

this shape is the one for strength and bulk, to receive and bear up against the pressure of the collar; while, at the same time, sufficient room is secured for that expansion of the lungs caused by slow regular work. But if the chest is circular, let it be at the same time deep, or else the lungs may be cramped. A horse with a shallow chest is worthless for any purpose. The rule then, is this: For a draft horse, a circular but deep chest; but as you pass through the different degrees of speed, up to the racer and trotter, the chest must increase in depth compared to its roundness, until, for the highest rate of speed, you must have a chest as deep as a greyhound, and at the same time not lacking in breadth."

The Horse for Profit.

Experience has demonstrated that to raise horses for profit, they must have size, weight and strength beyond the common scrub horse that comprise two-thirds of the horses heretofore raised in the west. The sales at the Union Stock Yards, Chicago, the past week, are a fair sample of the selling value of our western horses. Common horses sold at \$65; streeters, \$95; cavalry horses, \$125; express horses, \$150; draft, grade Norman horses, \$250.

For heavy freighting in the cities the heavy horses are a necessity, and perhaps the increased price demanded for them is because farmers who have a team of such horses are not anxious to part with them. They can haul a load worthy of a first-class farm team. A pair of them can draw the sulky plow without any help, and do the work of three common horses.

Then we must conclude that if these heavy horses sell for the most money, and are so desirable on the farm, then they are the most profitable horses to raise.

These heavy horses are now being extensively raised all over the west. The Percheron-Norman, Clydesdale and English draft horses, imported from France, Scotland and England, and crossed upon our common mares, produce this most desirable, heavy, strong, large horse. Trotting horsemen still sneer at these imported horses, and say they are too heavy and too big. That we may admit, but who is going to plow a \$2,000 imported horse? Yet these horses in Europe stand at the head for serviceable work, where they are next to steam plowing for their thorough tillage. Their grades make the most desirable American horses for all work. While the thoroughbreds are superior for light harness and fast time, we cannot expect to get a horse for all work from them, bred as they have been for generations for their speed, to run or trot a mile or two in the quickest time in such gaits as are never used on the farm.

These heavy grades mature early, can be put to work while young, and pay for their raising, then go into the market at four years old and command the highest price and are always in demand.

Beans for Horses.

The Secretary of the American Institute Farmers' Club, speaking of beans for horses, said that they form a striking illustration of the principle that the nourishing or strengthening effects of the different articles of food depend more on some peculiar property which they possess, or some combination which they form, than on the actual quantity of nutritive matter. Beans contain but 578 parts of 1,000 of nutritive matter, yet they add materially to the vigor of the horse. There are many horses that will not stand hard work without beans being mixed with their food. Observant travelers have discovered the difference of spirit and continuance of their animals in proportion as they allow or deny them beans on their journey. They are of great assistance to the hard-worked coach horse; washy horses could not get through this work without them, and old horses would die under the task imposed upon them. Beans afford not merely a temporary stimulus, but they may be used daily without losing their power or producing exhaustion. They should not be used whole or split, but crushed. Some persons use chaff with beans, instead of oats. With hard-worked horses this might be allowed, but in general beans without oats are too binding and stimulating. Beans should be at least twelve months old before they are given to the horse, and care should be taken to prevent them from getting damp and mouldy, which will at least disgust the animal if they do not harm him. Then, too, mouldy beans harbor an insect which destroys the inner part of the bean. When converted into meal beans are good for fattening hogs.

Quebec Provincial Exhibition.

The Provincial Exhibition was held at Quebec, the ancient capital. It was largely attended and was a great success—one of the most successful ever held in the province. The number of entries far exceeded that of former years, while the receipts taken at the gates during the Exhibition amounted to \$6,250. The Exhibition grounds are situated at one of the highest elevations in the city, and the weather was all that could be desired.

The Exhibition was opened by his Excellency, the Lieut.-Governor, accompanied by his staff, and by the principal officers of the Exhibition.

The departments were all well represented, especially that of agricultural implements, which presented a very large number of new machines. The exhibition of mowers, reapers, plows, harrows and other agricultural implements was varied and excellent. In horses, cattle, pigs, sheep and poultry, the animals were such as countries longer noted for their agricultural progress might be justly proud of.

PRIZE LIST.

HORSES.

THOROUGHBREDS.

Stallions, 3 years old and upwards, A C Stewart, 1; J Hickson, 2; L Fillian, 3.
Brood mare and foal, J Hickson, 1; A C Stewart, 2.
One year old fillies, M Swift, 1.

