

1000 YEARLING EWES

I offer for immediate sale 1,000 Yearling Ewes, 500 of which are Shropshire Grades. These are priced at \$16 each. Five hundred Leicester and Cheviot Grades at \$15 each.

These are high-class sheep and moderately priced considering their quality. They are excellent stock for small or large farm flocks. Write for further particulars.

H. A. SUGGITT

COALDALE

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PERCHERONS

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Registered males with colts at side and bred again; registered fillies, stallions one to five years old; grown ourselves the ancestors for five generations on dam side; sire imported.

FRED CHANDLER, 87, CHARITON, IOWA Direct below St. Paul

DUROC-JERSEY SWINE

THE PIONEER BREEDER OF DUROCS IN WESTERN CANADA.

I have for immediate sale a number of early Spring Pigs; also June Pigs from the best prize-winning strains. Write me your wants, my prices are reasonable.

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I have a Special Money Saving Offer to make to everyone interested in a High-Grade Separator

Don't think of buying a Cream Separator of any kind or from anybody without first getting my Special Money Saving Proposition which is good only until Jan. 1st, 1919.

I have a big stock of my new Galloway Sanitary Cream Separators on hand that were built before the big rise in price, and I am going to not only give you the benefit of the old prices, but a Special Money Saving Proposition if you will send in your order now or before Jan. 1st, 1919.

Now this is a straight business proposition. I have the machines on hand ready for immediate shipment. If you are needing or going to need a Cream Separator in the next six months, it will pay you to send in the coupon below and get my Special Money Saving Offer that will really save you cash money in your purchase.

But remember my offer is only good until Jan. 1st, 1919, or so long as my present stock lasts, so it will be wise for you to write me at once, as it will not cost you anything to find out what my special offer is, but I guarantee it will save you actual cash money if you buy.



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Free Catalogue

Besides the Special Money Saving Offer I will send you my latest Catalogue of "Everything Needed for the Farm." If you are interested in Gasoline Engines or Manure Spreaders, check the squares in the coupon so that I can send you my special literature and latest confidential price list on same.

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I am interested. Please send me your new Cream Separator Book and Special Money Saving Offer, as advertised in The Grain Growers' Guide.

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rightly attributed to lack of sunlight during the period of pregnancy.

Successful Rations for Pregnant Sows
During this experiment the following

rations proved successful. Weights of sows and daily rations here shown are the average for the three sows in each lot during the entire pregnancy period.

I.—Gilt Weighing 265 Pounds

When fed and mixture	Amount fed per Sow per Day
A.M.—Crushed oats, 3 parts	1 lb. in form of slop.
Crushed barley, 3 parts	
Bran, 3 parts	
6 per cent. tankage	
Noon—Garbage or kitchen refuse	7 lb. thoroughly cooked.
P.M.—Whole oats	1 1/3 lb. scattered on ground
Water, salt and coal at will.	

II.—Gilt Weighing 225 Pounds

A.M.—Whole oats	1 2/3 lb. scattered on ground
P.M.—Whole oats	1 2/3 lb. scattered on ground
Water, salt and coal at will.	

Variety would be added to this ration by crushing the morning feed of oats and feeding in the form of slop.

III.—Gilt Weighing 215 Pounds

A.M.—Ground frozen wheat	1 1/2 lb. fed as slop.
10 per cent. tankage	
P.M.—Tankage	1/2 lb. fed in warm water.
Frozen wheat, whole	1 1/2 lb. scattered on ground
Water, salt and coal at will.	

IV.—Gilt Weighing 220 Pounds

A.M.—Ground barley	1 1/2 lb. fed as a slop.
10 per cent. tankage	
P.M.—Tankage	1/2 lb. fed in warm water.
Whole barley	1 1/2 lb. fed whole on ground
Water, salt and coal at will.	

V.—Sows Weighing 370 Pounds

A.M.—Crushed oats, 5 parts	2 lb. fed in slop form.
Crushed barley, 2 parts	
Wheat bran, 3 parts	
P.M.—Whole oats	1 2/3 lb. scattered on ground
Water, salt and coal at will.	

