiful in color, but rather high-priced, as such novelties usually are, and I would not recommend any of my readers, who can only indulge in one new hat, to have it trimmed with gauze ribbon. It does not seem serviceable. The variety of shapes is endless, and all styles of faces can be suited. The pretty little bonnets for babies are very dainty, being in all shades. even to cream and white, and they are universally becoming to the darlings, too.

Parasols are in all shades, patterns and stripes, colored and plain. Long handles are still in favor, but if you are the fortunate owner of a short handled one, just rest content, for this fad has not all to recommend it. They are heavy to carry and awkward in many places-tram cars, for instance.

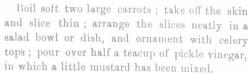
Gloves to match any shade of dress are to be had in almost all prices, and the dress goods never were prettier, or in greater variety of pattern and color.

Plaids are in some of the prettiest, but they do not seem to be much admired. Henrietta cloths are among the favorites. They wear well, do not crease, and embrace every shade of color,

Small mantles, heavy with jet lace or fringe, are pretty and snug for these chilly days, and may be had in all prices in silk, brocade, plush or fancy mantle cloths; and you can have them made at home from a pattern. They are very simple in design.

Jewelled lace is seen on summer bonnets, but it has a tawdry look, and will not be worn much, besides being very high-priced; and a smart shower or heavy dew would render your bonnet a thing to be scorned.

The favorite washing dresses are out in great variety, Scotch ginghams and Oxford shirtings being amongst the prettiest patterns, but our old favorite prints never were prettier, neater nor in greater variety. Prints can be made at home, and are cool, neat and lady-like for summer wear.



BEET-ROOT SALAD.

Boil two beets tender, skin them and chop fine, with as much nice white celery ; heap it up in a salad bowl, and sprinkle a little salt and pepper over.

ONION SALAD.

Slice thin two raw onions, and pour over them half a cup of sharp vinegar, pepper and salt toss up with two spoons, and serve with cold meat.

ROLLED BARLEY PUDDING.

You may use what remains from breakfast, or put it raw into your pudding dish, it will take a little longer to bake; cover with milk; add sugar to taste, and eggs enough to make a custard. Any flavor you prefer.

PICNIC CAKE.

One cup of butter and two of sugar beaten to a cream ; add five eggs beaten separately ; three cups of flour, and half a cup of milk, and two teaspoonfuls of baking powder. Bake in a very

In sateens, some startling patterns are shown, both in color and design. Many are imitations of China silks, but the texture of sateen is too soft and apt to crease.

Hosiery, in black and colored, is in endless variety; and handkerchiefs bright, cheap and prettý.

Flowers figure on all bonnets and hats, from the simple daisy to the showy cornflower; but white nor cream flowers are not in style this season. All the brighter shades are shown, and buttercup yellow seems to predominate.

All petticoats are made with a yolk, to which the fullness is attached.

The white skirt is seldom seen in the street. Colored skirts are universally worn, and are made of a variety of materials, the preference being given to silk. Many ladies make over old dress skirts for this purpose.

Plaid or striped ginghams are much used for washing skirts, and always look cool and fresh. Many ladies have discarded the cotton chemise and wear the Jersey shirts, which can be purchased in all materials from silk to union. They

der-

May

ine,

are

uti-

such

om-

ulge

auze

The

s of

nets

des,

ver-

pes,

l in

of a fad avy ram

o be sboc of

hev etta vear e of

nge, ays. ade, ave are

but ich, aart et a

reat ings our nor at um-

wn, ions

too

less

and

rom

but

this

and

nich

eet.

are

ence

old

for

esh.

nise

pur•

hey

THE FARMER'S ADVOCATE.

fit the figure snugly, and are light and comfort able.

Corsets are rapidly disappearing from a lady's wardrobe, and no young girls wear them. In their place they have double cotton waists, neatly fitted to the figure, and bone-buttoned in front, and they keep the figure trim without the compression of the corsets. Two such waists are necessary, so one can be laundried.

House gowns, or tea gowns, continue to be very popular, and are comfortable, as well as cool. The back is always tight in Princess form, and the fronts partially fitted by darts. Then the remainder of the front is left loose, being usually confined at the waist by a short strap to keep the fullness in place. The shoulders, neck and sleeves, in fact all the gown, should fit accurately. The sleeves can be worn of any shape the fancy dictates, and the skirt

Summer

Oh! summertime, of lovely flowers, And gentle gales, of scented bowers Sweet perfume lingers every where ! In blossoms sweet, of fruits so fair; The meadows, where the new mown hay Scents the air all through the day.

The sky, with clouds of azure blue, Each day brings us beauties new. Lovely river flowing by, Bears the breeze of summer nigh. Birds of beauty, singing free, Carrol songs in joy and glee.

Lambs are skipping o'er the grass-The animals seek the shady dell, And drink the water from the well. Children, playful, dancing by, Pick the flowers and berries nigh.

Insects, flies, and buzzing bees-Lovely butterflies we see. We shall seek the pleasant shade, And praise our God, who all bath made. Scents of summer. oh! so fair, What shall now with it compare! -H. S. Pickett.

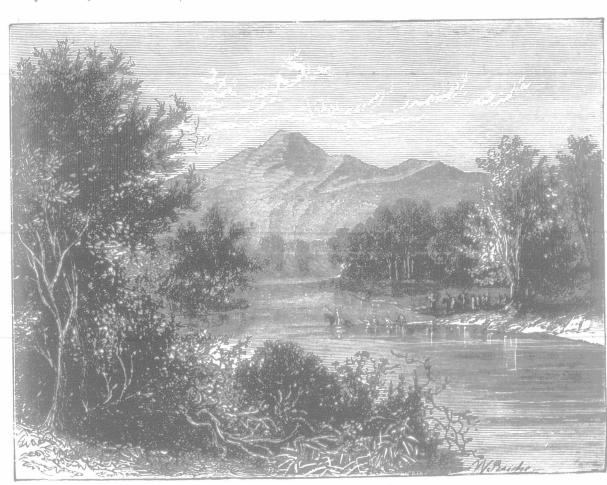
Our Library Table.

Illustrated Family Herald, \$1.00, is all that it represents itself to be, containing reading for young as well as old.

People's Illustrated Journal, \$1.00. Must be seen to be appreciated, containing, as it does, a large amount of sound reading.

The National Farmer comes to us as bright and readable as ever.

The Herald of Health, box 441, New York. For readable, reasonable, well-written articles; the Herald of Health heads the list, and the chapter upon the proper exercises for developing muscles in women must be read with both interest and profit ; and if the rules for good health were observed by all as laid down in its pages, there would be no sufferers in the world. Price, \$1.00 per year.



191

SUMMER.

may be short or trained, and may be made of any material, from silk to calico, or batiste or sateen.

The blouse waist is still a favorite for widows and morning wear, and is useful to wear with skirts whose basque is no longer presentable, and can be made by any young woman handy with her needle and scissors.

The new dress materials come in all sorts of small figures, checks and stripes, and in all cheese cloth, or some other soft cotton material. prices, from twenty-five cents to one dollar per yard ; and in texture they are soft, and graceful in folds. The light shades of brown, tan and gray seem to predominate ; but from the diversity of colors shown, no color will be more worn than the other.

Women who are approaching middle age should not wear an entire costume of black, as it deepens the lines on the face and renders the able in a thing of this sort ; it should be hung age more apparent.

Duster Bags for Use.

There is something exceedingly amusing to a practical housekeeper in the elaborate directions given for making duster bags out of satin and silk elaborately ornamented with embroidery. The first essential of a bag that holds the duster is that it, like the duster, can be laundered. It is a very convenient and neat practice to keep on hand a supply of well-hemmed dusters of A pretty bag of colored linen, red satine or any other washable material is suitable for the making of duster bags. A spider, weaving his geometic web, or any other appropriate design may be used to ornament it. It may be decorated in various other South Kensington designs, making it a veritable thing of beauty. There is no necessity for resorting to such unsuitable ma-terial as satin or silk. Even a ribbon is unsuitup by a ring of wood or gilt.

The Domestic Monthly, published at 853 Broadway, New York, is out in an entirely new cover. It contains a great number of illustrations of fashions and home art, besides many well-written stories and short articles.

A Credit to Canadian Journalism. - Those persons who have not seen the Dominion Illustrated since it has been so much enlarged and improved should secure a sample copy at once. Both from the literary and artistic point of view the Illustrated is a credit to Canadian journalism. Published in Montreal every week.

Demorest's Family Magazine, New York, for March, contains a well written article upon the "Care of Palms" in the drawing-room, as they are now the fashionable ornamentation for indoors, and it is profusely illustrated as well ; and an ably written chapter upon physical culture, with diagrams, is well worth the perusal. Kitemaking as the Chinese do it, with illustrations,

ADVOCATE. FARMER'S THE

MAY, 1891

192

would win the admiration of all boys, and various other articles too numerous to mention make a very attractive number. Price, \$2.00 a year.

Good Housekeeping, Springfield, Mass., begins and ends with everything to tempt the housekeeper and encourage her to higher flights, and all is made so simple and plain, even a novice can do anything by the rules laid down. A number of miscellaneous articles complete this useful magazine. Price, \$2.40.

Useful Hints.

Dirty glass bottles may be cleaned with egg shells, sand, or common coarse salt.

Dip brooms once a week in hot soap suds, and they will wear much longer.

Take blood stains out only by saturating the spots with kerosene, then wash out with slightly warm water. Repeat this if not entirely removed.

Do not allow ashes, pie-juice or cinders in your oven. Keep it clean.

Bake all cakes with a folded newspaper between the pan containing them and the bottom of the oven.

Mice object to camphor gum, so it may be sprinkled around their haunts.

Rub tins with newspapers to make them shine. Banish red ants by keeping a small bag of sulphur where they frequent.

Keep spices, bottles of extracts etc., well labelled, so mistakes will not occur.

After the juice is squeezed from lemons, the peels are useful to rub brass with, dipped in common salt, then brush with dry bathbrick.

Serve cabbage thinly sliced, raw, with a dressing of melted butter and vinegar poured over it for a variety.

A Regular Allowance.

One method would be the granting to the wife of a stated weekly or monthly allowance, for the household and other uses, in proportion to the income of the husband. To the man who says,

Prize Essay.

THE BEST AND MOST SATISFACTORY WAY OF UTILIZING A SMALL SPACE OF GROUND FOR FLOWERS TO HAVE BLOOM FROM THE EARLY SPRING UN-TIL LATE AUTUMN.

