

## SOY BEANS TAKE PLACE OF OATS

Production of Seed During Past Few Years in Corn Belt Has Become Profitable.

### SEEKING COMMERCIAL OUTLET

Possibilities of Utilizing Crop for Oil and Meal Had Much to Do With Increased Acreage—Grower Afforded Cash Crop.

(Prepared by the United States Department of Agriculture.)

The soy bean is rapidly taking a place as a major crop in the farming systems of the corn belt, replacing oats to a considerable extent and taking part of the corn acreage. Although primarily used for forage, pasture and ensilage, the growing of seed during the last few years has been a very profitable industry. The production of seed has now increased to the point where the supply greatly exceeds the demands for planting.

**Seek Commercial Outlet.**  
County soy-bean associations, growers, county agents and extension officials, notably in Illinois and Indiana, have concerned themselves in the development of a commercial outlet of the seed. As a result, the production of oil and meal from corn belt grown soy beans seems to be definitely assured for the season of 1922. Several mills in Indiana and Illinois have become interested in the possibilities of the soy bean as source of oil and meal. Two mills in Illinois have planned to use about 750,000 bushels this season, while other mills are planning on a smaller scale.

Although definite figures are not available on the acreage of soy beans in the various states, reports to the United States Department of Agriculture indicate very large increases in acreage for seed production and forage purposes throughout the northern and corn belt states. The possibilities of utilizing domestic grown beans for oil and meal no doubt had much to do



An Indiana Field of Soy Beans.

with the large increase in acreage for seed. Such a commercial outlet affords the grower another cash crop as corn and wheat.

**Ready Market Indicated.**  
The various ways in which the soy bean and its products are utilized in the United States indicate a ready market for the commercial production of soy-bean seed. Soy-bean oil is largely used in the manufacture of soaps and paints, and it is also used in the manufacture of lard and butter substitutes, rubber substitutes, linoleum, printing ink, and as a salad oil. The cake or meal is a superior cattle feed and of high value for human consumption.

### HOGGING OFF CORN AND PEAS

Mixture Makes Reasonably Good Balanced Ration and Animals Thrive Well on It.

In hogging off corn and cowpeas, the pigs and hogs eat the beans only, and not the vines and foliage. This legume seed is relatively high in protein, balancing the starchy corn. The mixture makes a reasonably good balanced ration; the hogs grow on it and gain in both flesh and fat; and there is more of the mixed feed than with corn alone.

### FEED-FARMING IS IMPORTANT

Department of Agriculture Has Established Project Which Deals With It Exclusively.

Owing to the importance of feed-farming industry, the United States Department of Agriculture has established a project which deals with it exclusively. It furnishes information to prospective breeders, as well as to those already engaged in the industry, which helps them to overcome obstacles and avoid pitfalls.

### TEST WITH PUREBRED LAMBS

Consumed 63 Per Cent as Much as Scrubs and Were Disposed of at 75 Per Cent More.

Eighteen lambs sired by a scrub ram and eighteen sired by a purebred ram were fed out in a contest. Those sired by the purebred ate 63 per cent as much grain and sold at 75 per cent more money than the scrubs did—good blood pays.

## FAMOUS RAMBOUILLET RAM GETS ATTENTION

Ranchers in West Study Result of Breeding Work.

Particularly Interested in Noted Sire Prince of Parowan—Uniformity and Good Type Produced Are Exhibited.

(Prepared by the United States Department of Agriculture.)

Ranchers from Washington, Oregon, California, Arizona, Nevada, Utah, Idaho, and Montana, about 200 persons in all, recently attended a field day at the government sheep farm in eastern Idaho, where they studied the results of the breeding work done by the department, particularly that with Rambouillet. The famous Rambouillet ram, Prince of Parowan, attracted much attention from these



Prince of Parowan, Rambouillet Ram on Government Farm in Idaho.

range sheepmen. This ram, a particularly high-class sire, produced nearly 120 sons and daughters on the ranch last year. Of these, 28 selected rams and 58 ewes were exhibited in pens to show the uniformity and good type produced by the sire. Some of his grandsons were so much like his sons that it was difficult to pick them out. Stockmen consider that this ram is a "find" and equal to the best of the breed.

In addition to the breeding work on this range station studies are being made of various methods of year-round management and the effects on yields of wool and lambs, range improvement by grazing studies and re-seeding of abandoned areas of the range, shed lambing, and methods of watering sheep on parts of the range distant from water. Fences are now built so that it will be possible to carry out experiments on the use of range to the full capacity.