Conclusions

1. Frozen wheat as a single feed, even though fed under the best of conditions, resulted in weak, hairless pigs.
2. With ten per cent. meat meal tankage added to a straight frozen wheat ration, sows wintered in excellent condition and produced strong, vigorous litters.
3. Farrowing troubles have not been due to certain poisonous properties in frozen wheat, but to a deficiency of necessary food, nutrients.
4. Barley alone should not be fed to pregnant sows. When fed under the very best of conditions sows had a tendency to lay on fat rather than body growth and their pigs were somewhat small and lacking in uniformity. Sows fed a heavy barley ration without additional mineral matter farrowed small, weak litters with some pigs totally hairless and others scantily clothed.
5. Barley, plus ten per cent. meat meal tankage resulted in sows making excellent gains, farrowing strong vigorous pigs, and in this instance raising every pig farrowed.
6. Sows wintered on whole oats made rather low gains, but these gains took the form of growth rather than body fat. The litters came strong and uniform.
7. Lack of sunlight and limited exercise do not cause hairless pigs. Such conditions are undesirable for other reasons.

8. Results obtained in this experiment on the question of forcing sows to eat snow are not complete, but point to the fact that better results would follow liberal watering. Water with the chill removed is to be preferred.
 9. If additional mineral matter is needed, it can be provided easily and cheaply by giving the sows access to fine coal. At any rate sows relish this addition to their regular grain ration.
 10. Pigs appreciate variety as well as people, so make use of the kitchen refuse or garbage. If thoroughly cooked it can be fed safely to pregnant sows.
 11. A greater number of weak or hairless pigs were farrowed in early than in later litters. All pastures were withheld from late farrowing sows so that feed conditions were identical to the other sows in the lot. The cause of this difference was not determined.
 12. In this experiment protein was added to carbohydrate-rich rations by the use of 60 per cent. meat meal tankage. Where this feed is not available the necessary protein can be supplied by utilizing skim-milk, butter-milk or flax seed oil meal—all high in this important body requirement.
- Pregnant sows must be well fed in this experiment every sow that was properly fed farrowed a good average litter regardless of other conditions. For continued success in avoiding outbreaks of disease, however, the breeder must use as much intelligence in the care and management of the bred sows as in the selection of the ration.

The Clydesdale Horse

Continued from Page 9

Clydesdale breeder, will, we believe, not dispute the claims of this practical farmer of a century ago, that the Clydesdale excels in work "where strength, agility and docility are required." These three words "strength, agility and docility," depict in brief but striking fashion the three main characteristics of the Clydesdale. And this part of our topic might well close just here were it not desirable to show by a more detailed description just how this "strength and agility" is brought about.

Quality and Action

Clydesdale breeders lay great emphasis upon bone, quality and action, and rightly so. Without good bone, and quality in feet and legs the highest action cannot be secured. The feet should be large, round at the hoof heads and open, with a good heel; the pasterns long and sloping, the canons short, flat and broad, and the quarters well muscled. From the back of the tendon grows a fringe of fine, silky hair, which is indicative of quality. This hair should not be coarse, wiry or curly, but as a noted horseman once described it:

"A delicate fringe of hair down the back of the tendon." The body should be deep and wide. The shoulders should show obliqueness and the withers should be high, two characteristics that are favorable to the remarkable stride which the Clydesdale possesses. The chest of the Clydesdale is narrower than in other draft breeds. A wide chest means a rolling gait, which is very objectionable in the Clyde.

Excellent Action

The well-nigh perfect action of the Clydesdale is not excelled, nor even closely approached by any other of the draft breeds. To get this the legs must be carried squarely under him, they must follow each other in a straight line and the points of the hocks should be inclined inward and not outward. As a good English authority has put it: "A Clydesdale must stand with his hind legs in regulation military formation in and toes out." The good judge in a showing is always denoted with a horse that keeps his hocks well together. Some of the best show horses among Clydesdales have had action approaching that of the Hackney.

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