



### Do You Feel This Way?

Do you feel all tired out? Do you sometimes think you just can't work away at your profession or trade any longer? Do you have a poor appetite, and lay awake at night unable to sleep? Are your nerves all gone, and your stomach too? Has ambition to forge ahead in the world left you? If so, you might as well put a stop to your misery. You can do it if you will. Dr. Pierce's Golden Medical Discovery will make you a different individual. It will set your lazy liver to work. It will set things right in your stomach, and your appetite will come back. It will purify your blood. If there is any tendency in your family toward consumption, it will keep that dread destroyer away. Even after consumption has almost gained a foothold in the form of a lingering cough, bronchitis, or bleeding at the lungs, it will bring about a cure in 98 per cent. of all cases. It is a remedy prepared by Dr. R. V. Pierce, of Buffalo, N. Y., whose advice is given free to all who wish to write him. His great success has come from his wide experience and varied practice.

Don't be wheedled by a penny-grabbing dealer into taking inferior substitutes for Dr. Pierce's medicines, recommended to be "just as good." Dr. Pierce's medicines are of known composition. Their every ingredient printed on their wrappers. Made from roots without alcohol. Contain no habit-forming drugs. World's Dispensary Medical Association, Buffalo, N. Y.

## A Few Choice Farms

out of three hundred and fifty we have listed in the Willamette valley

240 acres, well improved and in cultivation, 1 1/2 mile west of Monmouth, Oregon. Price \$65 per acre. Terms

56 1/2 acres, 3 1/2 miles north-west of Independence; all in cultivation; All buildings. A snap at \$560.

8 1/2 acres, in high state of cultivation; good improvements and plenty of fruit; 1 1/4 miles west of Monmouth. Price \$2500.

10 acres well improved land; 3 acres orchard and berries, balance in crop; good water, good buildings, good fences, 2 miles north-west of Monmouth. Price \$2500.

25 acres, 1 mile north of Monmouth; fine black soil, small house and large barn; plenty of water. Price \$85 per acre.

## Olmsted Land Co.

Branch Office Hotel Monmouth  
Monmouth, Oregon

## The Willamette Valley Company

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**ELECTRIC LIGHT AND POWER RATE**—Residence, 15 cents per K. W. Business houses, 25 cents per drop and 5 cents per K. W. Power, rates on application.

OFFICE AT WATERWORKS PHONE MAIN 41

## MELAS

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# A HOME COURSE IN AGRICULTURE

### XII—Selection and Care of Farm Machinery

By C. V. GREGORY  
Agricultural Division Iowa State College

**T**HIE methods of farming followed today are made possible only by the use of modern labor saving machinery. The farm hand of today needs brains more than muscles. The ability to handle a complicated machine successfully is more valuable than the power to do a hard day's manual labor.

With the coming of improved machinery the problem of what to buy and what to get along without has become a serious one. The farmer has more money tied up in machinery than in any one thing besides his land. Having too much machinery is nearly as bad as having too little. What is needed is a wise selection.

It is always well to do a little figuring before buying a new machine. Dividing the cost of the implement by the number of years it may be reasonably expected to last will give the amount that must be charged to depreciation each year. Add to this an allowance for repairs, storage and each year's share of the interest, and you will have the yearly cost of the machine. A little further figuring will show whether the benefit received from it in a year will warrant this cost.

Machinery may be roughly divided into five classes—tillage, planting, haying, harvesting and miscellaneous. Of the many tillage implements there are some that are absolutely necessary on any farm. Among these are the plows. For the farmer on a quarter section a sixteen inch riding plow will be all that is needed for the field work. In addition it may be well to have a cheap walking plow for plowing the garden, turning out potatoes and for use in case of an emergency. A gang plow requires too many horses to be practicable on the average 160 acre farm. On larger farms, where plenty of horses are available, a gang plow will save the time of an extra man. It is a good plan to have the plow supplied with two or three moldboards of different slants. A steep moldboard pulverizes the soil more and for this reason is a good thing to use on stubble land. On clover sod, however, a longer moldboard should be used in order to lessen the draft.

One of the most important tillage implements is the disk. No other machine will pulverize the soil so quickly or thoroughly. The use of a tongue truck—a small two-wheeled arrangement—under the rear end of the tongue is of considerable advantage in taking the weight off the horses' necks. Solid wheel disks pulverize the ground more thoroughly than spaders or cutways.

