BREEDING UP A HERD OF DAIRY CATTLE

The milk yield of a cow depends chiefly on her inherent capacity. The milk yielding capacity of a herd can be largely increased by careful selection and breeding, writes W. H. Underwood in the Country Gentleman, herds where a large milk yield is destred special attention must be paid to breeding only beifers that come from the best cows. The heifers from poor



The young cow pictured here pos-sesses the form and quality so con-spicuously characteristic of well bred Guernseys. This breed is found in large numbers in some of the best dairy territory, both west and east. The Guernsey is consid-ered one of the loading dairy breeds.

milkers and badly formed cows should no account be retained, as they inherit the qualities of their dams.

Breeding from good milkers whose parentage is known will invariably produce calves that later on will give a large milk yield. Breeding from autmals whose parentage is unknown and which are crossbred must, at the best, be only guesswork-uncertain and unsatisfactory in its results. We may possess cows that are heavy milkers, yet their calves may not possess the same desirable qualities. As a rule, however, good milking cows produce equally good milking helfers, provided they have been bred from a suitable bull. This is due to the fact that deep milkers generally come from good milking families, and their milk yielding is an inherited quality and not accidental.

Eurnest attention should be paid to the class of sire used in the dairy herd. If possible he should be pure bred and a descendant from a deep milking strain. This point is of great impotance, but is often entirely neglected. Many pay little attention to this matter and use any kind of animal. It is a mistake, however, to suppose that every pure bred bull is a good dairy animal. Every bull that heads the herd should be there because he is known to be from the best strains available. The sire influences the milking qualities of all the helfers in the herd. Unless, therefore, the breeding of the built is attended to little and uncertain progress can be made in the improvement of the milking capacities of the beifers. Only if both parents are descended from great milking strains can it be expected that the progeny will be good dairy cattle.

Several causes may produce streaky butter, and one of the main ones is the uneven distribution of salt; second, the failure to remove the buttermilk. The ing or getting rid of the streaks in butter is to thoroughly remove the buttermilk and to have the salt thoroughly dissolved and properly distributed. It has been demonstrated by Drs. Van Slyke and Hart that if the proteid-that is, the buttermilkis removed from the butter it is impossible to produce mottles, no matter how unevenly the salt is distributed. But if care is taken to thoroughly distribute the salt and buttermilk the mottles will disappear. We may mention, however, that sometimes small particles of curd get mixed with the butter and do not take up the butter color and so give it quite a mottled appearance. Straining the cream through a asonably fine strainer will overcome this difficulty.

Take Pride In Your Stock.

The proportion of live stock really well grown is not large. This is not so much because of the lack of food as of the lack of those nice little attentions so necessary to the proper utiliza-tion of food, such as feeding it in a palatable condition and at regular times. The average owner does not take the interest that he ought to. When he takes a pride in his stock he is sure to give it close attention, and with close attention comes success Such a taste can be cultivated in the same way as any other taste or liking.

**** SHEEP SHEARINGS.

A flock of sheep fed on roots shows a development that other methods of feeding lack. Enslinge may be fed to sheep,

but roots are better and safer. For winter feeding clover and nifalfa hay, oats, wheat bran, itnseed meal and roots should Insure success. With this feeding material an ample supply of milk at lambing time is insured.

Good clear straw makes the best bedding for sheep. Steer clear of anything that fills the wool full of seeds, bits of sticks or any such thing,

The best way to be sure of ? healthy sheep is to give them good feed and the best care *******

Land for Sale.

640 acres of good farming land in the tamous Powell Butte country. Inquire of F. A. Rice, county surveyor, Prine-ville, Oregon. 46

All Work Guaranteed.

I have just returned from my trip to the country and am ready to take care of your eyes in the same care-ful manner as in the past. All work fully guaranteed or money refunded. Eyes tested; glasses fitted.

FATTENING HORSES.

All Corn Ration Not So Efficacious as

An experiment in fattening horses arried on by the Hilmots experiment tatten disproved popular ideas in this matter. Twenty four head of horses, 1911, and to me directed the said isth day. matter. Twenty-four head of horses, enzying from four to eight years of ge, were used. These were divided nto lots of six horses each and simlarly fed. The feeding period extendd over 112 days, the object being to ecure evidence upon the result of mixng oats and bran with corn as compared with an all corn ration. Clover any was the roughage given to all in his experiment.

The general results of these experients show that a mixed grain ration of corn and oats fed with clover hay produces better gains than a single orn ration. The increased gains with such feeding are more than enough to fiset the increased price of this ration over corn sione. Many feeders have ilways insisted upon using timothy hay when fleshing their horses. Contrary to this accepted idea, the best results by 58 per cent were obtained from clover hay fed with corn and onts. If, however, it is desired to feed timothy its efficiency may be materially increased by adding a small amount of oliment to the corn and oats ration. The ration of one-fourth oats or of one-fifth bran mixed with the corn proved more economical than an all corn ration. It was found easily possible to feed too much bran in conection with clover hay.