### BABY BEEF VERY PROFITABLE

Production Can Be Made on Land Worth Not More Than \$150 Per Acre—Always "Toppers."

Baby beef production can be made most profitable on land worth not more than \$150 an acre, of which at least 50 per cent is easily cultivated, says W. H. Peters, acting chief of the animal husbandry division of the University of Minnesota. By baby beef production, he says, is meant the growing, fattening and marketing of beef calves at ages ranging from 12 to 24 months, 16 to 18 months being the most economical at which to sell.

"With sufficient fat on them when placed on the market, baby beefs are always market toppers," Professor Peters says. "Baby beef production allows raising of more calves on the same amount of land than does production of stock or feeder cattle. Each good baby beef steer should sell for \$30 to \$50 more when one and one-half years old than the average feeder steer will bring at two and one-half years of age."

### PLANT WALNUTS ON HIGHWAY

Minnesota Forester Receives 20,000 Trees for Distribution in Southern Minnesota.

Planting trees along Minnesota highways is well under way, following distribution of nearly 20,000 black walnuts, recently received by the state forestry department. The walnuts are to be planted along highways in the southern part of the state, according to W. T. Cox, state forester.

The plans of the forestry department have changed somewhat since the launching of the tree planting program, due to the fact that the demand for trees is greatly in excess of the available supply.

### BEET TOP SILAGE IN RATION

Hay Requirements May Be Lessened One-Half in Feeding for Beef, Mutton or Milk.

The best feeding practices have demonstrated that by the use of beet-top silage in the ration the hay requirements may be reduced by one-half in feeding for the production of beef, mutton, or milk. The succulent value of the silage supplements its actual feeding properties and that of forage and other feeds.

### NEW GRADES FOR POTATOES

Revision Provides for Elimination of All Those Misshapen and With Hollow Heart.

Revised grades for white potatoes, prepared by the United States Department of Agriculture, provide for the elimination from No. 1 grade of misshapen potatoes and potatoes affected by hollow heart, and the addition of a grade known as No. 1 small.

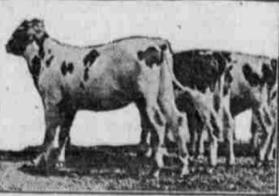
# DAIRY

## REPLACING OLD DAIRY STOCK

Oregon County Organization Striving to Save Animals From High-Producing Stock.

(Prepared by the United States Department of Agriculture.)

While calves from low-producing cows are saved to maintain the herds on some farms, on other farms and in other sections, where higher-producing cattle are kept, calves from 300-pound cows by purebred bulls are often vealed because no market is found for them as dairy stock. This is an economic waste which, according to re-



Economic Waste to Veal Calves From High-Producing Cows.

ports received by the United States Department of Agriculture, the extension organization of Coos county, Ore., is striving to eliminate.

About thirty calves from the best stock in Coos county were saved last year by arrangements made with farm bureaus of other counties to take them when two weeks old at \$12 a head, crated and delivered at the express office. Arrangements also were made recently for a representative of the Klamath county extension organization to spend 30 days locating newborn calves of good stock and finding a dairyman to feed them for two weeks before shipment to farmers in his own county.

The reports also say that calves two weeks old are shipped safely as far as 500 miles, or for 36 hours' travel; day-old calves can rarely be shipped.

### PUREBREDS AID MILK YIELD

Tribute to Value of Improved Sires is Contained in Statement by J. C. McDowell.

A tribute to the value of purebred sires is contained in a recent statement made by J. C. McDowell, of the dairy division of the United States Department of Agriculture, who pointed out that the average production of 38,000 grade cows in cow testing associations in 1920 was 5,980 pounds of milk and 300 pounds of butter, while the average production of all cows in the United States was 4,000 pounds of milk and 200 pounds of butter. The average milk and butter yield of grade cows was 50 per cent higher than the average for all grades and scrubs taken together. The economy of production was over 100 per cent greater.

### INCREASE FAT ECONOMICALLY

Best Plan is to Put Cows on an Abundant Ration That is Rich and Easily Digested.

In a herd of well-fed cows it is not practical to try to produce milk containing more fat by giving rich feeds; that is a pretty well-settled fact. In a herd of poorly-fed cows, though, the percentage of fat can be increased by putting the cows on abundant ration that is rich and easily digested. Tests in New York showed an increase of one-quarter of 1 per cent of fat, when the cows were kept on good feeds for two years. The increase was economical, too. There was 50 per cent increase in amount of milk produced.

### WAY TO AVOID LEAKY TEATS

Good Plan to Apply Colloidal After Each Milking—This Closes Up the Opening.

