

## No. 4.

## RETURN of the Number resident as Pupils for each Year.

|  |    |
|--|----|
| The school was opened the 19th July, 1880. Number of pupils during the two terms ... | 21 |
| 1881—Number of pupils during the three terms ...                                     | 47 |
| 1882—Number of pupils entered for the present term (the first) ...                   | 38 |

NOTE.—Of these students, 1 comes from the West Coast, 2 from Otago, 5 from Napier, 2 from Nelson, 4 from Auckland, 2 from Wellington, 2 from Gisborne, 1 from Picton, 1 from Invercargill.

## No. 5.

## RETURN of Nature and Results of Experiments made at the Farm.

| Name.   | From whence introduced. | Result of Cultivation.   |
|---|-------------------------|--|
| (a.) INTRODUCED PLANTS, OR VARIETIES OF PLANTS. |                         |  |
| Red clover                                      | Illinois                | Plant stands well; is still in cultivation; no seed.   |
| "   | Alexandria              | Too tender—killed first winter.  |
| Alfalfa (lucerne)                               | California              | Earlier than the common lucerne; plants still growing.<br>A further supply of seed sent for this year.   |
| Lucerne   | Italy                   | Failure.   |
| "   | Russia                  | "  |
| Mellilotus, sp.                                 | Egypt                   | Apparently a very promising plant of strong growth.<br>Further trials being made.  |
| Spergula maxima                                 | Denmark                 | The cultivated spurreys. Highly recommended; but, though useful in their native country and grow well here, are not equal to other fodder plants in cultivation.                                 |
| " arvensis                                      | "                       | "  |
| Rape  | Russia                  | Not so valuable as English—coarser and less succulent.   |
| Lentils   | Egypt                   | Grew well; but not adapted to New Zealand, at least at present.  |
| Lupine (white)                                  | Egypt                   | Grew and bore well; may be useful on light lands; experiment was not continued for fear of effect of alkaloid "lupuline" on stock.   |
| Vetches (spring)                                | Illinois                | Heavy-yielding variety.  |
| " (grey)  | Montreal                | Fair-yielding.   |
| " (black)                                       | Canada                  | "  |
| " "   | Russia                  | Failure. These vetches have been grown a second year, but, as the vetch is not a much-valued crop in Canterbury, the cultivation has been discontinued.  |
| Mustard (white)                                 | Egypt                   | These grew well. The English is valuable either for its seed, for sheep, or for green manuring. The cultivation will be continued regularly.   |
| " "   | England                 | "  |
| " (black)                                       | Italy                   | The difficulty of harvesting this crop, where birds are so thick, is against it; otherwise it promises well. Cultivation of the English will be continued.                                       |
| " "   | Iowa                    | "  |
| " "   | England                 | "  |
| Millet  | Russia                  | Failure.   |
| "   | Illinois                | This millet grew fairly well for two years. The climate is, however, rather cold for it, and it did not very well hold its own against grasses and weeds. It seeded well—plenty of seed on hand. |
| Hungarian grass                                 | ...                     | These came, but not so strongly as the above. They are similar in habit, and not to be recommended.  |
| Russian mohair                                  | ...                     | "  |
| Broom-corn                                      | Kansas                  | Climate apparently too cold.   |
| Peas  | South Australia         | Samples of dun peas, not better than those grown here.   |
| "   | Victoria                | "  |
| "   | Kentucky                | "  |
| "   | Victoria                | Partridge pea; very large, but not so saleable here as other sorts. Cultivation discontinued.  |
| Linseed   | Russia, 3 samples       | These yielded seed of no better quality than that ordinarily grown, nor was there anything noticeable in the straw.  |
| "   | Italy                   | "  |
| "   | U.S.A.                  | "  |
| " (large-seeded)                                | "                       | Grown for three years; much attacked by birds; less straw, and therefore fibre, than yielded by ordinary kind.   |
| Hemp  | Chili                   | Failure.   |
| "   | Russia                  | "  |
| Buckwheat                                       | U.S.A.                  | Like all kinds of Polygonum, these grew well; but their value is questionable.   |
| " mammoth                                       | "                       | "  |
| Castor-oil                                      | ...                     | For the growth of these oil-yielding plants the climate is too cold.   |
| Sesame  | ...                     | "  |
| Sunflower                                       | ...                     | "  |