BY MRS. S. ROBINSON, WELCOME, ONT.

There are many who really love flowers and would like to cultive them, but are prevented from doing so because they think that too much time and trouble are required to make them a success.

Of course it takes time and some trouble, too, to raise flowers successfully. There is nothing worth having but some trouble must be expended to obtain it. The true lover of flowers, however, will not be deterred from cultivating them by these considerations, for in their successful cultivation will be found ample recompense for all labor bestowed upon them.

Of course the average farmer's wife finds very little time to devote to a garden. Her household duties are generally too exacting to admit of much leisure; but if one thoroughly enters into the spirit of gardening, the culture of flowers will be regarded as a pleasant recreation instead of another link in the chain of the home drudgery.

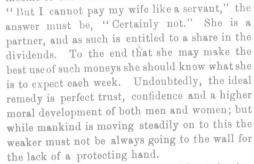
If your time is limited it is useless to attempt the cultivation of a large space of ground. A small plot well cared for will prove more satisfactory and will produce flowers from early spring until the approach of winter. As to the form of your garden, the space at your command must determine it. I have seen a narrow border look beautiful all summer long, and a brilliant display can be obtained from a circular bed.

For early spring flowers one must depend on hardy bulbs. These must be planted in the fall. Snowdrops, scillas, crocuses, hyacinths, narcissus, early and late tulips keep up a succession until bedding plants are ready to take their place. Showdrops are the first to greet us in the They are not showy, but who does not spring. regard with pleasure the small white flowers so bravely blooming while snow and frost still surround them. Closely following are the pretty blue scillas, and the bright crocuses. How lovely they are ! What a mass of golden yellow, and purple, and white ! How the bees revel in their dainty cups, and what delightful suggestions of coming beauty do these early flowers bring. For even before they are all gone the early 'tulips and hyacinths are bursting into gorgeous bloom, and we forget our first bright harbingers while admiring the brilliancy of their successors. There is generally a scarcity of flowers in a small garden after the bulbs have done blooming, but if one has perennials there need be no death. Daisies, forget-me-nots, primroses, pinks and violets bloom in spring. It is also the season of the lily of the valley, and if you have planted pansies the fall before they will blossom abundantly at this season. In June, aquilegias, canterbury bells, feverfews, foxgloves, pyrethrum, sweet william, and peonies are in their glory, and before they are faded most of the annuals are in full bloom.

and zinnias. The aster is a late bloomer but it is superb in August and September. Ageratum is not showy, but the peculiar shade of its blue flowers is lovely for contrast in bouquets. Phlox and verbenas, when massed in colors that contrast or blend well, make a fine display. Petunias have not so much variety in color, but they make a grand show all summer long. For late blooming nothing can equal chrysanthemums, calendulas. phlox, petunias, stocks, and verbenas. I have gathered flowers from these when everything else was completely destroyed. To insure constant bloom, seed must not be allowed to form. For perfume, mignonette is unrivalled, and no garden is complete without it.

To have your annuals early, it is necessary to give them an early start. One can start a few boxes of seeds in the house; but I use a small hot bed for most of my seeds. It need not be an expensive affair. You can grow a number of plants in a frame eight feet long and three feet wide. Instead of glass, I use a frame covered with oiled factory cotton. When it is likely to be cold, I cover with some thick material to exclude frost. By this method I can have my plants ready as soon as it is time to set out bedding plants. Most of the seeds will do nicely sown in the border when the weather becomes warm; but to have verbenas and stocks bloom early it is necessary to start them in the house or hot-bed.

In arranging various kinds of flowers in beds, individual taste is generally the guide. Some prefer planting in rows; others in masses or clumps. If you have only a border, it will be better to plant the tall varieties at the back ; the low ones near the margin. The annuals can be planted between the bulbs without disturbing them. For beds, phlox, verbenas, petunias, and tom thumb nasturtiums, are very suitable. They make a finer show in beds massed together than in the border. The border is generally well occupied with perennials, and there would not be sufficient room for large masses of color. Gladiolus and dahlias, also zinnias are fine for



No woman ought to marry without having some understanding with her future husband on this point. She need not take pencil and paper and make him set down the exact figures of her weekly allowance, but should let him thoroughly understand that she expects one. Any young girl should beware of the man who considers women irresponsible creatures ; for, no matter how tender and considerate the master may be, no enlightened human being is happy as a slave.

The truest confession of love to God is made by deeds of love to God done to our fellow-men in his name.

Do we know anybody ? Ah ! dear me, we are most of us very lonely in the world ; you who thank God.

The following annuals are all good bloomers. and a selection can be made from them. Ageratums, asters, balsams, chrysanthemums, calenhave anybody who love you, cling to them, and dulas, calliopsis, marigolds, nasturtiums, phlox, petunias, sweet peas, stocks, verbenas,

border plants.

There is generally a little nook in the farm garden which can be devoted to wildflowers. Hepaticas, dicentra, trilliums, wild violets and ferns can all take care of themselves when once established. It will be a spot full of beauty, amply repaying you for the little trouble you have taken with them.

It is too much trouble to have a variety of plants to look after. One bed can be utilized by planting it with bulbs for early spring flowers, and afterwards filling it with geraniums. A bed of scarlet geraniums makes a grand display. But if you use geraniumus your bulbs would have to be planted quite a distance apart, or else taken up after flowering. The roots of geraniums encroach more than seedlings, and it would disturb the bulbs too much when you lifted the plants in the fall. Seedling plants can be obtained from florists, but of course it is more expensive than raising them yourself.

If you once begin to take an interest in flowers you will soon understand their nature, and will find no difficulty in having a constant supply of bloom from early spring until late autumn.

One day while Gertie was watching a pet lamb which was quietly chewing its cud, she ex-claimed, "O grandma, see! Grandma's little lamb is chewing gum.'

MAY, 1891

THE FARMER'S ADVOCATE.

On Cats and Dogs. BY JEROME K. JEROME.

What I've suffered from them this morning no tongue can tell. It began with Gustavus Adolphus. Gustavus Adolphus (they call him "Gusty" downstairs for short) is a very good sort of dog, when he is in the middle of a large field, or on a fairly extensive common, but I won't have him in-doors. He means well, but this house is not his size. He stretches himself, and over go two chairs and a what-not. He wags his tail, and the room looks as if a devastating army had marched through it. He breathes, and it puts the fire out.

At dinner-time, he creeps in under the table, lies there for a while, and then gets up suddenly; the first intimation we have of his movements being given by the table, which appears animated by a desire to turn summersaults. We all clutch at it frantically, and endeavor to maintain it in a horizontal position; whereupon his struggles, he being under the impression that some wicked conspiracy is being hatched against him, become fearful, and the final picture presented is generally that of an overturned table and a smashedup dinner, sandwiched between two sprawling layers of infuriated men and women.

He came in this morning in his usual style, which he appears to have founded on that of an American cyclone, and the first thing he did was to sweep my coffee cup off the table with his tail, sending the contents full into the middle of my waistcoat.

I rose from my chair hurriedly, and remarking "-----," approached him at a rapid rate. He preceded me in the direction of the door. At the door, he met Eliza, coming in with eggs. Eliza observed, "Ugh !" and sat down on the floor, the eggs took up different positions about the carpet, where they spread themselves out, and Gustavus Adolphus left the room. I called after him, strongly advising him to go straight downstairs, and not let me see him again for the next hour or so ; and he, seeming to agree with lodged the coal-scoop, and went ; while I returned, dried myself, and finished breakfast. I made sure that he had gone into the yard, but when I looked into the passage ten minutes later, he was sitting at the top of the stairs. I ordered him down at once, but he only barked and jumped about, so I went to see what was the matter.

the direction in which you are proceeding ? you nice, clever young man-you !" or words to that effect, he feels better. Swearing has the same soothing effect upon our angry passions that smashing the furniture or slamming the doors is so well known to exercise ; added to which it is much cheaper. Swearing clears a man out like a pen'orth of gunpowder does the wash-house chimney. An occasional explosion is good for both. I rather distrust a man who never swears, or savagely kicks the footstool, or pokes the fire with unnecessary violence. Without some outlet, the anger caused by the ever-occurring troubles of life is apt to rankle and fester within. The petty annoyance, instead of being thrown from us, sits down beside us, and becomes a sorrow, and the little offence is brooded over till, in the hot-bed of rumination, it grows into a great injury, under whose poisonous shadow springs up hatred and revenge.

Swearing relieves the feelings, that is what swearing does. I explained this to my aunt on one occasion, but it didn't answer with her. She said I had no business to have such feelings.

That is what I told Tittums. I told her she ought to be ashamed of herself, brought up in a Christian family as she was, too. I don't so much mind hearing an old cat swear, but I can't bear to see a mere kitten give way to it. It seems sad in one so young.

I put Tittums in my pocket, and returned to my desk. I forgot her for the moment, and when I looked I found that she had squirmed out of my pocket-on to the table, and was trying to swallow the pen; then she put her leg into the ink-pot and upset it; then she licked her leg; then she swore again—at me this time.

I put her down on the floor, and there Tim began rowing with her. I do wish Tim would mind his own business. It was no concern of his what she had been doing. Besides, he is not a saint himself. He is only a two-year-old fox terrier, and he interferes with everything, and gives himself the airs of a gray-headed Scotch collie.

Tittums' mother has come in, and Tim has got

do not say, "Oh yes, a lot of use *you* are, if you are ever really wanted "—sarcastic like. They never inform us, like our *inamoratas* sometimes do, that we are not nearly so nice as we used to be. We are always the same to them.

They are always glad to see us. They are with us in all our humors. They are merry when we are glad; sober when we feel solemn, and sad when we are sorrowful.

"Hulloa! happy, and want a lark! Right you are; I'm your man. Here I am, frisking around you, leaping, barking, pirouetting, ready for any amount of fun and mischief. Look at my eyes, if you doubt me. What shall it be? A romp in the drawing-room, and never mind the furniture, or a scamper in the fresh, cool air, a scud across the fields, and down the hill, and won't we let old Gaffer Goggle's geese know what time o' day it is, neither. Whoop ! come along."

Or you'd like to be quiet and think. Very well. Pussy can sit on the arm of the chair, and purr, and Montmorency will curl himself up on the rug, and blink at the fire, yet keeping one eye on you the while, in case you are seized with any sudden desire in the direction of rats.

