

New Zealand, but when dodder is in the seed crops no amount of screening will eliminate every seed of it from white clover. Crop inspection, or perhaps the use of the new electro-magnetic process of cleaning, would be a better proposition.

Table 6.—Average Percentage Purity and Germination of the Main Clovers, &c.

Seed.	Average Percentage of Impurities.	Percentage of Germination.			Percentage of Samples germinating between						Percentage of Hard Seeds.
		Highest.	Average.	Lowest.	0-50.	51-60.	61-70.	71-80.	81-90.	91-100.	
White clover..	3.5	99	87	10	4	1	1	6	43	47	12.5
Alsike ..	2.0	98	86	13	4	1	3	10	26	56	4.4
Cow-grass ..	0.6	100	91	15	2	1	2	2	21	72	4.6
Lucerne ..	0.4	100	89	61	0	0	2	15	28	56	7.9
English trefoil	0.1	97	74	23	19	11	11	11	0	49	4.0
Crimson clover	1.3	100	93	41	3	0	64	0	10	80	0.0
Lotus major ..	11.3	99	76	33	12	6	8	22	34	18	13.2

*Alsike.*—All imported seed was of good quality. Only two samples contained Californian thistle.

*Cow-grass and Red Clover.*—These were of good quality, and practically all samples were New Zealand seed. In the English report referred to above, New Zealand red clover (cow-grass) is shown in comparison with that of five other countries. Like our white clover, it leads in purity and germination, but is third on the list with 25 per cent. of the samples containing dodder. As regards samples examined at this Station, only 5 per cent. contained dodder. Nearly eighty species of impurities were noted in cow-grass and red clover, most of them appearing in imported seed.

*Lucerne.*—All examined was high-grade seed. None of the samples contained dodder.

*Crimson Clover.*—With the exception of a few obviously very old samples, all were of high quality.

*Lotus Major.*—This was of fair average quality generally. Some of the imported seed was very dirty, discoloured, and high in dodder content. Northern (New Zealand) samples all contained *Lotus hispidus*, in quantities varying from 1 to 90 per cent. Dodder was also present in a number of these. Southern lotus major was of very high quality, although some of the samples contained ragwort.

*Other Clovers, &c.*—The average germination of the less common of these was as follows:—

	Germination Percentage.	Hard Seeds Percentage.
Strawberry-clover .. ..	86.0	21.0
Subterranean clover .. ..	70.3	22.0
Suckling-clover .. ..	82.6	13.0
Lotus corniculatus .. ..	56.5	10.0
Lotus hispidus .. ..	54.3	26.0