The largest gains were made by the lot receiving the largest amount of digestible protein, while the next to the smallest gains were made by the lot which received the largest amount of digestible carbohydrates. This result is also considerably at variance with popular ideas of feeding. The result of exercising the animal was also somewhat surprising. Those which were given a daily walk of 2.8 miles per day made 24 per cent less gain than those which were given no exer-

Aside from the greater safety of box stalls, there was no appreciable advantage over the ordinary single stall. On the contrary, the horses fed in box stalls gained 8 per cent less than those in single stalls. The kind of horses it will pay to feed depends upon the season of the year when they are to be marketed. In general heavy horses pay better than light ones and good, sound animals of the approved type better than those of lower grade,

FOOT OF THE HORSE.

Treatment of the Hoof

Avoid Injuring It. When the feet are gone there is no horse left is an old adage the truth of which is incontrovertible. Yet no part of the horse's anatomy is worse used than the feet, and there are no

used than the feet, and there are no more frequent diseases to which the notice of the veterinary surgeon is brought than those of the feet. This comes of the unwise yet obstinately maintained fashion of rasping, cutting, burning, tarring and greasing the hoofs.

When tar is applied to the boof the acid acts chemically upon the horn and hardens or disintegrates it, and the oil, evaporating, leaves a space between the fibers filled with the hardened residue. As with tar, so with grease. Both these substances drive out the water from the horn and occupy its place, in time hardening and cupy its place, in time hardening and acidifying the substance of the hoof T. E. J. Duffy crust, rendering it brittle and contract-

ing it. The substance of the frog is born. but it is of a softer and more open texture than the sole and crust of the hoof. It is therefore more easily affected by injurious conditions, and when it becomes deprived of its water it shrinks more than the more solid horn. When a shoe is to be fitted the edge should be prepared by cutting or rasping and not by burning. Indeed, the shoe should be fitted to the feet and not the feet to the shoe.

When from bad management the sole and frog become dry and contracted no grease or tar should be used, but water should be used freely, and then the hoof should be dressed with glycerin, which will mix with water and does not displace it. erin contains no acid or acrid prop-erties, but is soft, bland, emollient and does not evaporate. It therefore softens the horn and allows the fibers to expand. Contraction is thus prevented or overcome when it has actually occurred.

Bacteria In Milk.

The milk that loppers without souring and seemingly without cause soon after leaving the cow is doubtless infested with some form of bacteria. Let the milk pail and all utensils that come in contact with the milk be scalded with additional care and set in the sun each day where they will be well heated; also for a week or two let the milk be heated to 145 degrees at once after leaving the cow and chilled as soon thereafter as pos

Feed Sheep From Racks. The day of feeding stock of any kind, and especially sheep, on the ground has gone by. It is a most wasteful way. Sheep will drag more hay out on the ground and spoil it for their own enting or that of any other animal than any other farm animal. Racks are cheaper than hay.

Corn Fodder For Dairy Cows. The feeding of late corn fodder to dairy cows should be continued just as long as the corn is at all green. It is a splendid supplementary feed with the short autumn pasture grass.

Notice for Publication.-Isolated tract

Department of the Interior,

Not coal land

U.S. Land Office at The Dalles, Oregon,
May 12, 1911.

Notice is hereby given that, as directed by
the Commissioner of the General Land Office,
their provisions of Act of Congress approved
into 27, 1906, (34 Stats, 517), we will offer at
public sale, to the highest bidder, as 10-15
velocks, m., on the 7th day of July, 1911, at
this office, the following-described land: SW,
SW, See 17, T. 12 S., R. 16 E. W. M., serial No.
6695. This land will not be soint for less than
8.00 per acre.

Sheriff's Sale.

tion in forcelesure F. A. Powell and R. M. Powell, Plaintiffs.)