And when we bury our face in our hands and wish we had never been born, they don't sit up very straight, and observe that we have brought it all upon ourselves. They don't even hope it will be a warning to us. But they come up softly; and shove their heads against us. If it is a cat, she stands on your shoulder, rumples your hair, and says, "Lor', I am sorry for you old man," as plain as words can speak; and if it is a dog, he looks up at you with his big, true eyes, and says with them, "Well, you've always got me, you know. We'll go through the world together, and always stand by each other, won't we ?"

He is very imprudent, a dog is. He never makes it his business to inquire whether you are in the right or in the wrong, never bothers as to whether you are going up or down upon life's ladder, never asks whether you are rich or poor, silly or wise, sinner or saint. You are his pal. That is enough for him, and, come luck or mis-

193

farm owers. s and n once pauty, e you

.891

mer

aber.

hade

t in

assed

nake

nuch

rand

10th-

ulas.

have

thing

con.

form.

d no

ry to

few

small

be an

er of

feet

vered

ly to

al to

e my

bed-

nicely

omes

loom

house

beds,

Some

es or

ill be

back ;

ls can

rbing

, and

They

than

well

d not

color.

ne for

ety of ed by owers, A bed splay. would or else f gerand it n you ts can

dowers ad will oply of

s more

9

t lamb he exa little It was Tittums. She was sitting on the top stair but one, and wouldn't let him pass.

Tittums is our kitten. She is about the size of a penny roll. Her back was up, and she was swearing like a medical student.

She does swear fearfully. I do a little that way myself sometimes, but I am a mere amateur compared with her. To tell you the truthmind, this is strictly between ourselves, please I shouldn't like your wife to know I said it, the women folk don't understand these things ; but between you and me, you know-I think it does a man good to swear. Swearing is the safety-valve through which the bad temper, that might otherwise do serious internal injury to his mental mechanism, escapes in harmless vaporing. When a man has said : "Bless you, my dear, sweet sir. What the sun, moon, and stars made you so careless (if I may be permitted the expression) as to allow your light and delicate foot to descend upon my corn with so much force ? Is it that you are physically incapable of comprehending

his nose scratched, for which I am remarkably glad. I have put them all three out in the passage, where they are fighting at the present moment. I'm in a mess with the ink, and in a thundering bad temper; and if anything more in the cat or dog line comes fooling about me this morning, it had better bring its own funeral contractor with it.

Yet, in general, I like cats and dogs very much indeed. What jolly chaps they are ! They are much superior to human beings as companions. They do not quarrel or argue with you. They never talk about themselves, but listen to you while you talk about yourself, and keep up an appearance of being interested in the conversation. They never make stupid remarks. They never observe to Miss Brown across the dinnertable, that they always understood she was very sweet on Mr. Jones (who has just married Miss Robinson). They never mistake your wife's cousin for her husband, and fancy that you are the father-in-law. And they never ask a young author, with fourteen tragedies, sixteen comedies, seven farces, and a couple of burlesques in his desk, why he dosen't write a play.

They never say unkind things. They never tell us of our faults, "merely for our own good". They do not, at inconvenient moments, mildly remind us of our past follies and mistakes. They

1

fortune, good repute or bad, honor or shame, he is going to stick to you, to comfort you, guard you, and give his life for you, if need be—foolish, brainless, soulless dog !

Ah ! old staunch friend, with your deep, clear eyes, and bright, quick glances, that take in all one has to say before one has time to speak it, do you know you are only an animal, and have no mind? Do you know that that dull-eyed, gin-sodden lout, leaning against the post out there, is immeasurably your intellectual superior ? Do you know that every little-minded, selfish scoundrel, who lives by cheating and tricking, who never did a gentle deed, or said a kind word, who never had a thought that was not mean or low, or a desire that was not base, whose every action is a fraud, whose every utterance is a lie; do you know that these crawling skulks (and there are millions of them in the world), do you know they are all as much superior to you as the sun is superior to rushlight, you honorable, brave hearted, unselfish brute ? They are men, you know, and men are the greatest, the noblest, and wisest, and best Beings in the whole vast eternal Universe. Any man will tell you that.

Yes, poor doggie, you are very stupid, very stupid indeed, compared with us clever men, who understand all about politics and philosophy,

THE FARMER'S ADVOCATE.

MAY, 1891

and who know everything in short, except what we are, and where we came from, and whither we are going, and what everything outside this tiny world and most things in it are.

194

Never mind, though, pussy and doggie ; we like you both all the better for your being stupid. We all like stupid things. Men can't bear clever women, and a woman's ideal man is some one she can call a "dear old stupid." It is so pleasant to come across people more stupid than ourselves. We love them at once for being so. The world must be rather a rough place for clever people. Ordinary folk dislike them, and as for themselves they hate each other most cordially.

But there, - the clever people are such a very insignificant minority, that it really doesn't much matter if they are unhappy. So long as the foolish people can be made comfortable, the world, as a whole, will get on tolerably well.

Cats have the credit of being more worldly wise than dogs-of looking more after their own interests, and being less blindly devoted to those of their friends. And we men and women are naturally shocked at such selfishness. Cats certainly do love a family that has a carpet in the kitchen more than a family that has not; and if there are many children about, they prefer to spend their leisure time next door. But, taken altogether, cats are libelled. Make a friend of one, and she will stick to you through thick and thin. All the cats that I have had have been most firm comrades. I had a cat once that used to follow me about everywhere, until it even got quite embarrassing, and I had to beg her, as a personal favor, not to accompany me any further down the High Street. She used to sit up for me when I was late home, and meet me in the passage. It made me feel quite like a married man, except that she never asked where I had been, and then didn't believe me when I told her.

Another cat I had used to get drunk regularly every day. She would hang about for hours outside the cellar door for the purpose of sneak. ing in on the first opportunity, and lapping up

No tale of horror is complete without the rats. In stories of ghosts and murderers, they scamper through the echoing rooms, and the gnawing of their teeth is heard behind the wainscot, and their gleaming eyes peer through the holes in the worm-eaten tapestry, and they scream in shrill, unearthly notes in the dead of night, while the moaning wind sweeps, sobbing, round the ruined turret towers, and passes wailing like a woman through the chambers bare and tenantless.

And dying prisoners, in their loathsome dungeons, see, through the horrid gloom, their small red eyes, like glittering coals; hear, in the deathlike silence, the rush of their claw-like feet, and start up shrieking in the darkness, and watch through the awful night.

I love to read tales about rats. They make my flesh creep so. I like that tale of Bishop Hatto and the rats. The wicked Bishop, you know, had ever so much corn, stored in his granaries, and would not let the starving people touch it, but, when they prayed to him for food, gathered them together in his barn, and then shutting the doors on them, set fire to the place and burned them all to death. But next day there came thousands upon thousands of rats, sent to do judgment on him. Then Bishop Hatto fled to his strong tower that stood in the middle of the Rhine, and barred himself in, and fancied he was safe. But the Rats ! they swam the river, they gnawed their way through the thick stone walls, and ate him alive where he sat.

They have whetted their teeth against the stones, And now they pick the Bishop's bones; They gnawed the flesh from every limb, For they were sent to do judgment on him.'

Oh, it's a lovely tale.

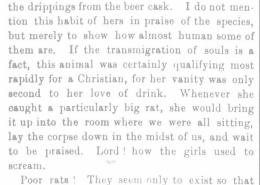
Then there is the story of the Pied Piper of Hamelin, how first he piped the rats away, and afterward, when the Mayor broke faith with him. drew all the children along with him, and went into the mountain. What a curious old legend that is ! I wonder what it means, or has it any meaning at all ? There seems something strange and deep lying hid beneath the rippling rhyme. It haunts me, that picture of the quaint, mysteri ous old piper, piping through Hamelin's narrow streets, and the children following with dancing feet and thoughtful, eager faces. The old folks try to stay them, but the children pay no heed. They hear the weird, witched music, and must follow. The games are left unfinished, and the playthings drop from their careless hands. They know not whither they are hastening. The mystic music calls to them, and they follow, heedless and unasking where. It stirs and vibrates in their hearts, and other sounds grow faint. So they wander through Pied Piper street away from Hamelin town. I get thinking sometimes if the Pied Piper is really dead, or if he may not still be roaming up and down our streets and lanes, but playing now so softly that only the children hear him. Why do the little faces look so grave and solemn when they pause awhile from romping, and stand, deep rapt, with straining eyes ? They only shake their curly heads, and dart back laughing to their playmates when we question them. But I fancy myself they have been listening to the magic music of the old Pied Piper, and, perhaps, with those bright eyes of theirs, have even seen his odd, fantastic figure, gliding unnoticed, through the whirl and throng.

away, and the noisy, blustering world always is bellowing so loud, it drowns the dream-like melody. One day the sweet sad strains will sound out full and clear, and then we too shall. like the little children, throw our playthings all aside, and follow. The loving hands will be stretched out to stay us, and the voices we have learnt to listen for will cry to us to stop. But we shall push the fond arms gently back, and pass out through the sorrowing house and through the open door. For the wild strange music will be ringing in our hearts, and we shall know the meaning of its song by then.

I wish people could love animals without getting maudlin over them, as so many do. Women are the most hardened offenders in such respects, but even our intellectual sex often degrade pets into nuisances by absurd idolatry. There are the gushing young ladies who, having read David Copperfield, have thereupon sought out a small, long-haired dog of nondescript breed, possessed of an irritating habit of criticising a man's trousers, and of finally commenting upon the same by a sniff, indicative of contempt and disgust. They talk sweet girlish prattle to this animal (when there is any one near enough to overhear them), and they kiss its nose, and put its unwashed head up against their cheek in a most touching manner; though I have noticed that these caresses are principally performed when there are young men hanging about.

Then there are the old ladies who worship a fat poodle, scant of breath and full of fleas. I knew a couple of elderly spinsters once who had a sort of German sausage on legs, which they called a dog, between them. They used to wash its face with warm water every morning. It had a mutton cutlet regularly for breakfast; and on Sundays, when one of the ladies went to church, the other always stopped at home to keep the dog company.

