

Better Sires Campaign Will in Time Improve All Breeds of Livestock

PURE BRED Sires VITAL NEED FOR STOCK PRODUCER

Improper Breeding Is Bound to Leave Its Imprint on After Generations, It Is Pointed Out.

By R. C. Stewart

Why better sires? The blood of an animal is half that of the dam and half that of the sire. A sire may get from 100 to 300 young in one year. The dam may get from one to twenty. The greater importance of having better sires is easily seen since his direct influence is so quickly spread. It does not hurt the flock or herd much to have one scrub female providing you keep the progeny of the others, but when you use a scrub sire, in the next generation, you have no other than half scrubs to choose from.

BREEDING RESULTS SHOWN

Beginning with a scrub female foundation and using pure bred sires of good quality the first generation is 50 per cent the blood of the pure sire. The second generation 75 per cent, the third generation 87 1/2 per cent, the fourth 93 1/2 per cent and the fifth 96 1/2 per cent the blood of the pure sire. When pure bred sires have been used to the fifth generation the outcropping of scrub blood becomes rare, but will still show up occasionally. High grades of this kind do very well to save female stock for the breeding of market purpose animals, because the greatest per cent will be true to type and consistent producers. The few that fail may be discarded at only a slight loss. But in the case of sires care must be taken.

POOR QUALITIES INHERITED

The main reason for not using high bred grade sires is that the particular one picked out while likely true to type may be a throwback in production and the worst part of it is he has inherited all of the poor qualities and none of the best of the old scrub.

Pure bred animals have been kept true to type and selected for production for many generations. While once in a while an animal will come off type or production, they will in most cases breed true.

In most pure bred breeds only about one out of 1000 will be throwbacks, while in high grades the per cent sometimes runs as high as one in 10.

The question is, can the ordinary breeder take a chance on getting a sire that is a throwback to his scrub ancestors?

Speaking of pure breeds, to have a pure bred sire should not be the only aim of a breeder. The greater prepotency of the pure bred makes it even more vital that high-producing, true to type sires be used.

CAREFUL BREEDING NEEDED

Thousands of pure bred scrubs are scattered throughout the country. This will, through production, selection and careful breeding for type in time be eliminated. Where there is one pure bred scrub there are 100 grade scrubs.

The campaign for better sires is awakening many breeders of all kinds, not only of cattle, but poultry, and one man even has listed his pure bred silver foxes.

The use of pure bred sires leads automatically to the ownership of well bred females.

Breeders of all classes of livestock should dispose of scrub grade and inferior pure bred sires, using only the best that are backed by generations of type and production records.

Livestock Questions Answered
By Dr. M. J. Howes, Veterinarian.

Question—I recently sold a cow to a man in California. I had every reason to believe she was pregnant. He now wishes to return this cow. He claims she is not with calf. What can I do in a case like this?

Answer—In all probabilities, the best thing to do, is to take the animal back and say nothing and allow the animal to be sold at a very high price. It would not pay to have any legal proceedings taken. These cases such as you describe are of frequent occurrence. In the East many animals are sold as pregnant. According to an examination by a veterinarian, it is now possible by means of a rectal examination to determine pregnancy at about 60 days. If the animal sold as pregnant at the time of sale, and this condition certified to by one or more veterinarians, the buyer and the seller then could have a common ground to determine whether or not the seller wished to guarantee a live calf or not. The owner of a cow has performed his part when the cow is safely pregnant, and he takes a great deal of risk, when he guarantees the continuation of this condition after the cow passes out of his hands. Caution if this animal is returned to you. There is danger to your herd, if the herd in which the animal has been is infected with any contagious disease, especially abortion or sterility.

