## HOME COURSE IN SCIENTIFIC **AGRICULTURE**

## SEVENTH ARTICLE-THE DAIRY HERD.

By HENRY E. ALVORD, C. E., Former Chief of Dairy Division, Bureau of Animal Industry, United States Department of Agriculture.

HE pursuit of dairy farming depends for its success upon certain fundamental conditions First, the owner of the business himself, or otherwise the agent or manager who has the immediate con trol and personal direction of the work. must have a natural fondness for ani mals, prompting to generous and kind treatment, as well as good judgment in selection, breeding and care. It is not sufficient that he should be a horseman or fond of cattle in general. For best results he should have a special liking for the dairy cow over and above all other snimals. Second, the cattle must be good of their kind and of a variety suited to the work. Third, the farm should be specially adapted to the branch of husbandry in view. A good dairy farm is pretty certain to be good for general farming, but many good farms in general are not suited to dairying. The dairy farm should be carefully selected, all the requirements of the business being well considered. Yet many disadvantages so far as the farm is concerned may be successfully overcome by the skillful dairyman, and dairying in some form is profitably conducted without any farm, so that this condition, important as it is, can not be regarded as essential. Fourth, it is well to study the character of the accessible markets and the means of communication. Location and the line



JERSEY CALVES

of dairying to be followed may be largely controlled by the markets. In some cases the markets form an essential condition, but modern facilities for transportation make the location the dairy farm with markets comparatively unimportant.

Like almost all other occupations at the present day, dairying has become divided into several distinct and special lines. These differ mainly as to the form of product and the manner of disposing of it. Milk or cream may be produced for delivery to consumers and this delivery may be direct or in direct. The same products may be de livered to a factory for manufacture into butter or cheese, or the milk product of the herd may be worked up at home and there converted into butter cheese. The prudent dairyman should first consider which line of business he will pursue. In so doing he must have regard for all his circum stances-the location, markets, farm, buildings, water and ice supply, the la bor at his command-and his own preference and prospects for profit.

Some dairymen prefer a "general purpose cow," which is a member of a specially developed milk producing family from one of the beef grades or grades of such stock. An animal is thus secured which has a large frame. is easily kept in good flesh and fattens soon when not milking heavily. Such a one also has large calves, profitable for veal or for growing as steers. Even if such animals are not so productive while in the dairy their meat making proclivities may make up for There are two or three of the established breeds of cattle which claim to possess combined qualities for meat and milk. On the other hand, many dairymen (including the writer) prefer cattle of the distinct class or type es adapted to dairy purpos alone. This class includes various famfiles and breeds, all having the marked characteristics which distinguish the milk producer. Owners of such cows expect them to be so profitable as milkers that their beef producing quality and the final disposition of their care casses may be entirely ignored, and the calves, except so far as wanted to

raise for the dairy, are given fittle consideration. Which of these lines of policy should be pursued every dairy-

man must determine for himself. Some dairy cattle are noted for the quantity of milk they produce, others for the high quality or richness of their milk, which means they are good butter producers. Some combine quantity and quality.

There are cows of active habits which forage well on a wide range of scanty pasture and will profitably work up the coarser kinds of food in winter. There are others which have proved their capacity for making good returns when more closely confined and subjected to high feeding. Some cows give a great flow of milk for a comparatively short season, and others are noted for an even, steady yield of milk the year through. As a rule, the different dairy characteristics named pertain to different breeds, so that every dairyman is likely to find some one breed of dairy cattle better suited to his wants than any other. There is no special cheesemaking cow. The best butter cow is also the best for cheese. This fact has been demon strated beyond dispute.

