

# Home Course In Modern Agriculture

## XII.—The Selection and Care of Farm Machinery

By G. V. GREGORY,  
Agricultural Division, Iowa State College

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THE 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. Devising 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 cutaways.

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 shovel. A happy medium is struck in the six shod 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.

ner type of furrow opener is preferable to the disk, since the latter is hard to guide. The essential point in planters, however, is the drop. If you are in the habit of grading your seed corn carefully so that the kernels are all about the same size the edge drop plants will give a more even stand than will the round hole drop. Planters in which the plates are turned by a chain from the axle and the wire used only to open the shoe are surer to drop every time than those in which all the work is done by the wire.

There are two haying implements that are absolutely essential, the mower and the rake. Be sure to pick a wide cut mower. Six feet is a good width. The extra draft amounts to little, and considerable time will be saved in going over the field. Where much hay is made the old way of raking in bunches and piling it on to the wagon by hand is too slow and laborious. A much better plan is to rake the hay into windrows with a side delivery rake and gather it up with a hay loader. Where the hay is put in the barn a set of double harpoon forks will make short work of the unloading. If it is to be stacked some form of stacker will save a great deal of hard work.

The most important harvesting machine is the self binder. The binder is

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 stocked 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 tower so that surrounding hills and 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.

Kills Her Foe of 20 Years. "The most merciless enemy I had for 20 years," declares Mrs. James Duncan, of Haynesville, Me., "was Dyspepsia. I suffered intensely after eating or drinking and could scarcely sleep. After many remedies had failed and several doctors gave me up, I tried Electric Bitters, which cured me completely. Now I can eat anything. I am 70 years old and am overjoyed to get my health and strength back again." For indigestion, loss of appetite, kidney trouble, lame back, female complaints, it's unequalled. Only 50c at Jones Drug Co.

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**STRAYED**—from my place on May 22, one dark Jersey milk cow, having brass nose on horns; wearing a medium sized square bell; also one two-year old heifer and one light colored yearly Jersey heifer. Finder please notify Geo. T. Baker, Resident, R. F. D. No. 1, Box 95, Milwaukie, Oregon.

**FOR SALE**—Late and early cabbage plants, 20c a hundred, Address J. J. Davis, Oregon City, R. D. No. 1.

**WANTED**—Men and women to enter contest for the beautiful \$200 lot in South Oregon City, to be given away by The Oregon City Enterprise. For particulars apply Enterprise office.

**WANTED**—Boys and girls to enter contest for the beautiful \$200 lot in South Oregon City, to be given away by The Oregon City Enterprise. For particulars apply Enterprise office.

**Notice of Administrator's Sale.**  
Notice is hereby given that in pursuance of an order of the County Court of the State of Oregon, for Clackamas County, made the 27th day of May, 1909, the undersigned as administrator of the estate of Lucius D. Rockwell, deceased, will on and after the 28th day of June, 1909, proceed to sell at private sale at Oregon City, Oregon, to the highest bidder for cash in gold coin of the United States, all the right, title, and interest in and to the following described real property, to-wit:

Undivided half interest in Blocks 11, 12, 17 and 18 and undivided half in the south half of Block 13, and undivided half interest in the South half of Block 16, all in Prunedale, in Clackamas County, State of Oregon.

Bids will be received by the administrator in care of County Clerk of Clackamas County, at Oregon City, Oregon.

THOMAS ROY SLEIGHT,  
Administrator of the Estate of Lucius D. Rockwell, Deceased.

FRANKLIN T. GRIFFITH,  
Attorney for Administrator.

**Notice to Contractors.**  
Bids will be received for the moving of the McLaughlin home from its present location to the park on Center street, between 7th and 8th streets, also for the repair of building. Specifications can be had on application to E. G. Caulfield at Bank of Oregon City, or E. E. Brodie, at the Enterprise office. Bids will be received until Wednesday, June 23, at 5 P. M., by E. E. Brodie, Secretary. The right to reject any and all bids reserved.

