

FARM MANAGEMENT

The Application of Manure

D. Drummond, Department of Agriculture, Ottawa.

Manure should be applied to a field as soon as possible after the removal of the previous crop. For example, if the field intended for pasture next year is in hay this year, apply, as soon as possible after the crop has been removed, all the manure that has accumulated since winter and continue with all fresh manure as made during the winter months if the land is suitable to spread it. If the land is too rolling or too low and liable to be washed by water in the spring, the better way would be to put it in small heaps on the snow. These small heaps will be in winter freeze immediately and remain frozen.

EFFECTS ON THE PASTURE.

It is a well known fact that the pastures in this country generally fall as soon as dry weather comes. In cultivated fields, we can prevent to a certain extent the damage from dry weather by frequent cultivation and by what is known as a dust mulch. The manure acts as a mulch in the pasture and so lengthens the season of good pasturage.

Some objections may be made that the cattle will not eat the grass so close. Is that an objection or a benefit? Authorities tell us that the leaves are like unto the lungs of the plant, so how can grass be expected to grow without lungs or with very contracted ones as are too frequent in pastures in this country. Therefore, we cannot see that this would be a serious objection. Though the cattle do not eat the grass for a short time after the application of manure spread on the grass during June and July, as soon as the rain comes, they eat it quite freely and it is almost like a new field to them.

SAVING MANURE.

All authorities agree that the soon manure can be applied after dropping the less loss there will be. By applying it to soil, there is a crop of roots already in the ground to make use of it and prevent any leaching. There may be some loss by evaporation in summer, but even that is doubtful. The growth of grass would soon prevent that and the tramping of the cattle seems to cause the manure to lie close to the surface of the soil and so aid the soil to make use of the fertilizing properties of the manure.

DESTRUCTION OF WEEDS.

It used to be a general opinion that the rotting of manure destroyed all weed seeds. That theory is not now generally accepted. Of course, some will be destroyed by rotting but a great many will still retain their vitality. By applying this manure to weed seeded germinant, the most immediately and if not kept down by mowing, can be cut by mower. Some of the annuals that germinate the first season are killed by frost. Biennials and perennials having had only one year are not far enough advanced to produce seed and as the land is plowed for corn or other crop, either in the spring or fall, aided by the cultivation of the corn crop, will destroy them before they come to maturity.

Anyone who is in the habit of applying manure either in winter or spring to the land, knows well that that land is kept wet, the frost is retained longer and the manure on the surface retards early cultivation which is of great benefit to break up the crust and cause the germination of weed seeds that can then be destroyed by a later cultivation. Even in the case of land not plowed until immediately before corn planting (an

excellent practice if land is suitable), the tramping of the teams in applying the manure has a tendency to coming more difficult and to make the plowing more so.

By this other system the manure has been on the sod a year previous and has assisted the grass to make a great root growth, so adding more humus to the soil and either plowed in spring or fall, gives the very best bed for a good corn crop, which being a voracious feeder, will use up an excellent fertility and benefit by it, and so leave the soil in a better condition for the following grain crop.

New Westminster Exhibition

Here annually gather the cream of the live stock of British Columbia to contest for the honors usually found at the annual exhibition. This year with a lot of high-class stock in which most of the breeds of horses, cattle, sheep, swine and poultry were represented.

Those who have been absent five years will notice a vast improvement in the quality of live stock exhibited now as compared with former years. We believe this is largely due to the expert judge system as adopted by these Western exhibitions.

The horses on the whole were a high-class lot. In drafters, Clydesdales predominated. They were shown by Shannon Bros. Cloverdale; O'Neal & Company, Vancouver; Pemberton Horse Co., Pender Island, B.C.; Thos. Mercer, Markdale, Ont., and J. W. McDonald, Sea Island, B.C. Standard breeds, the head of high-class animals were shown by J. T. & J. F. Wilkinson, Chilliwack.

There were a lot of fine Hackneys which won a grand showing but were not judged worth your correspondent had to leave. The names of the exhibitors were asked for at the office but were refused until after the awards were made. Horses were judged by Professor Rutherford, Regina, Sask.

CATTLE

Red breeds were represented by one herd of shorthorns of good type owned by Jos. Tannoline, Westham Island, also by one herd of Herefords owned by W. R. Austin, Westminster. These latter were very thin in flesh. Red polled cattle were shown by L. K. Cogwell, Chelms, Wash.; and J. T. Maynerd, Chilliwack.

DAIRY BREEDS

Ayrshires made the largest showing. The herds of R. R. Ness and P. Hunter & Sons were on hand on the return trip from Seattle to between them they took the cream of the prizes. A. C. Wells & Son, Sardis, Shannon Bros., Cloverdale and W. R. Austin were other exhibitors.

In aged bulls, Ness' lot on Bargenoch Gay Cavalier, Hunter 2nd on Lessnessock Oymas Guaratee, 3rd A. C. Wells on Lessnessock King of Beauty, lately purchased from the States; the latter bull was in as good form as at Seattle therefore had to step down on place.

Two-year-olds—1st Ness, 2nd Wells, Ness won 1st on Junior Yearling, Hunter 1st on Junior Yearling. This brought these two bulls in with the aged bull for Champion honors, which were finally decided in favor of Hunter's Bargenoch Gay Cavalier over Ness' Grand Champion at Seattle. These bulls are a pair of grand youngsters and any judge would be justified in placing either on top.

In aged cows, Ness' Auchenbrain Fanny, a cow that was in fine form and carrying a grand udder, was the placed 1st. She afterward won the Champion ribbon. 2nd and 3rd went to Hunter's Castlemain's Violet and Big Nancy.

