

THE HORSE.

Guard against scratches and itchy legs, a bad ailment in horses at this season. Keep the horse conditioned properly and the legs well cleaned.

A water-proof covering extending from the back saddle over the loins of the work horse is a very useful protection to the animal in weather such as we experience in the fall and spring.

Do not depend on the blanket to provide that glossy appearance of the hair which horsemen so admire. Blanketing will not, of itself, provide a gloss that will last. It comes only from conditioning and grooming.

Aim at Perfection.

The horse is not a machine but it provides power just the same, and is subject to the same wear and tear. If we do not aim at perfection in our breeding operations we get horses weak in one or more parts, and thus the whole construction is faulty. With this in mind, Carl W. Gay, a good horse authority, says: "The durability of any machine is a matter of construction, covering the grade of materials used, the assembling of all parts, the alignment and adjustment of all bearings and wearing parts in order to minimize friction, distribute wear, and to facilitate operation in general. Allow any little cog to slip or an adjustment to become displaced, and either the whole machine is rendered useless or its operation is greatly impaired."

This principle is quite applicable to horse breeding. We must get the material that will wear. The conformation that permits of no jar or friction and the weight that provides ample power.

Mature Horses Difficult to Obtain in Scotland.

There has been considerable talk in horse circles regarding the Clydesdale stallion imported by the Government of Alberta and the move in the same direction made by Saskatchewan. The latter Province, however, has not been able to get a mature horse to their liking.

The Saskatchewan delegation, consisting of Dean Rutherford, Robt. Sinton and Wm. Gibson, who on behalf of the Saskatchewan Government went over to Scotland to purchase a Clydesdale stallion, have not been successful in securing a mature horse. Good horses are scarce, and Scottish breeders have put a price on their proven sires that ensures their remaining in that country. Unable to secure a mature horse, the committee purchased a pair of what are regarded as the best yearlings in Scotland. These are Bonnie Fyvie and Craigie Ensign. Bonnie Fyvie is sired by the well-known Bonnie Buchlyvie, and his dam is by the good breeding horse, Marcellus. Craigie Ensign is sired by the well-known Litigant and out of a Montrose-Mariner dam. This colt was first at the Royal and Kilmarnock, and is said to have exceptional quality and movement. They are said to be a pair of grand colts, combining individuality and breeding hard to excel in any country.

Horse Enthusiasts Meet in Chicago.

A notable gathering of horsemen and allied interests took place in Chicago during the week of the International Live Stock Exposition. Delegates from the four corners of the United States and Canada gathered in convention and discussed the work which the Horse Association of America is doing to promote the breeding and use of horses. This organization is doing a vast amount of work, first in gathering proof of the superiority of horses and mules in various classes of work; second, encouraging the use of horses in non-agricultural work; third, encouraging the use of horses in agriculture; fourth, encouraging the use of horses and ponies in the field of healthful recreation and sport; and fifth, stimulating productivity of the right kind.

A regular experience session was held and first addressed by Hamilton Bassett, who touched upon farming and teaming conditions on the Pacific Coast, bringing out facts relative to the working range of the horse and the necessity of breeding bigger and better horses for both agriculture and teaming work. He cited the fact that in Belgium, where costs are figured very closely, horse-drawn trucks successfully competed with both railroads and motors in shipping over a route of eighty miles from Brussels to Ostend. He claimed that where speed is the object and cost no consideration, both beat the horse, but where economy of operation is the first desideratum the horse excelled all comers. Men engaged in cartage and transportation testified to the economy of the horse in providing quick delivery and lower costs.

The Horse Association of America is doing some good work of an investigational nature. A very extensive survey is being made, a close touch is kept on all experimental work at government institutions, and information is being compiled that shows the horse up in its true light as an economical producer of power.



A Pair of Future Drafters.

LIVE STOCK.

Feeding Champion Steers.

