

the production of the Corriedale sheep. This is a different thing from the practice of systematic cross-breeding on the range which has been discussed so far. The Corriedale breed originated in New Zealand by crossing of Leicester and Lincoln rams on Merino ewes. The name is derived from the name of an estate at which this work was carried on in New Zealand. The first breeding began about 1868, and the credit of developing the breed belongs to a shepherd by the name of James Little, who about ten years later was found in possession of a flock which he was breeding and developing on his own account. The Merino sheep produces a good fleece, but poor mutton and little of it. However, it can stand hard conditions of the range successfully. The aim of his work was to secure a half-bred type of sheep of a good all-around sort, that is, which was hardy and would produce both good wool and mutton. The method of producing this half-bred sheep is simple enough. The Corriedale is simply an in-bred cross-bred, but when we say it was simple, we fail to take account of the touch of genius involved in the work of selection of the breeding animal that it was thought desirable to perpetuate. The breed is now considered fixed and is recognized as a pure breed in the herd book of the New Zealand Sheep Breeders' Association. The fleece is comparatively long and dense at the same time. The sheep is a hardy, fairly strong-boned sheep of good size, and the lambs in New Zealand run from one hundred to one hundred and thirty or forty pounds at six months, and the wethers grow to such size as makes them almost undesirable if they are kept till after they are a year old.

The Harvey Enterprise.

There may be those who place a doubtful value on a sheep of cross-bred origin, but this is obviously wrong. Many of our best and most profitable English breeds, in fact all of them of the breeds represented in Canada except the Southdown and Leicester, are the result of the judicious use of other breeds to greater or less extent to bring about qualities desired by the constructive breeder. The Leicester has helped most of the long-wooled breeds and probably also the Shropshire. The Southdown has affected most of the medium-wooled breeds. The Oxford, which is one of the most popular of the medium-wools to-day, is the result of a fifty-fifty combination of Hampshire and Cotswold eighty or ninety years ago. With regard to the use of cross-bred rams itself, the question cannot be dismissed summarily as undesirable. In the Old Country the practice of crossing such sheep as the Border-Leicester and Wensleydales on black-faced ewes is very common. The Oxford is used on these crosses and, in some cases, the half-bred ewes and half-bred rams which are bred on identical lines are interbred systematically for the production of mutton.

THE FARM.

Crain and Seeds at the Guelph Winter Fair.

A marked increase in grain and seed entries was evident this year as compared with 1917. All told there were three hundred and ninety-four entries in the open classes this year, and ninety entries in the Field Crop Competition. Some of the classes were not very well filled and, as is usually the case, entries of clover and some of the other small seeds were comparatively light. On the whole, however, these classes were somewhat heavier than usual. The championship in oats was won by H. L. Goltz, of Bardville, who won with O. A. C. No. 72. Mr. Goltz also won the potato championship with Gold Coin, and the field pea championship with two bushels of Canadian Beauty. The spring wheat championship was taken by R. S. Frisby & Son, of Unionville, with a sample of Goose wheat, while P. J. McEwen, of Wyoming, captured the fall wheat championship with Dawson's Golden Chaff. R. J. Wilson, of Charing Cross, secured championship honors

in barley with a sample of O. A. C. No. 21, while J. M. Allan, Canboro, took the championship in alfalfa. Corn championships were divided between B. R. Cohoe, South Woodslee, and A. S. Maynard, Chatham. The former secured honors in dent corn with a sample of Golden Glow, while the latter showed Salzer's North Dakota. The auction sale of prize grain was held on Wednesday, and occupied nearly the whole day. Prices were reasonably good, although the championship entry of O. A. C. No. 72 oats brought only \$5.50 as compared with \$13.00 in 1917, and \$11.00 in 1916. Last year the second-prize oats brought \$9.25, while this year the sale price was \$3.50. Last year the fifth prize brought \$5; this year it brought \$4.25. Flint corn sold as high as \$9.25 per bushel; dent corn up to \$7.50; spring wheat up to \$8.50 per bag, and fall wheat up to \$6.25. Clover went at \$29; alsike at \$19 and \$20, and alfalfa at \$19 to \$40. A list of the exhibitors and awards follow.

