

vivify the whole system. Teaching, he points out, is the business of the agricultural school and not of the experiment station. The central idea of the station is research—the discovery and promulgation of new truth.

STOCK.

COMMENTS ON THE PICTURE.

"Canada's Ideal" Before the Critics.

EMERY COBB, Kankakee, Ill.—"I commend your enterprise and thank you for the remembrance."

ANDREW SMITH, F. R. C. V. S., the Ontario Veterinary College, Toronto.—"It is an excellent representation of the Shorthorns."

H. CARGILL & SONS.—"Canada's Ideal" received. It is a splendid piece of work, and will do its share in making a name for Canada as well as our brave boys in South Africa."

S. E. PRATHER, Sec.-Treas. Sattley Manufacturing Co., Springfield, Ill.—"It is a very fine picture, and I will be pleased to have it framed to hang up in my office."

C. F. SHAFFER, Proprietor, Wellman, Iowa.—"Your picture, named 'Canada's Ideal,' is a magnificent picture of animal portraiture. It fills the eye of the most critical judge."

EUGENE DAVENPORT, Dean and Director, College of Agriculture and Agricultural Experiment Station, Urbana, Ill.—"Canada's Ideal" will be framed and hung in our new agricultural building."

E. R. NICHOLS, Acting President, Kansas State Agricultural College, Manhattan, Kan.—"Allow me to congratulate you for your engraving, 'Canada's Ideal.' Our agricultural department will put it on exhibition."

H. F. BROWN, Minneapolis, Minn.—"The large engraving of 'Canada's Ideal' is surely very commendable. I will have same nicely framed and occupy a place at 'Brownvale.'"

GEO. HARDING & SON, Waukesha, Wis.—"We appreciate the picture of prizewinning Shorthorns, and will frame it at an early date. Beg to thank you for this favor."

WM. RENNIE, Toronto, Can.—"Thank you for the beautiful engraving, 'Canada's Ideal.' The picture is certainly a work of art, and reflects great credit upon the ADVOCATE."

H. H. GOODELL, Massachusetts Agricultural College, Amherst, Mass.—"Accept my thanks in behalf of the Agricultural Department of the Massachusetts Agricultural College for your 'Canada's Ideal.' I shall have the same framed and hung in our recitation room."

M. A. SCOVELL, Director and Chemist, Agricultural Experiment Station, State College of Kentucky.—"We are in receipt of 'Canada's Ideal,' and we are pleased to receive it. It is an excellent engraving, and does the Shorthorn justice."

A. CHRYSAL, Marshall, Mich.—"Many thanks for the engraving, 'Canada's Ideal.' I certainly appreciate it very much. I opened it last night, and this morning it is being framed, and will be hung up in my office as soon as completed. With kind regards."

CHAS. D. WOODS, Director, Maine Agricultural Experiment Station.—"The picture is an instructive one, and is made so it will prove to be more and more interesting as time passes. I congratulate you on bringing together in so fine a manner so many typical animals of this breed."

D. E. SALMON, Chief of Bureau of Animal Industry, Washington, D. C.—"I have the honor to acknowledge the receipt of the live-stock engraving designated 'Canada's Ideal,' for which accept my thanks. I take pleasure in stating that this picture will be preserved for reference as portraying typical individuals of the Shorthorn breed."

H. J. PATTERSON, Director, College Park Agricultural Experiment Station, Prince George Co., Md.—"Such a publication as 'Canada's Ideal' I deem highly educational, and should be in the hands of all stock-raisers in order to set before them a proper type to breed to, and have a general good influence in improving our breeds."