McLOUGHLIN MEMORIAL ASS'N.

**Summons.**  
In the Circuit Court of the State of Oregon, for the County of Clackamas.

Wilson Radley, Plaintiff,  
vs.  
Laura Radley, Defendant.

To Laura Radley, Defendant: You are hereby required to appear and answer the complaint filed against you herein on or before the 3rd day of July, 1909, said date being six weeks from the first publication of this summons herein, and if you fail to appear and answer, the plaintiff will apply to the Court for the relief demanded in the complaint herein, to-wit:

For a decree forever dissolving the bonds of matrimony now existing between you and the plaintiff herein upon the grounds of desertion, and for such other and further relief as to the Court may seem equitable. This summons is served upon you by publication for six consecutive and successive weeks in the Oregon City Enterprise, by order of the Honorable J. U. Campbell, Judge of the above entitled court, which order is dated May 19th, 1909.

Date of first publication May 28th, 1909.

JOHN F. LOGAN,  
Attorney for Plaintiff.

**Summons.**  
In the Circuit Court of the State of Oregon, for the County of Clackamas.

Francis Bowers, Plaintiff,  
vs.  
Curtis E. Bowers, Defendant.

To Curtis E. Bowers, Defendant: In the name of the State of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled suit within ten days from the date of the service of this summons upon you, if served within this County, or if served within any other County of this State, then within twenty days from the date of the service of this summons upon you, and if you fail to answer, for want thereof, the plaintiff will apply to the Court for the relief demanded in his complaint, to-wit:

For a decree dissolving the bonds of matrimony heretofore and now existing between plaintiff and defendant.

D. M. DONATCH,  
Attorney for Plaintiff.

**Notice of Final Settlement.**  
Notice is hereby given that the undersigned Executor of the Estate of Aaron E. Wait, deceased, has filed in the County Court of Clackamas County, State of Oregon, his final account as such Executor of said estate and that Monday, the 21st day of June, 1909, at the hour of 11 o'clock A. M. has been fixed by the said Court as the time for consideration of said final report, hearing objections of same and a settlement thereof.

Dated May 19th, 1909.  
CHAS. N. WAIT,  
Executor of the Estate of Aaron E. Wait, Deceased.

THOS. F. RYAN, Attorney for Executor.

**Notice to Creditors.**  
Notice is hereby given that the undersigned has been duly appointed by the County Court of the State of Oregon for Clackamas County, administratrix of the estate of J. Charles Moore, deceased. All persons having claims against said estate are hereby required to present the same to me properly verified as by law required, at the office of Lvy Stupp, Oregon City, Oregon, within six months from the date hereof.

CLARA MOORE,  
Administratrix of the Estate of J. Charles Moore, Deceased.

Dated this, the 14th day of May, 1909.

**Summons.**  
In the Circuit Court of the State of Oregon, for the County of Clackamas.

Richard H. Owens, Defendant,  
vs.  
To Richard H. Owens, defendant above named:

In the name of the State of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before the 2nd day of July, 1909, said date being after the expiration of six weeks from the first publication of this summons, and if you fail to appear and answer, said complaint, for want thereof the plaintiff will apply to the Court for the relief demanded in the complaint, to-wit: For a decree dissolving the bonds of matrimony now existing between plaintiff and defendant.

This summons is published by order of Hon. Grant H. Dimick, Judge of the County Court for Clackamas County, Oregon, which order was made and entered on the 29th day of May, 1909, and the time prescribed for publication thereof is six weeks, beginning with the issue of Friday, May 21st, 1909, and continuing each week thereafter to and including Friday, July 24, 1909.

GEO. C. BROWNELL,  
Attorney for Plaintiff.

**Summons.**  
In the Circuit Court of the State of Oregon, for Clackamas County.

Alice Sarah Statter, Plaintiff,  
vs.  
Milton M. Statter, Defendant.