Exhibitors.—S. W. Bingham & Sons, Hillsburg; Geo. Irwin, Simcoe; Frank Farrow, Mt. Brydges; Cable Bros., Forest; F. G. Hutton, Welland; G. A. Burns, Paris; T. A. Goodfellow, Teeswater; Andrew Schmidt, Mildmay; W. C. Barrie, Galt; R. G. Dawson, Niagara-on-the-Lake; Jacob Lerch, Preston; P. J. McEwen, Wyoming; A. Elcoat, Seaford; W. Winer & Sons, Guelph; Darcy E. Bondy, Arner; Jas. McLean, Richmond Hill; Knox Bros., Wroxeter; Richard Wilkin, Palmerston; Wm. Naismith, Falkenburg; Thos. Cox, Rockwood; Albert J. Pearce, Norwich; Geo. E. Foster, Honeywood; Norman Dryden, Galt; A. R. Wood, Fergus; C. W. Gerow, Guelph; H. A. Cormack, Arthur; John Doyle, Paris; Jas. Bell, Woodbridge; Richard Tupling, Honeywood; W. E. W. Steen, Streetsville; W. L. Dixon, Varney; W. B. Roberts, Sparta; Fletcher Walker, Royston; Peter McKinley, Tecumseh; Jno. McDiarmid, Lucknow; R. R. Moore, Norwich; R. H. Crosby, Markham; R. L. Taylor, Brussels; C. H. Drummond, North Bruce; D. Carmichael Jr., West Lorne; Oscar Klopp, Zurich; Thos. Totten, South Woodslee; E. Tolton, Guelph; F. W. Oke, Alvinston; J. A. King, Wardsville; R. J. Johnston, Chatham; H. L. McConnell & Sons, Pt. Burwell; H. M. Vanderlip, Brantford; Geo. Barrett, Tecumseh; Wm. A. McCutcheon, Glencoe; E. J. Gartley, Puslinch; Jas. Morrison, St. Mary's; F. B. Hutt, Georgetown; Albert Gilbert, Simcoe; Thos. Keepin, Vittoria; E. Brien & Sons, Ridgetown; A. S. Maynard, Chatham; Arch. Maccoll, Rodney; A. W. Van Sickle, Onondaga; F. W. Scott & Sons, Highgate; Wm. Roth, Fisherville; B. G. Palmer, Norwich; Frank Kelly, Aylmer; A. C. Phipps, Caledonia; Chas. Kiel & Sons, Chatham; Edwin E. Murphy, Silver Hill; W. B. Roberts, Sparta; F. A. Smith, Pt. Burwell; L. D. Hankinson, Aylmer; G. W. Atridge, Blenheim; Jos. Walker, Wardsville; E. D. Hilliker, Burgessville; Bert. M. Weiss, Sarnia; Fred. Warwick, Blenheim; A. S. Campbell & Sons, Blenheim; J. R. Stork, St. Catharines; E. J. Mullins, Woodslee; G. W. Coatsworth & Son, Kingsville; T. J. Ouellette, Walkerville; Jno. Wallace, Woodslee; W. C. Anderson, Amherstburg; Robt. W. Knister, Blenheim; Isidore Gouin, Tecumseh; Wm. H. White, Staples; Robt. Morrison, Chatham; Frank Weaver, Turnerville; W. M. Smith, Scotland; C. E. Smith, Scotland; Wm. Murdock, Palmerston; F. W. Wilton, Mt. Brydges; David Hamilton, Varney; Jas. Milloy, Erin; Jas. M. McCormack, Rockton; Jno. Park, Amherstburg; Jno. McKee & Son, Norwich.

