

owing to the cold, sunless summer, was not harvested until the last week in September. The long period of growth was of course favourable to the action of the *undissolved* phosphates; but the results are very different from what we might expect. Of the plots, those which had received dissolved phosphates ripened first, and this corresponded with what was observed regarding the turnip crop of the former season at both stations. The advantage was in favour of the *dissolved* phosphates in every plot but one, and this was accounted for by that plot having received better treatment than the rest before the station had come under the care of the H. A. S.; so it was of no use as a means of comparison, and must be left quite out of the count.

And now comes the curious part of the whole, the reversal of the experience of the use of phosphates on the turnip crop.

The barley grown with *undissolved* phosphates contained a larger percentage of water and was less regular in its composition; but the increase of solid matter in the barley grown with *dissolved* phosphates amounted to fully  $1\frac{1}{2}$  per cent; equal, in an acre, to 182 lb. or 16 per cent of solid matter more per acre than the other!

And so it seems that the question is as much in the dark as ever. More experiments will of course be tried this year, and the Marquis of Tweeddale has announced his intention of carrying on an extensive set of trials on a larger scale than usual. One thing is certain, we shall have the question thoroughly worked out, and we must for the present rest satisfied with this practical result: that a good crop of turnips may be grown with mineral phosphate of lime, reduced to as fine a state of powder as possible, and mixed with a small proportion of nitrogenous manures, either in the form of nitrate of soda or sulphate of ammonia, or, which comes to the same thing, a half dressing of farm yard dung. A. R. J. F.

#### “Montreal Poultry, Dog and Pet Association.”

The second Annual Exhibition of the of the “Montreal Poultry, Dog and Pet Stock Association” was held in Albert Buildings, Montreal, on the 4th, 5th, and 6th of February, 1880. Formerly exhibitions of Poultry, &c., were held in connection with the Horticultural Society; but exhibitions have been held by the above society for the last two years and have been very successful; eminently so this last year. The poultry were divided into 60 classes, including 4 for Turkeys, 5 for Duck, 2 for Geese, and shown in pens belonging to the Association. Pigeons were divided into 12 classes; Dogs, in 52 classes.

J. J. ges were: Poultry, G. W. Marshall, of River-Village, Mass.; Dogs, Geo. Walton, Boston, Mass.; Pigeons, J. R. Lykens, Toronto. All of whom gave full satisfaction in their several duties.

Among the Poultry, the Light Brahma class were largely represented, and eminently finer as a class than last year. As will be seen, the largest number of prizes were given to residents of Montreal; the exhibitors having evidently tried during the last year to make the exhibits larger in number, and better in quality, than the year before.

Pigeons were a finer class, and larger in number than before.

Birds were shown that had not been seen in Montreal before for years, and some which had never been seen there at all.

Dogs, as a whole, were not any better than at the last exhibition, and very few first class dogs of any variety were shown. (A miserable set indeed. A. R. J. F.)

Birds, Rabbits, and other pet stock were fairly represented. We refer to the list of prizes granted, giving the names of those to whom they were awarded.

(1). This report was kindly supplied us by Dr. Andrews.

#### List of Prizes, awarded at the Exhibition.

Montreal, 4th, 5th and 6th February, 1880.

