

35 tons 1456 pounds, and the poorest 21 tons 1912 pounds, not nearly as much as the turnips or mangels.

Q. That would be a higher yield than the farmers could expect of course in raising the sugar beet for the sugar factories?

A. Oh yes. About 12 to 15 tons is the common yield for sugar beets in this country.

By Mr. Calvert.

Q. Does not that seem a very large yield, over 1600 bushels to the acre?

A. Yes, it is a phenomenal yield. We have never before had any crops of roots to equal these. The returns however are made up with the greatest care and are thoroughly reliable.

By Mr. Clancy.

Q. You selected some of the largest specimens for the purpose of making the comparison, I presume?

A. Not by any means, we do no selecting of that sort. The returns are compiled from fair average rows all grown in the same manner, and the calculations are made from the weight of roots gathered from two rows, each 66 feet long. Experiments have also been made at Agassiz in remedies for smut in oats and formalin has been found very effective and seems to be an entire preventive of this disease. We used this in the proportion of $4\frac{1}{2}$ ounces of formalin to 10 imperial gallons of water and the grain was soaked in this mixture for two hours.

By Mr. McNeill.

Q. You spoke of the large yield in carrots just now. What varieties did you refer to?

A. The varieties which gave the largest crops at Agassiz were the Improved Short White, and Half long White. We have several times had 27 and 28 tons to the acre from these varieties at Ottawa.

Q. There is a variety called the Altringham Red Carrot?

A. Yes, but that, in our experience, is one of the poorest carrots we have grown.

Q. There seems to be some difference of opinion as to this variety?

A. Yes, but we have not found it a profitable sort, it is a long cylindrical root not easy to dig. The Improved Short White is a better carrot and stands well in the list at Agassiz, and is a good cropper.

Q. There is a great difference between the crops we have had of the Altringham carrot and the average you have referred to? Difference in the seed might partly account for this?

A. We obtain all our Improved Short White Carrot seed from the one source, and send portions of the seed to each branch farm so that they all get exactly the same strain of seed for test.

Q. From the statement you have given it is evident that the different varieties of carrot vary very much, some averaging a yield much larger than others?

A. That is so, but at the same time you will find that some of the varieties which give the best returns at Agassiz do not give the largest crops at Ottawa, differences of climate affect the results very much.

Q. But you find that the White varieties you have referred to have yielded a better crop than the Altringham variety I have spoken of?

A. Yes; they will give on the average a much better crop than the Altringham.

By Mr. Calvert:

Q. The returns you have given us show an average of 1,200 bushels to the acre?

A. Yes; but that was at Agassiz, B.C. We have never had as heavy crops as that at Ottawa.