Awards.—Fall wheat, white: 1, McEwen, (Dawson's, \$7.05); 2, Burns, (Dawson's, \$5); 3, Erwin, (Plymouth, \$5); 4, Goodfellow, (Sleep and I'll Pay the Rent, \$5); 5, Hutton, (Early Windsor, \$5.25); 6, Farrow, (Dawson's, \$5). Fall wheat, red or amber: 1, Winer & Son, (Imperial Amber, \$6.25); 2, Bondy, (Egyptian Red, \$5); 3, Elcoat, (\$5). Spring wheat, except Goose: 1, Naismith, (Marquis, \$8); 2, Wood, (Marquis, \$8.50); 3, Bell, (Marquis); 4, Barrie, (Marquis, \$7.75). Goose wheat: 1, McLean, (\$6.75); 2, Tupling, (\$6); 3, Steen, (\$5.50). Banner oats: 1, Bingham & Sons, (\$5); 2, Dixon, (\$4); 3, Hutton, (\$6); 4, Dawson, (\$3); 5, Walker, (\$3); 6, Elcoat, (\$2.75); 7, Lerch, (\$2.50); 8, Goodfellow, (\$2.75). Oats, O.A.C., No. 72: 1, Winer & Sons, (\$4.75); 2, Klopp, (\$3.25); 3, Gerow, (\$4); 4, McDiarmid,

