first horse to lower the colors of his sire, winning The grass you feed, the grain you grow or buy, will 1898, 1899 and 1900. Buscot Harold is the sire of on which they grew.

many winners, and was let for £1,000 for one season. "It is true that grass and grains alike take some

istic is weight, and in this respect he is probably with- the oxygen he uses from the air. All the other out a rival in the country. A dark brown, with white elements that the horse requires he must get out of markings, bred by Mr. J. Ball, Chester, owned by the ground, and ground differs as much as do the Earl Egerton, of Tatton, Knutsford, Cheshire, and climates of different sections. In one locality the toaled in 1900, he is by Conquering Harold, out of land will be rich in lime and poor in potash; in another Sandycroft Rose, by The Friar. In 1904 he came out it will be rich in iron and potash and contain but at London and ran a neck-and-neck race with Birdsall little lime. In another region it will be rich in every tion are continuing their premiums for milking Menestrel for the class honors. He then won the £50 necessary element excepting phosphorus, and so on Shorthorns for the big shows of 1907. The shows Gold Cup at the Royal Lancashire, and was second through a long scale of variations. at the Yorkshire. In 1905 Tatton Friar again won the Royal Lancashire Gold Cup, and at the beginning essential elements of the horse's body, sodium and tion gives \$400 to each, in two classes, cow of this year experienced very hard luck in not getting chlorine, is but little contained in any food-stuff, so three years and over and cows under three years. of this year experienced very hard luck in not getting the championship at the Shire Show, London, for it was only after a long struggle that he gave in to Present King II., and in many opinions the verdict should have gone in his favor. This horse seems to have a very bright future before him as a sire; his stock are coming out well, and win in the show-ring the best of common salt plays three great functions in the association duplicates horse's body.

"First.—It furnishes him with gastric juice with of Shorthorn cattle.

"Second—It furnishes him with soda for his bile." among the best of company.

The last of the stallions dealt with has probably been seen in the flesh by many Canadians who peruse these pages. This is Girton Charmer 20515, which was included in Lord Rothschild's exhibit at Toronto last September. He is a brown, foaled in 1901, sired by Normaer of Batsford, dam Southgate Charm, by Harold. This horse is rather a different type to what is commonly seen in the showring. He does not carry quite such a profusion of feather as is prevalent to-day, but, nevertheless, he is a sire of good results would appear just as abundant as that sterling merit, and every inch a cart horse of the in the field on which the horses did do well. The weightiest class. A complete list of Girton Charmer's cause of this variation on the same farm is due to the and junior champion at Shire Show in 1904, and first and supreme champion at Shire Show in 1905.

We now come to the females, on whom so much of a stud's success depends, for, without a good and, above all things, sound mare, it is useless to attempt

Princess Beryl fills the eye as an ideal Shire brood mare. She is a tremendous animal, showing wonderful quality, with a roomy body, carried on magnificent limbs. Her pasterns are good, feet strong and open, while the quality of her feather is perfect. She is a member of the famous Tring Park stud, owned by Lord Rothschild, bred by Sir Henry Ewart, and is a black nine-year-old daughter of Prince Harold and Jewel, by Electric. Many honors have fallen to her share, including (1904) fifth, Shire Show, London, in strong class: first and champion, Shire Horse Show, London, 1905; and first and reserve champion, Shire Show, London, 1906.

Sussex Blue Gown is a grey six-year-old, by Nailstone Cœur de Lion 16269, dam Sussex Blue Bell by Victorious. She was bred by Mr. T. Luckin, and him this spring? If so, how many without injuris a considerable prize-winner, her victories including ing him? Also what should I feed him on, to first and champion at Shire Show, London, 1906. She was sold for 510 gs. to Earl Beauchamp, Madresfield, Malvern, after the Shire Show. Sussex Blue Gown is a grand, upstanding mare of very striking appearance, with immense bone and substance which generally carry to the fore in the show-ring; There is the further danger though, of the stock but in spite of these, she hardly displays the sweet of so young a horse not coming to so full a size

youngsters, which give an excellent idea of what the colt should be extended over a long season, A Shire colt should be. Mr. F. E. Muntz's King say from May first to the middle of July and Forest is a two-year-old son of the renowned stockgetter, Lockinge Forest King 18867, out of Lockinge Dimple. In 1905 he was unbeaten at the foal shows; in 1906 he was second to a colt by the same sire at the Shire Show, London, and since then he has won first at the Royal and several other shows. He is a beauti- best, but give him plenty of fresh air, light work an abundance of flat bone and good feather.