At the Chicago International a carload of Angus steers were champions in keen competition, and it is rather significant that this is the fifth time that their owner was successful in securing the coveted honor. E. P. Hall, the owner, is a natural cattle man. His father before him was successful in the business. The carload of yearlings which won this year were selected in July 1919 and were delivered at weaning time in October. There were about a hundred and fifty head of these calves brought on to the place last fall, and from these were picked six carloads which were brought to the show this year. Mr. Hall is particular about seeing the sire and dam of every calf, as, in order to be successful, the cattle must be right to start with. The cattle were started on shelled corn and oats, two parts corn to one part oats and all the clover hay they would eat, besides good bluegrass pasture. A little oil meal was used, and this made up the ration through the winter and until June 1 this year. Mr. Hall was fortunate in living in a section where the cattle were on pasture all winter. After June 1, molasses feed was used in addition to the feeds above mentioned. About the first of September the prize-winning animals were put in a dry lot to harden



Hampshire Down Ewe.

Champion at London for Telfer Bros., Paris.

their flesh, and from October 1 until the time of shipping cooked barley was fed every night, in addition to the regular ration. Mr. Hall likes barley to put his cattle in a high finish. The week the cattle were shipped, dry, ground barley was substituted for the cooked barley. Conditions in the Central States are considerably different from those in Ontario, but feeders here could emulate Mr. Hall in the selection of their stock. Barley is also grown quite extensively in Ontario, but as a rule it is not fed to the cattle, being kept more for the hogs.

The grand champion steer of the show was claimed by the judge to more nearly approach the perfect fat bullock, from the standpoint of type, smoothness of covering, and quality of flesh, than any other steer he had the pleasure of examining. The steer was calved in October, 1918, his dam being a pure-bred Angus cow. He suckled his dam for a few months and then was put on a nurse cow. Clover hay, silage, oats and corn comprised the bulk of the ration. As a senior calf he was shown at the International, but, instead of heading his class, he stood at the bottom of a line-up of thirty-five. However, he was taken back to Purdue University and there for the first four months he gained 40 pounds a month, and made an average gain of 50 pounds a month the last eight months. At the time of showing he weighed 1,365 pounds. This steer was fed a small amount of clover hay once a day and 10 to 12 pounds of good silage, both winter and summer. He was never on pasture but was turned out at night on a dry lot for

exercise. The concentrate ration was composed of one and a half parts corn, one part oats, one-third part cooked wheat, and one-sixth part ground barley. The daily allowance ranged from 16 to 18 pounds. He proved to be a good feeder and never missed a meal. It will be noticed that the ration above mentioned in the most part can be grown on the average farm.

Imported Shorthorns Make \$1,244 Average.

The sale of imported Shorthorns held at Toronto, on Friday, December 3, by Hon. Duncan Marshall, T. A. Russell and J. A. Watt, was, despite the present unsettled conditions, one of the most successful sales of imported cattle held in Ontario this year. For weeks past it was evident that there was a feeling of uneasiness abroad, but with 44 lots of imported cattle making the splendid average of \$1,244, it would seem that reduced values are more imaginary than anything else. A further resume of the prices paid shows that the 15 Canadian-bred cattle in the sale made an average of an even \$500, nine of these being young bulls which made an average of \$755. Four imported bulls made an average of \$1,006, with Blacairn Laddie (imp.) a nineteen months roan Butterfly-bred bull, got by Collynie Golden Sun, making the top price at \$2,000. He went to the herd of Harry McGee, Islington, Ont. The top price for females was \$3,000, a figure which was reached on two occasions. Sir Frank Bailey, Oakville, took one of these females, Inverness Princess Augusta (imp.) a three-year-old Bruce-Augusta heifer, got by Abbotton King Tulip, and John Ferguson, St. Thomas, secured the other in Gainford Marigold 4th. (imp.) a roan two year-old Bruce-Marigold heifer, got by Ruler. The latter heifer was one of the winning get-of-sire group at the "Royal" this year, and had a three-weeks-old heifer calf at foot, by a Gainford Hall sire. Five American breeders were numbered among the purchasers, taking 14 head in all, at an average of \$928 per head, or \$127 less than the general average of the sale. The cattle were brought forward in splendid condition, and the sellers have reason to feel that in distributing cattle of this sort they have done something for the breed in America, even though the margin of profit received was not sufficient to make it very remunerative. The attendance was large, although at no time was the bidding brisk. The sales in detail follow:

FEMALES.