There are two very different ways of forming a dairy herd and of maintain-ing its size and quality. It may be done by buying or by breeding, and these two methods may be combined

The purchasing plan is practiced to a considerable extent by those who produce milk for town and city supply. In a few cases it has been known to be successful where the work of the herd was to make butter. Applied in its extreme form, cows are bought when matured and at their prime. Judged almost exclusively by their milk yield, are highly fed, so as to keep steadily gaining in flesh, and are sold, usually to the butcher, as soon as they cease to be profitable as milkers. The bull may be of any kind so long as he gets the cows in calf, as calves are of value only as causing "fresh" cows and are disposed of as soon as possible. The first modification of this system is to keep extra good cows for several seasons and the next to raise helfers from some of the best milkers to replenish the herd. This way of making up a herd and keeping good its numbers requires abundant capital and rare judgment in buying and in seiling. It cannot be recommended to one lacking experience, and even the shrowd buyer runs great risk of introducing disease.

The other extreme is to begin with few well selected animals as a foundation and gradually build up the herd to the size desired by judicious breeding and natural increase. This method takes time, and time which may be money, but it is by far the safer and

more satisfactory in its results.

A desirable combination in starting to buy the number of cows desired and good animals of the sort determin ed in advance. If one's means will permit include a few superior cows and a first class bull at any rate. Let the cows selected be such as have had two caives and perhaps three, so that they may be judged by their own development and yet be young enough to improve and be in full profit for some With a herd thus formed begin at once the work of improvement by breeding and selection. Sell promptly any cow which proves unsatisfac-tory and replace her by the best increase of the herd, or purchase occasionally an animal which will raise the average quality.

A dairyman can hardly be advised to buy at once a full stock of pure bred cattle of any breed if his sole object and dependence for profit is to be the dairy product of the herd. Such a venture will necessitate large investment and should include the breeding of registered animals, for sale at remunerative prices, as a part of the business. Well bred and well selected grade cows of the line of blood desired seem to be the most profitable animals for the practical dairyman or at least the best to begin with. If en terprising and progressive the owner hardly be content with grades only. He may begin with only his buil pure bred. Presently he will want a registered cow to match, then one or two more.

The bull is constantly referred to as

"the head" of the herd, and that trite saying, "The buil is half the herd," should never be forgotten. The grade dam may be selected and largely retied upon to give size, form, constitution and capacity of production to her heifer calf. Its dairy quality, the inbred power to increase the richness of milk, is derived from the pure bred sire. One cow may prove a poor dam or fall to breed and still give profit in milk. Such a loss is comparatively trivial and the fault easily corrected. But if the buil fails or proves a poor sire the entire increase of a year may be lost. In getting a bull get the best, or at least approach that standard as nearly as possible. A common error among dairymen is to use immature bulls and to dispose of good ones before their merit as sires has been fairly proved Bull calves are cheap, and young bulls considered much easier to handle But it is good advice to the buyer to purchase a bull of some age, whose progeny proves his value as a breeder. rather than a calf of exceptional pedigree, and to the owner, having a sire of proved excellence, to keep him and use him for years or as long as he shows himself potent and prepotent. Of course the question of too close inbreeding is not forgotten and must not be overlooked by the breeder. The writer is a thorough believer in the use of mature bulls of known value as

The chief objection made to bulls of some age is that they are likely to be vicious and dangerous. But the great majority of bulls of all the dairy breeds can be handled without serious trouble If properly reared and managed.

## Local Representative Wanted

## -by-Large Leading Nursery

We want a permanent representative for this district. Must be a person of good standing and character and should have some knowledge of horticulture. Must be able to devote all your time to the business. Unless you are making \$150.00 per month, you are not doing as well as you should. Many of our salesmen make from \$50.00 to \$75.00 per week. Orenco trees are known throughout this state as being perfectly reliable, sturdy, fast growers, early bearers and costing no more than lots of trees that are not hearly so good. We have but one representative in each territory. We assist you in every possible way. Our nursery is recognized as the largest and most favorably known in the entire west. Our terms are liberal. If you want a permanent, good paying position with a convolution. If you want a permanent, good paying position with an opportunity of enlarging your field of activity, write us today. Give references, past occupation, etc., with your first letter.

## Oregon Nursery Company

Notice for Publication.

Department of the Interior,

Department of the Interior,
U. S. Land Office at The Dalles, Ore.
May 1st, 1913.

