

# Records of Dairy Cow Mean More When Backed By Family of Producers

## FIRST CROSS MAY PAID BETTER BUT PUREBREDS NEEDED

Why is the purebred dairy cow becoming such a dominant factor in the dairy industry?

There are many cases on record wherein the first cross between two breeds has been an exceptionally high producer at the farm. Many say this cross between purebreds is better than any of its purebred ancestors.

It is true that the first cross is in many cases a very good animal, but to get this first cross we must have purebred animals, otherwise the cross would be between two mixed strains and the results uncertain. There must be found lines to draw from.

**WILL GET THREE TYPES**

Purebreds have been developed through a long period of line breeding and careful selection of the undesirable characteristics as they were bred. The result is used by most of the successful breeders of all kinds of stock. Where line breeding is used a very large percentage of the offspring will be of the same type as the parents and in the dairy animals are consistently high producers.

Where outcrossing with a different strain, but in the same breed, is used, some of the progeny will show the physical characteristics of the strain of the other strain and some will show characteristics of both, thus getting three or more types in the first generation from the crossing of the two strains.

Then the question arises, and it is a big question: What shall the next sire be? If he is of either of the two strains formerly used, the offspring will show three or more distinct types, while if a still different strain is used, the different types will again be multiplied.

**SOME WILL PREDOMINATE**

The several types will not always develop in the first generation, due to the fact that some animals are so strong in their ability to transmit their characteristics that almost all of their progeny will closely resemble them.

If the promiscuous crossing of the different strains of the same breed is kept up the bred develops into a conglomerate mixture of types.

Not only is the type affected by the systems used in breeding, but the production qualities as well, and in a like manner develop several extremes, through strain crossing, or one class of consistent high producers through line breeding.

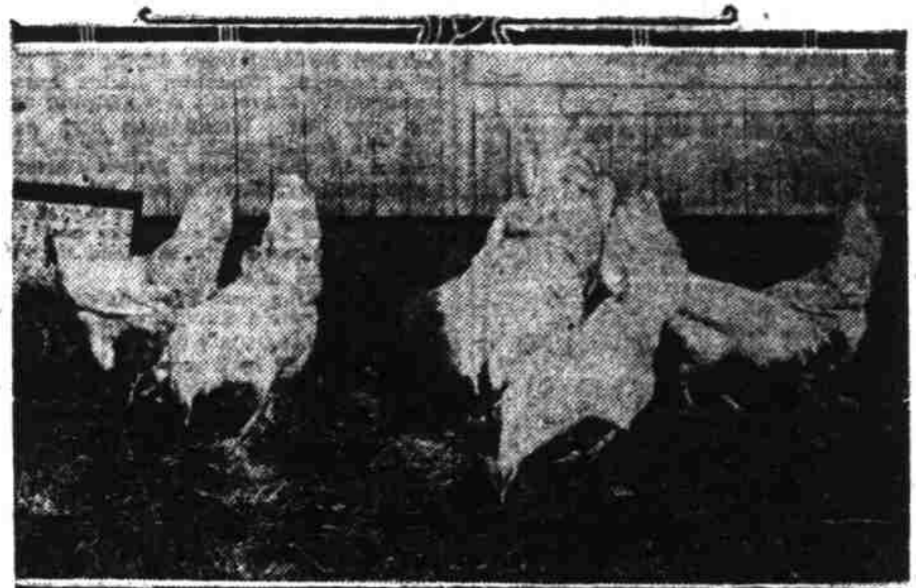
**MUST HAVE PUREBREDS**

Now to go back to direct outcrossing (where two breeds are crossed). The several characteristics of each breed will show up to a certain extent, except in some cases where the prepotency of one animal will mark much of its offspring.

There will be at least three types developed in the first generation. By the time the fourth generation is reached no matter what breed of sire has been used on the second and third, the herd will consist of a mongrel lot with here and there a fair type animal, and then an animal with no type that will be a pair producer.

Yes, the first cross is very often better than either of the original breeds, but how are you going to get the first cross unless you have the purebreds?

## FOR THE BACKYARD FLOCK



Sprouted oats furnish a good green ration in winter time or when the flock is not on free range. Many find young barley a good range feed.

There will always be a good demand for purebreds, and the biggest demand will be for purebreds that are of correct type with all of their close family of correct type and consistent high producers.

## POULTRY NOTES

Egg shells are good for both growing chicks and laying hens. If you feed hard boiled eggs to baby chicks you should grind or chop the shells up with the eggs. In feeding shells to hens you should be careful to break them up so that they will not resemble an egg in shape, otherwise the egg eating hen might be encouraged.

A quick fattening food, used by some poultrymen, is composed of equal parts of corn meal and barley meal, scalded and fed in a warm state. It is claimed that this food also gives more solid flesh and a finer golden color than any other known ration.