There are many families where the whole interest of life is centered upon the dog. Cats, by the way, rarely suffer from excess of adulation. A cat possesses a very fair sense of the ridiculous. and will put her paw down kindly but firmly upon any nonsense of this kind. Dogs, however, seem to like it. They encourage their owners in the tomfoolery, and the consequence is, that in the circles I am speaking of, what "dear Fido" has done, does do, will do, won't do, can do, can't do, was doing, is doing, is going to do, shall do, shan't do, and is about to be going to have done, is the continual theme of discussion from morning till night. All the conversation, consisting as it does of the very dregs of imbecility, is addressed to this confounded animal. The family sit in a row all day long, watching him, commenting upon his actions, telling each other anecdotes about him, recalling his virtues, and remembering with tears how one day they lost him for two whole hours, on which occasion he was brought home in a most brutal manner by the butcher boy, who had been met carrying him by the scruff of his neck with one hand, while soundly cuffing his head with the other.



cats and dogs may gain credit for killing them, and chemists make a fortune by inventing specialities in poison for their destruction. And yet there is something fascinating about them. There is a weirdness and uncanniness attaching to them. They are so cunning and strong, so terrible in their numbers, so cruel, so secret. They swarm in deserted houses, where the broken casements hang rotting to the crumbling walls, and the doors swing creaking on their rusty hinges. They know the sinking ship, and leave her, no one knows how or whither. They whis per to each other in their hiding-places, how a doom will fall upon the hall, and the great name die forgotten. They do fearful deeds in ghastly charnel-houses.

Even we grown-up children hear his piping now

After recovering from these bitter recollections, they vie with each other in bursts of admiration for the brute, until some more than usually enthusiastic member, unable any longer to control his feelings, swoops down upon the unhappy quadruped, in a frenzy of affection, clutches it to his heart, and slobbers over it, and then. But the yearning notes are very far whereupon, the others, mad with envy, rise up,

'8 is

like

will

all.

all

be

ave

But

and

and

nge

hall

get-

nen

cts,

pets

are

ead

it a

eed,

g a

pon

and

this

to 1

put

n a

iced

ned

ра

I

had

hey

ash

had

lon

rch,

the

in-

by

ion.

ous,

eem

the

the

has

do.

do,

one,

orn-

s of

this

all

his

im,

ears

urs,

in a

had

eck

ead

lec-

ad-

han

iger

the

ion,

it,

up,

THE FARMER'S ADVOCATE.

and, seizing as much of the dog as the greed of the first one has left to them, murmur praise and devotion.

Among these people, everything is done through the dog. If you want to make love to the eldest daughter, or get the old man to lend you the garden roller, or the mother to subscribe to the Society for the Suppression of Solocornet Players in Theatrical Orchestras (it's a pity there isn't one, anyhow), you have to begin with the dog. You must gain its approbation before they will even listen to you, and if, as is highly probable, the animal, whose frank, doggy nature has been warped by the unnatural treatment he has received, responds to your overtures of friendship by viciously snapping at you, your cause is lost forever.

"If Fido won't take to any one," the father has thoughtfully remarked beforehand, "I say that man is not to be trusted. You know, Maria, how often I have said that. Ah! he knows, bless him."

Drat him !

And to think that the surly brute was once an innocent puppy, all legs and head, full of fun and play, and burning with ambition to become a big, good dog, and bark like mother.

Ah me! life sadly changes us all. The world seems a vast horrible grinding machine, into which what is fresh and bright and pure is pushed at one end, to come out old and crabbed and wrinkled at the other.

Look even at Pussy Sobersides, with her dull, sleepy glance, her grave, slow walk, and dignified, prudish airs; who could ever think that once she was the blue-eyed, whirling, scampering, head-over-heels, mad little firework that we call a kitten.

What marvelous vitality a kitten has. It is really something very beautiful the way life bubbles over in the little creatures. They rush about, and mew, and spring; dance on their hind legs, embrace everything with their front ones, roll over and over and over, lie on their backs and kick. They don't know what to do with themselves, they are so full of life. Can you remember, reader, when you and I felt something of the same sort of thing ? Can you remember those glorious days of fresh young manhood; how, when coming home along the moonlit road, we felt too full of life for sober walking, and had to spring and skip, and wave our arms, and shout, till belated farmers' wives thought-and with good reason, too-that we were mad, and kept close to the hedge, while we stood and laughed aloud to see them scuttle off so fast, and made their blood run cold with a wild parting whoop; and the tears came, we knew not why. Oh, that magnificent young LIFE ! that crowned us kings of the earth ; that rushed through every tingling vein, till we seemed to walk on air ; that thrilled through our throbbing brains, and told us to go forth and conquer the whole world ; that welled up in our young hearts, till we longed to stretch out our arms and gather all the toiling men and women and the little children to our breast, and love them all-all. Ah ! they were grand days, those deep, full days, when our coming life, like an unseen organ, pealed strange, yearnful music in our ears, and our young blood cried out like a warhorse for the battle. Ah ! our pulse beats slow and steady now, and our old joints are rheumatic, and we love our easy chair and pipe, and sneer at boys' enthusiasm. But, oh! for one brief moment of that god-like life again.

Alnele Tom's Department.

The Grumbler.

His coat was too thick and his cap was too thin ; He couldn't te quiet, he hated a din; He hated to write, and he hated to read; He hated to cipher in very deed. He must study and work over books he detested; His parents were strict, and he never was rested. He knew he was wretched as wretched could be : There was no one so wretchedly wretched as he.

HIS MATURITY.

His farm was too small, and his taxes too big; He was selfash and lazy and cross as a pig. His wife was too silly, his children too rude, And just because he was uncommonly good. He never had money enough or too spare; He had nothing at all fit to eat or to wear. He knew he was wretched as wretched could be, There was no one so wretchedly wretched as he.

HIS OLD AGE.

He finds he has sorrows more deep than his fears; He grumbles to think he has grumbled for years; He grumbles to think he has grumbled away His home and his fortune, his life's little day. But, alas! 'tis too late, it is no use to say That eyes are too dim, that his hair is too gray. He knows he is wretched as wretched can be; There is no one more wretchedly wretched than he.

MY DEAR NIECES AND NEPHEWS :--

This beautiful May weather calls up all the poetry in one's nature. If you look up to the blue sky above in its spring setting of soft cloud masses, or to the green fields below gemmed with flowers, there is something in each and all to rouse the love of the beautiful, and start new trains of thought in every youthful mind. To each of my young readers, were they at hand, I should like to present a bouquet such as T. B. Aldrich gives when he say :--

"Take them and keep them, Silvery thorn and flower, Plucked just at random In the May weather— Snowdrops and pansies, Sprigs of wayside heather, And five-leaved wild-voce Dead within an hour."

Just such a bouquet may my nieces and nephews gather as they walk to school in the early morning. The dewy grass so fresh, the emerald leaves, the pink and white blossoms on the trees, the bright dandelion looking forth from his green bed, the blue violets in the lane, the pretty spring flowers in the woods, with scent

and trial, which you may perhaps be proud enough not to own. Go to the city, if you can afford it, to learn there what will fit you for a noble life-work, but hesitate long and think well before you leave your country home, where your presence is needed.

To that handsome young nephew, with open and sunburnt face, who thinks farming too slow a way of making money, let me say—riches are not everything. They do not bring happiness. A wiser head than yours and mine together asked for "neither poverty nor riches." The farm will yield you an independent living. You may be an honest and a happy man as you sow the seed and reap your harvest, but he who is in haste to be rich forgets the means he uses. Riches, with the curse of dishonesty hanging over them, bring no pleasure.

"Better than grandeur, better than gold, Than ranks or titles a hundred-fold; Is a healthful body, a mind at ease, And simple pleasures that always please."

Old-fashioned advice, do you say ? Well, the old-fashions in their turn become the newest, and good advice is a perennial. It does not grow

Your affectionate

UNCLE TOM.

My DEAR NIECES AND NEPHEWS :--

old.

Because I reduced the number of puzzles to be published each month this year, is no reason why the competition should be less keen. I should very much like to hear from more puzzlers, especially the girls, and for their encouragement I will offer a handsomely bound book to the one sending in the best original puzzles during the next three months. This offer is open only to those who have never won a lst or 2nd prize in the ADVOCATE. The puzzles need not exceed one or two each month; it is quality and not quantity I want.

UNCLE TOM.

Five Ways to Cure a Cold.

1. Bathe the feet in hot water and take a pint of hot lemonade. Then sponge with salt water and remain in a warm room. 2. Bathe the face

195

so exquisite none can imitate. Above all, the birds are singing as they have been since the first peep of dawn over the distant hills.

O the beauty, the freshness, the purity which surrounds my farmer girls and boys in their country homes ! How dingy beside seem the streets and the blazing sun on the rows of houses in the town; how pure the air, to the close, gaseous, smoky air there. How free and healthy, merry and happy are the bright faces in the one, to the tired, wan, sickly, old faces of the boys and girls we meet in that part of the town where the workmen's families gather. And, yet, can it be true, that that niece of mine is asking me what her chances are in the city My dear child, your "chances" are that you will lose your health, lose much of that maiden modesty which gives you beauty, as the bloom on the peach's side; that you will be disappointed; that your company will be what you can get, not what you like ; that you will have long hours of work, and little time for thought. Shall I add more ? If you have sensible friends in the city, if you have means, if you have a good position, you have what will, to some extent, give you a standing ; but if you go alone and friendless to earn your living there, leaving home and loved ones behind you, you go not with my sanction, and you go to meet loneliness sions.

in very hot water every five minutes for an hour. 3. Snuff up the nostrils hot salt water every three hours. 4. Inhale ammonia or menthol. 5. Take four hours active exercise in the air. A ten grain dose of quinine will usually treak up a cold in the beginning. Anything that will set the blood in active circulation will do it, whether it be drugs, or the use of a bucksaw.

Except the exercise, the best remedy is the quinine, preceding it by a hot foot bath, and following the bath by a glass of hot lemonade.

Things to Remember.

Use soft water and a few drops of turpentine and a little sugar with your stove polish.

Use ammonia in the water you wash glass in. Use a clam shell to scrape pots and fryingpans with.

Use kerosene oil to clean your wash-boiler.

Use turpentine and machine oil to polish your sewing machine, and rub briskly.

Use flannel to wash the children with in winter, and they will be good-natured while bathing.

It is hard to say whether God discovers more love in preparing heavenly mansions for the soul than in preparing the souls for heavenly mansions.

FARMER'S ADVOCATE. THE

FIRST PRIZE STORY.

The Teachers' Convention. and What Came of it.

BY MISS ADA ARMAND, PAKENHAM, ONT.

Last May, while visiting my cousins at Almonte, one of whom is a school teacher, the annual convention of the Lanark teachers was to be held in Carleton Place. My cousin was anxious to attend, but did not like to spend two days, and as the trains were running inconveniently she was very undecided. The evening previous we visited the Principal of the high school, and he strongly advised her to attend, and proposed that I accompany her. He said that he and three of the other teachers purposed walking down (distance six miles), and if not afraid of the journey, they would be glad of our company, so we decided to go.