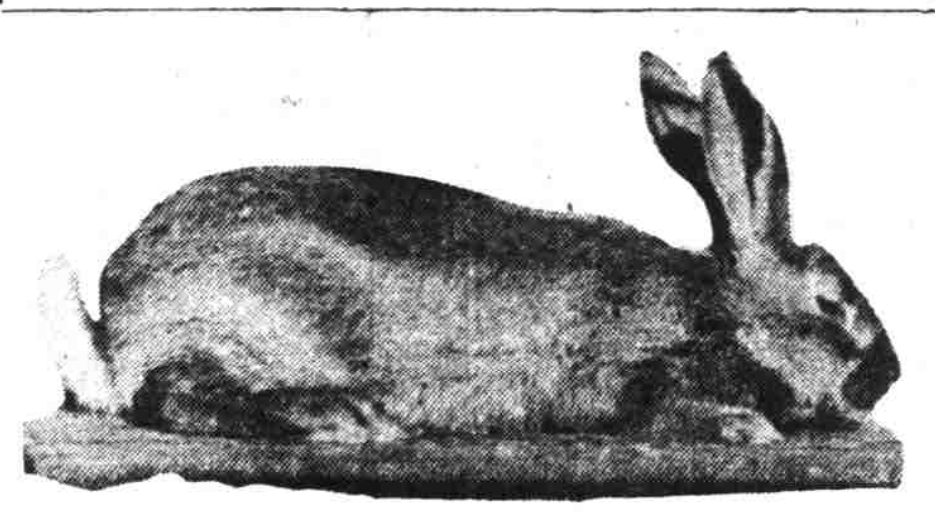
No. 2.
Question—Can gonorrhea in a dog be cured, if so, how?

Answer—Yes. Paint swelling with tincture of iodine, and give two grains of thyroid extract, once a day internally. If this does not result in a cure have a veterinarian operate and remove the gland.

No. 3.
Question—My horse has what people call a spavin, what would you advise me to do for the horse?

Answer—Blisters, the enlargement and give animal three weeks rest. If this does not result in a cure of the lameness have the enlargement point fired.

FINE YOUNG NEW ZEALAND DOE



Six and one fourth pounds at 13 weeks. Owned by Yearsley Rabbitry, Oak Grove, Or.

Baker Farm Loan Association Makes Substantial Gain

Baker.—Business done by the Baker National Farm Loan Association last year was 20 per cent greater than in 1918, according to the report of James H. Graham, secretary-treasurer of the local association. The membership is now 125; loans have been made to the extent of \$378,900; the paid up capital stock is \$18,942 and the aggregate of reserve, undivided profit and general funds is \$1600. The total of receipts from dividends were \$11,219 last year, and the total of all receipts \$411,551, with \$341,122 in expenditures. Pending loans aggregate \$127,500. Applications for \$291,500 in loans were refused.

The stockholders elected Arthur Oliver of Keating president, S. M. Masters of Sunnyside, vice president, and Mr. Graham, secretary-treasurer. The directors are: Arthur Oliver, J. L. Yantis of Sumpter, Eli Hawkins of Pleasant Valley, C. C. Butts of Baker, John W. King of Missouri Flat, Charles Doby of Keating, and Masters, Oliver and Yantis constitute the loan committee, and Butts, King and Doby the alternate loan committee.

Dairy Experts Are Helping at Gresham

Oregon Agricultural college, Feb. 14.—Professors E. B. Pitts and E. S. West, heads of the dairy department, are at Gresham this week assisting in the Multnomah county Farmers' week being held there. More calls for extension work in dairying are being received than can be taken care of.

R. G. Fowler, a graduate in dairying in 1914, who has been manager of the Pothills farm at Carlton, owned and established by W. B. Ayer, will take charge of the Oaks Springs farm at New Castle, Pa. soon.

A. A. King, a graduate in dairying, has made up of three farms with milking Shorthorns and Holsteins on one of them, beef cattle on another, and feed stock on the third.

Paul Mehl, agent in marketing, went to Eugene Monday to investigate the system of bookkeeping being used at the cooperative warehouse. Plans are under way to install bookkeeping systems in several other warehouses and it was thought best to investigate this one before putting it to use in other places.