Notice is hereby given that
Hiram M. Smead
of Post, Oregon, who, on June 11th,
1910, made homestead No. 07004, for swi nwi, wi swi, and sei swi sec-tion 2, township 17 south, range 19 east, Willamette Meridian, has filed notice of intention to make final three-year proof, to establish claim to the land above described, before the county clerk at his office at Princville, Oregon, on the 13th day of June, 1913.

Claimant names as witnesses:
Frank M. Post, Edward E. Gillenwater, Caleb Davis, Hannas H.
Brummer, all of Post, Oregon.
5-8p C. W. Moore, Register.

Notice for Publication.
Department of the Interior,
U. S. Land Office at The Dalles, Ore.
May 5th, 1913.
Notice is hereby given that
Lee M. Dealy
of Alfalfa, Oregon, who on December
10th, 1907, made homestead No. 15812
Serial No. 04270 for wi swi, sei swi,
section 33, township 18 south, range
16 east, and lot 3, section 4, township
19 south, range 16 east, Williamette
Meridian, has fied notice of intention to make final five-year proof to
establish claim to the land above
described before the county clerk at
his office at Prineville, Oregon, on
the 17th day of June, 1913.
Claimant names as witnesses:
George Millican, James A. Moffitt,
Thurman Moffitt, all of Prineville,
Oregon, and George W. Jones of
Bend, Oregon.
C. W. Moork, Register.

Oregon, and George 5-8 p
Bend, Oregon.
C. W. MOORE, Register.

## Notice for Publication.

Department of the Interior,
U. S. Land Office at The Dalles, Ore,
May 12th, 1913.
Notice is hereby given that
Edward L. Hensley
of Prineville Oregon, who, on September 15th, 1906, made homestead No.
18325, serial No. 03990, for så seå, section 17, and nå nej section 20, township
13 south, range 16 cast, Willamette
Meridian, has filed notice of intention
to make final five-year proof, to estabto make final five-year proof, to estab-lish claim to the land above described, before the county clerk at his office at Prineville, Oregon, on the 24th day of June 1913

June, 1915.

Claimant names as witnesses: Will liam H. Lottin, William H. McCoy, Richard M. Powell, George Turner, all of Prineville, Oregon.

5-15p C. W. McOrr, Register.

Notice for Publication. Department of the Interior, U. S. Land Office at The Dalles, Ore. May 5th, 1913.

May 5th, 1913.

Notice is hereby given that
Thomas Dealy
of Alfalfa, Oregon, who, on June
30th, 1906, made homestead No. 15245

Serial No. 03949, for swi nei, nwi sei, nei swi, and sei nwi section 33 set, net swi, and set nwi section 38 township 18 south, range 16 east, Willamette Meridian, has filed notice of intention to make final five-year proof to establish claim to the land above described before the county clerk at his office at Princylle, Oregon, on the 17th day of June, 1913. Claimant names as witnesses: George Millican, James A. Mofflitt, Thurman Mofflitt, all of Prineville, Oregon, George W. Jones of Bend, Oregon.

## Notice to Creditors.

C. W. Moore, Register.

Notice is hereby given that the undersigned has been, by the county court of the state of Oregon for Crook county, duly appointed administrative of the estate of Elmer Clark, deceased, and all GEO. NOBLE, N. G.; BERT BARNES, estate of Etimer Clark, deceased, and all persons having claims against said estate are hereby required to present the same, duly verified, to said administratrix at the law office of M. E. Brink, in the city of Prineville, Crook county, the city of Prineville, Crook county, state of Oregon, within six months from the date of the first publication of

FRANCES CLARK,

Administratrix of the estate of Elmer Clark, deceased. 5-29-6t

### Toppenish Nursery Co. Are Promptness and Quality of Service Any Interest to You?

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Reside getting the highest grade of nursery stock to be obtained, is it not important that you get it from a reliable concern, one that you get it from a reliable concern, one that is in business to stay, ready to take care of you for years to come, and one that is determined to give satisfaction? Our desire to secure your business is only exceeded by our delarmination to merit it.

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Attorney-at-Law Roal Estate Oregon

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Lawyer The Dalles .