The Maine station dry mash, used with such satisfaction for many years, is composed of two parts wheat bran, one part corn meal, one part middlings, one part linseed meal, one part beef scrap, one part gluten meal. There is danger, when mash is mixed on the premises, that an overabundance of roughage may be fed, and it is well, where ground oats are used, to sift out the hulls. Sometimes whole boiled oats can be procured to fill out the grain ration.

Some successful egg farmers, who use

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**DIRECT AND SURE** The Church Bold Yet Tolerant

By Dr. JAMES E. TALMAGE

Of the Council of Twelve, Church of Jesus Christ of Latter-Day Saints, Salt Lake City, Utah

Note: For free copies of other articles of this series, send request to the author.

The establishment of the Church of Jesus Christ of Latter-day Saints was to extend the kingdom of God on earth as a body corporate was preceded by visitations of heavenly beings, by definite revelation, and by the unfolding plan of the Divine purpose in these latter days, and by the publication of the modern world volume of Scripture which, through comprising the record of ancient prophecies, was new to the modern world.

These and other heavenly manifestations, including the bestowal of the Holy Priesthood, with its expressly defined authority and appointment to organize and build up the church, were made through Joseph Smith who at the time of the first visitation was a lad in his fifteenth year.

To the earnest student of this unprecedented series of events a certain dominant characteristic is apparent—the poise and certitude with which the successive revelations of the youthful prophet were set forth. From his testimony of the glorious testimony by which the dispensation of the fullness of times was inaugurated, down to his last inspired utterances immediately preceding his martyrdom, his doctrinal teachings, his affirmations and prophecies were unweakened and unqualified and unambiguous.

Plain and unembellished by studied rhetoric or dramatic effect, his solemn avowals were free from even the shadow of the tentative or provisional. He voiced his message fearlessly and in the strength of simplicity with no restraining or softening of opposition, ridicule or persecution.

True to the character of a real prophet, he gave out only as he received—line upon line, precept upon precept, here a little and there a little, and behold, the precepts have arrayed themselves into a scriptural unity; the lines have fallen in order as verses as a revealed epic and the truth has grown to the fullness of the everlasting Gospel.

The mission of Joseph Smith and that of the Church he was instrumental in founding have from the first been before the world in their true colors. Though the weight of unalterable purpose and unchanging plan is impressively apparent, there is nothing in the latter-day Scripture that savors of policy or obscure intent.

Granted that the claims of the Church are held out, even strikingly and that some of them when first uttered were regarded as disturbing contrast with certain theological programs long regarded as orthodox, nevertheless they were presented with an assurance such as only the certainty of their Divine source could justify or sufficiently explain.

In this age of free speech and liberty of conscience it is surely allowable to put forth views and publish

## BARRED PLYMOUTH ROCKS SHIPPED TO AUSTRALIA BREEDER



Two shipments of Barred Plymouth Rocks were made to Australia recently by the poultry husbandry department of the Oregon Agricultural college. Albert Moore, L. H. Pettit, and other prominent breeders in Australia, are getting the fowls. Moore and Pettit have secured stock here for several years back and are now advertising in Australia the Oregon Agricultural college stock for sale. One of these breeders entered a pen of O. A. C. stock in a contest in Australia and secured a record of more than 200 eggs per hen. The pen contained 10 hens.

The purpose in sending the stock to Australia as well as to some other foreign countries is to try it out under varying climatic and other environmental conditions. The experiments have shown that the O. A. C. stock lays as well in Australia and in various sections of the United States, as in its home in Western Oregon.

Four shipments of White Leghorns and Barred Rocks to Hawaii were made on the same steamer, one of them going to the government station.

The following paragraph is taken from a letter to the members of the Oregon Poultry Producers' association by their manager, and is self-explanatory.

"Settlement in full is being made today for eggs received up to February 13, on the basis of 56 cents for selects and 53 cents for pullets. Inasmuch as the Portland market buying price did not exceed 40 cents and the selling price

## Poultrymen Attention

In order to secure best results from your flock, use

**KERR'S QUALITY POULTRY FEEDS**

Prepared under the direction of Professor C. S. Brewster, formerly of the Oregon Agricultural College. These feeds are made of clean, wholesome ingredients, properly mixed to provide the maximum of food value at the minimum cost.

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Write for Bulletin No. 1 on Chick Feeding

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**Pratts Poultry Regulator**

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You'll find it gets vigor into your youngsters when they need it most—in the first three weeks.

Samson Farm, Augusta, Maine, says: "In feeding Pratts Baby Chick Food I find that it has eliminated the so-called baby chick disease that we have had so much trouble with in days gone by."

"Your Money Back if YOU Are Not Satisfied!" Sold by 60,000 dealers. There's one best too.

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A clean, wholesome, natural food—no dust—no waste. Keeps the chicks healthy and makes them grow fast.

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Of "Diamond Quality" Poultry Supplies, listing everything necessary for the profitable production of poultry mailed free on request. Ask for Catalog No. 502

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## Farm Bureau Meet at Roseburg Held "Most Successful"

Roseburg, March 13.—The recent farm bureau session in this city was one of the most interesting meetings of the association. The bureau will enlarge its activities in Douglas county during the ensuing year and will put on a four day "Farm Products and Livestock show" this coming fall in Roseburg.