County of Crook, on the ISM day of and to me directed the said ISM at a 1911, upon a ludgment and decree le and rendered on the 18th day of M and entered, recorded and decked by said court on the 16th day of M in a certain suit in said court, which is a certain suit in said court, which were plain to the 18th day of M in a certain suit in said court, which were plaintiff and against the defendant in the plaintiff and against the defendant ele execution I am commanded to real property hereinafter described the sum due the plaintiffs, of the sum due the plaintiffs, of all property hereinafter described the sum due to plaintiffs, of the sum due that of March. IS con from the little day of March. IS con from the little day of March. IS con from the sum of one hundred eight

ate of ten per cont per annun until pe or the sun of one hundred eight a attorney's fees and the cests and s of this execution and sale; I will I wenty Third day of June, 1911. Sald day being Friday of said day, at those of the county court force in Private the county court force in Private I was a support of the county court force in Private I was a support of the county court force in Private I was a support of the county court force in Private I was a support of the county court force in Private I was a support of the county court force in Private I was a support of the county court force in Private I was a support of the county court force in Private I was a support of the county county force in Private I was a support of the county county force in Private I was a support of the county county force in Private I was a support of the county county force in Private I was a support of the county county force in Private I was a support of the county county force in Private I was a support of the county county force in Private I was a support of the county county for the county county for the county county force in Private I was a support of the county county force in Private I was a support of the county county force in Private I was a support of the county county force in Private I was a support of the county of the county county force in Private I was a support of the county of auction to the highest bifider, for each in band, on day of sake, all the right, title and netrost in said property which defendant, lettle A Miller, and all persons claiming inder her, subsequent to the 25th day of Sep-ember, 198, in and to the suid mortgaged call preparty hereinafter mentioned and heavithed in said execution as follows, to will lost five, six, seems and sight, in block 2, in the second addition to the Univ of Princeville, rook county. State of Oregon. And if the presents of said safe be insufficient be plaintiffs to have judgment and execu-ion against the defendant, Lettle A. Stiller,

ided by law, this 18th day of May, 1911, T. N. Ballroun, Sheriff of Crook County, Oregon

Seed Potatoes.

Early Rose and Burbank Seed Pota-oes for sale. Horigan & Reinke. 3-30

Three or four furnished rooms for light housekeeping or will take fur-nished house. 'Phone Pioneer Abstract lompany.

Horses for Sale.

On the old C. Sam Smith ranch, near Prineville. 125 head of mares and geldings, large enough for work horses, will be sold in any number at reasonable prices. For further information address G. H. Rassell.

Notice of the Sale of Real Estate

Notice of the Sale of Real Estate

Notice is hereby given that in pursuance of an order of the county court of the County of Crook and State of Oregon, made on the 3rd day of April, A. D., 1911, in the matter of the estate of Libbie Turner, deceased, the undersigned administrator of said estate, will seil at private sale, subject to the confirmaby the said County Court, from and after the 22d day of June, 1911, all the right, title and interest and estate of said Libbie Turner, at the time of her death, and all of the right, title and interest the said estate may have acquired other than or in addition to that of the said Libbie Turner at the time of her death in all that certain parcel of real estate situated tain parcel of real estate situated in the County of Crook and State of Oregon, more particularly described as follows:

of Libble Turner

Attorney for Administrator. June 22

Notice to Creditors,

Notice is hereby given by the undersigned, administrator of the estate of George M. und deceased, to all creditors of and to all ters having elaims against said decree M. und, deceased, to present them with the apper vouchers, to the undersigned at his cle in Prinsville, Oragon, within six months m the first publication of this motion. rom the first publication of this notice.

Bated this Tith day of April, 1911.

M. R. Ellitort,
Administrator of the estate o
George M. Paul, deceased.

Notice for Publication.-Isolated Tract (Public Land Sale.)

Department of the Interior. U. S. Land Office at The Dalles, Oregon.

May 8th 1911.

Notice is hereby given that, as directed by the Commissioner of the General Lant Office. Notice is hereby given that, as directed by the Commissioner of the General Land Office, under provisions of Act of Congress approved June 27, 1903 (34 Stata, 517, Jwe will offer at public sale, to the highest bidder, at 1015 o'clock a, m., on the 27th day of June, 1911, at this office, the following-described land: SEL NW3, and NE2, SW4, Sec. 21, 71 St., R, 17 E., W. M., No, 9821.

Any persons calculing adversity the above-described land are advised to file their claims, or objections, on or before the designated for sale.

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

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Trains leave Opal City 8:30 a. m., Culver 8:50 a. m., Metolius 9:10 a. m., Madras 9:30 a. m., arrive Portland 7:45 p. m. Leave Portland 9:55 a. m., arrive Madras 7:50 p. m., Metolius 8:05 p. m., Culver 8:23 p. m., Opal City 8:50 p. m. Direct stage

R. BUDD, Chief Engineer, Portland, Oregon.

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R. E. MICHAEL,

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T, A. GRAHAM, Agent, Metolius, Ore.

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The famous Hay Creek Ranch consisting of nearly 20,000 acres, formerly owned by The Baldwin Sheep and Land Co. is now for the first time offered for sale in tracts ranging from forty acres up. Prices are most reasonable and terms easy. For full information apply to

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Agent Madras, Oregon

Or Base Line Land Company

272 Stark Street, Portland, Ore.

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