We take the following extracts from the exhaustive bulletin entitlen, "Experiments in Pork Production," issued from the Central Experimental Farm at Ottawa, of which Prof. Wm. Saunders is the able and thoroughly posted director :-

FEEDING SKIM-MILK. The value of skim-milk as a feed for pork duction has always been well known and production has always the following, experiments were devised for

Central Farm.

data skim milk may be said to bear the relation of 8.82 jos to one of meal.

In Exps. 7 and 8 the use of skim milk with corn is exemplified. In one case the corn was whole, while in the other it was ground. The longer period for which the whole corn was soaked in the one case may be expected, however, to exert as great an influence as the grinding in the other, upon the proportion of nutriments available. The data obtained from these experiments would indicate that 1.83 lbs. skim milk were equivalent to 1 lb. corn. While this is not exactly in accordance with the results of other experiments here, it serves to emphasize the great value of skim milk phasize the great value of skim milk as a supplementary food, and as a supplement to no other grain does its effect seem so markedd as when used

In Experiments 10 and 11 with bar-ley and milk the same conditions ob-tain as are discussed in the preceding paragraph. It will be observed that while of barley fed alone 4.35 lbs. were required to produce 1 lb. of pork, only 3.64 lbs. were required for



SUMMER HOME CENTRAL FARM.

the purpose of giving some exact data which might be used as a guide to the feeder rather for the purpose of settling some disputed question or establishing some doubtful feed on better grounds. Some of the experiments summarized in the following table were conducted with the sole purpose of determining the value of this bye product, while others have been introduced as illustrated to a greater or less. extent the value of this feed. The very great value of this substance must not be measured by its chemical composition solely; but its peculiar, apparently stimulating action upon the growth of the animal must be considered.

From tests to gain information as to the value of skim milk it appears that :

When swine were fed with meal, barley, rye and wheat, alone 4.27 lbs were required to give I lb. gain, but when swine were fed and all the milk they could consur only 1 26 lbs. of meal were required for 1 lb. gain and 25.59 lbs. skim-milk. One pound meal would thus be worth 8 43 ibs.

A mixture of pease, wheat and rye gave parison a similar number of swine were given three-quarters the quantity of the

the same effect when fed with 2.52 lbs. of milk. Here also the feeding value of skim milk seems very much greater than most work along this ould indicate.

In Experiments 12 and 13 the use of milk with a mixture of pease, barley and rye fed whole as compared with the same mixture fed alone, is illustrated. The mixture seems to bear the relation of 1 to 6.99 of mik. In Experiments 14 and 15 a meal composed of equal parts of ground pease, barley and rye was fed in the one ease without milk when 4.36 ibs. were required to produce 1 lb. of pork and in the other case with all the skim milk the pigs would consume in addition to the grain ration when 3.46 lbs. meal and 4.81 lbs. skim milk produced 1 lb. pork. Skim milk according to this experiment would be worth about one-fifth as much as an

summary of some other work is sub-

From tests made in 1892, 1893 and 1894 with 48 swine it appears that when a small quantity (about 3 pounds per head per day) of skim milk was fed, a less quantity of it was parison a similar number of swine were given three-quarters the quantity of the same meal and all the skim-milk they would drink. It was then found that 2 17 lbs. meal and 11.10 lbs. skim-milk gave 1 lb. meal and 11.10 pound that 2 lbs. meal and 11.10 lbs. skim-milk gave 1 lb. meal and 11.10 lbs. skim-milk gave 1 lbs. meal and 11.10 lbs. skim-milk gave 1 lb. meal and 11.10 lbs. skim-milk gave 1 lbs. meal and 11.10 lbs. skim-mil

General Conclusions.

From these tests and from our ex-perience in feeding young pigs, it appears that:

Skim milk may form the largest part of the feed of young and grow-

ing pigs with advantage and economy; For the fattening of swine weighing

For the fattening of swine weighing on the average over 100 pounds each, live weight, it is economical to give an allowance of skim milk not exceeding 5 pounds per head per day;
In every case the swine fed with part of their ration of skim milk were justier, more vigorous and of a more healthy appearance than swine fed wholly on a ration of grain.

Skim milk gives the best returns for the amount fed when it constitutes a comparatively small part of the total food fed.