To Milton M. Statter, the above named defendant:

In the name of the State of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled court and cause at or before the expiration of six weeks from the date of first publication of this notice, and if you fail to do so the plaintiff will apply to the Court for the relief prayed for in the said complaint, to-wit: a decree dissolving the bonds of matrimony existing between you and the plaintiff and restoring to the plaintiff her maiden name, Alice Sarah Howard.

This summons is published pursuant to an order of Hon. T. A. McBride, Judge of said court, made April 24, 1909, directing that this notice be published not less than once a week for six consecutive weeks in the Oregon City Enterprise. The date of the first publication of this notice is April 16, 1909.

DAVID N. MOSESSEHN,  
Attorney for Plaintiff.

**Summons.**  
In the Circuit Court of the State of Oregon, for the County of Clackamas.

Agnes T. Allen, Plaintiff,  
vs.  
W. J. Allen, Defendant.

In the name of the State of Oregon, you are hereby required to appear and answer to the complaint filed against you in the above entitled court and cause on or before the 11th day of June, 1909, and if you fail to so appear or answer within said time, the plaintiff will apply to the Court for the relief prayed for in said complaint, to-wit: that the bonds of matrimony existing between the plaintiff and the defendant be dissolved, and that the plaintiff be awarded the care and custody of her minor child, Mary A. Allen, and for all further relief as equity and the nature of this suit may require. This summons is published pursuant to an order of the County Court of Clackamas County, Oregon, made on the 21st day of April, 1909, the first publication being on the 30th day of April, 1909, and the last publication on June 11, 1909.

W. J. MAKELIM,  
Attorney for Plaintiff.

**Summons.**  
In the Circuit Court of the State of Oregon, for Clackamas County.

Barbara Hinkle, Plaintiff,  
vs.  
Jacob Hinkle, Defendant.

To Jacob Hinkle, defendant above named:

In the name of the State of Oregon, you are hereby required to appear and answer to the complaint filed against you in the above entitled suit on or before the 5th day of June, 1909, said date being after the expiration of six weeks from the first publication of this summons, and if you fail to appear and answer said complaint, for want thereof the plaintiff will apply to the Court for the relief prayed for in the said complaint, to-wit: For a decree dissolving the bonds of matrimony now existing between plaintiff and defendant.

This order is published by order of Hon. Thomas A. McBride, Judge of the above named court, which order was made and entered on the 19th day of April, 1909, and the time prescribed for publication thereof is six weeks, commencing with the issue of April 23d, 1909, and continuing each week thereafter to and including June 4, 1909.

GEO. C. BROWNELL,  
Attorney for Plaintiff.

**Summons.**  
In the Circuit Court of the State of Oregon for Clackamas County.

Anna E. McKeown, Plaintiff,  
vs.  
Thomas J. McKeown, Defendant.

To Thomas J. McKeown, the above named defendant:

In the name of the State of Oregon, you are hereby required to appear and answer to the complaint filed against you in the above entitled court and cause on or before the 28th day of May, 1909, which will be six weeks after the first publication of this summons, and if you fail to so appear and answer, the plaintiff will apply to the Court for the relief prayed for in the complaint, to-wit: for the dissolution of the bonds of matrimony existing between yourself and the plaintiff and for the custody of the three minor children named in her complaint and for such further relief as to the Court may seem just.

This summons is published by order of the Hon. Thomas A. McBride, Judge of the above named Court, made and entered on the 20th day of April, 1909. First publication April 23, 1909. Last publication May 28, 1909.

MAC MAHON,  
Attorney for Plaintiff.

**Notice to Creditors.**  
Notice is hereby given that the undersigned has been duly appointed by the County Court of Clackamas County, Oregon, executrix of the last will and testament of Bertha E. Tacharnig, deceased, late of said County and State. Any and all persons having claims against the said estate are hereby notified to present the same duly verified according to law to the undersigned, at the office of C. H. Dye, Esq., corner 8th and Main streets, Oregon City, Oregon, within six months from the date of this notice.