sire Tatton Friar, dam Moor's Star, by Regent II. She was bred by that enterprizing young breeder, Mr. Noel Torwood, of Whitechurch, Salop, and is owned by Mr. Egerton Orme, Ash, Etwale, Derby. This filly is quite one of the best of her age seen out U.S. Clydesdale Men put up Bars Against for some time, combining size, weight and quality, whilst in the all-important points of feet, joints and feather, she bears the closest scrutiny. Her prize-list is a very considerable one for so young an animal, including first in open and local classes at Royal porters' Association decided at a meeting re- 2260 miles; 94c. per cwt.

The Chemistry of Breeding,

An article from the pen of Dr. J. C. McCov, the

tirst and champion at the Shire Show, London, in contain only those elements that composed the ground

In Tatton Friar, we come to a younger horse, and properties from the air, but these are the gases, carone of a totally different stamp. His great character-bonic acid and nitrogen. The horse himself takes bonic acid and nitrogen. The horse himself takes

to have it in the horse's body, it must be given to

Second.—It furnishes him with soda for his bile

and blood. 'Third.—It assists in the passage of the digested

food in the lymph vessels, and into the blood vessels.

while on another they would not do nearly so well. In such cases the pasture of the field that did not give complete provender.

'I wish, also, to say something as to the acidity of grass, as applied to haymaking. At night grass is full of acid; on cloudy days it is acid; in the morning and evening it is neutral in reaction. At midday, with the sun pouring down its life-giving rays, all the grass is strongly alkaline. This is the time to cut hay—from 10 a. m. to 3 p. m. Cut your hay on sunshiny days and toward midday; then cure it in the cock, to avoid acid fermentation in the barn, and ordinary hay of commerce.

Using Two-year-old Stallions.

A Saskatchewan reader says: "I have a stallion colt that will be two years old in May. He has wintered well being fed on hay with a small ration of oats and been let out in the yard to run on all nice days. Could I breed some mares to help get results?"

A colt of this age might easily do a season of feminine character one likes to find in a brood mare, and possibly of not being so rugged and hardy. Our series concludes with two very successful To partially avoid this danger the services of giving him not more than two mares a day. Unless he refuses mares there will be no need of feeding him anything but hay, oats and bran. Whatever feed will keep him in good health is ful colt, brimful of quality, an excellent mover, with and fresh water. If he is a shy breeder he will Combermere Abbess is a black-brown yearling filly, refuse to serve mares in milk, but will take others, and should be handled accordingly until they become less particular.

Scotch Horses.

A press report states that the executive of miles; 94c. per cwt. the American Clydesdale Breeders' and Im- Canadian Northern—Strathcona to Montre cently to repudiate all animals registered in the Clydesdale Stud Book of Scotland, that are imported to America, whose registration does not hay \$20 per ton. comprise at least five full-blood crosses.

This is in line with a notice of motion (Canadian \$1.00, hay \$30 per ton. In Canada, west: Ha Delaware breeder, who owns the great young stallion, Admiral Dewey, 2.04%, on the "Chemistry of Breeding Trotters," promises to attract much attention. In this article, in the Horse Review, Dr.McCoy meeting of the Clydesdale Horse Association of says:

Canada, February 8, 1006, 'That this Association Canadian shipper has the advantage over the contain in a soluble form do not accept pedigrees for registration in the American in point of freight rates and feeding every single element that is needed for growth, repair Canadian Clydesdale Stud Book from any country charges, but these advantages are more than of of used-up tissue, and the production of heat and whatever, that do not come up to the same stand- set by the difference in time, Canadian store

STOCK

(Contributions invited, discussions welcomed.)