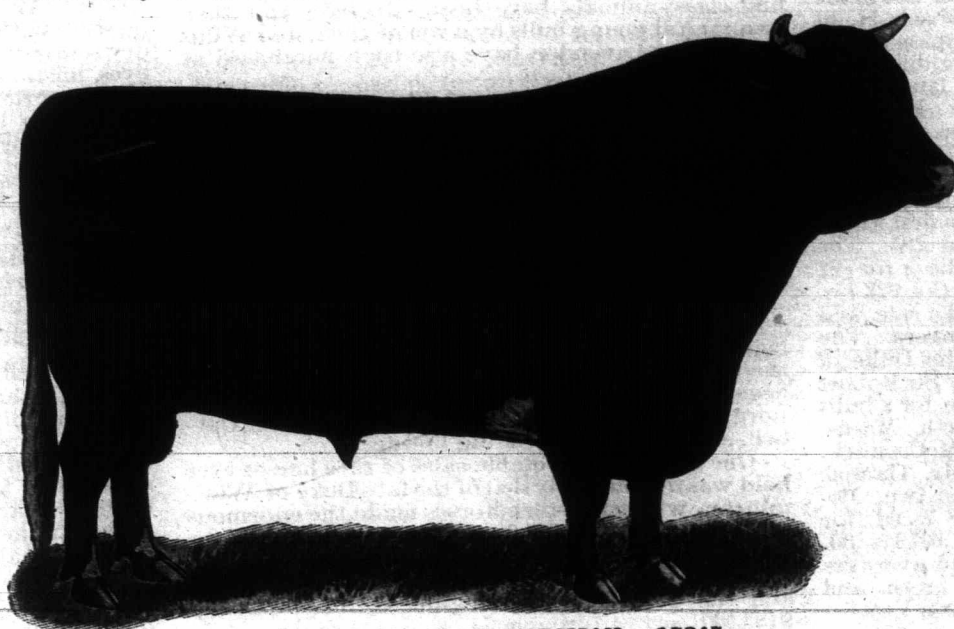
CHAS. C. NORTON, First National Bank, Corning, Iowa.—"Thanks for the beautiful engraving of Shorthorns. Shorthorns are coming to the front very rapidly over here. At the sale of Crawford & Sons, held at Newton, Iowa, March 9th, the females averaged about \$435, some being calves and some old cows."

A. P. WESTERVELT, Secretary-Treasurer, Dominion Cattle, Sheep and Swine Breeders' Associations and Ontario Provincial Winter Fair, Parliament Buildings, Toronto.—"Canada's Ideal" is an exceedingly good portraiture of a number of good animals. It should be the means of fixing on the minds of all who study it what the ideals are in the line of stock breeding."

EDWARD B. VOORHEES, Director, New Jersey Agricultural Experiment Stations, New Brunswick, N. J.—"It is certainly a magnificent picture, and will be of great value to me in my work as a teacher as well as serving as an object lesson to many farmers who visit the institution. Work of this sort cannot be too highly commended, as its influence is for good all along the line, helping the man in his adoption of ideals, and thus raising the live-stock business to a higher plane."

PROF. G. E. DAY, of the Ontario Agricultural College, writes:—"I beg to acknowledge receipt of the beautiful engraving, 'Canada's Ideal,' and to thank you for the same. The study of this picture is an education in itself, and I am sure every lover of good cattle will appreciate its merits. It should be especially valuable to young stockmen as an aid to the study of beef type, as well as Shorthorn type, and your enterprise in giving to the public such a notable collection should meet with the hearty approval of our breeders."

J. H. PICKRELL, Secretary, American Shorthorn



SHORTHORN BULL, TOPSMAN -17847-  
Winner of first prize and sweepstakes at Winnipeg, Toronto, London, and Ottawa, 1899.  
PROPERTY OF CAPT. T. E. ROBSON, M. P. P., ILDERTON, ONT.

Breeders' Association, Springfield, Ill.—"The engraving, 'Canada's Ideal,' is one of the cases where Canadian Shorthorns are admitted into the United States free of duty, without custom-house certificates. So many live Shorthorns are coming that it keeps one clerk busy almost all the time making out custom-house certificates, which will admit them free of duty. This picture commends itself enough to have it nicely framed, and then it will be hung upon the walls of our new office, which we expect to occupy in a short time, so that Shorthorn breeders who visit the office can see 'Canada's Ideal.' Please accept the thanks of the American Shorthorn Breeders' Association for the same."

An Ohio Man on the Beef Cattle Standard.

Publishers the Farmer's Advocate, London, Canada:

GENTLEMEN.—We are in receipt of a copy of your engraving, "Canada's Ideal," for which you have our thanks. The picture is certainly a very fine one, and shows a line of animals of which Canada may be proud. I have great faith in the future of meat production throughout the region surrounding the Great Lakes, and I believe that Canadian farmers have done wisely in maintaining the high standard of their beef cattle. Should any Ontario farmer have misgivings upon this point, I would suggest to him that he come over to this side of the lake and endeavor to pick up a herd of first-class feeding cattle. I think that a few days spent in this work in a State which once stood second to none in the quality of its beef cattle would show him that the rank which Canada now holds is well worth striving to maintain. There are still magnificent beef cattle in Ohio, but their number, both relative and actual, has sadly diminished during the last twenty years, and now our farmers are awakening to the realization that a golden opportunity has been neglected. Yours truly,  
CHAS. E. THORNE, Director.  
Ohio Agricultural Experiment Station, Wooster, Ohio, March 17, 1900.