JULIA TSCHARNIG HARTKE,  
Executrix of aforesaid estate.

Dated, April 30th, 1909.

of matrimony now existing between plaintiff and defendant.

This summons is published by order of Hon. James T. Campbell, Judge of the Circuit Court for Clackamas County, Oregon, which order was made and entered on the 6th day of May, 1909, and the time prescribed for publication thereof is six weeks, beginning with the issue of Friday, May 7th, 1909, and continuing each week thereafter to and including Friday, June 18th, 1909.

GEO. C. BROWNELL,  
Attorney for Plaintiff.

**Notice of Sheriff's Sale.**  
Notice is hereby given that on Monday the 5th day of July, 1909, at the hour to 9 o'clock A. M. of said day at the Court House door, I will offer for sale and sell to the highest bidder for cash in hand, all of the property that Clackamas County has acquired title to by virtue of the sales of 1903 and 1904. The sale will commence at the time stated and be adjourned from day to day until completed.

Dated this 25th day of May, 1909.  
R. B. BEATIE, Sheriff.

By R. W. BAKER, Deputy.

**Summons.**  
In the Circuit Court of the State of Oregon, for Clackamas County.

Alice Sarah Statter, Plaintiff,  
vs.  
Milton M. Statter, Defendant.

To Milton M. Statter, the above named defendant:

In the name of the State of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled court and cause at or before the expiration of six weeks from the date of first publication of this notice, and if you fail to do so the plaintiff will apply to the Court for the relief prayed for in the said complaint, to-wit: a decree dissolving the bonds of matrimony existing between you and the plaintiff and restoring to the plaintiff her maiden name, Alice Sarah Howard.

This summons is published pursuant to an order of Hon. T. A. McBride, Judge of said court, made April 24, 1909, directing that this notice be published not less than once a week for six consecutive weeks in the Oregon City Enterprise. The date of the first publication of this notice is April 16, 1909.

DAVID N. MOSESSEHN,  
Attorney for Plaintiff.

**Summons.**  
In the Circuit Court of the State of Oregon, for the County of Clackamas.

Agnes T. Allen, Plaintiff,  
vs.  
W. J. Allen, Defendant.

In the name of the State of Oregon, you are hereby required to appear and answer to the complaint filed against you in the above entitled court and cause on or before the 11th day of June, 1909, and if you fail to so appear or answer within said time, the plaintiff will apply to the Court for the relief prayed for in said complaint, to-wit: that the bonds of matrimony existing between the plaintiff and the defendant be dissolved, and that the plaintiff be awarded the care and custody of her minor child, Mary A. Allen, and for all further relief as equity and the nature of this suit may require. This summons is published pursuant to an order of the County Court of Clackamas County, Oregon, made on the 21st day of April, 1909, the first publication being on the 30th day of April, 1909, and the last publication on June 11, 1909.

W. J. MAKELIM,  
Attorney for Plaintiff.

**Summons.**  
In the Circuit Court of the State of Oregon, for Clackamas County.

Barbara Hinkle, Plaintiff,  
vs.  
Jacob Hinkle, Defendant.

To Jacob Hinkle, defendant above named:

In the name of the State of Oregon, you are hereby required to appear and answer to the complaint filed against you in the above entitled suit on or before the 5th day of June, 1909, said date being after the expiration of six weeks from the first publication of this summons, and if you fail to appear and answer said complaint, for want thereof the plaintiff will apply to the Court for the relief prayed for in the said complaint, to-wit: For a decree dissolving the bonds of matrimony now existing between plaintiff and defendant.

This order is published by order of Hon. Thomas A. McBride, Judge of the above named court, which order was made and entered on the 19th day of April, 1909, and the time prescribed for publication thereof is six weeks, commencing with the issue of April 23d, 1909, and continuing each week thereafter to and including June 4, 1909.

GEO. C. BROWNELL,  
Attorney for Plaintiff.