Dogs.—Rough deerhound, 1st prize, F Stancliffe. Rough greyhound (bitch), 1st prize, J. C. King. 2nd, Sam Carlsley. White greyhound, 1st prize, James Lindsay. Italian greyhound, 1st prize, P. E. Doyon; 2nd, A. C. Senecal; (pup bitch), 1st prize, A. O. Senecal. Foxhound, 1st prize, F Stancliffe. Spanish pointer (bitch), 1st prize, J. Lymer. English pointer, 1st prize, W. H. Rintoul. 2nd, H. H. King. (bitch), 1st prize, H. H. King. Double-nose pointer, (bitch), 1st prize, W. S. Evans. English setter, 1st prize, F Stancliffe; 2nd, John Ryan. (bitch), 1st prize, W. Prendergast; (pup), 1st prize, F Stancliffe; 2nd, W. Hughes. Irish setter, 1st prize, W. H. Rintoul; 2nd, R. Mc G Stewart. Montreal. Gordon setter, 1st prize, Dr. J. S. Niven, London, Ont. Clumber Spaniel, 1st prize, Wm McGibbon; 2nd, Joseph Hickson; (bitch), 1st prize, Joseph Hickson. Cocker spaniel, 1st prize, Jas. Cunningham; 2nd, M. Holmes. (bitch), 1st prize, Geo. D. McDougall; 2nd, Geo. D. McDougall. English shepherd, 1st prize, Joseph Hickson. Rough coated colley, 1st prize, James Tait; 2nd, N. Prefontaine, Montreal. (bitch), 1st prize, Alex. Chambers, River Beaudette; (pup), 1st prize, Dr. S. J. Andrea. Smooth-coated colley, 1st prize, Thomas Irving, Montreal; 2nd, Thomas Brown, Petite-Côte, Montreal; (bitch), 1st prize, James Tait; 2nd, Wm. McGibbon. Pomeranian (or Spitz), 1st prize, J. A. Parent, jr; (bitch), 1st prize, J. A. Parent, jr. Newfoundland, 1st prize, W. Cowie; 2nd, James McCormack; (bitch), 1st prize, R. A. Elliot. 2nd, W. O'Hara. Mastiff, 1st prize, Richd Fletcher; 2nd, I. J. Rice; (bitch), 1st prize, G. McNider. Mount St. Bernard, 1st prize, Joseph Hickson. (bitch), 1st prize, E. Videt. French Poodle, 2nd prize, Alex. Grant; (bitch) 3rd, Geo. Jordan. Wavy coated Retriever, 3rd prize, John Appleton. Bull terrier, (under 16 lbs.), 1st prize, Geo. Jordan. 2nd, J. R. McLaren, jr.; (bitch), 1st prize, W. Macbeth; 2nd, J. R. McLaren, jr.; (over 16 lbs.), 1st prize, Edw. Auld. Fox terrier, 1st prize, L. Galarneau; 2nd, G. O. Jordan; (bitch), 1st prize, John Roberts; 2nd, George Jordan; (pup), 1st prize, Thomas Feeney; 3rd, Mrs. W. Mackenzie. Black and tan terrier, (bitch), 1st prize, W. Cowie; 2nd, John Roberts. Skye terrier, 1st prize, A. H. Bowman. 2nd, D. J. Laurio. (bitch), 1st prize, W. B. Powell; 2nd, James Flood. Yorkshire blue tan terrier, (under 7 lbs.), 1st prize, John W. Millen; (bitch), 1st prize, W. Cox; (over 7 lbs.), 1st prize, John Weir. Montreal; (bitch), 1st prize, J. and A. Black. Point St. Charles. King Charles spaniel, 1st prize, J. A. Devine. Blenheim spaniel, 1st and 2nd prizes, Jos. Hickson; (bitch), 1st and 2nd prizes, Jos. Hickson. Broken-haired toy terrier, 1st prize, J. Stanford. Best pair smooth-coated puppies, 1st prize, John Roberts. Norfolk spaniels, 1st prize, J. B. Kerr. Otter terners, 1st prize, Dr. J. G. Nichol. Bull dog (over 25 lbs.), 1st prize, W. Macbeth; 2nd, Etienne Lacroix; (bitch), 1st prize, James Strike; 2nd, W. Benoit. Scotch terrier, 1st prize, Z. Benoit; 2nd, John Smith; (bitch), 1st prize, J. Stanford. Smallest dog on Exhibition, 1st prize, John Roberts. Red fox, 1st prize, W. Hughes. Raccoon, 1st prize, W. Hughes. Rats (4 white), 2nd prize, Charles. E. Howard. Montreal. Ferrets (pair), 1st prize, Arthur Nichol, Catarqui, Ont. Guinea pigs, 1st and 2nd prizes, James Smith, 3rd, O. Batch. Montreal.

#### SPECIAL PRIZES.

Bull terrier, J. R. McLaren, jr. Bull terrier, light weight, J. R. McLaren, jr. Toy terrier, (class 49), J. Stanford; (class 50), Wm. O'Hara. Skye terrier, A. H. Bowman. Fox terrier, L. Galarneau. Cocker spaniel, Jas. Cunningham. Greyhound, J. C. King. Rough-coated colley, J. Tait; (pup—bitch), Dr. S. J. Andrea. Best setter, dog or bitch non awarded; smallest dog on Exhibition, John Roberts.

#### CATS.

Tiger cat, 1st prize, Jessie A. Shaw. Maltese cat, 1st prize, W. Winfield. Tortoise cat, 1st prize, A. J. Dawes. Black cat, 1st prize, W. Cowie; 2nd, Lizzie Irwin. Pair white cats, 1st prize, Fred. Greece. Montreal.

SPECIAL PRIZES. — Pair white cats, Fred. Greece, Longue-Pointe, Montreal. Best cat, Wm. Winfield, Montreal. Largest, no 1st prize, J. & A. Black, Pt. St. Charles, Montreal.

#### POULTRY.

Light Brahma, (fowls), 1st prize, J. F. Scriver; 2nd, Thomas Costen; (chicks), 1st, 2nd and 3rd prizes, J. F. Scriver. Montreal. Dark Brahma, (fowls), 1st prize, Arthur Nichol, Catarqui, Ont.; 2nd Joseph Hickson; (chicks), 1st and 2nd prizes, Thomas Hickson, Montreal; 3rd Arthur Nichol, Catarqui, Ont. Partridge Cochins, (fowls), 1st and 2nd prizes, W. Crowther; 3rd, Jos. Hickson. Black Cochins, (fowls), 1st prize, Jos. Hickson; (chicks), 2nd, Jos. Hickson; 3rd, James Hooper. White Cochins, (fowls), Jos. Hickson, Montreal;