Skim milk may, generally speaking,

Skim milk may, generally speaking, be considered to be worth from one-sixth to-one-fifth as much as mixed

grain.

a. In case of whole oats where 14 lbs. feed was fed, 2 lbs. 6 oz, of undigested grain, or 21.6 per cent. of the whole amount was found in the excrement. One-tenth of this germinated. b. In the case of whole barles, where 17 lbs. was fed, 2 lbs. 2 oz. or 121-2 per cent of the whole amount was found in the excrement. None of this would germinate.

this would germinate. this would germinate.

c. In the case of whole pease where 17 lbs was fed, 2 oz. only, or about 3-4 of 1 per cent of the whole amount, was found in the excrement. None of

of this would germinate.
d. In the case of whole corn where 11 lbs. was fed, 8 oz. or nearly 5 per cent of the whole amount was found in the excrement. About one-twelfth

of this germinated.
e. In the case of unground mixed grain (oats, pease and barley) where 11 lbs. of grain was fed, 10 oz. or 5.7 per cent of the whole amount was found in the excrement. About one-fifth (oats) of this germinated.

SOAKED FEED. Experiments to determine the value

Experiments to determine the value of soaked feed as contrasted with similar feeds fed dry.

Experiments with cooked feed (grains) would indicate that the increased returns from cooked feed were not sufficient to pay for the extra work and expenditure. The nearest approach to cooking at practically no expense is soaking the food and the experiments were carried along on this line. this line. While grain was fed and a consid-

erable saving was apparently wrought in feed by soaking the grain. This amounted to about 6 per cent of the

food fed lot 2.
Ground grain was fed dry and compared with ground grain fed soaked.
The data here would seem to point
to a loss from soaking meal. While
this may not be the actual case yet it
is probable that the result from soaking meal may not be so marked as from soaking whole grain. A study of some other experimental work not submitted under this head would also indicate this.

STEAMED OR COOKED. Experiments to determine the value of steamed or cooked feed, fed warm, as contrasted with raw feed, fed cold, including an experiment with pea en-

The following report is taken, with slight changes, from the report for 1891:—
The object of this experiment was

The object of this experiment was twofold—(1) to discover the difference, if any, in the quantity of grain required to produce every pound of increase of the live weight of the swine, when fed steamed and warm-In addition to the above work a and cold in the other; (2) to obtain a and cold in the other; (2) to obtain a record of the comparative quantities of grain required to produce every pound of increase in the live weight of the swine. during the different stages of the feeding period. The grains fed were ground pease, barley and rye, equal parts.

The mixture of grain was fed wet in both cases. Cold water was given to drink. A mixture of salt and wood, ashes was kept in a box on the floor

ashes was kept in a box on the floor

of each pen, where the pigs had access to it at all.

The object was to discover the value, if any, of pea ensilage for the feeding and fattening of swine.

Records were also kept to ascertain the comparative quantities of feed re-

quired to produce every pound of in-crease in the live weight of the swine, during the different stages of the feeding period.

The pea ensilage was prepared by harvesting the crop when the earliest pods were filled and before the peas pods were filled and before the peas became hard. The vines were green and succulent. The ensilage was well preserved. The pigs in lot 3 were fed an allowance of grain, a mixture of equal parts of ground peas, barley and rye, but not as much as they would have eaten readily. They were would have eaten readily. They were fed also a quantity of pea ensilage. The pigs in lot 4 were fed upon pia ensilage only. In both cases the pigs refused to eat more than a small portion of whatever quantity of pea ensilage was offered to them. The remainder was nosed over, pushed about and trampled on. When what was left uneaten was weighed out of the pens. it was very wet.

pens, it was very wet.

Both lots of pigs were allowed cold water to drink, and a mixture of salt and ashes was accessible to the pigs in both cases. The pea ensilage did not seem to have any feeding value to the pigs which received an allowance of grain; and the pigs in lot 4 steadily decreased in weight for nine weeks, when the feeding of ensilage was ended. nens it was very wet.

OTHER CONCLUSIONS.

There is no appreciable difference in the number of pounds of grain required to produce every pound of increase in the live weight of swine, when fed steamed and warm, as against fed raw

and cold.;
On the average there is a gradual increase in the quantity of feed con-sumed, for every pound of gain in live weight of swine, after the second month of feeding period, and after the

month of feeding period, and after the average live weight exceeds 100 lbs.; It is most economical to market swine for slaughtering when they weigh from 180 to 200 lbs., alive; The largest consumption of feed per day by swine is at or near the period of their feeding when the number of pounds of feed consumed, per pound of increase in weight, is lowest; For the increase of weight, by 3, 231 1-2 lbs., in 24 swine, 4.14 lbs. of mixture of ground pease, barley and rye were required for every pound of increased in live weight.