**Summons.**  
In the Circuit Court of the State of Oregon for Clackamas County.

Anna E. McKeown, Plaintiff,  
vs.  
Thomas J. McKeown, Defendant.

To Thomas J. McKeown, the above named defendant:

In the name of the State of Oregon, you are hereby required to appear and answer to the complaint filed against you in the above entitled court and cause on or before the 28th day of May, 1909, which will be six weeks after the first publication of this summons, and if you fail to so appear and answer, the plaintiff will apply to the Court for the relief prayed for in the complaint, to-wit: for the dissolution of the bonds of matrimony existing between yourself and the plaintiff and for the custody of the three minor children named in her complaint and for such further relief as to the Court may seem just.

This summons is published by order of the Hon. Thomas A. McBride, Judge of the above named Court, made and entered on the 20th day of April, 1909. First publication April 23, 1909. Last publication May 28, 1909.

MAC MAHON,  
Attorney for Plaintiff.

**Notice to Creditors.**  
Notice is hereby given that the undersigned has been duly appointed by the County Court of Clackamas County, Oregon, executrix of the last will and testament of Bertha E. Tacharnig, deceased, late of said County and State. Any and all persons having claims against the said estate are hereby notified to present the same duly verified according to law to the undersigned, at the office of C. H. Dye, Esq., corner 8th and Main streets, Oregon City, Oregon, within six months from the date of this notice.

JULIA TSCHARNIG HARTKE,  
Executrix of aforesaid estate.

Dated, April 30th, 1909.

PROFESSIONAL DIRECTORY  
**HARVEY E. CROSS**  
ATTORNEY AT LAW  
Real Estate, Loans, Insurance  
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**GEORGE C. BROWNELL**  
ATTORNEY-AT-LAW  
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**JOSEPH E. HEDGES**  
Lawyer  
MONEY TO LOAN WEINHARD BUILDING

**Summons.**  
In the Circuit Court of the State of Oregon, for Clackamas County.

Margaret Lehman, Plaintiff,  
vs.  
Albert E. Lehman, Defendant.

To Albert E. Lehman, defendant above named:

In the name of the State of Oregon, you are hereby required to appear and answer the complaint filed against you in the above entitled suit on or before the 26th day of June, 1909, said date being after the expiration of six weeks from the first publication of this summons, and if you fail to appear and answer said complaint, for want thereof the plaintiff will apply to the Court for the relief demanded in the complaint, to-wit: For a decree dissolving the bonds of matrimony now existing between plaintiff and defendant.

This summons is published by order of Hon. Grant H. Dimick, Judge of the County Court for Clackamas County, Oregon, which order was made and entered on the 12th day of May, 1909, and the time prescribed for publication thereof is six weeks beginning with the issue of Friday, May 14th, 1909, and continuing each week thereafter to and including Friday, June 25th, 1909.

GEO. C. BROWNELL,  
Attorney for Plaintiff.

**Notice of Sale.**  
Notice is hereby given that in pursuance of an order of the County Court of the State of Oregon, for Clackamas County, made the 29th day of April, 1909, the undersigned, as administrator of the estate of B. F. Barstow, deceased, will on and after the 31st day of May, 1909, sell at private sale at rooms 3, 4, and 5, Stevens building, at Oregon City, Oregon, to the highest bidder for cash in gold coin of the United States and subject to confirmation by said County Court, all the right, title and interest in and to the following described real property, to-wit: All of the East half of the Southwest quarter of section twenty-nine (29) in Township six (6) South of Range two (2) East of the Williams Meridian, in Clackamas County, Oregon.

Dated this 29th day of April, 1909.  
CHRISTINA SHARP,  
Administratrix of the estate of B. F. Barstow, deceased.

GORDON E. HAYES,  
Attorney for Estate.

**THOS. F. RYAN**  
Attorney-at-Law  
Probate and Realty Law Practice Specialties.  
Rooms 2 and 3 Masonic Temple

**C. D. & D. C. LATOURETTE**  
Attorneys-at-Law  
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