R. Elliott,

Attorney-at-Law

## Willard H. Wirtz

Attorney-at-Law. Office in M. R. Biggs' office. PRINEVILLE OREGON

977. C. Brink

Lawyer A street, Princoille,

## J. Tregelles Fox

M. R. C. S. Eng; and L. S. A. Londen; Licencee Oregon State Medical Board. Specialist in Surgery; Hygiene; Ali-mentary Canal; women and children's diseases, etc Office and residence Third street near Court House. Tell: Pioneer. Calls an wered promptly, night or day. Charges moderate

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GEO. NOBLE, N. G.; BERT BARNES, V. G.; T. L. Coon, Sec.; C. B. DINWID-

### Real Estate. Notice is hereby given, by the un-

Dated and published first time May destate of Mary Wilkins, deceased, that in pursuance of an order of the that in pursuance of an order of the county court, made on the 7th day of April, 1913, in the matter of the estate of Mary Wilkins, deceased, the undersigned will sell at private sale after the 22d day of May, 1913, in Prineville, Oregon, all the right, title and interest of said Mary Wilkins, deceased, at the time of her death and all the right, title and interest the said estate has acquired interest the said estate has acquired in addition to that of the said Mary Wilkins at the time of her death in Wilkins at the time of her and to all of the following described and the following d real estate, to-wit: Lots Five and Six of block Eight in the Fifth addi-

tion to Princville, Oregon.

Terms and condition of sale—cash.
Dated this 24th day of April, 1913.
A. H. Lippman,
Administrator of the estate of
Mary Wilkins, deceased.

## Notice.

Toppenish, Wash,
Unsurpassed Nursery Steck Grown in the Famous Yakima Valley.

Salesmen Wanted.

During the summer will saw wood on Wednesday and Saturday of each week. Leave your orders at Kamstra's store and they will be promptly attended to 5.8-1m M. Kamstra.

During the summer will saw wood on Wednesday and Saturday of each week. Leave your orders at Kamstra's store and they will be promptly attended to 5.8-1m W. Kamstra.

5.8-10 WM. Farre, Register.

Notice for Publication

(Department of the Interior) U. S. Land Office at The Dalles, Ore.

Notice is hereby given that
John L. Walsh
of Imperial, Oregon, who on April
13th, 1911, made homestead No. 08667,
for swi, section 28, and nwi, section
33, township 20, south, range 18 east
Willamette meridian, has filed notice
of intention to make final three-year
proof to establish claim to the land
above described, before A. S. Fogg,
U. S. Commissioner, at his office at
Hampton, Oregon, on the 14th day
of July, 1913.
Claimant names as witnesses. To

of July, 1913.

Claimant names as witnesses: Tobias Larsen, Martin Johnson and William Fraser, of Imperial, Oregon, and Joseph Stenkamp, of Bend, Ore. 6-12

C. W. Moore, Register.

Notice for Publication

Notice for Publication
Department of the Interior.
U. S. Land Office at The Dalles, Oregon.
May 27, 1913.
Notice is hereby given that
Walter T. Morris,
of Post, Oregon, who on Novomber 11,
1907, made homestead No. 15786, serial
No. 04250, for sej. section 35, township 17
south, range 21 east, Williamette meridian, has filed notice of intention to
make final five year proof to establish
claim to the land above described before L. M. Miller, U. S. commissioner,
at her office, at Paulins, Oregon, on the
5th day of July, 1913.
Claimant names as witnesses: L. W.

5th day of July, 1912.
Claimant names as witnesses: L. W.
Bennett and John O. Morris, of Barnes,
Oregon, and W. A. Carson and H. S.
Morris, of Post, Oregon.
6-5 C. W. Moorr, Register.

