

mustard problem the next year. A weed pulled in time means a clean farm, and if clean seed is sown every year and our farms are fenced, a farm may be kept comparatively clean for many years.

It is readily seen how useless it is to sow clean land with dirty seed. Nothing is ever accomplished this way in the matter of weed eradication. It might be fitting to say right here that the easiest way to get clean seed the cheapest and most reliable is to go each year through the field and pull all the weeds out of enough acres of crop to yield the seed required for next year's crop. In most cases it would require less than half a day to clean next year's seed of all weeds in this way. What more simple method does civilised man want? Too often, however, it is not want of better methods that is the trouble but lack of sufficient application to live up to the light we have, and in such cases well meant advice is superfluous.

INJURIOUS EFFECTS OF WEEDS.

1. *Waste Soil Moisture.*—Tumbling mustard is said to require twice as much moisture as does wheat. If this is so it follows that a field infected to the extent of one-third with this weed will only yield one-half the crop it would otherwise produce.

2. *Waste Plant Food.*—All plants whether useful or ornamental, or neither, draw upon the soil for practically the same elements of plant food. A useless plant in a grain field, then, wastes plant food as well as occupies valuable ground where a beneficial plant would have grown.

3. *Reduce Market Value of Crops.*—The following from the market review of the Manitoba Free Press for three days of the latter part of October, 1912, shows quite plainly the loss to the West due to weeds:

Cars Inspected	Rejected for Weeds	Date	Cash quotations for	
			No. 1	No. 1 rejected
1,053	51	October 25, 1912	90	84
717	35	October 29, 1912	88	83
944	46	October 28, 1912	88	84

This represents a direct cash loss of \$7,490 to the growers of less than 3,000,000 bushels of wheat in these cars, to say nothing of a freight bill of about \$1,200 on the weeds.

Of the cars inspected for those three days 5 per cent. were graded rejected because of weeds. The above market quotations show that the difference between No. 1 Northern and No. 1 rejected for weeds is from 4 to 6 cents per bushel.