COACHING STALLIONS.

A Casgrain, 1; P A Lachance, 2.
PURE BREED CLYDES.
Stallions, 3 years and over, J L Gibb, 1; Thos Brown, 2; L C Brosseau, 3.
Two year old fillies, Thos Irving, 1 and 2.

PERCHERONS.

Stallions, L Dery, 1; C G Powell, 2.
Stallions weighing 1,300 lbs and over, J Gagnon, 1; L Houle, 2; H Brodie, 3.
Stallions weighing less than 1,300 lbs, B Bernard, 1; N Lavergne, 2; P Gagnon, 3.
Three year old stallions of any breed, L Trudeau, 1; V Coupal, 2.
Two year old stallions of any breed, V Giroux, 1; G Broomer, 2.
One year old stallions of any breed, L Durand, 1; M Walsh, 2.
Brood mare weighing 1,300 lbs and over, with foal, L Brosseau, 1; Jas Henderson, 2.
Brood mare weighing less than 1,300 lbs, with foal, James Henderson, 1; C Dion, 2.
Three year old filly of any breed, C Jobin, 1; P Gagnon, 2.
Two year old filly of any breed, M Desmarais, 1; Thomas Irving, 2.
One year old filly of any breed, Jas Henderson, 1; P Cantin, 2.
Pair of draught horses, Lieut-Col Strange, B Battery, 1; M Hunt, 2.
Pair of matched carriage horses in harness, W Swift, 1; P Hunt, 2.
Saddle horses, C E Levy, 1; R R Dobell, 2.
Hunters, Jos Hickson, 1; C V M Temple, 2.
Shetland stallions, Jos Hickson, 1 and 2.
Shetland mares, Hon J C McGreevy, 1; Jos Hickson, 2; do, hon mention.

CATTLE.

DURHAMS.

Bull, 3 years old and upwards, A Miller, 1; J L Gibb, 2.
Bull, 2 years old, Joseph Hickson, 1.
One year old bull, Joseph Hickson, 1.
Cow, 3 years old and upwards, J Hickson, 1; J L Gibb, 2 & 3.
Two year old heifer, J Hickson, 1 and 2.
One year old heifer, J Hickson, 1 and 2.
Heifer calves, under 1 year, J Hickson, 1.

AYRSHIRES.

Bull, 3 years old and upwards, G Muir, 1; T Irving, 2.
Bull, 2 years old, J L Gibb, 1; Wm Rodden, 2.
One year old bull, Wm Rodden, 1 and 2.
Bull calf, under 1 year, J L Gibb, 1; J B Desjardins, 2.
Cow, 3 years old and upwards, J L Gibb, 1; Thos Irving, 2; 25 entries.
Two year old heifer, Thos Irving, 1; Wm Rodden, 2; 13 entries.
One year old heifer, Wm Rodden, 1; J L Gibb, 2.
Heifer calves, under 1 year, P G Charlebois, 1; Louis Durand, 2.

GALLOWAYS.

J Hickson, four prizes.
ALDERNEYS.
Cow, 3 years old and upwards, J Hickson, 1.
CANADIAN COWS.
In the class of Canadian cows proof had to be given that the animals descended directly from the first cows imported from France into this country, and that they have not been crossed.
Cows, 3 years old, Chas Jobin, 1; Louis Durand, 2; Wm Meek, 3; 7 entries.
Two year old heifer, Wm Meek, 2; no first awarded.

GRADE CATTLE.

Cow, 3 years old and upwards, James West, 1.
Two year old heifer, Wm Coribeu, 1.

One year old heifer, Joseph Hickson, 1.
FATTED WORKING CATTLE—ANY BREED.
Fat ox or steer, Tozer & Co., 1.
Fat cow or heifer, Tozer & Co., 1.
Pair of working oxen, John L Gibb, 1.
For the best herd of Ayrshires, John L Gibb, 1.

SWINE.

YORKSHIRE AND OTHER LARGE BREEDS.

Boar, one year and over, Thos Irving, 1; A Stewart, 2.
Boar, under one year, T Irving, 1; A Stewart, 2.
Breeding sow, one year and over, A Mousseau, 1; A Stewart, 2.
Sow, under one year, T Irving, 1.

SUFFOLK AND OTHER SMALL BREEDS.