Our Scottish Letter.

THE SPRING BULL SALES.

The bull sale season is over, and breeders have before them some data upon which to base an estimate for the coming year. An outbreak of foot-and-mouth disease in Norfolk in the beginning of February was an unlooked-for and somewhat disconcerting event. It upset one's calculations, and the disease being much dreaded, restrictions were imposed on the movements of cattle in England, while the Irish Privy Council made assurance doubly sure by shutting out all cattle from the green isle. In past years Irishmen have been splendid buyers at the bull sales, and the absence of their demand was felt at all the sales, but specially at the Galloway sale at Castle Douglas. Anticipating, as they justly were entitled to anticipate, an increased demand from Ireland, where the Congested Districts Board reports very favorably of the results of Galloway sires, breeders had prepared for a good demand by putting a larger number of bulls than usual through the sale. The sudden closing of the Irish ports, however, upset all calculations, and the Galloway breeders had to submit to low rates for everything except the top specimens. The Aberdeen-Angus "tail" was also disastrously affected, and the average for both polled breeds was down from the figures of 1899. Highlanders held their own, but the Shorthorns had a substantial advance.

The Shorthorn and Aberdeen-Angus centers are Perth, Aberdeen, and Inverness. While Mr. Moir was selling at Aberdeen on Thursday last the news arrived of the release of Ladysmith and its gallant defenders. The fact was announced by Mr. Moir from the rostrum, and the audience abandoned itself to hilarious cheering for several minutes, putting all thoughts of bull buying out of their minds. When business was resumed the first animal to enter the ring, curiously enough, was a white bull of moderate quality named Kruger. He was at once assailed with shouts of derision and contempt, and enthusiastically hissed. It was next to impossible to get anyone to bid for him, but after a bit a movement was made; he was decidedly unpopular, and some granite individual got a bargain of him at 134 gs. If the original Kruger could only be secured as easily the Transvaal troubles would soon be at an end. To return to our Shorthorns. The leading herd has been that of Lord Lovat at Beaufort Castle, Beaulieu, on the borders of Inverness and Ross. This herd is quite distinct in its characteristics. Whatever may have been the cause, the result of the breeding pursued is to produce a very strong, heavily-fleshed animal, rather *outré* in color—red with white patches like the Ayrshire order, undefined orange-roan being not uncommon, and nothing very striking in the way of breed type and character. All the same, the Lovat bulls sell, and at the spring sales they make high prices. This year they have surpassed all previous records. They were first in both classes at Perth, and first at Inverness. The first Inverness bull sold for 230 gs., to go to Buenos Ayres; the first in the younger class at Perth

went at 240 gs., to the same quarter; and the first in the older class at Perth, which was rather unpopular, at 120 gs., to a home buyer. These are three splendid prices for bull calves. Lord Lovat's average for three at Inverness was £126, and his average at Perth for a like number was £159 5s., more than double the amount realized at places as averages last year. Eleven of the highest priced bulls at Perth made an average of £123 3s. 8d., and the 104 bulls sold made the respectable average of £28 9s. 9d. each, the highest yet reached at these sales for bull calves. A superior Perthshire herd of Shorthorns is that of Mr. Mastone Graham, at Redgorton. He owned the second-prize bull calf in the older class, and it was sold for nearly double the price of the first-prize one in the same class, viz., 230 gs. At Inverness 72 Shorthorn bulls made an average of £30 5s. 2d. each, and at Aberdeen 164 bulls made £21 16s. 5d. each.

The significance of these figures is best appreciated when the fact is borne in mind that the bulls offered in this way are mainly destined for crossing purposes, and their quality and breeding has a vast influence on the future not only of Shorthorns, but of the ordinary cattle of the country. The choicest animals as a rule are not sold at the spring bull sales, but those best adapted for cross-breeding purposes are invariably so, and very soon no one will dream of buying a crossing bull in any other way than this. A fleshy bull is what is wanted for this purpose, and given depth of flesh, the breeding of the bull is not so much taken into account. This is, however, a mistake, and the best results in the production of commercial cattle are got by those who act on the principle that any bull is not good enough for crossing purposes. The importance attaching to pedigree is one cause of the glaring discrepancies between the awards of the judges and the estimate placed upon an animal by competing bidders. Thus, Lord Lovat's Saturn, placed first, made 120 gs. The Redgorton Royal Chief, placed second, made 230 gs. The third in the class made 40 gs., the fourth 100 gs., the fifth 95 gs., the sixth 105 gs., the seventh 41