

many lots of seed were not in keeping with their actual value, because of the prevalence of Timothy and Red Clover seed.

The following tables show a summary of the results of the analyses of samples of Alsike seed that were offered for sale by local dealers in the different provinces in Canada in the spring of 1902.

ONTARIO.

ALSIKE.

Sample Number.	Where obtained.	Market price per Bushel.	Weight of Pure and Germinal Seed in 100 lbs.	PER CENT GERMINATION.		Actual Cost of Pure Living Seed per Bushel.	Number of Weed Seeds per Pound.
				In Three Days.	In Ten Days.		
		8 cts.	Lbs.			8 cts.	
1	Ottawa	8 40	81	84	89	10 38	5,169
2	Bradford	11 00	91	92	95	11 70	272
3	Toronto	10 50	90	86	91	11 66	272
4	Ottawa	9 60	47	59	65	20 42	14,496
5	Toronto	9 00	90	93	96	10 00	1,963
6	Brantford	8 00	48	66	80	16 66	19,880
7	Hamilton	8 50	65	69	76	13 07	1,963
8	Pembroke	10 80	72	71	82	15 00	14,528
9	Galt	9 50	60	68	74	15 83	14,043
10	"	9 00	62	73	77	14 51	23,556
11	Ottawa	12 00	75	74	78	16 00	815
12	"	9 60	81	84	87	11 85	2,265
13	"	10 80	79	77	84	13 67	1,359
14	"	10 20	79	82	86	12 91	2,899
15	Pembroke	12 00	87	86	90	13 79	181
16	Renfrew	10 20	80	81	86	12 75	3,533
17	Carleton Place	7 20	65	69	75	11 07	8,879
18	"	10 20	62	74	80	16 15	7,248
19	"	10 20	84	87	90	12 14	2,718
20	Kemptville	10 20	82	88	91	12 43	3,715
21	Bonrie	7 20	78	77	83	9 23	2,718
22	Mallorytown	8 40	53	70	72	15 84	9,785
23	Powassan	10 80	63	73	79	17 14	7,610

The twenty-three samples of Alsike that were obtained from local seed merchants in the province of Ontario were found to contain twenty-two species of weed seeds, none of the samples being free from them. False Flax and Sheep Sorrel were very common impurities. Sample No. 6 which was obtained from Brantford, contained over 42,000 seeds of False Flax per pound. Worm-seed Mustard occurred in five samples, and Charlock or Wild Mustard in one. Sample No. 22 which was reported to have been obtained from a prominent Toronto seed firm, contained fourteen species of weed seeds, six of which are dangerous pests, in addition to having twenty-five per cent by weight of Timothy seed.

From the above table it may be noted that the market price of Alsike seed in Western Ontario was lower than in the eastern part of the province. Western Ontario farmers have some advantage because of living in the principal clover seed producing district in Canada, and where clover seeds are used in larger quantities than in any other district.

The vitality and vital energy of many of the samples were low. Seed that will not germinate eighty-five per cent in three days in a laboratory test is not likely to prove satisfactory when sown under average conditions in the soil.