

the time when these experiments were made, and we must remark that the burying deep of the guano modified in part these disadvantageous circumstances. Indeed, if we admit that roots are more quickly developed in soil where they find more assimilating elements, we can suppose in deepening the manure we will develop the roots of the plant at a certain depth below the surface of the soil, and these plants will resist the cold of winter and the dryness of the summer. When, on the contrary, the manure is spread only on the surface, it is clear, a number of superficial roots are produced,—roots which extend no further than the surface soil,—and these roots are more sensible of the extremes of temperature.”

**Sale of Thorough-Bred Stock.**

Mr. Simon Beattie, of Markham, had a successful sale of his third importation of pure-bred Cattle and Sheep last spring, at the residence of Mr. G. Scott, Scarborough, on the 1st of August. Notwithstanding the busy season for farmers, the attendance was good; and although the number of animals was not large, the quality was excellent. The following is a list of the purchasers and the prices obtained, which we trust will be found remunerative to Mr. Beattie, and encourage him to persevere in an undertaking which will prove profitable to himself as it is productive of much benefit to the country. We are glad to see among the purchasers the names of several of our best and most enterprising farmers; and that the animals will be kept in the Province for breeding purposes:—

1. Durham Bull, "Baron Solway," calved 9th October, 1860, by "General Havelock," dam "Snowdrop." Purchaser, John Snell, Esq., of Brampton.....	\$250
2. Durham Heifer, calved Nov. 15, 1858, by "Tweedside," dam "Jane," in calf to "Gen. Havelock." Purchaser, Henry Jennings, Esq., Markham.....	350
3. Galloway Heifer, "Blooming Heather," calved March, 1859, by "Mosstrooper," dam "Mary," by Fergus. Purchaser, John Snell.....	320
4. Ayrshire Cow. Purchaser, W. Ingles, Esq., Markham.....	165
5. One shear Leicester Ram. Purchased by John Snell.....	118
6. Do. do. do. John Miller, Esq.....	115
7. Do. do. do. Robt. Armstrong, Esq.....	100
8. Do. do. do. H. Jennings.....	100

9. Do. do. do. John Snell.....	120
10. Do. do. do. F. Medcalf, Esq., Yonge street.....	95
11. Three shear Cotswold Ram. Purchaser, Wm. Armstrong, Esq.....	120
12. 2 one shear Cotswold Gimmers. Purchaser, W. Nimmo, Napanee.....	93
13. Do. do. do. Purchaser, Geo. Miller, Esq., Markham.....	80
14. 2 one shear Leicester Gimmers. Purchaser, John Snell.....	229
15. Do. do. do. W. Armstrong.....	100
16. Do. do. do. Geo. Miller.....	62
17. Do. do. do. F. Metcalf, Esq.....	30
Total.....	\$2,452

**The Provincial Exhibition.**

[The following article recently appeared as an editorial in the *Globe*, and as it is written in a truly patriotic spirit, and comprises much reliable information and several useful suggestions, we have sincere pleasure in transferring it to our columns without abridgment.—Ed.]

The sixteenth annual Provincial Exhibition of Upper Canada will be held this year in London, on the 24th, 25th, 26th and 27th of the next month. Only five more weeks remain for the completion of all the preliminary arrangements, and if the show is to be a success they will be busy weeks for the officers of the Provincial Association, the London Local Committee, and intending exhibitors throughout the Province. If any of our readers, who have stock, or grain, or implements, or anything else worth exhibiting, have not yet made up their minds whether or no they will become competitors, they should lose no time now in coming to a decision, if they would not, for a want of preparation, enter the lists on a disadvantageous footing. It is no fifteen years since the first Upper Canada Provincial Exhibition was held—little over the third of the average lifetime of a generation, according to the rate of longevity which prevails in the Province. Several of the officers of the Association during the first year of its existence are its officers still, and probably not a few of the exhibitors at the Provincial Show held in Toronto in 1846, will again be exhibitors at the London Show next month. But in other respects how vast the contrast between our circumstances then and now. In these fifteen years we have made astonishing progress. In 1846 the population of Upper Canada did not much exceed half million souls. In 1861, it amounts to nearly a million and a half. Fifteen years ago such a thing as skilled agriculture was very rare in Canada. Now we have very many agriculturists, who, in their attention to the improvement of stock and to the proper rotation of crops, the judicious use of the best agricultural implements.