## Arnold's Hybrid Wheat-

A limited quantity of these new varieties of wheat, the results of Mr. C. Arnold's carefully conducted hybridizing experiments, will pro- indicate the direction improvement should bably be in the market after next season's take in regard to sugar-beet. Many a one crop, and we have pleasure in publishing ex- who remembers the first crop mangolds, with tracts from the report of the Committee ap- their uncouth roots and coarse large leaves, ! Hon. D. Christic, Messrs. W. H. Mills and day, will see, at a glance, that the same course the residence of John M. Bell, Esq., James Cowan, who state that in their opinion, of selection and crossing, if needful, must be comprising some 200 acres. He combred, and inheriting some of the valuable crops now there are great differences in requalities of both parents; that is, they seemed to have the midge-proof character of the Am ber Michigan. while Soules parentage had greatly improved the quality of the grain as compared with that of the Amber Michigan. a few years there will be model crops of Another important fact ought to be stated. Sugar-beet, with little, if any, greater developextra culture; the land was not better pre- beet per acre. pared than any good farmer would deem necessary for good crops."

A Committee appointed by the North Brant Agricultural Society to examine these varieties of wheat report in similar favourable terms, respecting the size of the berry, the productiveness, hardiness, and midge-proof qualities, of the grain. Many other agricultural authorities have given equally flattering testimony, and we shall watch the result of more extended trial with much interest. Such experiments as those of Mr. Arnold deserve every encouragement, and in the present aspect of the wheat question, and considering the gradual deterioration of mest of the old varieties, the matter is of special importance.

## Sugar-Beet Contrasted with Mangold.

in Great Britain as food for stock, and for believe good seed can be had at reasonathis purpose it is fast coming into competition | ble prices from those who, by careful seacre more must be grown. To make this up. plain, he presumes that in an ordinary crop of large mangold there will be from sixty to not valued half as much as it should be, sire. Mary Gray, roan, five years, by eighty roots to the perch. Now, in sugar-run grain through at least once before Prior [589] from Jane 5th, partakes beets there should be about two hundred sowing. roots to the same area. This increase of the individual roots will compensate for their lightness, and the gross yield of the sugar- an essay on turnip culture, by H. Love, Se- Redcap, by Highland Chief. Jane 6th, beet will probably be as great as that of cretary of the South Huron Agricultural Somangold. Already they are running each other pretty close in the Livenham district. last fall show of the Society, the prize offered The heaviest crop of sugar-beet this year by the President, Mr. Dickson, for the best weighed in the gross thurty-one tons per acre. essay on the subject, and the author has well red bull calf, Grand Duke, by Highland Chief. Jane 6th, rec., four years, is by Prior from Jane 6th, or the subject of the Society of the Society, the prize offered style and quality. She has a very fine red bull calf, Grand Duke, by Highland Chief. Pride, white, three years, by The best crop of mangolds weighed one ton merited the honour. The essay is thoroughly Chief. Pride, white, three years, by tons per acre, and the sugar-beets twenty one 'county.

and a half tons. The number of mangolds per perch was one hundred; of sugar-beets, two hundred.

These facts and figures point a lesson and pointed by the Board of Agriculture to exa- and contrasts them with the fine stock and Creek station, G.T.R., near Atha P.O., mine the wheat. The Committee consisted of small leaves of the most approved sorts of tothe wheats were "really new varieties-cross- , pursued with the sugar-beet. Among the viz.; the ears of the new varieties were much ment of top than among the best mangolds | Young Rose, by Remus (11987), both larger than those of the parent kinds, while Once this is accomplished, the roots may go bred by Robert Syme, of Redkirk. In they had even more than the compactness of even closer together, and as, bulk for bulk, your account of George Miller's herd, these the Soules wheat. The yield per acre was they weigh heavier than common mangold, two were erroneously credited to him. large, being as Mr. Arnold says, 52 bushels it follows that by-and-by we shal' have as Jane 3rd has gone to the butcher long per acre. This return was not the result of heavy, or even heavier, crops of the sugar- 1 ago, and left but one female descendant,

### ge ecting geed.

seed, especially grain, of whatever crop is intended to be grown.

In the first place, it should be sound, plump and solid, and of the most productive varieties; and in the second, it; should be entirely pure and free from any admixture of other grain of the same kind, and the seeds of weeds.

We are no advocate of the plan followed by some, of giving extortionate prices for a fancy article, with some newfangled name, the merits of which are be-Sugar-beet is being extensively cultivated lauded in highly coloured circulars and Great Britain as food for stock and for advertisements of interested dealers. We with mangold. A correspondent of the Agri- lection, and clean culture, find it pay ot cultural Gazelle says that, as a rule, the sugar- dispose of their produce for seeding pur-beet does not grow as large as the mangold, poses, and having acquired a good name some white, 5 years, by Clifton Duke 2nd, and therefore to ensure the same weight per by honest dealing, are anxious to keep it [133] from Bessie Bell, is one of the

# Stock Pepartment.

#### Notes on Canadian Herds.

No. VIII.

About ten miles north of Dushin's Pickering township, is Burnside Farm, menced his herd of Shorthorns in 1857, with two cows imported from Scotland, Jane 4th. Lucy Neal, a fine rich roan 1 cow, still survives, and stands at the head of the herd. She is now in her 15th We cannot too strongly urge upon the year, and is a large massive animal of farmers the iraportance of exercising a great depth and substance, and has bred close supervision in selecting samples of regularly up to the present time. Jane 4th, a light roan cow fourteen years old, by Nichol [497], is a fine milker. She has a neat red heifer calf, Ruby, by Highland Chief. Jessie, roan, nine years, is by Young England [822] from Lucy Neal. She is a fine cow, though not so massive as her dam, and has a very handsome red and white heifer calf, Favourite, by Highland Chief. Jane 5th, roan, nine years, by Prince of Wales [578] from Jane 4th, is of good quality and a splendid milker. She has a heifer calf by Highland Chief. Bride, roan, six years, by Charles [118] from Jane 4th, is much of the same style. She has a red bull calf by Highland Chief. Bessie Bell 3rd, red with best in the herd. She partakes strongly Above all, use the fanning mill; it is of the Kentucky character through her of the good milking quality of her dam, while she has good style and substance PRIZE ESSAY.—We have received a copy of from her sire. She has a red bull calf, less, or thirty tons per acre. Weighed with practical, and its publication will no doubt Prior from Jessie, is the handsomest aniout tops the mangolds reached twenty four promote the interests of agriculture in the | mal in the herd, and for her age is very large and massive. She has a roan bull