It was a lovely morning. We started about seven o'clock, and arrived shortly after the meeting had commenced. There were present about one hundred teachers ; also Dr. McLellan, of Toronto, and the County Inspector. The programme was excellent, instructive and amusing. Dr. McLellan gave an able lesson on " Psychology."

So delighted were we with our visit that we concluded to remain for the doctor's lecture on "Literature," which took place at night, and we could return by the midnight train. In the interim between the meeting and the lecture, the gentleman at whose house we were staying, took his team and drove us around the town and adjoining country for about an hour and a half.

The lecture proved well worth waiting for, and as there was music and readings we spent a very enjoyable evening.

About 11 p.m. we adjourned to the depot to await the coming of our train, but alas ! it was proverbially late. I must here inform you that Carleton Place is where the Ottawa and Toronto trains meet, and this evening there were several foreigners waiting for the north-bound express. There were ten Chinamen, several Assyrians, and some Russians. There was, besides ourselves, only one lady traveller, and she appeared utterly worn out, her head resting on a shawl thrown over her valise, and fast asleep. She was young, fair and pretty, and many were our calculations as to whither she came and where she was going. Soon after our arrival she awakened, and we learned that she was unable to speak any English. We made several futile attempts to converse with her; at length she took from a small grip-sack a little note-book and commenced writing therein. We signified our desire to examine it, whereupon she showed it to us. The writing appeared very nice, but, of course, to us was unintelligible ; on the fly-leaf her name was written in another hand, and we contrived to spell it out - Josephine Vesling, Christiana. Oh ! how delighted she appeared to hear us pronounce her name.

requested us to help her arrange a couch out of the seats in the car, as she had not a sleeper. He then consigned her to our care, and we talked incessantly-she in Norwegian and we in English. She learned to say a few phrases in English, and I could count to twenty in Danish, which proved nearly identical with her language. Thus employed the time passed rapidly, and soon the buzz of people moving about informed us that the long-waited-for train was arriving. We helped our protege arrange her baggage, and soon after we were cosily ensconced in a comfortable coach. We continued our chat for the few minutes that sufficed to bring us to our destination. We then bade adieu to the lonely girl, who seemed so cheered by our company, and feeling as if parting from a friend, we made ready to alight.

At Almonte our train and the Winnipeg south-bound had to pass, and there was considerable shunting done. At length everything seemed quiet, and we prepared to get off, but there we were, hemmed in on either side by stationary freights and half-an-acre from the platform. There were two gentlemen intending to get off, but they thought the train would move nearer the station, and advised us to wait, which we did. The train did move-and to our infinite dismay kept moving, the gentlemen meanwhile tugging violently at the bell-rope, but the bell would not ring, nor the conductor be found till we were about a mile from town, when it was useless to stop, so on we went to the next station, which is Pakenham.

It was now between 3 and 4 a. m., but having many friends in the village, I did not mind our escapade. We rapped up a friend, and got into bed, slept till 8.30 a. m., took breakfast, and returned on the morning train to Almonte.

Our adventures were now at an end, and we were willing to admit that we had sufficient to satiate even our romantic appetites.

SECOND PRIZE STORY.

The Great Fire of 1887.

the creek, which is heavily wooded just here, you may imagine the perilous position they were placed in when they took fire, and burning branches began to fly with the wind.

The stable and granary were under one roof, and as there was considerable litter and straw around the stable, it was not long before it caught fire from a burning branch, and in spite of our utmost efforts the flames could not be extinguished, so Mr. Shirriff and my eldest brother tried to save what they could from the building. While they were getting out some things from the stable, a valuable retriever dog followed them in, but did not come out again, and it was not long before a mournful howl proclaimed to us the fate that awaited him.

Some of our neighbors had fowls and pigs burned up, but our pigs stayed in the creek, with just their heads above water, until the fire had passed, which it was not long in doing, burning every stable along the creek for a distance of six miles.

Puzzles. 1-ANAGRAMS. Some naughty boys I saw one day Some naughty boys 1 saw one day Indulge in games so mean, They took a pony old and gray And painted it all green; Amid nods and cheers from all the rest, One lad hit it a rao. And as they laughed more loudly, He tied on it a cap. To see them mar a nud like that He tred on it a cap. To see them mar a nag like that Did vex me much indeed; Ah cared I not if they themselves A similar fate received. ADA ARMAND. 2-DROP VOWEL. -n. d.y.t.t. m.! t.s th. wh-l. fl.f: -ll sr.c.w. ll j.y. r. m. sr.d th.r. n; Th. b. nd f. r p.rp.s., r n.bl.st str.f. Th. only c. nt.rs.gn s.r.t. w.n. H.l.n H.nt J.cks.n. A. T. REEVE. 3-ILLUSTRATED REBUS. BY MISS ADA T. SELLAR, SOURISFORD, MAN. It was in the above mentioned year, about the middle of October, that the fire I am about to

196

MAY, 1891

A gentleman then approached and told us that she was a Norwegian, and had travelled direct from Norway, and was en route tor St. Paul, Minn. She was entirely alone, and had by chance met one of her countrymen at the depot to whom she told her story, and who had asked him to take care of her as far as he would be going, which was to Winnipeg. We told him

describe came rolling onward, carrying destruction in its path, and leaving a blackened waste, where before had been a luxuriance of waving prairie grass, which created a fire as swift and sure in its work as it was grand to see.

The fire reached our place about ten o'clock a. m. One of my brothers being away at the post office at the time of its arrival, the rest of us did not expect to see him back before the fire had passed, but imagine our surprise when he came riding up just in time to witness a most comical sight, in the shape of a part of us (myself included) out on a plowed field with wet pillow-cases over our heads, to exclude the smoke from being inhaled into our lungs.

At the house all was confusion. Mamma and some of the others were gathering clothing and various things around the house, and tieing them up in sheets and quilts, also gathering jewellery and other valuables, and carrying them out on to the plowing for better safety, in case the house should take fire, which, as it was, it was in great danger of doing.

One of our neighbors who attempted to reach home, but who was unable to do so on account of the fire, and who lost all his buildings except his house, as did many others, came here to see if he could be any assistance.

going, which was to Winnipeg. We told him The fire jumped the creck in various places, Ada Armand. J. St. Clare Barnaby, Em. Skelley, J. Irvine Devitt, Henry Reeve, M. A. Suddaby, J. Irvine Devitt, Henry Reeve, M. A. Suddaby, J. Jessie Ellis, Elsie Mason. The fire jumped the creek in various places,



4 - HIDDEN BIRDS' NAMES.

1-William was crowned king of England on Christmas Da

Christmas Day.
2-They tell me that the snow lodged heavily along the road.
3-Our pew-rent is paid up to date.
4-I thought him to be a popular kind of a chap.
5-The boy through awkwardness was left behind.
LOUISE F. REDMOND.

5-BEHEADINGS.

Behead a spice and leave friendship. Behead money and leave a kind of tree. Behead a vapor and leave a kind of tree. Behead a girl's name and leave an insect. Again, and leave a frozen substance. Behead a flower and leave a liquid. Behead a part of the body and leave a fish. Behead a garment and leave insects. WM. H. WHITTEKER.

Answers to April Puzzles.

1-Longfellow, Evangeline, 3-"Be content with small beginnings would you win great ends." 2-Without. 4-Election Day.

Names of those who have Sent Correct Answers to April Puzzles.



MAY, 1891

91

re, ere

ng

of, s.w ht ur

h-

ed

ig.

m m

ot he

gs k, ire

nof

ng

ıd.

FARMER'S ADVOCATE. THE

Vegetable Poetry.

Vegetable Poetry. Portatoes came from far Virginia; French beans, low growing on the earth, to distant India trace their birth; But scarlet runners, gay and tall, to distant India trace their birth; But scarlet runners, gay and tall, to distant India trace their birth; But scarlet runners, gay and tall, to distant India trace their birth; But scarlet runners, gay and tall, to distant India trace their birth; But scarlet runners, gay and tall, to distant India trace their birth; But scarlet runners, gay and tall, the onion travelled here from Spain; But from Sicily obtain, Garlic from Sicily obtain, But difference from Spain; The onion travelled here from Spain; the onion travelled here from Spain; but during beats was released beats but turnips, carrots, and sease, tale, wit turnips, carrots, and pale, the obsains, but some from Male, the turnips, carrots, and pale, the obsains, but some from Male, the turnips, carrots, and pale, the obsains, but some from Male, the turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, but turnips, carrots, and pale, the products of our own fair land, the baler pens might well describe-tor. *— London Tourng Folks Pure*

-London Young Folks' Rural.

A beautiful woman pleases the eye; a good

woman pleases the heart ; the first is a jewel, the second a treasure.

If parents would occasionally spend the time trying to help their children prepare their lessons, that they give to hearing them retail the happen ings in the schoolroom, they would be giving their children practical lessons not only in brain, but moral culture. There are few things more derogatory to the child's moral growth than this encouragement of tale-bearing. It grows upon them, weakens their character, leads them to notice trifles and gives to them undue importance. It belittles and injures them in a far greater degree than it possibly can those whom it seeks to injure, for though a teacher may lose her place through such things, it is merely temporary for her; but for the child it is a life-long lesson which grows with his growth, and yields a harvest seemingly much out of proportion to the seed sown.

NEW ADVERTISEMENTS.

Diseases of the Throat and Lungs.

DRS. R. & J. HUNTER, of Toronto, New York, and Chicago, give special attention to the treatment and cure of *Consumption*, *Catarrh*, *Bronohitis*, *Asthma*, and all diseases of the throat by inhalation of medicated air. A pamphlet explaining their system of treat-ment can be had free on application. Consulta-tion free, personally or by letter. Office hours, 10 to 4. *Call or Address*, 101 Bay Street, *Toronto.* Toronto.

Extracts from a few of the many satisfactory letters received from our patients.

MRS. A. ST. JOHN, of Sunderland, Ont., says: "I was spitting blood, had a bad cough with great expectoration, could hardly walk about the house without fainting, shortness of breath, high fever, great loss of flesh, had been ill for some months, I applied to Drs. R. & J. Hunter and was cured."

MR. SAMUEL HUGHEY, of Oak Ridges, MRS. SAMULE MUTHER, OI CAR MUCC, Ont., says: "I was a victim of Asthma for 13 years, and had tried in vain to find relief. Hear-ing of Dr. R. & J. Hunter's treatment by inhala-tion, I applied to them; their treatment worked wonders. I can now breathe with ease, sleep it have a constant on whether with ease, sleep without cough or oppression, and am entirely cured.'