SOFT HOGS.

A series of experiments were begun to discover the effect on the quality of the meat cured bacon from the feeding of wheat and buckwheat to swine. Complaints were common from buyers of swine in Western On-tario that the quality of flesh was soft in a larger per centage of ani-mals than formerly; and an opinion was current to the affect that the "softness" was the result of the feed

ing of wheat or of buckwheat.
From tests it is evident that the feeding of wheat alone and of buck-wheat is not always a cause of "soft" hogs and "soft" sides, since some of the swine fed on wheat and buckwheat yielded sides classed as firm. GRAND SUMMARY.

The experiments conducted and re ported upon as above seem to indicate

that:
1. It will not pay to cook feed for where economy of pork production is the sole consideration.
2. There is a gradual increase in the quantity of feed consumed for every pound of pain in live weight after the average live weight exceeds 100 lbs.

slaughter swine is when thye weigh from 175 to 200 lbs.

4. The greatest and most economi-

cal gains are made when the swine are able to eat the most feed in proportion to their weight.

tion to their weight.
5. Frozen wheat may be used as a profitable feed for swine.
6. Skim milk adds most materially to the value of a grain ration, and 100 lbs. mixed grains equals about 700 lbs. skim milk. The relative value of skim milk in any ration varies with skim milk in any ration varies with the amount fed, the poorest returns per pound fed being obtained when the proportion of skim milk to the total food is the greatest.

7. The average dressed weight of swine is about 76.44 per cent. of the fasted weight.

8. Skim milk is a most valuable adjunct to the grain ration when hard flesh is desired.

9. Type of animals fed influences

 Type of animals fed influences character of meat more than breed, i. e., the fact of an animal being a i. e., the fact of an animal being a Yorkshire or Tamworth will not insure a good bacon carcass, but they must also be of a rangy type and fed in a certain way.

10. Feeding mixed meal (barley, pease and oats) with milk, usually insures firm meat.

11. The greatest gains from a given amount of grain appear to be made when it is ground and soaked for 24 hours. Part of grain fed whole is frequently voided before being digested.

ed.

12. Mixed grains are more economical than grains fed pure.

13. Pigs whose rations are limited make, on the whole, more economical gains than pigs that are rushed.

14. Maturity or ripeness of the animal affects the quality of the flesh.

FISHERMEN CAN FISH. Parrister W. A. Thrasher says; have looked in the Gazette to see there is any order-in-council in accordance with the letter I have received, but I could find nothing. In my opinion the nets can be used in the river and the lake both. I show letter and the lake both. I show letter to all the fishermen who come to me and tell them I think they can fish in the river as well as the lake. the river as well as the lake. The Outario Government says where and how fish may be caught, and the Dominion Government when they may be caught. That is my view of it.

AN OPEN SEASON FOR U. S. NURS-

ERY STOCK. The local collector of customs has received official notification from the department at Ottawa that the provisions of the Sin Jose scale act have been waived until May 1, 1900, provided the nursery stock from prohibited districts be thoroughly fumigated with hydrocyanic acid gas by a competent government official. The ports in Ontario at which such stock is permitted are Niagara Falls and Windsor, Ont.

Bad customs are better broken than

A Woman's Burden

THE STORY OF A WOMAN AD DRESSED TO WOMEN.

> Tells How Those Weak and Despon dent Can Obtain New Health and Strength at a Small Expense-The Facts Fully Verified by Investiga

From the Mail, Granby, Que.