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Coos Has Surveys For Two Proposed Drainage Districts

Oregon Agricultural College, Corvallis, Feb. 14.—W. L. Powers, professor in the soils department, has just returned from a week of extension schools in Coos county. Powers reports the schools are well attended. The main features of the week were preliminary surveys of two proposed drainage districts.

The major project is to include 3000 acres of wet and marsh lands adjacent to the mouth of Coos river and a long catching inlet. This will require a levee and lock with tide gates. The levee may also be used as a highway. The land to be improved is some of the most fertile in the Coos bay section.

A preliminary survey was also made of a possible waterway connecting Coos bay with the Coquille river by cutting from Isthmus slough into Beaver slough. It is estimated that 200,000 yards of excavation would be required to provide a sea level canal. This would connect the shipping from the two sections and reclaim much fertile bottom land along the sloughs.

Steps are also being taken toward the organization of a small drainage district at Lakeside, in the northern part of Coos county.

Requests have been received by the soils department for assistance in shaping up several drainage districts on the lower Columbia coast region and the Klamath basin.

Cost of drainage has not advanced as much as prices of farm products and the land owners are coming to realize that it is cost money to hold wet land undeveloped.

A movement is on foot to organize this district in such a way that the water right payments may be made individually as taxes to the county and in turn paid over to the government in a lump sum.

It is anticipated that such an arrangement will result in federal farm loan banks loaning money on the project. Drainage problems also may be successfully handled, and delinquent water users compelled to make application for water as it is available, paying for water rights whether the land is used or not. This will have the effect of improving more land or cause its sale to those who will develop it.

Gray Digger Gets Busy

Eugene, Feb. 14.—Spring has come in this part of the valley and with it the unwelcome graydigger. And with the graydigger, farmers are sending in appeals to the county agriculturalist for something that will dispose of the visitor. Strychnine and soda, with a proper sugar coating, is being distributed, with the government's instructions as to how to coax the graydigger to eat.

Part of the bulls are given all the grain they will eat, part one half ration and some are fed only hay and ensilage.

The department makes a specialty of giving the animal husbandry practice in feeding and handling livestock.

O. A. C. Has New Poultry Expert

Oregon Agricultural College, Corvallis, Feb. 14.—F. L. Knowlton has been engaged as research assistant in poultry husbandry. Mr. Knowlton comes here with the highest recommendations. He comes from Laurel, Md., and is a graduate of Cornell university. His immediate work is to assist in research tabulation of breeding and incubation records for publication.

Abortion—Sterility in CATTLE

CONSULTATION FREE
DR. M. HOWES, VETERINARIAN
Phone: Taber 8566
1871 EAST STARK ST., PORTLAND, ORE.

Yearsley Rabbitry
New Zealand's Exclusively Breeding Stock for Sale
Oak Grove, Oregon
PHONE OAK GROVE 1292.

GREEN MEADOW FARM offers a young bull that is 50% and based on Gold Medal animals and is a close up.
For information regarding this splendid individual, write to
HENRY STEWART, ALBANY, OREGON.

SEEDS "THE KIND THAT GROW!" "YOU CAN'T KEEP THEM IN THE GROUND."

FULL LINE OF SPRAY PUMPS AND MATERIALS, POULTRY SUPPLIES, FRUIT TREES AND FERTILIZERS.
Send for Catalog—"It is full of information"

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FARMERS' SCHOOL HELD AT GRESHAM BROUGHT TO SUCCESSFUL CLOSE

Lectures on Dairying, Drainage, Soils, Horticultural and Women's Work Feature Session.

The Multnomah county farmers' week held at Gresham has been very successful. The regular program including many valuable lectures on dairying, drainage, soils, horticultural and women's work, has had an average attendance of over 100 and Saturday the attendance was much larger.

The school was conducted by the county agriculturalist S. B. Hall and the extension department of the Oregon Agricultural college. The subject of greatest interest to residents of this county have been quite fully dealt with in lectures and conferences.