Celia 24th, J. C. Strickland, Lakefield.....	\$ 425
Shenstone Miss Ramsden, Park Salter, Kansas.....	1,900
Golden Bud 2nd, Sir Frank Bailey, Oakville.....	1,900
Gay Empress 2nd, A. G. Farrow, Oakville.....	575
Snowdrift 2nd, Geo. Spackman, St. Thomas.....	1,650
Duchess Annie, Geo. McLaughlin, Oshawa.....	1,500
Madge 11th, H. Yates, Sault Ste. Marie.....	1,450
Lady Chilton 12th, Park Salter.....	700
Lawton Dorothy 3rd, J. M. Gardhouse, Weston.....	2,400
Lawton Mary, Fred J. Curry, Markdale.....	1,075
Roan Dainty, Geo. McLaughlin.....	1,200
Blushing Gem 2nd, J. C. Strickland.....	600
Inverness Princess Augusta, Sir Frank Bailey.....	3,000
Lady Lancaster 5th, W. A. Dryden, Brooklin.....	1,500
Bonnie Belle, H. Yates.....	1,300
Bright Queen Rothes, Sir Frank Bailey.....	1,200
Lothian Bertha, A. G. Farrow.....	1,000
Joan 6th, J. Y. Norris, Campbellville.....	750
Lothian Juliet 2nd, John Gale, Elora.....	1,125
Mary Ann, Jas. Moore, St. Marys.....	975
Gainford Marigold 4th, John Ferguson, St. Thomas.....	3,000
Gainford Broadhooks 3rd, Sir Frank Bailey.....	2,000
Gainford Fairy Queen, Leslie Smith & Son, Minnesota.....	1,400
Victoria L. 75th, A. J. Bigalo, Orono.....	1,000
Congalton Rosemary 10th, John Miller, Claremont.....	1,550
Idylwild 11th, C. H. Scott, Hampton.....	275
Auchnacree Iris 2nd, Leslie Smith & Son.....	550
Isabella, Park Salter.....	925
Heather, Harry McGee, Islington.....	1,500
Scotch Heather 7th, Pine Run Farm Pennsylvania.....	375
Red Orphan, Col. Deacon, Unionville.....	1,000
Fingask Lancaster, John McEachran, Appin.....	1,050
Lothian Watercress 4th, Robinson Bros., St. Mary's.....	1,025
Violet of Marden, John Miller, Jr., Ashburn.....	425
Elmbrook Roan Lady, Jas. McGilloway, Shakespeare.....	425
Bloomhill Milkmaid, Archie McLean, Paisley.....	725
English Lady 60th, Earl Scott.....	325
Jennie 2nd, John Miller Jr.....	750
Lawton Rose Merrilces, Pine Run Farm.....	1,050
Inverton Rowena 3rd, J. F. McKenzie, St. Mary's.....	1,050
Buttercup, Pine Run Farm.....	1,025
Ruby 3rd, Pine Run Farm.....	700
Crocus Bloom, F. C. Landon, Minnesota.....	1,050
Waterloo Pride, J. R. Wood, Preston.....	725
Doorless Beauty, Lespedeza Farm, Tennessee.....	1,400
Clara 45th, Park Salter.....	700
Caldew Vanity, Robinson Bros.....	1,350
Roan Lady, Pine Run Farm.....	400
Celia Marchioness, Bert Ross, St. Mary's.....	1,100
Rosebud Lass, Pine Run Farm.....	375

MALES.

Balcairn Laddie, Harry McGee.....	2,000
Matchless Knight, Geo. Spackman.....	225
Mayflower's Pride, Roy Lamb, Walkerton.....	750
Clear the Way, H. R. Frankland, Hornby.....	500
Lavender Claret 2nd, C. Running, Camperdown.....	825
Crocus Chief, Ernest Robson, Denfield.....	450
Roan Butterfly, J. F. Warden & Son, Picton.....	475
Lawton Toff, Park Salter.....	1,000
Keir Knight, Geo. Spackman.....	575