January, '16

The Canadian Thresherman and Farmer

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King of Wild Oat Separators Save dockage, clean your grain before mar-keting with The Lincoln "New Superior" Wild Oat Separator. With our patented open and blank space sieves it positively separates every wild oat seed, causing them to lie flat, and not up on end It is Strong, Well-Built and Bolted-Not Nailed. Our machine is built to clean any kind of rain and do perfect work. What the "New Superior" cannot do no other can do. Made in sizes 24, 32 and 42 inches wide, with or without bagger, and with power attach-ment for gasoline engine if desired. Talk with Your Dealer about the CUSHMAN LINE or write for FREE CATALOG **GUSHMAN MOTOR WORKS**



The Lincoln Smut Cleane

No machine can equal them for treating Seed Grain. Made in two sizes. Sold on a positive guarantee to prevent smut. every farmer will realize the necessity of treating his seed grain so that be may have an increased yield of perfect quality grain. Lincoln Smut Gleaners separate smut balls, wild oats, king heads and all light seeds from wheat, also wild oats and all light seeds from barley. By them the farmer can get perfect elevated into the wagon box, being dried by the draining through elevator sizev. An automatic skimmer removes all impurities over a drainer-sieve at tail of machine. ejecting same, while wasting none of the picking solution. Capacity 30 to 75 bashels per hour. No. 3 machine handles 30 to 50 bushels per hour; No. 4, 60 to 75 bushels, accommodaling strong construction, heavy timber; rustless solu-tion tanks of 30 to 50 galons capacity. Write to-day for particulars and prices.

Strong construction, heavy timber tion tanks of 30 to 50 gallons to-day for particulars and prices

Pickling Machine

4 H.P. SAVES A TEAM ON THE BINDER

Cushman is the one practical B light weight and steady power attached to rear of Binder. shman you can cut from 8 to 10 vith less horses. If in heav , and the sidele each h.p Its be acres o stop Binder the Attach



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Weight Engines for Farm and Binder use. Distribu-Powver Driven Machines, such as Fanning Mills, Gream Separators, Power Washing Machines, etc. or Hangers and Mountaineer Neck Yoke Centres. OF CANADA, 286 Princess St., Winnipeg, Man.

You saw this advertisement in this magazine. Don't forget to say so when writing

badly from the force of the wind. For about 750 feet out from the wind-break the grain crop was green and standing in good condition, but beyond it began to get thinner and thinner and for a few feet it was entirely obliterated. There the whole crop was wiped out by the force of the wind blowing the plants out of the ground.

Dr. Saunders and Mr. Mackay measured the fields at several points and found that for each foot of tree growth there was about 50 feet of protection; that is to say that a shelter belt only 10 feet high protected a width of about 500 feet of the field.

We strongly urge every reader to seize the most generous opportunity the Forestry Department are now offering-a free supply of young trees with complete cultural directions. If application is made to Norman Ross at Indian Head before 1st March no one will be disappointed.

Compression and Consumption

In these days of fast running engines there is a strong tendency to underestimate the importance of good compression. Dealing with the subject from the point of view of consumption, the amount of fuel loss is admittedly low for each individual explosion, but in the aggregate, on the principle that "many a mickle makes a muckle," it is well worth considering. With a new car, after it has run 500 miles, says a writer in Light Car, I always believe in taking out the valves to ascertain if they are seating properly all round their circumference, and correcting or replacing any that have proved faulty. Compression losses from this cause are probably greater by far than those from any other source, and novices as a rule fail to realize the effects of a bent valve stem and warped or untrue valve heads. All joints such as at the sparking plugs, the compression taps, and the valve caps, should be made good with copper asbestos washers, and, if they still fail to pass the oil test satisfactorily, the surfaces of the joints (but on no account the threads) should be treated to a slight coating of boiled linseed oil.

Fuel losses can also take place into the crank case; so the first time that the cylinders are dismantled, the piston rings should be carefully scrutinized for signs of "blowing," and any rings that are marked should be replaced.

vibration

preferred.

4 to 20 H.P.