Prizes for Milking Shorthorns.

The American Shorthorn Breeders' Association to receive the money are the International 'Chloride of sodium, a substance containing two American, Royal and Hamline. The associa three years and over and cows under three years and for the state fairs \$200 each, provided each "Common salt plays three great functions in the association duplicates the money. It was decided also to adopt the single judge system at the show

Sheep Shearing and Sheep Feeding,

The appetite of the public for mutton does not It assists in the passage of the food elements from abate one jot, the price to be paid the retailer for joints being the main deterrent to the conthe blood vessels into the tissues. for joints being the main deterrent to the con-"Many of my readers have no doubt noticed that sumer. At Port Arthur the fattening station on a given farm the horses would thrive on one field, written up and illustrated a year ago in this paper is still in operation, and rather increasing its output than otherwise. The sheep are finished on screenings procured from the elevators there, and give good returns for the feed. A honors, did space permit, would doubtless be one of interest. Suffice it to say he was first and reserve junior champion at London Shire Show in 1903, first the plants grown in it. A complete soil furnishes There are about ten thousand sheep in the complete provender and innion at London Shire Show in 1903, first the plants grown in it. A complete soil furnishes There are about ten thousand sheep in the complete provender, an incomplete soil furnishes in- yards there at present, the market for the finisher stuff being Toronto. These sheep are raised out West and are brought down late in the fall to Port Arthur.

The Central Alberta Live Stock Growers' Association,

The main feature of this convention, held II you will have an article worth, as a feed, double the Red Deer a short time ago, was the attention given to the cost of marketing cattle and the various hindrances interposed to prevent the greater growth of the live stock industry out West The range men were not there in force, but we present the figures to our readers as given as the convention. The president of the Red Deer board of trade called attention to the great development of the cattle business in Alberta and the large sums paid annually to the stock raisers which, passing through the usual channels of trade, produced that increasing volume of business characteristic of the Northwest. He twenty to forty mares depending upon his hams and bacon while Canadian packers were deplored the large importation of American able to secure less than one fifth the number of hogs they were able to handle and Alberta coarse grain selling at beggarly prices. This grain should be fed and if properly fed would bring to the far mer and stockman double the price now realized for it.

> The president, G. F. Root, called attention to the fact that cattle were bringing about \$20.00 less in Winnipeg than were the same grade of cattle in the United States. The generally accepted explanation of this fact is the higher freight in Canada than on the American lines and with a view of ascertaining to what extenthis is true, he had instituted a careful inquiry into the matter and had ascertained the following

> Great Northern west of St. Paul 1501 miles rate 71c. per cwt. Great Northern east of St. Paul 2581 miles

> rate 99c. per cwt. Canadian Pacific—Stettler to Montreal 243

FEED CHARGES.

In U.S.A. west: Corn 75c. per bush., oats 6c. In U. S. A. east: Corn \$1.00 per bush., oat

In Canada, west: Hay \$18 to \$20 per ton.

From these figures it was evident that ti "The food of the horse is grads and grain. Grass and grain grow about everywhere the little is bred, or you can purchase there in the drastate and little them given to your horse. So, you can ge for spice the horse is a simple matter. Not so, less ever admission to the ports of Canada.

Whatever, that do not come up to the same stands set by the difference in time, Canadian stock and grain grow about everywhere the little ports of registered sires for mares being moved at less than half the speed of the stock trains on the American lines, and he cited the horse is a simple matter. Not so, less ever admission to the ports of Canada.

The food of the horse is grads and grain. Grass and grain grow about everywhere the little ports of Customs his own experience in importing a car load of the horse is a simple matter. Not so, less ever admission to the ports of Canada. hour between St. Paul and Red Deer.

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