The stockholders elected Arthur Oliver of Keating president, S. M. Masters of Sunnyside, vice president, and Mr. Graham, secretary-treasurer. The directors are: Arthur Oliver, J. L. Yantis of Sumpter, Eli Hawkins of Pleasant Valley, C. C. Butts of Baker, John W. King of Missouri Flat, Charles Doby of Keating, and Masters, Oliver and Yantis constitute the loan committee, and Butts, King and Doby the alternate loan committee.

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Boardman, Idaho, Is After Water Rights

Boardman, Idaho, Feb. 14.—The directors of the Irrigation district and majority of the water users of the West extension recently met to discuss the proposed contract between the district and the government which comes up for vote February 24.

The West extension covers 11,300 irrigable acres.

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improvements in the soil, in management and general improvements.

Next year, no doubt, the various counties will get busy earlier and each one will have a full week's schedule.

POULTRY NOTES

Oats, in some form or other, are wonderfully fine for the young, growing stock, but the hulls should be avoided. Don't forget the pin-head oatmeal for the youngsters, and fine ground bone. Top often are these ingredients missing. Their absence is the cause, very often, of weakness in the legs of chicks, and lack of proper development.

How is this for a hen egg? Weight, 7 1/2 ounces; largest circumference, 9 1/2 inches; smallest circumference, 6 1/2 inches. This large egg was produced by a Plymouth Rock hen owned by Mrs. G. L. Marx, Albany, Or.

Eggs from the Pacific coast in large amounts were first shipped across the continent to the New York city market two years ago. Now they are bringing a premium of from 1 to 2 cents, according to market quotations.

That this is due to the strict grading practice by the shippers of the west is the belief of men in the bureau of markets, United States department of agriculture. The reputation for careful grading which the Westerners have attained in other products shipped East has spread to include eggs.

At this date, and for three or more months to come, thousands of baby chicks will be sold to waiting customers. Hundreds of orders have been booked, awaiting delivery as late as in April and May. Prospective purchasers of day-old chicks should be very sure that the little birds come from eggs laid by hens that are known to be good layers and of good blood. There are some hatcheries that use eggs laid on their premises and that are from well bred fowls.

Horses to Be Advertised

The Horse Association of America, with headquarters at Chicago, is planning a national advertising campaign. The purpose of this campaign is to bring before the public the advantage of using horses in many cases, and in general to promote the interests of horse breeders.

The old idea that the farmer is uneducated is untrue, but the better working knowledge he can have, the better living he can make, and the better living conditions he can have about him are being shown, now. Agricultural schools in point out many economies, better and newer methods and show how to make

DIAMOND QUALITY SEEDS

For 1920 Plant Only The Best—

The increased cost of farming makes necessary the careful selection of seeds—improved varieties that produce profitable crops.

A Safe Guide to Quality and Fair Price

Our Seed Catalog and Planter's Guide is the standard reference for growers of the Northwest, listing our complete lines of Seeds, Trees and Plants, Fertilizers, Poultry and Bee Supplies, Sprays and Sprayers, Dairy Supplies and Equipment.

This handsome book is more than a Catalog It's a true Guide to Profitable Planting

Your Name should be on our Mailing List
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Office and Salesroom
S. E. Cor.
Front and Yamhill
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East First
Alder and
Second
Sts.

Big Money in Stump Land

This man made \$35 Land Worth \$200 an acre Pulling Big stumps by hand

Clear your stump land cheaply—no digging, no expense for teams or powder. Your own right arm on the lever of the "K" Stump Puller can rip out any stump that can be pulled with the best inch steel cable. I guarantee it. I refer you to U. S. Government officials. I give highest banking references.

MAND POWER K Stump Puller

One man with a "K" can output 16 horses. Works by leverage—same principle as a jack. 100 lbs. pull on the lever gives a 48-ton pull on the stump.

Made of best steel—guaranteed against breakage. Has two speeds—60 ft. per minute for hauling in cable or for small stumps—slow speed for heavy pulls. Works equally well on hillsides or marshes where horses cannot go.

Write me today for special offer and free booklet on Land Clearing.