MR. & MRS. W. R. BISHOP, of Sherwood, Say: "Our daughter had Catarth for 8 years. We took her to Colorado without benefit, her disease extended to the lungs. We finally con-sulted Drs. R. &J. Hunter; after using their treat-ment of inhalation for one month she began to improve. She is now cured. We heartily recommend this treatment to all those afflicted with this disease. with this disease.

Mention this paper.



304-y-OM

Put a one cent stamp on tweny-five Royal Crown Soap wrappers and mail to the



and they will mail you a beautiful picture without printing. ROYAL CROWN is the 15-f-M best soap made.

EVERGREENS.

Norway Spruce, 12-15 inch, transplanted, for hedges and shelter belts, \$4 per 100; \$30 per 1,000, packing including; other sizes up to 3½ ft.; Arbor Vitæ or White Cedar, 1 up to 5ft.; A ustrian, Scotch and Swiss Pine, 1 up to 3½ ft.; White Spruce, 1 up to 3 ft.; Hemlock, Juniper and Fancy Evergreens. Priced descriptive catalogues mailed free.

GEO. LESLIE & SON,



NEW ADVERTISEMENTS. Agricultural Implements Stevens & Burns. Sporting Goods – The Hingston-Smith Arms Co. Farm Implements – The Patterson & Bro. Co. Time and Money Saved – Canadian Pacific Ry. Clydesdale Stallion – E. Porter. Laced Wyandottes – M. Maw. Clothing – J. Dresser. Situation Wanted – XX., ADVOCATE Office. Sugden's Compound Tar Pills – N. G. Sugder. Picture Free – Royal Soap Co. White Leghorns – R. W. McClure. Northwest Poultry Yards – H. C. McQuarrie. Farm Lands – Geo. J. Maulson. Eggs for Hatching – S. Ling. Shropshire Sheep – Jno. Oughten. Yorkshire Pigs – Jas. Bray. Bull for Sale – Mrs. Perret. Time Card – Northern Pacific. Sale of Shorthorn Cattle – G. L. Smellie. Berkshires and Shorthorns – Thomas Speers. Tube Boilers – Geo. White & Sons. Pruing and Grafting – C. & A. C. Baker. Sweet Chocolate – W. Baker & Co. Chatham Fanning Mills – Manson Campbell. Road Carts – S. Mills & Co. Dahlas – Geo. Leslie & Son. Dairy Supplies – John S. Pearce & Co. Plants – Geo. Leslie & Son. Uydesdales – Graham Bros. Free – Drs. Starkey & Palen. Jersey Bull – William Johnson. Berkshires and Cotswolds – J. G. Snell & Bro. Invoyed Large Yorkshires – Jas. Field & Son. Shropshires – A. D. Robartes. Trotters – A. M. Vansiel. Standard-Bred Stallions – W. Cowper. Frams For Sale – Thos. Betts. Mortors – M. M. Vansiel. Standard-Bred Stallions – W. Cowper. Farsh For Sale – Thos. Betts. Mortors – M. M. Vansiel. Shropshire Sheep – J. & J. Smith. Bropshire Sheep – J. & J. Smith. Bropshires – M. W. Histon. Shropshire Sheep – J. & J. Smith. Bropshire She

THE MOLSONS BANK .--- INCORPORATED 1855.

HEAD OFFICE, MONTREAL. HEAD OFFICE, MONTREAL. Paid-up Capital, \$2,000,000; Rest Fund, \$1,100,000. A branch of this Bank has been opened in Winni-peg for the transaction of a General Banking Busi-ness. The Bank receives on favorable terms the accounts of Individual Firms, Bankers and Munici-pal and other corporations. Four per cent. allow-ed on Time Deposits, French and German spoken at the counter. For particulars address, WM C NICHOLLS

WM. G. NICHOLLS, Manager Molsons Bank, Winnipeg. 14-y-M



Baby Hand Separators, Curtis' Oil Test Churns, Babcock Milk Testers, Lactoscopes, Butter Workers, Butter Printers, Butter Color.

OHN S. PEARCE, LONDON, ONT.

305-H-OM

FARMER'S ADVOCATE. THE

white Leghorns.

198

A GRAND PEN WITH IMPORTED COCKEREL.

The White Legborn is the king of layers and unexcelled for beauty. Have bred them continu-ously in Manitoba for ten years. EGGS, \$2.00 PER 13.

A TRIO FOR SALE NOW, \$5.00. Young stock in the fall.

R. W. MCCLURE, 448 Carey Street, Winnipeg. 17-8-M

LACED -:- WYANDOTTES Only 8 Magnificent Breeding Pens. Hawkins & McClave Strains.

Prize Winners Wherever Shown.

Great winter layers, 192 eggs in February from 11 June Pullets. No artificial heat. Hens weighing 8½, Cocks 9½ lbs. Eggs, \$2.00. Write for particulars.

M. MAW, Main St. North, WINNIPEG. 17-1-M

EGGS!EGGS!EGGS! Eggs for hatching from high-class stock:

WHITE P. ROCKS, WHITE WYANDOTTES, LICHT BRAHMAS and BLACK MINORCAS.

Satisfaction guaranteed. \$2.00 per 13. THOS. REED, 81 Lizzie St., WINNIPEG 15-e-M

DAYTON'S POULTRY YARDS

kildonan, - Man., Two grand yards of Plymouth Rocks and Light Brahmas, mated with high scoring imported Cock-erels; Eggs. \$2.50 per set. 30 very fine Bronze Turkeys, mated with 3 imported toms, weighing 35, 38 and 42 pounds : Eggs. \$300 per ten. One pen of Pekin Ducks, mated with an imported Drake, weighing ten bounds; Eggs. \$200 per ten. Address, H. W. DAYTON, Winnipeg. 15-11-M

NORTHWEST POULTRY YARDS. STONEWALL, MAN.

H. C. MCOUARRIE.

BREEDER OF

Light Brahmas, Langshans, P. Rocks and White Crested Black Polands.



BREEDER of PURE-BRED POULTRY Including Light and Dark Brahmas, Buff and Par-tridge Coebins, Plymouth Bocks, Langshans, Pit Game and Guinea Fowl. Also Eggs of all these varieties. A few Light Brahma Cockrells for sale. German Canaries for sale. Send stamp for price list. 16-c-M

 H. H. WALLACE, WOODSTOCK, ONT.
 White Plymouth Rocks ("Empire" strain)— Awards: Detroit Exposition, 1889, cock lst, hen lst, breeding pen lst; Detroit Exposition, 1880, cock lst, hen lst, cockerel lst, pullet lst; Toronto Industrial Fair, Sept., 1860, cock lst, hen lst, cockerel lst, pullet lst; Ontario show, Bowmanville, Feb., 1891, cock lst, cockerel lst. Best stock in America; win-ners wherever sbown. Will give fullest guarantee. Every egg I sell shall be from lst prize cock and lst prize cockerel. White Wyandottes (Knapp br. and Craffuts strains) — Awards: Detroit Exposition, 1889, cock lst, hen lst, pen lst. Black Minercas (Jadge J. T. Bicknell's specially selected)—Winner of Ist at St. Catharines, scoring % points. Mam-moth Pekim Ducks (James Kankin's personal selections)—Won lst at Buffalo Exposition two years in succession; also won lst on old and young at both the Detroit Expositions, 1889 and 1800; won lst at Toronto, *ept., 1890, on old and young, and at Guelph, Feb., 1891, they won four firsts on old and young Drakes, ing cod condition, weigh ten pounds; ducks, nine pounds. Emglish Rowen Ducks (Imported direct)—Winners of Ist both years at Detroit Exposition, four firsts on young at Ontario Show, St. Catharines, Ist on old Drake at Guelph, and Ist at Ontario Show, Bowmanville, Jan., 1891. Emglish Aylesbury Ducks—Winners of Ist both years on old and young at Detroit Ex-position; ist at Toronto, Sept., 1890; at Guelph swept four lsts on old and young at at Guelph swept four lsts on old and young at a detroit ex-position; ist at Toronto, Sept., 1890; Rouen and Aylesbury, \$2 per 13; Ducks, Pekin, \$1.50; Rouen and Aylesbury, \$2 per 13; Ducks, Pekin, \$1.50; Rouen and Aylesbury, \$2 per 13; Ducks, Pekin, \$1.50; Rouen and Aylesbury, \$2 per 13; Ducks, Pekin, \$1.50; Rouen and Aylesbury, \$2 per 13; Ducks, Pekin, \$1.50; Rouen and Aylesbury, \$2 per 13; Ducks, Pekin, \$1.50; Rouen and Aylesbury, \$2 per 13; Bucks, Pekin, \$1.50; Rouen and Aylesbury, \$2 per 13; Bucks, Pekin, \$1.50; Rouen a H. H. WALLACE, WOODSTOCK, ONT. swept four 1sts on old and young for the provided of the 1st prize and ten reguinea challenge carried off the 1st prize and ten reguinea challenge fougies, windows, etc. Galvanized Iron, Sabot for large, free cata statisfaction guaranteed. Reference: J. W. Bartlett, "Farmer's Advocate," Winnipeg, who personally knows my character and reputation as a breeder. Stock for sale after first September.
SUGDEN'S COMPOUND TAR PILLS — CURE —
Bronchitis, Asthma, Hoarseness, Coughs, Colds, etc. Warranted purely vegetable – will not act on the best knows in the set work of price.
etc. Warranted purely vegetable – will not act on the set set. Warranted purely vegetable – will not act on the set. Set of price.
etc. Warranted purely vegetable – will not act on the set. Set of price.
etc. Warranted purely vegetable – will not act on the set. Set of price.
etc. Warranted purely vegetable – will not act on the set. Set of price.

WANTED -SITUATION OF TRUST.

On sheep or cattle ranch preferred; young man; first-class references from gentlemen in England and Scotland. Address. X X, Care of Farmer's Advocate, Winnipeg, Man. 17-a-M

CLOTHING, Gent's Furnishings, Hats, Caps and Furs,

DRESSER, J. "YORKSHIRE HOUSE,"

Cor. of Main and Fonseca Streets, Winnipeg, near C. P. R. Station.