## Sheriff's Sale.

By virtue of an execution, decree and order of sale, issued out of the circuit court of the state of Oregon for the county of Crook, and bearing the seal of said court, to me directed and dated the 23rd day of May, 1913, upon a decree of loreclosure of a certain mortgage and of said court, to me directed and dated the 23rd day of May, 1913, upon a decree of torcelosure of a certain mortgage and judgment rendered, and entered in said court on the 5th day of May, 1913 in a case where Samuel H. Davis was plaintiff and Martha J. Hartwig and L. E. Hartwig were defendants; said decree and judgment being in favor of the plaintiff and against the delendants herein named as judgment debtors in the sum of six thousand (\$6,000.00) dollars, with interest thereon at the rate of seven per cent per annum from the 10th day of January, 1911, and three hundred (\$300.00) dollars attorney's fees, and the further sum of \$10.00 dollars costs incident to and account upon the service of the writ of execution, and commanding me to make sale of the real property embraced in said decree of foreclosure and hereinafter described, I will on

Saturday, the 28th Day of June, 1913, at the hour of two o'clock in the after.

Notice is hereby given that Mary S. McMullin of Hampton, Oregon, who on December 18, 1609, made tomestead entry No. 02808, for lots 2 and 3, sel nwi, sel nei, nei sel, el, swi, section 7, will amette meridian, has filed notice of intention to make final three-year toof to establish claim to the land above described, before U. S. Commissioner A. S. Fogg, at Hampton, Oregon, on the 23d day of July, 1913. Claimant natures as witnesses; C. J. Stauffer, T. C. Ewing, James Brickey and Bert M. Meeks, all of Hampton, Oregon.

Saturday, the 28th Day of June, 1913, at the hour of two o'clock in the after.

decree of foreclosure described, I will on Saturday, the 28th Day of June, 1913, at the hour of two o'clock in the afternoon of said day, from the north steps of the county court house at Prineville, Crook county, Oregon, sell at public auction to the highest hidder for cash in hand, all the right, title and interest which the defendants, Martha J. Hartwig and L. E. Hartwig, or either of them had on the 5th day of May, 1913, or any interest that all or either of said defendants may have acquired since that date, or now have, to the following described real property, to-wit:

The southwest quarter of section eight, in township fifteen, south of range eleven, cast of Willamette meridian, in Crook county, Oregon.

Or so much of said property as will crook county, Oregon.

Or so much of said property as will satisfy said decree and judgment with satisfy said s

eleven, east of Willamette meridian, in Crook county, Oregon.

Or so much of said property as will satisfy said decree and judgment with the costs and accruing costs, said sale to be made subject to confirmation and redemption as by law provided.

Dated at Prineville, Oregon, this the 24th day of May, 1913.

FRANK ELKINS,
Sheriff of Crook County, Oregon.
By D. H. PROPLES, Deputy. 5-29-5t

Notice for Fundamental Department of the Interior, U. S. Land Office at the Dalies, Oregon. May 17th, 1913,

May 17th, 1913.

Notice is hereby given that
Rollin O. Hooven.
of Roberts, Oregon, who on August 15th,
1911, made homestead No. 69402, for nly,
inex, swy nex, and nwy sex, section 17.
township 17. south, range 17 east, Willamette Meridian, has filed notice of Intention to make commutation proof, to establish claim to the land above described, before Timothy E.J. Duffy, U. S. Commissioner
at his office, at Prineville, Oregon, on the
23d day of June, 1913.
Claimant names as witnesses: Hans

the city of Prineville, Crook county, Oregon, within six months from the date of the first publication of this

Dated and published first time this 15th day of May, 1913. ANNA ADAMS,
Administratrix of the estate of Wil-liam Adams, deceased. 5-15-6p

Notice for Publication Department of the Interior

U. S. Land Office at Burns, Oregon, May 2, 1913 May 2, 1913.

Notice is hereby given that
Ferdinand M. Smith
whose postoffice address is Paulina,
Oregon, did, on the 10th day of April,

whose postomee address is Paulina, Oregon, did, on the 10th day of April, 1913, file in this office sworn statement and application No. 06673, to purchase the signal swip, section 24 and nei nwip section 25, township 18 south, range 25 east, Willamette Meridian, and the timber thereon, under the provisions of the act of June 3, 1878, and acts amendatory, known as the Timber and atory, known as the "Timber and Stone Law," at such value as might be fixed by appraisement, and that, pur-suant to such application, the land and timber thereon have been appraised, in the aggregate \$350.00; that said applicant will offer final proof in support of his application and sworn statement on

the 30th day of July, 1913, before T. E. J. Duffy, U. S. Commissioner, at his office at Prineville, Oregon.

