

grown at home. Every flax spinner will admit the superiority of Irish flax: and every Irishman, at the meeting the other day, felt most strongly the necessity and propriety of extending culture in Ireland, and in proposing a company to develop flax cultivation in India. If the cheap labor and fertile soil of the Punjab produce a fibre that will compete with Russian produce, it will be a great blessing to India, and a source of increased prosperity to the linen manufacturers of Ireland and Great Britain. And why not to Canada?

**BOTANICAL RESEARCHES IN CANADA.**—Sir Wm. Hooker, the distinguished botanist, author of the "Botany of the Himalayas," a most valuable contribution to the science, recently published, has determined to take Canada as his share of the field of inquiry, in the publication at the Government expense of "A complete Flora of the British Colonies." The first number of Dr. Griesbach's work of the University of Dettingen, on that relating to the West Indies, has been issued.

**STRAW AS MANURE.**—Wheat straw, estimated by the value of its constituents, is worth for the purpose of feeding from 30s. to 35s. (\$6 to \$7) per ton. We would therefore prefer chopping it up, enriching it with a little mucilage of linseed cake, and feeding our cattle with it, to using it for bedding horses or cattle.

**BRUISING OATS FOR HORSES.**—The fact that oats are frequently undigested, and pass through the horse without change, should be sufficient to show the importance of bruising—for certainly no benefit can be derived from that which is undigested by the animal. Experiments made by the London Omnibus Company and others, show that a smaller quantity is required to produce the same ability to work, when the oats are bruised, than when fed whole.

**LIVE AND DEAD WEIGHT OF CATTLE.**—Eight lbs. out of every 14 lbs., or four-sevenths of the whole live weight of sheep and cattle, represents, when the animal is properly fat, the net weight of the four quarters, exclusive of offal—three-fourths of the live weight of pigs if fat, represents the weight when dressed, but pigs have frequently been killed of which the offal was only one-fifth their live weight and even less.

**MOTIVE CALORIC ENGINE.**—I am looking hopefully to Ericsson's caloric engine as the motor for farming purposes. I hope Mr. Ericsson or some other mechanical genius who has the means and energy sufficient, will construct a locomotive caloric if practicable, (of which I have no doubt.) It will possess great advantages over the steam engine, and can be made to do our plowing, harrowing, reaping, mowing, thrashing, and perhaps our hauling, &c. W. C. H. *Frederic Md.*

**HOW TO LENGTHEN THE SEASON.**—Farmers in the North often complain that the season for labor and growth is too short. They may lengthen it by underdraining Land, which under ordinary treatment must lie untouched in spring several weeks for the water to run off and dry up, is rendered dry in two or three days if well ditched, giving the farmer the control of his land and the privilege of working it from the opening of spring.

**CARE OF CARRIAGES.**—Those who would keep their buggies and carriages in good order, should place a wrench on every nut at least once a month. This will save nuts, save bolts, and prevent rattling, and wear and tear.