(\$2.50); 5, Lerch, (\$3.50); 6, Wilkin, (\$2.50); 7, Totten, (\$2.25); 8, Oke, (\$2.25). Oats, O.A.C. No. 3, Daubeny or Alaska: 1, Tolton, (\$3.75); 2, Elcoat, (\$3.75); 3, Cormack, (\$3.50); 4, Knox Bros., (\$3.75); 5, Moore, (\$3). Oats, A.O.V., white, correctly named: 1, McCutcheon, (\$5); 2, Gartley, (\$2.50); 3, Vanderlip, (\$10.25); 4, Barrett, (\$2.75); 5, Barrie, (\$2). Six-rowed barley: 1, Wilson, (champion, \$6.75); 2, McKinley, (\$5); 3, Bingham & Son, (\$4); 4, Foster, (\$6); 5, Morrison, (\$4.50); 6, Van Sickle; 7, Barrie; 8, McCutcheon; 9, Cormack; 10, Cable Bros. Rye: 1, Lerch, (\$3.50). Buckwheat: 1, Van Sickle, (\$3.75); 2, Lerch, (\$3.25). Large field peas: 1, Wilkin, (\$6.75); 2, McLean, (\$5.50); 3, McCutcheon, (\$6). Small field peas: 1, McTavish, (\$7); 2, Bingham & Son, (\$6.25). Large white field bean: 1, Hutt, (\$6); 2, McCutcheon, (\$7.75). Small white field bean: 1, Johnston, (\$7); 2, Maynard, (\$5.50); 3, Lerch, (\$4.50); 4, Klopp, (\$5.50); 5, Maccoll, (\$5.50); 6, Barrie. Yellow field beans: 1, Scott & Sons, (champion, \$6). Red clover: 1, Roth, (champion, \$29). Alsike: 1, Roth, (champion, \$20); 2, Kelly, (\$19); 3, Allen, (\$19). Canadian alfalfa: 1, Allen, (champion, \$40); 2, Kelly, (\$35); 3, Phipps, (\$40); 4, Roth, (\$19). Timothy: 1, Goltz, (\$8); 2, Tolton, (\$8). Ten ears Compton's Early Flint: 1, Murphy; 2, McCutcheon; 3, Smith; 4, Kiel & Sons; 5, Roberts; 6, Maccoll. Ten ears Longfellow Flint: 1, Johnston; 2, Maynard; 3, Hankinson; 4, Smith; 5, Gilbert; 6, Keepin. Ten ears Salzer's North Dakota, Flint: 1, Johnston; 2, Maynard; 3, Campbell & Son; 4, Warwick; 5, Dawson; 6, Stork; 7, Atridge. One bushel ears, any above varieties: 1, Johnston; 2, Maynard; 3, Campbell & Son; 4, McCutcheon; 5, Smith; 6, Hankinson; 7, Dawson. Ten ears Bailey, Dent: 1, Ouellette; 2, Anderson; 3, Coatsworth & Son; 4, Woodbridge; 5, Knister; 6, Smith; 7, Kiel & Son. Ten ears Improved Learning Dent: 1, Knister; 2, Kiel & Son; 3, Gouin; 4, Brien & Son. Ten ears White Cap Yellow Dent: 1, Ouellette; 2, Cohoe; 3, Mullins; 4, King; 5, Wallace; 6, Bondy; 7, Morrison. Ten ears Wisconsin No. 7 Dent: 1, Parks; 2, Weaver; 3, Johnston; 4, Cohoe; 5, McKinley; 6, Knister; 7, Mullins. Ten ears Golden Glow Dent: 1, Cohoe, (champion); 2, Oke; 3, Mullins; 4, Hankinson. One bushel ears, any of above varieties, Dent: 1, Cohoe; 2, Bondy; 3, Ouellette; 4, Parks; 5, McKinley; 6, King; 7, Wilson. Ten ears, any sweet table variety: 1, Totten; 2, Moore; 3, Smith; 4, Hilliker; 5, Hankinson. Ten ears, any sweet canning variety: 1, W. M. Smith; 2, C.E. Smith; 3, F.A. Smith; 4, McKee & Son; 5, Hankinson. Potatoes, round white type, Green Mountain, Deleware or Dooley: 1, Farrow, (Dooley, \$1.75); 2, Burns, (Dooley, \$2); 3, Goltz, (Green Mountain, \$1.50); 4, Wilton, (Dooley, \$1.75); 5, Murdock, (Dooley, \$1.50); 6, Milloy; 7, Murphy; 8, Wood. Potatoes, round, white, A.O.V.: 1, Schmidt, (\$1); 2, Wilton, (\$1.25); 3, Walker, (\$1); 4, Hamilton, (\$1); 5, Doyle, (\$1.25). Potatoes, long white, Empire State: 1, Naismith, (\$1.50). Potatoes, Long White, A.O.V.: 1, Naismith, (\$2). Early potatoes, Irish Cobbler or Extra Early Eureka: 1, McCormack, (\$2); 2, Crosby, (\$2.25); 3, Milloy, (\$2); 4, Doyle, (\$1.75). Early potatoes, A.O.V.: 1, Naismith, (\$2); 2, Bingham & Sons, (\$1.50). Mangel seed: 1, Moore; 2, Burns; 3, Crosby; 4, Bondy. Turnip seed: 1, Moore. Beet seed: 1, Moore; 2, Crosby; 3, Smith. Carrott seed: 1, Crosby; 2, Moore. Onion seed: 1, Moore. Parsnip seed: 1, Moore. Cucumber seed: 1, Moore. Tomato seed: 1, Moore. Bean seed: 1, Lerch; 2, Moore. Pea seed: 1, Moore. Sheaves, autumn wheat: 1, Maccoll. Sheaves, spring wheat: 1, Naismith; 2, Goltz; 3, Maccoll. Sheaves, white oats: 1, Cohoe; 2, Goltz; 3, Naismith; 4, Van Sickle; 5, Walker. Sheaf, six-rowed barley: 1, Naismith; 2, Goltz; 3, Van Sickle; 4, Cohoe; 5, Maccoll. Two bushels cleaned autumn wheat seed from multiplying field: 1, Barrie, (Dawson's, \$5.75). Spring wheat seed as above: 1, Naismith, (Marquis); 2, Barrie, (Marquis, \$6.50). White oat seed as above: 1, Dixon, (Banner); 2, Goltz, (Imperial Scotch, \$2.50); 3, Klopp, (No. 72); 4, Naismith, (No. 72); 5, Wilton, (No. 72, \$2.75). Six-rowed barley, as above: 1, Van Sickle, (\$5.50); 2, Barrie, (\$4.50); 3, Goltz, (\$3.75); 4, Foster; 5, Klopp. Field peas, as above: 1, Goltz, (champion, Canadian Beauty, \$9); 2,



A Field of Oats Which Stooked Up Well.



A Field of Flax Which Returned a Good Revenue.