Any person is at liberty to protest this purchase before entry, or initiate a contest at any time before patent issues by filing a corroborated affidavit in this office alleging for a bid by the statement of the superior of t

WHY NOT? let your corns come off LIKE **MAGIC** 

At your druggist's Notice for Publication (Not Coal Land) Department of the Interior) U. S. Land Office at Lakeview, Ore.

U. S. Land Office at Lakeview, Ore.

June 3, 1913.

Notice is hereby given that

Horace Brookings
of Hampton, Oregon, who, on December 4, 1909, made homestead entry No. 02502 for swi swi, section 8, si sei, section 18, township 22, south, range 21, east, Willamette Meridian, has filed notice of intention to make final three-year proof, to establish claim to the land above described, before U. S. Commissioner A. S. Fogg. at Hampton, Oregon, on the 23d day of July, 1913.

Claimant names as witnesses: C.

Claimant names as witnesses: C. F. Stamer, T. C. Ewing, James Brickey and Bert M. Meeks, all of Hampton, Oregon. 6.12 A. W. Orron, Register.

Notice for Publication.

### Sheriff's Sale of Real Estate Under Execution in Foreclosure.

In the circuit court of the state of Ore-gon for the county of Crook. J. M. Conklin, Plaintiff,

James McElroy, Defendant.

By virtue of an execution issued out

James McEiroy, Defendant.

By virtue of an execution issued out of the above entitled court on the 23rd day of Roberts, Oregon, who on August 15th 1911, made homestead No. 08402 for not township 17, south, range 17 east, William to the land above described, be fore Timothy E.J. Duffy, U.S.Commissioner at his office, at Prineville, Oregon, on the 23d day of June, 1913.

Claimant names as witnesses: Hans Jacobsen, Joseph E. Roberts, Granville H. Nye, of Roberts, Oregon, and Don H. Peoples, all of Prineville, Ore, C.W. Moons, S.22

Register.

Notice is hereby given that the undersigned has been, by the County Court of the state of Oregon, for Crook county, duly appointed administratrix of the estate of William Adams, deceased, and all persons having claims against said estate are hereby required to present the same, duly verfieed, to said administratrix, at the law office of M. E. Brink, in the city of Prineville, Crook county, Oregon, within six months from the

at the north front door of the court house, in Prineville, Oregon, at the hour of two o'clock in the afternoon of said day, sell all the right, title and interest the said defendant, James Mc-Elroy, had in and to the above described real property, to the highest bidder, to satisfy said judgment. interest, costs, and accruing costs, subject to redemp-5-15-6p tion according to law. First publication May 29, 1913.

FRANK ELKINS, Sheriff of Crook County, Oregon. By D. H. PEOPLES, Deputy. Notice for Publication

Notice for Publication
Department of the Interior.
Land Office at The Dalles, Oregon.
May 17th, 1913.
Notice is hereby given that
Charles A. Stevenson.
of Heid, Oregon, who on June 20, 1907, and
May 8, 1911, made homestead No. 15506.
serial Nos. 04141 and 08899, for why swh,
200. 25, ch/s sel/s, sec. 20, and sel/s nww.
swh/s neh/s el/s neh/s, section 35, township
19, south, range 19 east. Williametre Meridian, has filed notice of intention to
make final live-year proof, to establish
claim to the land above described, before
the county clerk, at his office, at Prineville,
Oregon, on the 28th day of June, 1913.
Claimant names as witnesses: Charles
Parrish, of Held, Oregon, Harry Barnes,
Fisher C. Logan and Otis Logan, all of
Barnes, Oregon.

6. W. Moore.
5-22p
Register.

Strayed A chestnut sorrel mare branded Sp on left hip. Leave word with Journal or Jas. Forrester. 6-5

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