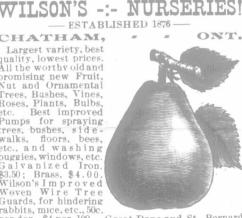
Everything Good. Prices Low. Customers Well Pleased. A -:- TRIAL -:- SOLICITED. 17-a-M

LANDS CHEAP FARM

We can confidently offer to persons desiring a farm some of the finest HOMESTEADS in MANITOBA, with more or less improvement, near CHURCHES, SCHOOLS, R. R. STATIONS and in prosperous neighborboods, at or less than wild land prices, on long time with low rate of interest. Cut this out

GEO. J. MAULSON, London & Canadian Loan Co., Drawer 1264, WINNIPEG, Or call at 195 Lombard Street. 17-a-M





White Grested Black Polands. etc. Warranted purely vegetable-will not act on Catalogue and Guid. The bowels. Sent postpaid on receipt of price. to the vards

Proprietor.

PRICE, \$1.00 PER BOX OF 100 PILLS.

EGGS for HATCHING.

Light Brahmas, \$2.50; Langshans and W. C. B. Polands, \$3; Plymouth Rocks, \$?per 13. Satisfac-faction Guaranteed. WHOLESALE AGENTS: --Martin, Rosser & Co. I7-b-M and Dawson, Bole & Co., Winnipeg, Man. 17-y-M Birds; 609 Main Street, Winnipeg, Man. 302-y-M

N. W. SUGDEN, Prop., 120 Lisgar St., Winnipeg. F. W. WILSON, Nurseryman, Chatham, Ont. 305-a-OM Mention this paper.

GREAT CREDIT SALE OF SHORTHORN

DISPERSION OF THE FAMOUS BINSCARTH HERD BY PUBLIC AUCTION, THE 17TH AND 18TH JUNE, 1891. ON

ON THEFT ON PARTY AND LOTED JOINED JOINED LOTED JOINED, LOGID. The Scottish Untario and Manitoba Land Company (Limited) having decided to dispose of Binscarth Farm, will offer for sale, by public auction, at the form, on Wednesday and Thursday, the 17th and 18th of June next, their entire herd of pure-bred Shorthorn cattle coming about 90 animals, all the principal prizes, including GOLD MEDALS, offered at the Provincial and other exbibitions, since its establishment. An examination of the herd loself will convince intending purchasers of the individual excellence of the animals. All the cattle have been kept in perfect on the bound on the editores will offer for sale all their other stock and chattels on the farm, consisting of horses, pure-bred Shorthorns have been kept in perfect on the bound on the editores will offer for sale all their other stock and chattels on the farm, consisting of horses, pure-bred Shorthorshing to a considered most valuable in Shorthora. Persons wishing to take advantage of this interfect on the bound on these lines between made with the Canadian Pacific Railway and the Manitoba. Persons wishing to take advantage of this framewent must pay full fare from starting point to Binsearth and take ticket agent's receipt which, along with certificate from the Manager of the Farm and the Manager of the Farm. TAINS arrive at Binsearth on Tuesday evening from the East and on Wednesday morning from the West, and leave for the West on Thursday night. FREIGHT.—Purchasers will be able to ship freight east on the Friday morning, and west on the Wednesday morning following. TERMS., \$10 and under, cash, own then the end the net turn on Tuesday evening and Wednesday morning and West on the Company will endeavor to pro-TERMS., \$10 and under, cash, own that the net at train on Tuesday evening and West on the West, and leave for she clock for lunch. TERMS., \$10 and under, cash, own that the offer the stock and continue throughout the day, with an intermission from one till two 'clock for lunch. T

must bring references. CATALOGUES describing the stock and giving a partial list of the chattels will be ready about the middle of May, and will be sent to any address on ALEX. BAIN, Winnipeg, Manitoba, Manitoba,

17-b-M

G. L. SMELLIE, Manager, Binscarth Farm, Manitoba.



ing direct from the breeder myself, neither acting agent in Scotland or here, and paying cash, I am prepared to sell on any terms agreed upon. Quality and pedigree of the best. Give me a call. The farm is situated 40 miles southwest of Montreal, on the G. T. R., and 100 miles east of Ottawa, on the C. A. R. Station on the farm. 291-y-OM ROBERT NESS, HOWICK P.O., Que.

ent. and nce

PAIRS SUPPLIED NOT AKIN.

1×

E. J. DARROCH. Minnedosa, Manitoba. 15-y-M









HDOWNS!

My sheep are imported from the flocks of Henry Webb, Geo, Jonas, J. J. Coleman and W. Toop. Will now sell a few ewes from the above in lamb to imported rams, also a few ewe lambs of my own becading.

DAVID H. DALE, Glendale, Ont. 296- y - O M



ROBERT WICHTMAN, DRUCCIST, OWEN SOUND, ONT.

Brampton and Edmonton Railroad Stations. Now is the time to secure young pigs from choice imported sows, and got by the renowned imported boars "Enterprise [1378]" and "Perry Lad [1378]." "En terprise" won first prize at the two leading fairs in Ontario last year. He weighed just after landing from England 850 pounds. His pigs are coming fine, and are particularly well marked. We have for sale a grand lot of Yearling Cotswold Rams and Ewes which are well worthy the atten-tion of those in want of such. Will be pleased to have visitors come and see our stock. Write for prices. 298-y-OM

POLAND CHINAS

it, with pamphlets, etc., to **WICHTMAN, DRUCCIST, OWEN SOUND, ONT.** Sole Agent for the Dominion. 303-y OM All pure-bred and registered. From the very best strains in America. First come first served. Write for prices. I mean business. 298-y-OM W. S. HARRIS, Homer, Michigan, U.S.



ADVOCATE. FARMER'S THE

For Sick Watches, etc.

MAY, 1891

14-tf-M

91

S !

ars nce

ires

of of

ex-

m.

MС

nt., the ock

ers nd A S

7 9

ry, igs the M

M

5

th, rds

ow

nt.

明

+ 9

rd

3-J

ed]." ng ter re Ve old n-to

or [

3

S.

Watches Cleaned for 99c., mail or express return charges paid. ------ A FULL ASSORTMENT OF-----

WATCHES, CLOCKS JEWELRY ALWAYS IN STOCK.

REMEMBER THE 712 MAIN ST., OPP. C. P. R. STATION, WINNIPEG, MAN.

THE BEST VALUE

That can be obtained in a newspaper in this country is The Winnipeg Weekly Tribune for \$1 a year. It is a bright, live, 12-page paper, and contains all the news each week-not a line missed. Address,

> THE TRIBUNE PUBLISHING CO., Winnipeg.



STOCK GOSSIP.

In writing to advertisers please mention the Farmer's Advocate.

The first silo in America was built in Maryland in 1885.

Mr. W. H. Acton, Alexander, Man., has recently sold his Holstein bull, Hero of Athol, to a Farmers' Association at Elkhorn.

The Glenboro people have decided to drop their spring show, and hold a general agricultural show on the 17th of July, and a show of grain and roots in November.

Mr. John Oughten, Willow Brook Farm, Crystal City, Man., reports his Shropshires doing remark-ably well, the lambs coming strong and thrifty, and no trouble whatever.

Mr. Jas. Glennie, of Portage la Prairie, has re-cently received from Ontario a consignment of Jerseys and Holsteins. Mr. G. seems to be a con-vert to the special-purpose-cow doctrine.

Mr. W. H. Hall, editor and proprietor of the Virden Advance, is something of a poultry fancier, and not satisfied to await the pleasure of the hen, has bought an incubator, and will hatch artificially hereafter.

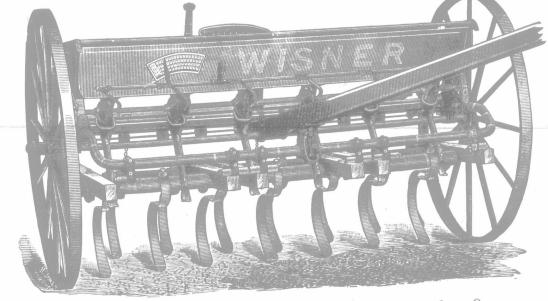
has bought an incubator, and will hatch artificially hereafter. Mr. D. McDonald, of this city, has just purchased from Mr. Lowden the fine imported Scottch Collie Oscar, a winner of numerous prizes in Ayrshire, Scotland. Mr. McDonald purposes breeding these dogs, and importing a fine bitch. Mr. Geo. H. Healey, of Virden, has been appoint-ed by the Manitoba Farmers' Mutual Frie Insurance Co. to look after their interests in that district. This company is said to be doing good work for farmers by providing a safe and cheap insurance. Mr. D. Boissevain, of Hillversum Farm, Canning-ton Manor, has purchased from E. C. Pierce's Short-horn herd the four-year-old roan cow Princess Louise = 13927=, and he two-year-old roan helfer Princess Dogmar = 18178=, both prize winners. Summer fairs seem to be in the ascendancy. For a few years past Brandon has held her fair late in July. This season Glenboro and Moosomin will hold theirs in that month. The best English and Scotch shows are held in June and July, and it is doubtless the best month for Manitoba. Mr. Wm. Moon, late of Brampton, Ont., passed

Mr. Wm. Moon, late of Brampton. Ont., passed through this city on Tuesday, April 7th, on his way to Glenboro, where he is about to engage in farm-ing. Mr. Moon had with him the two Cleveland Bay stallions, Welham (imp.) and Rillington, a Can-adian bred horse of good pedigree. Welham was bred by John Lett, of Rillington. York, England, sire Lord Lancaster, dam by Emperor.

Mr. James Beith, of Robert Beith & Co., came to Manitoba early in April, and bought the entire stock of Hackneys of Mr. R. Kerr, of Portage la Prairie, late of Ridgemere Farm, Reaburn. It is decidedly unfortunate that these animals have been taken from the province. There were five mares, the stallion Jubilee Chief, and three or four year-lings and two-year-olds.

lings and two-year-onds. Mr. S. Ling, Fort Rouge Poultry Yards, Winnipeg, Man., has just imported from Ontario one cockerel and three pullets-Golden Wyandottes. He has had them just thirty days, and in that time the three pullets have layed 65 eggs. Who can beat this? Mr. Ling reports sales good, and birds are doing very well. He is highly pleased with the ADVOCATE as an advertising medium, in proof of which he has ordered his advertisement continued for enother year. for another year.

203



More Popular than ever before.

