FLAX CULTURE IN RUSSIA.

Flax is cultivated in all parts of European Russia for local consumption, but, according to a recent report by the United States consul at Odessa, it has an importance for manufacture only in twenty-three governments, which sow more than 3,105,000 acres in flax, the remaining twenty-seven governments sowing less than 675,000 acres. With regard to the object for which flax is sown, European Russia can be divided into two regions, the northern and the southern. In the first flax is sown chiefly to obtain the fibre, although with the fibre seed is also obtained, and in the second nearly exclusively for the seed. The northern region of the cultivation of flax for manufacturing purposes extends from the southeastern part of the Baltic Sea to the central part of the Ural Mountains, within which are the governments of Livonia, Kovno, Vilna, Vitebsk, Pskov, Smolensk, Tver, Yaroslav, Vladimir, Nijni Novgorod, Kostroma, Vologda, Viatka, and Perm. More flax is cultivated in the governments of Viatka and Pskov than in the others. In the first about 251,000 acres are sown in flax, and in the second about 251,000 acres. These two provinces may be considered as the centres of the cultivation of flax, around which the other flax-producing provinces are grouped. The yield of flax per acre in these provinces is very different, and depends on the quality of the soil in which the flax is sown. An acre of good land gives 400 pounds or more of fibre and from 400 to 355 pounds of seed, but an acre of poor, exhausted soil will not yield more than 160 to 200 pounds of fibre and about 365 pounds of seed. The average yield for the entire region may be considered to be from 365 to 380 pounds of flax fibre and 400 pounds of flaxseed per acre.

The southern region of the cultivation of flax for the sake of the seed consists of the following territory and governments: The Don-Cossack territory, sowing 282,000 acres; Yeletsinskoslav, sowing 315,000 acres; Kherson government, sowing 175,000 acres; Taurida (Crimea), Samara, Saratov, Voronezh, Tambov, and Poltava. In the last two provinces flax is grown both for the seed and fibre. Flax for the seed is mostly sown either in virgin soil or in old fallow lands. The yield of seed in this region varies from 400 to 670 pounds and more per acre, and, for an average, may be estimated to be about 585 pounds per acre. The total harvest of flaxseed for all of European Russia is estimated at about 1,500,000,000 pounds. Considering the average value of the flax fibre to be $1.88 per ton, and that of the seed to be $4.10 per ton, it will be seen that the value or gain to Russia from the cultivation of flax is about $113,000,000 annually.

The advantages derived from the cultivation of flax would be far more if the qualities of the Russian fibre would correspond with its quantities, and if a larger portion of it were to be exported in a manufactured state. As regards its quality, Russian flax is not only surpassed by Irish flax, but also by flax of many other countries of western Europe (Belgian, Dutch, French, and Bohemian), and is valued in foreign markets lower than any other flax. The low qualities of the Russian fibre are not the results of natural causes, but of the ignorance as to the proper method of treating the flax. The cultivators of flax are chiefly peasants, who partly do not know, and partly do not possess the means to acquire, the latest improvements in the primary technical manipulation of the fibre. Another cause of the imperfect working out of the flax is to be found in the absence of a home demand for a high quality of fibre. Russian factories do not produce linen from the finest numbers of thread, and therefore do not require the highest class of flax. This latter circumstance is unfortunate, as it is a strong impediment to improvements in the manipulation of the flax fibre.
The lesson to American farmers, especially those of the North-west, which the total product of the cultivation of flax in Russia furnishes will be readily appreciated and understood. The possibilities which the cultivation of the flax fibre offers to Western farmers is only equalled by the surprise that such possibilities have thus far been neglected. The seed has been cultivated with more or less satisfactory results in the United States, but the fibre practically not at all. The climate, soil, and conditions generally throughout the North-west are very favorable to the cultivation of the flax fibre as well as the seed. After a short experience, as to the primary manipulation or handling of the flax fibre, our farmers would produce flax which would compare favorably with the best varieties of the fibre. It seems strange that a practical people like ourselves should for years have been satisfied to cultivate flax for the seed at a value of about fifteen dollars per acre, and at the same time allow six hundred pounds of flax fibre per acre to rot on the ground, this flax fibre having a value, after being manipulated, of $186 per ton.

Familiar as our farmers are with the working of improved and expensive agricultural machinery, and the latest developments of the human intellect as applied to the soil, they may always learn something by watching the working of rude ideas as seen in a primitive and unsophisticated people. The main difference between the old and the new system of farming is not one of method, but of expense; and, as physicians never really know what a disease is capable of until they see an outbreak in virgin soil, so it is not possible to fathom all the possibilities of the most commonplace notions and devices until we see them applied with the unconventional freedom and simple directness that belong to comparatively primitive peoples. The Russian peasant is both simple-minded and ignorant. He clings to old methods as much from liking as for the expense which new methods involve. From the flax fibre, by the aid of his primitive and rude contrivance, the Russian peasant produces linen, thread, crash, and other valuable and necessary articles for the use of his family and for sale. It does not require the aid of expensive machinery to make the flax fibre either useful or valuable. The rude machines which the Russian peasant employs are the handiwork of some village carpenter or wheelwright, and are made at a comparatively small cost. If the Russian peasant farmer accomplishes such results, the American farmers, who possess like conditions of climate and soil, should accomplish much more.

The unsatisfactory condition of our farmers in the north-western States, which is certainly due to the overcultivation of wheat, with its yearly decreasing yield per acre, renders it all the more important that a speedy means be found to relieve a condition of things which affects the material interest and welfare of the great majority of the people of the United States. Such a means exists in the flax plant. It will not only enable farmers to make their own linen, rope, thread, crash twining, oil cake, and much besides, but will cause new industries to be established throughout the country in districts where the advent would be both profitable and now. There should be a general and persistent effort made to encourage the cultivation of the flax fibre throughout the United States, with the view of establishing factories for the manufacture of twine or textiles, and, if our consul's report should develop a proper interest in so important a subject, the result can not fail to be satisfactory.