

however, within the past ten years, show that the so-called Turkestan Alfalfa obtained through the seed trade of the United States and of Canada, has displayed no perceptible advantages over the common variety grown in this Province. Wishing to obtain fuller information regarding the best sources of purchasing Alfalfa seed of the highest quality for use in Ontario, we secured for experimental purposes samples of seed grown in different parts of the world. Some of these were obtained through the kindness and the cooperation of the Department of Agriculture at Washington, and some were obtained direct by the College. In the spring of 1905, twenty-eight plots were sown in duplicate with Alfalfa seed obtained from different sources. From each of the plots three cuttings for hay were made in 1906, and one cutting for hay and one for seed in 1907. The following table gives the average dates of the first appearance of the bloom in the two years, and the total yield per acre of green crop and of hay from the three cuttings in 1906 and the one cutting in 1907:

| Source of Seed.                                              | Dates of first bloom.<br>Average 2 years | Total yield per acre.<br>Three cuttings in 1906<br>and one cutting in 1907. |        |
|--------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------|--------|
|                                                              |                                          | Green crop                                                                  | Hay    |
|                                                              | June                                     | (Tons)                                                                      | (Tons) |
| Texas, Panhandle.....                                        | 21                                       | 28.8                                                                        | 7.3    |
| Turkestan, Khiva.....                                        | 22                                       | 29.0                                                                        | 7.0    |
| Turkestan, Samarkand.....                                    | 22                                       | 27.9                                                                        | 6.7    |
| Nebraska.....                                                | 18                                       | 26.1                                                                        | 6.6    |
| Montana, Northern.....                                       | 21                                       | 25.1                                                                        | 6.6    |
| Chinese Empire, Sairam.....                                  | 21                                       | 26.0                                                                        | 6.5    |
| New York.....                                                | 17                                       | 25.3                                                                        | 6.0    |
| Montana, Southern.....                                       | 22                                       | 25.0                                                                        | 6.0    |
| Germany.....                                                 | 19                                       | 25.0                                                                        | 5.0    |
| Utah, irrigated.....                                         | 22                                       | 23.9                                                                        | 5.9    |
| Montana, Northern.....                                       | 21                                       | 24.5                                                                        | 5.8    |
| Texas, Sherman.....                                          |                                          | 24.4                                                                        | 5.8    |
| Russia, Simbirsk.....                                        | 18                                       | 26.4                                                                        | 5.7    |
| Kansas.....                                                  | 25                                       | 22.0                                                                        | 5.7    |
| France, Poitou.....                                          | 19                                       | 25.7                                                                        | 5.6    |
| Colorado.....                                                | 21                                       | 24.2                                                                        | 5.6    |
| Nebraska.....                                                | 24                                       | 22.9                                                                        | 5.3    |
| Utah, non-irrigated.....                                     | 19                                       | 22.0                                                                        | 5.3    |
| United States, First Quality Commercial Seed...              | 18                                       | 22.2                                                                        | 5.0    |
| Ontario, O. A. C. Seed, 1904.....                            | 19                                       | 22.4                                                                        | 4.7    |
| Italy.....                                                   | 19                                       | 22.0                                                                        | 4.6    |
| Ontario, O. A. C. Seed, 1903.....                            | 21                                       | 20.1                                                                        | 4.3    |
| Russia, Kharkoff.....                                        | 18                                       | 20.0                                                                        | 4.2    |
| Turkestan, through Wm. Rennie, Seedsman,<br>Toronto.....     | 23                                       | 19.6                                                                        | 4.2    |
| France, Provence.....                                        | 21                                       | 16.8                                                                        | 3.5    |
| Turkestan, through Currie Bros., Seedsmen,<br>Milwaukee..... | 19                                       | 17.8                                                                        | 3.2    |
| Arabia.....                                                  | 23                                       | .6                                                                          | .2     |
| Peru.....                                                    |                                          | .0                                                                          | .0     |