Two-year-olds—1st Hunter, Queen Bee; 2nd Ness, Orange Blossom; 3rd Hunter, Old Hall Cherry 7th. Senior yearling, 1st, Hunter 2nd, Ness;

3rd, Wells; Junior yearling, 1st and 2nd, Ness; 2nd, Hunter; Senior calf, 1st, Ness; 2nd, Hunter; 3rd, Shannon; Junior calf, 1st and 2nd, Ness; 3rd, Wells. Junior Heifer, 1st, Hunter; 2nd, Ness; 3rd, Wells. Produce of Cow, 1st, Ness; 2nd, Hunter; 3rd, Wells.

Holsteins made a good showing and were of good quality. Wm. Bishop, Chemsam, Wash., and J. Steves & Co., Stevenson, B.C., were the exhibitors. Aged bull, 1st and Champion went to Bishop on Karl Bos (Imp.) a bull of fine type and character. 2nd to Steves. Two-year-old, 1st Bishop; 2nd, Steves. Junior yearling, 1st Bishop; 2nd Steves. Calf, 1st, Steves; 2nd, Bishop. Aged cow, 1st and Champion, Steves on Lottie of Lulu grand business cow; Bishop 2nd on Mathilde Rea; Steves 3rd. Two-year-old, 1st and 3rd, Steves; 2nd Bishop. Senior yearling, 1st Steves; 2nd Bishop. Junior yearling, 1st Bishop. Senior calf, 1st and 3rd Steves; Bishop 2nd. Aged heifer, 1st Steves; 2nd Bishop. Junior heifer, 1st Steves; 2nd Bishop. Get of sire, 1st and 2nd, Steves; 2nd, Bishop. Produce of cow, 1 Steves; 2nd Bishop.

Jersons were shown by A. H. Menzies & Son, Pender Island and were of good quality. His aged bull is of a Merrymaid blood. E. Cliff, East Barnaby Lake each had two individuals on hand.

W. B. Wallantyne, Stratford, Ont., acted as judge of dairy cattle.

There was a nice exhibit of sheep made up of the following breeds: Cotswolds, Lincoln, Leicester, Hampshire and Oxford Downs, Shropshire Southdowns and Dorsets.

The swine were of high quality. Yorkshires predominated, then Tamworth, Berkshire and Essex breeds. As these classes had not been judged when your correspondent had to leave, he was refused the names of the exhibitors. I may say that the first time he has been referred the names of exhibitors before the awards were made.

Of the exhibits in the buildings, we cannot refrain from referring to the exhibit of fruit which was simply magnificent, also the County exhibits of fruit, vegetables, grains, etc. Each County vied with each other as to the attractiveness of their exhibit. To my mind the exhibit of Richmond Co. was unrivaled.

The exhibit of butter consisted of 24 crocks of dairy, 18 lots of prints, 3 lots of creamery in boxes and prints and 2 lots for the display prize, one lot each of factory and dairy cheese. Miss Laura Rose, Guelph, Ont., pronounced the quality of dairy products first-class—W.F.S.

Worth Working For.—I received the fountain pen and the poultry book both of which were sent me by Farm and Dairy for securing two new subscriptions for that paper, and I am much pleased with them. The premium subscriptions at Farm and Dairy offer for working for. The pair of fowl that I received last year from Farm and Dairy, as a premium, won 1st prize at our county fair this fall.—W. R. Beach, Missisquoi Co., Que.

Young pigs can readily be stunted by over feeding. A steady corn diet will readily accomplish this in short order.

"I am much pleased with the Farm and Dairy as it supplies me with a budget of good substantial readings." G. R. Bradley, Carleton Co., Ont.

Don't put off seeing your friends and getting a club of subscriptions to Farm and Dairy.

Metallic Roofing

METALLIC SIDING FOR HOUSES

Metallic Rock Faced Stone or Brick siding will give your home the appearance of a genuine stone or brick dwelling. It is easily and cheaply applied and absolutely fire and weather-proof.

Galvanized Corrugated Steel Siding

For Implement Sheds, Barns and Granaries

Insures the safety of your grain and implements. It may be applied direct to the studs—no sheathing is required.

Write us for full information. Our suggestions will save you money.

Phone Park, 800.

Metallic does not warp, rot, or decay. It is fire proof and will last for years. It is the most economical and durable material for the construction of buildings.

MANUFACTURERS 1748

Metallic Roofing

BETTER AND LARGER THAN EVER

THE ONTARIO PROVINCIAL

WINTER FAIR

GUELPH, ONT.

DECEMBER 6 to 10, 1909

OVER \$13,000.00 IN PRIZES

FOR HORSES, CATTLE, SHEEP, SWINE AND POULTRY

SEEDS, JUDGING COMPETITION

\$50,000.00 in being spent in order to give prizes for live stock and poultry and to provide accommodation for an exhibit of HORSES.

SINGLE FARE ON ALL RAILWAYS

For price list or program of lectures apply to A. P. WESTERVELT, Sec. Parliament Bldgs., Toronto

WINDMILLS

Towers Girled every five feet apart and double braced

Grain Grinders

Pumps

Tanks

Gas and Gasoline

Engines

Concrete Mixers

Write for Catalogues

GOOLD, SHAFLEY & MUIR CO., LIMITED

BRANTFORD, CANADA

INSURANCE

In return for one new yearly subscription to Farm and Dairy, we will give an Accident Insurance Policy, to the amount of \$1000.00 for one year, through the Imperial Guaranty and Accident Insurance Co., of Canada. This will apply only through the balance of this year. Send in your subscription to the

CIRCULATION MANAGER

FARM & DAIRY

Peterboro, Ont.