Boar, one year and over, W Tozer, 1; A Stewart, 2.
Boar, under one year, L Oulette, 1; E Kenna, 2.
Breeding sow, one year and over, D Barnard, 1; Charles Paradis, 2.
Sow, under one year, Thos Irving, 1; E Talbot, 2.

BERKSHIRES.

Boar, one year and over, A Mousseau, 1; P G Charlebois, 2.
Boar, under one year, F Perrault, 1; A Mousseau, 2.
Breeding sow, one year and over, Thos Irving, 1.
Sow, under one year, A Mousseau, 1; R S Frazer, 2.
Messrs. R S Tozer, Quebec, and Edward Kenna, of St. Vincent de Paul, received honorable mention in several of the classes.

POULTRY.

Colored Dorkins, Silver Grey Dorkins, Thos Irving, 1st prize in each. In W. Cochins, Silver Polands, Hamburgs, Black Bantams, Muscovy Ducks and Bremen Geese, J Hickson bore off first prizes. J Johnstone, E Carbray, A Frazer, J L Gibb, M H Taylor, T Gale, H D Moore, R J Tozer, John Hunt and Jas Jeffery took each a first prize.

DAIRY PRODUCTS.

Home-made butter, 28 lbs, O Marion, 1; T Paquet, 2.
Home-made butter for exportation, 50 lbs, Agricultural School, Richmond, 1; J Meloche, 2; P Houghton, 3.
Factory cheese, 30 lbs, A Sauerville, 1.
Cheese, home-made, Jas Cowan, 2.

AGRICULTURAL IMPLEMENTS.

Double furrow plow, Jas Jeffery, 1; W Evans, 2.
Iron plow, Jas Jeffery, 1; W Evans, 2.
Wooden plow, Jas Jeffery, 1; Leamouth & Sons, 2.
Double mold-board plow, Jas Jeffery, 1; Alfred Trudel, 2.
Subsoil plow, no first prize; W Evans, 2.
Heavy harrows, H B & H Jewell, 1; Jas Jeffery, 2.
Light harrows, Jas Jeffery, 1; W Evans, 2.
Drill harrows, Jas Jeffery, 1; P Legare, 2.
Iron roller, Leamouth & Sons, 1; Jas Jeffery, 2.
Wooden roller, Leamouth & Sons, 1; J & S Vessot, 2.
Scarifiers or cultivators, Mat Moody, 1; W Evans, 2.
Grain-sowing machine, J & S Vessot, 1; W Evans, 2.
Beet and carrot sowing machine, E E Spencer, 1; W Evans, 2.
Grass-seed sowing machine, J & S Vessot, 1; W Evans, 2.
Compost sowing machine, E E Spencer, 1; W Evans, 2.
Mowers, M Moody, 1; R Kerr & Co, 2.
Mowers and reapers combined, G M Cossitt and Bro, 1; D McCormick, 2.

The New York State Fair.

The New York State Agricultural Society have held their thirty-seventh annual exhibition at the Rochester Driving Park. There was a large attendance, and it was in many respects very interesting and successful. The leading points in the exhibition were the agricultural implements, the valuable horses in the various classes, the Burden Jerseys, the Jardine Ayrshires, the Wadsworth Princess Shorthorns, the Peck and Cole Devons, the many sheep-pens and pig-pens. All things combined made the success of the exhibition surpassingly great. The illiberality of the Central Railroad in refusing to make a reasonable reduction of rates to visitors had, however, the effect of keeping back many. The total number of horned stock was not far from two hundred; of these forty-five were Ayrshires. The leading interest in that department is said by the *Country Gentleman* to have been the grand display of a Canadian breeder, Mr. J. W. Jardine, of Hamilton, whose Ayrshires "without exception may almost be characterized as faultless models of their kind." One, perhaps the best cow of the herd—Bonnie Jessie, imported in 1873, and a very successful prize-taker—dropped a calf on the ground and died of milk-fever soon after. Of the Jerseys, the next in general interest to the Ayrshires, the recently imported herd of the Messrs. Burden, of Troy, gave special importance to the class. There were, however, many other fine animals in the class, which numbered thirty-two in the whole. There were on exhibition forty-three Shorthorns, and as a class they looked decidedly well. The most interesting group was Mr. Wadsworth's Princesses. Of the Devons, numbering twenty-five in all, there were just two exhibitors, but the show was a good one, all the animals being excellent in quality. Of Holsteins there were a dozen animals shown by the Unadilla Valley S. B. Association. There were three entries of Galloways, and none of Herefords.