

rollers, as well as the vibrating motion, whereby the straw is fed through in a steady stream. No more hands are required to work this brake than those now in use; the straw is streaked ere being presented to the rollers, and is ready for the scutchers as it comes out. The machine arrived here at so late a period in the season, when most of the scutch mills had ceased working, that I had difficulty in getting the trials I wished. Still, through the kindness of some gentlemen, I am able to give the Society a statement of a few. The Rev. Joseph Bradshaw, Milecross, Newtownards, writes me, under date March 7:—

"Sir,—The flax straw (112lbs.) which was put through your brake (Sandford & Mallory's Patent) produced, when cleaned or dressed, 22lbs. 4ozs.; whilst another lot of exactly the same kind of flax, and same weight, produced 20lbs. 10ozs., thus showing a difference of 1lb. 10ozs., in favour of the American brake.

"I superintended the operations of both parcels from first to last, so that I can guarantee the accuracy of the result. The second lot was done in the ordinary way, having been rolled by wooden rollers, and afterwards scutched at three handles driven by a water wheel; the first lot after being passed through your brake, was likewise scutched in a similar manner by the same men at the same stands, so that I consider there could not have been a fairer experiment than the one I made—I remain, &c.,

"JOSEPH BRADSHAW.

"Mr. Alex. Guild, Belfast."

And Mr. John Williamson, Roughport, at whose scutch mill a machine has been at work for a month, says in a letter dated the 9th inst.:

"ROUGHPORT, April 9, 1863.

"DEAR SIR.—I have to report to you on the merits of Sandford & Mallory's American brake, which has been at my scutch mill for the last three weeks. I have tried it on various kinds of straw, and find the results as follows:—On very poor and hard straw I found a gain of 1lb. per cwt. over the same broken by ordinary rollers; on medium quality of straw a gain of 2lbs. 4ozs. per cwt., the yield by your brake being 18lbs. 4ozs. against 16lbs. on same straw broken by ordinary method: on very tender straw over-watered the gain was 3½lbs. per cwt. the yield by your brake being 14½lbs. against 11lbs. by ordinary method. I find the flax from your rollers easier scutched, and the yield softer to feel and the quality improved than that rolled in the ordinary way.—Yours truly,

"JOHN WILLIAMSON.

"Mr. Alex. Guild, Belfast."

It will be seen that the saving in over-watered and tender straw is very great. In America, even better results have been obtained, and I have several certificates to that effect, but I prefer that the machine should make its way here on its merits, as tested here; and I shall feel under obligations to the Society if they will appoint suitable parties to test the merits of the

invention in a thorough manner. There is a machine at work every day at Messrs. Thompson & Co's Foundry, Brown Square, and any gentleman is welcome to bring his own straw and experiment for himself. Mr. Williamson has also kindly offered to show the one at his place at work to any one calling. I may mention here that the machine breaks nemp so thoroughly that little or no scutching is required afterwards. The price complete is £50.

We subjoin the following remarks on Sandford & Mallory's Flax Brake, taken from the last number of the New York *Working Farmer*.

From the inquiries which prevailed among farmers a few months since, upon the subject of Flax Culture, we presume that much more than the usual breadth of land has been devoted to this crop, the present season. We expect to receive shortly the reports of the Commissioner of Agriculture for the month of June, in which the statistics of the Flax crop, so far as ascertained, will be presented, and we shall then be enabled to judge of the prospective yield of this great staple for the year 1863.

We have every reason to believe, however, that the crop of 1863 will be enormous, as compared with that of other years, and consequently, we desire again to call the attention of Flax growers to the unprecedented merits of SANDFORD & MALLORY'S NEW FLAX BRAKE. On page 161 will be found a fine representation of this ingenious and efficient machine, and also many flattering testimonials from those who have used it for months, showing its great superiority to any Flax Brake previously in use. In our August number we shall publish similar recommendations from other parties, as the proprietors desire that the public shall become fully acquainted with those *practical tests* and well authenticated *facts*, which furnish an indisputable criterion of the great merits of their machine. Over SEVENTY of these Flax Brakes have been sold in various sections of the country during the past eight months, and no better test of their efficiency can be asked, than the uniformly favourable reports and opinions of the different operators.

Messrs. SANDFORD & MALLORY are now manufacturing a small machine—costing only \$155—admirably adapted to the wants of the FARMER. We witnessed its operation a few days since, at their rooms in the Harlem Railroad Building, corner of White and Centre Streets, New York, and while the work it performs fully equals in quality that of the larger machines, the labour required to drive it is hardly as great as that of turning a grindstone. Every farmer who has a crop of flax to prepare for market, should order one of these small brakes immediately, as it will pay for itself in one season in the saving it will effect in the preparation of his Flax, and its transportation to market. We ought to thank the persevering industry of the inventors, who