The reading public have evidence put before them almost every day of the healing powers of Dr. Wil-liams' Pink Pills. It is sometimes asked whether these cures are per-manent, and in reply to this we would say that a case which recently came to the attention of the Mail incame to the attention of the Mail indicates that the results following the use of this medicine are as lasting as they are beneficial. Some years ago Mrs. Robert Webster, who is well known in Granby, passed through a very serious illness in which her condition very nearly bordered upon collapse. Her blood appeared to have almost turned to water. She was very weak, her appetite fickle, and she suffered from severe headaches. Mrs. Webster had the benefit of excellent medical advice, but apparent. she suffered from severe headaches. Mrs. Webster had the benefit of excellent medical advice, but apparently without avail, as she seemed steadily growing worse. The least exertion would fatigue her, and finally she was for a time unable to do her housework, and was confined to bed. Her husband suggested the use of Dr. Williams' Pink Pills and purchased a few boxes. Mrs. Webster had not been taking the pills long before she found herself growing stronger. Her headaches disappeared, her appetite improved, new blood appeared to be coursing through her veins, and her nerves again became strong and active. After using the pills for a couple of months she felt as well as ever she had done in her life, and could do her housework without feeling the fatigue that had formerly made her life so miserable. This, as already indicated, happened some years ago, and in the pariod This, as already indicated, happened some years ago, and in the period that has elapsed Mrs. Webster has enjoyed the best of health. She says that if she feels at any time a little run down she takes a few doses of Dr. Williams' Pink Pills and is soon all right, and she thinks there is no medicine to equal them. Mr. Webster, speaking of his wife's cure, says Dr. Williams' Pink Pills did her a thousand dollars' worth of good.

says Dr. Williams' Pink Pills did her a thousand dollars' worth of good, and friends who knew her condition before she began the pills and saw the effect upon her, say the same thing. There are a number of others in this vicinity who have used this great medicine, and so far as the Mail can learn the results have always heen beneficial. ways been beneficial.

There are thousands of women There are thousands of women throughout the country who suffer as Mrs. Webster did, who are pale, subject to headaches, heart palpitation and dizziness, who drag along frequently feeling that life is a burden. To all such we would say, give Dr. Williams' Pink Pills a fair trial. These pills make rich, red blood, strengthen the nerves, bring the glow of health to pale and sallow cheeks, and make the feeble and despondent feel that life is once more worth living. The genuine are sold only in feel that life is once more worth hying. The genuine are sold only in boxes, the wrapper bearing the full name, "Dr. Williams' Pink Pills for Pale People." May be had from all dealers or by mail at 50c. a box or six boxes for \$250. by addressing the Dr. Williams Medicine Oo., Brockwille. ville, Ont.

During the fast 12 months at least dozen elephant trainers have been killed-more than have been killed in ten years previous.

Brave Men Fall

Victims to stomach, liver and kidney troubles and feel the result in loss of appetite, backache, nervousness, head-ache and tired, run-down feeling, but, "Electric Bitters are just the thing for a man," writes J. W. Gardner, of Ida-ville, Ind., "when he is all run-down and don't care whether he lives or dies. It did more to give me new trength and good appetite than any-thing I could take. I can now eat anything and have a new lease of life." Only 50c. Every bottle guar-anteed by A. I. McCall & Co., drug-

touches the notes rightly and in tune, but there must be no hurry.-John

In the Jaws of a Lion.

The gallant Major Swaine tells of being knocked senseless by a lion that lacerated his arm. His thrilling escape from the jaws of death is only equaled by Dr. King's New Discovery for Consumption, which has saved thousands from desperate Throat and Lung troubles. "All doctors said my wife would soon die of Consumption." writes L. C. Overstreet, of Elgin, Tenn., "but your wonderfur medicine completely cured her, and saved her life." Satisfaction is guaranteed by A. I. McCall & Co., who give trial bottles free. Large bottles 50c. and \$1. At A. I. McCall & Co's. Drug Store. The gallant Major Swaine tells of

He is to be educated because he is a man, and not because he is to make shoes, nails and pins.—W. E. Chan-

CASTORIA

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Lemon Biscuits, per lb. 9c, 3 lbs.

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Laundry Starch, per package.

No. 2 Flour, 12 lbs. 18c, 24 lbs.

Judd Soap, 12 bars.

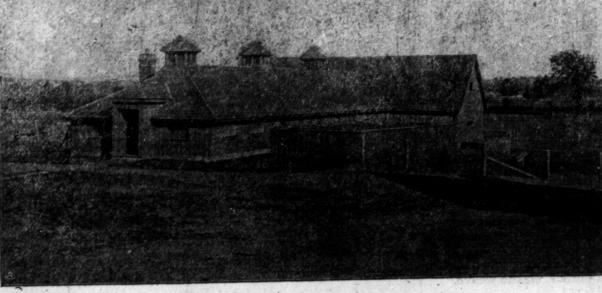
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