A. HARRIS, SON & CO., Limited

Manitoba. 9-y-M Winnipeg,

Messrs. O'Donoghue & McOuat, of Stony Moun-tain, have purchased from Gregory & Peterson the imported Clydesdale stallion Geordie of Westfield (7754), Vol. XII., sire Sir Archibald (Buchannan's), dam Jess of Smithston (7953), Vol. XI.; sire of dam Campsie (119), Vol. I. Gordie of Westfield was bred by Alex. Weix Smithston, Croy, Dumbartonshire, Scotland, one of the best Clydesdale breeders in that part of the country. He weighs 1,850 pounds, was foaled June, 1887, and cost \$1,725.

was foaled June, 1887, and cost \$1,725. Mr. J. R. Todd, Hillvlew, Man., writing under date of March 28th, says:- "You will remember Prince of Hillvlew = 13913 =, the Shorthorn bull calf, with which I won first at Virden and Oak Lake fairs. I bave sold him to Messrs. Scott and Pedlow, of Hamiota. I do rot know his weight, but although not quite eleven months old he has a heart girth of six feet, and a flank girth six feet nine inches. I think if you saw him you would say there was another "big calf" as well as that one of Mullin's of Cyprus River. [Prince of Hillvlew is a good one, and the ADVOCATE hopes to see his new owners bring him out next fall in as good form as when he wcn last fall.-ED.] A FINE ANIMAL.-A maiden cow received by

when he won last fall.-ED.] A FINE ANIMAL.-A maiden cow received by Carson & Cowles, butchers, Winnipez, from Westbourne, Man., last week, dressed over 1,200 pounds. The exact weight of the four quar-ters was 1,198 pounds. The animal was six years old, but had never had a calf, and was what you would call "beef to the beels." A finer piece of beef is seldom seen in this market. The cow was raised in Manitoba, and, moreover, was raised by a native of Manitoba. Of course, this animal was well bred, and this only shows what The Commercial has repeated*heretofore, that if Manitoba is to take the place which she is entitled to as an exporter of stock, more care must be given to breed. It is just as cheap to ship a fine animal to market as a poor one. No matter how well fed cattle may be, unless they have the breed they do not make the choicest beef.-[Commercial.

FARMER'S ADVOCATE. THE

MAY, 1891

NOTICES.

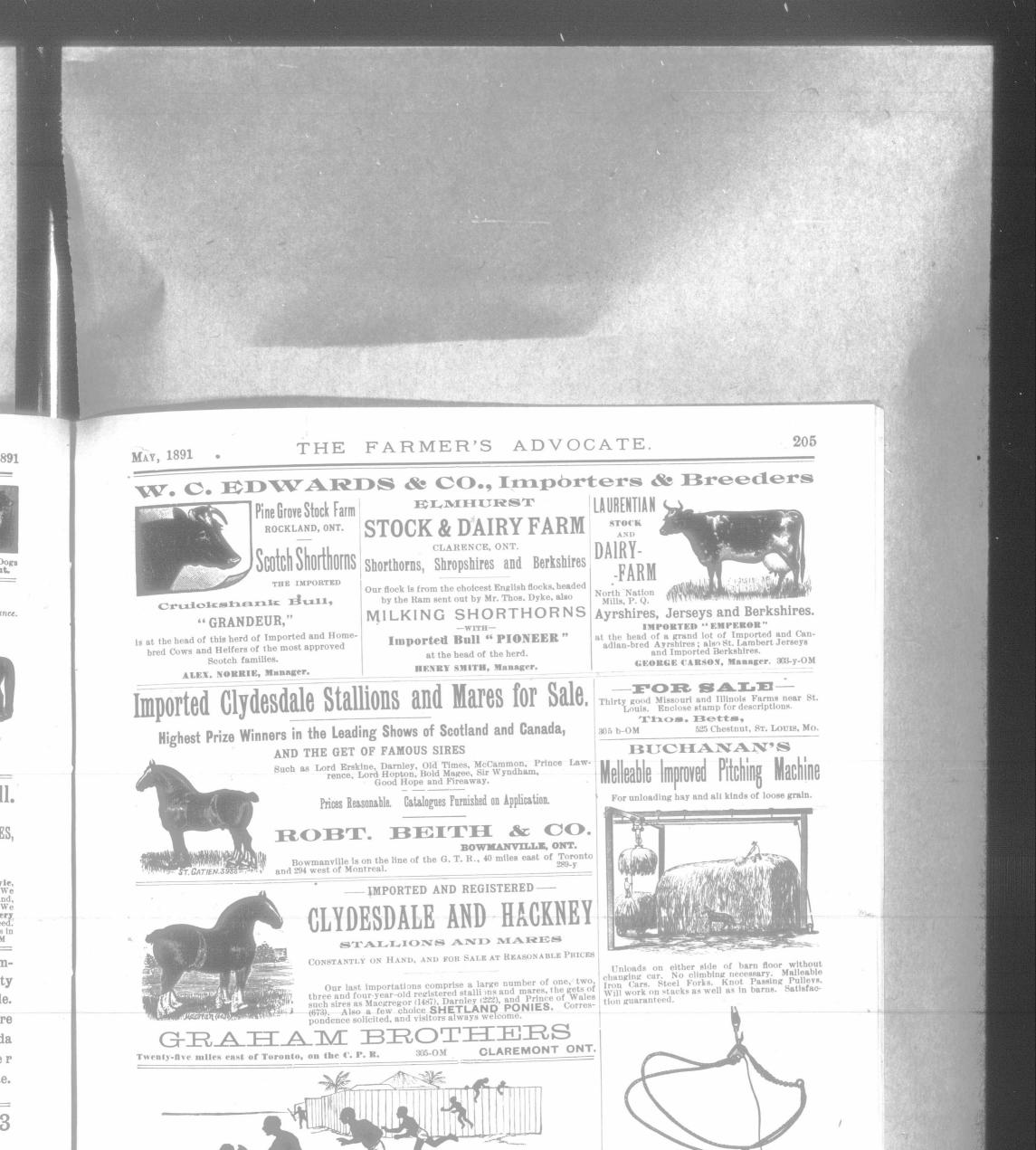
204

R. Y. Manning, Manager of Grange Supply Co., writes:--"We send you another of our catalogues, which are in great demand. There is not a mail that comes to hand but that there are such state-ments as, 'seen your ad. in FARMER'S ADVOCATE.'"

that comes to hand but that there are such state; ments as, 'seen your ad. in FARMER'S ADVOCATE.'.'







OF ITI THE VIM AND BUOY-OANCYI HAVE YOU EVER BEEN A PRISONER? ARE

YOU A PRISONER NOW? DOES DISEASE HOLD YOU? ESCAPEI YOU CAN. COMPOUND OXYGEN WILL HELP YOU HERE. COMPOUND OXYGEN IS A CONCENTRATION OF OZONE. IT IS CHARGED WITH ELECTRICITY. INHALED TO THE LUNGS IT SENDS A GLOW OF REVITALIZATION ALL THROUGH THE SYSTEM IN ORDER TO INHALE COMPOUND OXYGEN IT MUST BE RELEASED FROM THE INHALING APPARATUS BY HEAT. THIS SENDS A WARM, OXYGENATED VAPOR TO THE BREATHING SURFACES THAT IS NOT ONLY MOST SOOTHING AND HEALING, RUT IS MOST EFFECTUAL IN REMOVING CLOTS AND OBSTRUC-TIONS. COMPOUND OXYGEN MAKES STRENGTH. THAT'S

1

THE POINT; AND STRENGTH IS THE SPECIFIC OF ALL SPECIFICS TO WORK WONDERS FOR THE SICK MAN.

19

1-

ld

2;

or 18-

r

l,

),

e

3.

).

of

A BOOK OF 200 PAGES WILL TELL YOU WHO HAVE BIEN RESTORED TO HEALTH AND STRENGTH BY THE USE OF THIS POWERFUL REMEDIAL AGENT.

THE BOOK IS FILLED WITH SIGNED INDORSEMENTS, AND WILL BE SENT ENTIRELY FREE OF CHARGE TO ANY ONE WHO WILL ADDRESS

DRS. STARKEY & PALEN, NO. 1529 ARCH ST., PHILADELPHIA, PA. 120 Sutter St., San Francisco, Cal. 58 Church St., Toronto, Canada.





Dealings Solicited Only With Responsible Parties. Address-304-a-OM The STRINGER CART CO., LONDON.

WILLIAM EVANS, Seedsman to the Council of Agriculture for the Province of Quebec, importer and grower of

Field, Carden, Flower Seeds AGRICULTURAL IMPLEMENTS,

Guano, Superphosphate

and other fertilizers.

WAREHOUSES: Nos. 89, 91 & 93 McGill Street, Nos. 104, 106 and 108 Foundling Street, and 42 Norman Street,

MONTREAL.

Orders respectfully solicited. French and Eng-lish catalogues on application. 30'-c-OM



has[bargains in Iowa, Southern and Western States 294-y-OM

Everybody wonders how we can make them for the money. We offer to every person sending us \$16 a good, strong Road Cart, equal to any \$35 cart ever yet put on the market. We use none but the very best material and work-manship. We guarantee that. We do not want agents, we prefer to sell direct to the public. The following is the specification of the

CHEAPEST AND BEST CART IN CANADA:

to the material, especially the Wheels and Woodwork used in the construction of these now famous carts. The style of the cart is without a doubt the very best pattern ever produced. It is absolutely without the customary horse motion that is so common with the great majority of road carts.

PRICE.—Only \$16 F. O. B., Hamilton, Ontario, 'We pay no freight and allow no cash discount. Our terms are spot cash with the order. Send money by registered letter or post-office order. We ship promptly.

In Quantities of Half-dozen or more, we quote Special Price on Application.

HARNESS.-Send for catalogue, giving full description of our \$10, \$13 and \$15 single ness. They are remarkably good value. harness

SCALES. —To any person sending us \$5 in a registered letter, we will ship one of our 240 D. Union Scales, or for only \$12,90 one of our 1,000 b. Farmers' Platform Scales on wheels. These goods are first-class quality and low in price. Send for catalogue. These goods are

TERMS.—Our terms are cash with the order. We ship no goods without being first paid for them. We sell too cheap to run any risk whatever of payment.



94 JOHN STREET SOUTH, HAMILTON, ONTARIO. See Send us \$2 for the best tree sprinkler made 305-a-OM





nd eel il-

nt

rst nt.

).

-

JINC ONDIM ICO



Our stock will be found most complete, and a prices cannot be undersold.

15-tf-M

WNL. BELL. 288 MAIN STREET

FREEMAN'S FERTILIZER WORKS.

WANTED PUSHING AGENTS

OFFICE: 255 to 265 James-St. North, HAMILTON, ONT 303-2-у-О М