The Fitzpatrick Products Corp.
Box 42
99 John St., New York

Box 82
182 Fifth Street
San Francisco, Calif.

Weight, without cable, 171 pounds

No Stump Too Big For The K

HARD SWEET CLOVER SEED FAILS TO BRING GERMINATION RESULTS

Test Shows Six Plants Would Grow Where 100 Plants Should Be Raised.

Oregon Agricultural College, Corvallis, Feb. 14.—Sweet clover seed, with a germination test of 6.5 per cent because of hard seed, has just been found by the seed laboratory here, the sample coming from H. A. Ward of the First National Bank of Bend. The importance of testing seed before planting time has probably become apparent to Ward, since he would have had six plants where 100 should have been had he not submitted his sample for testing.

Scarifying hard clover or alfalfa seed commercially has not been found generally possible as yet, there being no machines capable of doing satisfactory work on a large scale, and the only

remedy for loss of crops due to hard seed is to find out that the seed is hard and plant some other seed. Free testing for all the farmers of Oregon, Washington, Idaho and Montana has been provided at the seed laboratory maintained at the college. Germination any samples which are sent in, care being taken in sampling to get seed which are representative of the entire supply.

From 10 days to two weeks is required for these tests and it is important that this be done now in order to have it out of the way before planting time. A little effort in time often saves the loss of an entire stand, as the sweet clover seed of Mr. Ward shows, and this week is none too early to get the test started, in the opinion of college crop authorities. The samples may be mailed to the Seed Laboratory, Oregon Agricultural College, Corvallis, Oregon.

Tractor Courses at O. A. C. Are Crowded

Oregon Agricultural College, Corvallis, Feb. 14.—Owing to crowded conditions and the large number of farmers desiring to enter tractor school courses, it is urged that reservations be made in advance. Anyone not arriving by the opening days, February 2 and March 1,

Winter Prices—Spring Delivery

The wise buyer is making his selection now of a good used car, not only taking advantage of low winter prices, but getting the pick of the stock.

We have sold thousands of used cars to satisfied customers.

The Obeye policy of a square deal is known throughout the entire Northwest.

Make our store your headquarters while attending the Auto and Truck Show
Used Cars—All Makes—Easy Terms

Lewis E. Obeye Motors Co.
Broadway at Couch Portland, Oregon

FREE TRIAL—OREGON SEEDS

We are convinced that our Oregon grown, acclimated seeds are superior and know YOU WILL BE CONVINCED when you try them. LET THE SEEDS TALK

We offer the following 7 regular sized packets (worth 55c) free, except we ask you to send 10c in wrapped coin or stamps to cover cost of labor, envelopes, mailing (mention The Journal):

OREGON GROWN SEEDS

1 pkt. Cabbage, Gill's Oregon Ballhead..... 15c
1 pkt. Jersey Kale (Stock Feed)..... 10c
1 pkt. Squash, Delicious..... 10c
1 pkt. Onion, Yellow Globe Danvers..... 5c
1 pkt. Lettuce, Iceberg..... 5c
1 pkt. Spinach, Victoria..... 5c
1 pkt. Ruta, Baga, Improved Purple Top Yellow..... 5c

We will also mail you our 50-page catalogue describing our OREGON GROWN SEEDS, DAHLIAS, ROSES, PERENNIALS and NURSERY STOCK. This offer good only once to each family. Mention this paper.

GILL BROS. SEED CO. Portland, Or. Route 1.

Perfection Milk

It milks with less vacuum, which means safety for the cow. It squeezes the cow's teat from the udder downward, as the calf sucks, or man milks by hand. The Suction and Squeeze can be regulated at will by the operator.

The Vacuum Pump runs in oil and at a very low speed, 120 to 180 revolutions per minute. No other milker has these very essential features.

The Pulsator is very simple and gives the user no trouble. You should compare the quality of rubber with others—it's the best material for milking.

Examine our Aluminum Pull-it stands for quality. The Perfection will milk your cows, and do it right, with no bad