A good harrow is a necessity on any farm. The flexible type is best for all conditions, as it gets down into the hollows and rides over trash better than will a solid frame harrow. Spring tooth harrows, rollers and weeders all have their special uses, but can hardly be said to be necessary on the average quarter section.

Next in order come the cultivators, and there are so many styles of these that choosing is a difficult matter. The most important part of the cultivator is the shovels. A happy medium is struck in the six shovel type. The shovels on this can be run deep

enough to loosen the soil well the first two times over the field and can later be set shallow enough to avoid serious injury to the spreading roots. If you are in the corn business extensively enough to afford two sets of cultivators it is well to have special surface machines for the last two cultivations. Some companies make surface blades which can be attached in place of the shovels when so desired. In the hands of a careful man the two row cultivator does good and rapid work.

First in the line of planting machines come the seeders. While costing a little more at first, there is no better implement for sowing small grain than the disk drill. The disks cut through cornstalks and other trash, and the seed is deposited evenly and at a uniform depth. The resulting evenness of stand will cause an increased crop sufficient to pay the entire cost of the drill in a year or two.

In selecting a corn planter the run-

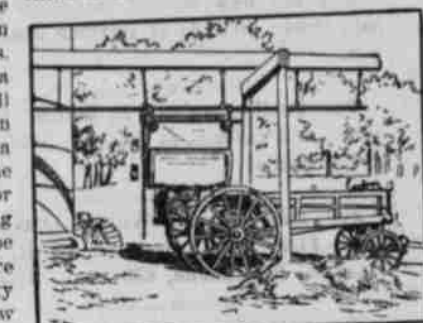


FIG. XXIV—LOADING THE MANURE SPREADER DIRECT FROM THE BARN WITH A LITTER CARRIER.

the most complicated machine on the farm and the one most likely to get out of order. In buying a binder simplicity of construction, ease of adjustment and handiness of oiling are important points to look after. A tongue truck is an attachment that should go with every binder. This is the only means of eliminating side draft that has yet been discovered. A tongue truck is rather expensive, but so are sore shoulders and necks on the horses at harvest time.

Where much stock is kept the corn binder is a necessary implement. By cutting a large share of the corn and using it as fodder or silage much feed is saved that would otherwise be wasted. About 40 per cent of the entire feeding value of the corn plant is in the stalk. When these are left standing in the field the greater part of this feed is wasted. The shocked fodder may profitably be run through a shredder before feeding. This will husk the corn and leave the stalks in the best shape to be fed or used for bedding.

One of the most important of the miscellaneous implements is the windmill. No farmer can afford to pump water for his stock by hand when the wind will do it for nothing after the mill has once been put up. In erecting a windmill be sure that it is put on a high enough tower so that surrounding trees or buildings will not cut off the wind. A mill which is geared back so that the wheel makes three revolutions or so to one stroke of the pump will run in a lighter wind than will the straight geared type. A three legged tower is just as strong as a four and considerably cheaper.

A machine that is almost indispensable on a stock farm is the gasoline engine. The original cost of these engines is reasonable, and the amount required for fuel and repairs is small. With a gasoline engine to furnish the power to run a sheller and grinder feed can be cheaply and easily prepared for the stock. The engine will also saw wood, if you are fortunate enough to have any to saw, run the slage cutter, grindstone, separator, churn and washing machine. It may also replace the windmill as a source of power for pumping.

In selecting a gasoline engine be sure to get one large enough to do the required work easily, remembering at the same time that where much light work is to be done a small engine will do it with much less gasoline than will be used by a large one. This objection to a large engine can be overcome to a large extent by so arranging the work that several light machines may be run at the same time. The most reliable type of engine is the four cycle, in which there are two revolutions of the flywheel to one explosion. The water system of cooling is the most efficient, though air cooled engines are all right for light work.

Another necessary machine of the stock farm is the manure spreader. Not only does this save a great deal of work, but it also applies the manure more evenly and will cover a greater amount of ground with a given quantity of manure. There should be little wood in a manure spreader, since it rots out quickly.

H. Hirschberg, Pres. A. Nelson, Vice Pres. C. W. Irvine, Cash.

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## Tom Cronise

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