The first county fair proved such a success that all farm products will be combined in the next show. Two lectures were given at the meeting. Paul V. Morris, state leader of county agents, was one of the speakers and told of the purposes and objects of the farm bureau. It is a national organization and works through the local organizations, its principal object being to accomplish results that count on the farm.

The other speaker was O. M. Nelson of the animal husbandry department of the Oregon Agricultural college. An organization of the sheep and goat raisers of the county will be effected, and the cooperation of the growers to effect

for canded stock did not exceed 46 cents for the entire period. It is evident that the members of this association are well recompensed for the delay in payment to which they have been subjected.

This is a very good example of how by cooperation they overcome a decided break in the market which did not seem justified at that season of the year. It is these fluctuations in market products that afford an opportunity for the speculator to widen the gap in prices between the producer and the consumer. Does organization pay?

## Hart's New Brooder

By using Hart's New Brooder Plans you can turn any old shed into a brooder house. It is heated by an oil stove that costs \$8.50 at the present prices. Pipe and labor will cost \$3.00 to \$5.00 more for a 400 chick size brooder house. You buy the stove, etc., at your local dealer's. A house 10x10 holds 800 chicks. 14x18 holds 500 to 650. Book contains plans for new brooder houses and also colony houses.

Very simple to put up. No thermostats or thermometers are used. No need to teach chicks to roost. A child can operate it. City gas can be used if an absolutely steady flow is available. No oversteering or chiming.

With the plans I give you my Method of Feeding and Care of Chicks. Positively no guesswork here. This alone is worth many times the price of the book. How I raised over 2000 pullets without meat, and they were ready to lay at 3 1/2 to 4 months.

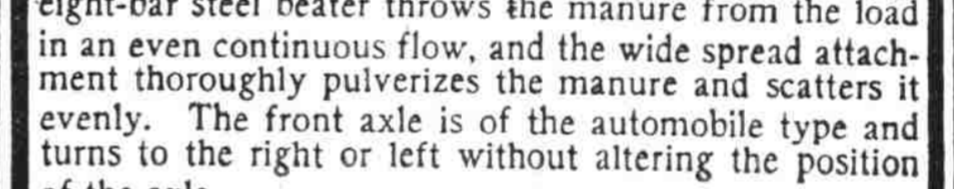
**HART'S MASH GIVES HIGHEST EGG RECORDS AND SAVES 25c TO 50c ON EACH HEN A YEAR**

This book contains my feed formulas and methods that produced 14,800-egg hens out of 450 that were hatched at Salem, Or., in 1919. 191 out of the 450 went 250 eggs and over. More 300-egg hens than all the rest of the United States combined. And I save \$10 to \$15 a ton on Mash and Scratch feed. If you can save 25c to 50c a hen a year by using my formulas and methods, which can you save in one year—and get the highest egg yields, too. No ear tonic, drops or stimulants were used.

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## The New Black Hawk Spreader



The new low down Black Hawk spreader with its large eight-bar steel beater throws the manure from the load in an even continuous flow, and the wide spread attachment thoroughly pulverizes the manure and scatters it evenly. The front axle is of the automobile type and turns to the right or left without altering the position of the axle.

The entire wheel base is only 96 inches, therefore your wheels are always under the load and insure light draft. Write for circulars describing the Black Hawk low down spreader.

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Col. A. L. Stevenson, Corvallis, Oregon.  
Col. G. R. Gochnour, Sunnyside, Wash.

For Catalog, address Chas. Bull, Secretary, Mabton, Washington.

a better means of marketing their livestock. A committee was appointed that will cooperate with the state-federation which is to be formed this coming fall. The farm bureau elected officers as follows: C. E. Banning, president; Charles A. Brand, vice president; George W. Burt, secretary treasurer. The executive committee elected was: M. H. Green, C. E. Stubbuck, Arthur Mars, B. F. Nichols, J. A. Snyder, R. A. Busenbark and G. A. Lindbloom.

**Irrigation District Sought**  
Baker, March 13.—Pine Valley will vote upon the organization of an irrigation district that, according to plans, will comprise 15,000 acres. It is the purpose of the prospective organizers to build reservoirs on East Pine creek and in Poy valley to provide storage water that will extend the irrigation season in Pine valley through the late summer and early fall. Practically the whole of the valley is already under cultivation. An election for directors and organization will be held in the near future, and will be followed by a bond election.



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The Perfection will milk your cows, and do it right, with no bad results and a lot of satisfaction to you.

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No farmer can afford to be without a box of "Wood-Lark." A sprinkling on the rat-trap plates in attic and barn where the poultry can't reach it, will effectually rid the premises of all destructive rodents. Why suffer the irreparable damage of squirrels, diggers, chipmunks, etc., when a box of "Wood-Lark" and ten minutes' time will stop your loss and inconvenience?

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