The only way to prevent leaky teats is to smear colloidal on the end of the teat after each milking. This closes up the opening and before the next milking it must be removed. This is bothersome, but may be used to good advantage where the cow loses a quantity of milk.

### INDIVIDUALITY IS ESSENTIAL

In Selecting Cow It is Important to See That Strain is of Large Producers.

Breed is of less importance in selecting the cow than is individuality, for in every breed there are good individuals and poor individuals. It is important, not only that the breed, but the strain or family represented be noted for large and economical production.

**Provide Supplemental Feed.**  
If concentrated feeds are not provided to supplement the pasture, the cow must either reduce her production or draw on reserve materials from her body.

**Grain is Essential.**  
The feeding of grain to dairy cows on pasture is essential to sustained high production.

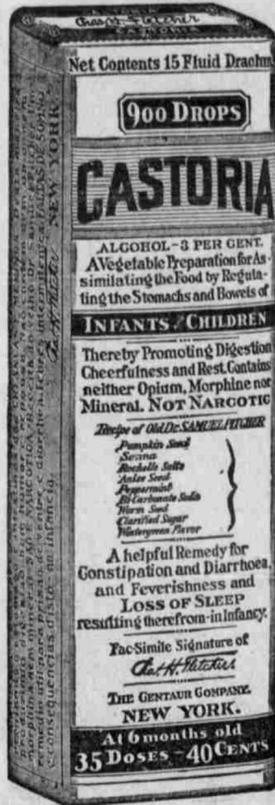
**Give Plenty of Water.**  
Give the calves plenty of clean water to drink.

## Shame on Them.

PERHAPS there are a few mothers who do not know the virtues of Fletcher's Castoria. Perhaps there are a few who know that there are imitations on the market, and knowing this demand Fletcher's. It is to ALL motherhood, then, that we call attention to the numerous imitations and counterfeits that may be set before them.

It is to all motherhood everywhere that we ring out the warning to beware of the "Just-as-good". For over thirty years Fletcher's Castoria has been an aid in the upbuilding of our population; an aid in the saving of babies.

And yet there are those who would ask you to try something new. Try this. Try that. Even try the same remedy for the tiny, scarcely breathing, babe that you in all your robust womanhood would use for yourself. Shame on them.



Exact Copy of Wrapper.

## Children Cry For

*Fletcher's*

# CASTORIA

Your Friend, the Physician.

The history of all medicines carries with it the story of battles against popular beliefs; fights against prejudice; even differences of opinion among scientists and men devoting their lives to research work; laboring always for the betterment of mankind. This information is at the hand of all physicians. He is with you at a moment's call be the trouble trifling or great. He is your friend, your household counselor. He is the one to whom you can always look for advice even though it might not be a case of sickness. He is not just a doctor. He is a student to his last and final call. His patients are his family and to lose one is little less than losing one of his own flesh and blood.

Believe him when he tells you—as he will—that Fletcher's Castoria has never harmed the littlest babe, and that it is a good thing to keep in the house. He knows.

MOTHERS SHOULD READ THE BOOKLET THAT IS AROUND EVERY BOTTLE OF FLETCHER'S CASTORIA.

GENUINE CASTORIA ALWAYS

Bears the Signature of

*Chas. H. Fletcher.*

THE CENTAUR COMPANY, NEW YORK CITY.

## 10 Cents Gives Charming New Shade to Old Lingerie

PUTNAM FADELESS DYES—dyes or tints as you wish

Other End Up.  
Mother—"Johnny, don't go in the water over your knees." Johnny—"All right, ma, I'll just dive."

After a man admits his third or fourth mistake, admiration of his candor begins to wane.

Police!  
It should encourage habits of cleanliness to notice that the man who cleans up usually amasses a neat pile or a tidy sum.—Life.

Gentlemen's agreements last only as long as they all stay gentlemen.

Artificial Camphor.  
Artificial camphor is being made from coal tar in the United States in sufficient quantity to break Japan's monopoly of the genuine article.

Being unable to accomplish wonders is what makes a man a liar.

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# CALUMET

The Economy BAKING POWDER

GUARANTEES

Pure and Wholesome Foods

No Failures

No Waste

When a "Big and Cheap" can of baking powder is offered you—LOOK OUT.

Every can of Calumet is the same—keeping Quality Perfect—last spoonful good as the first.



The moderate cost of Calumet combined with the highest merit establishes the greatest of baking powder economy.

You save when you buy it. You save when you use it!

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The World's Greatest Baking Powder