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Small Grains Good Substitute For Corn for Finishing Hogs

By E. J. Thompson, assistant professor of animal industry of North Dakota Agricultural College.

In the northern part of the state, in some localities, the enthusiastic farmers and stockmen tried this year to increase the corn yield by planting more than usual. But unfortunately weather conditions may not permit of its making a good yield and some few farmers will have to plan on finishing their hogs without the use of corn.

This of course is not a new system of feeding swine. It has been done for years. In North Dakota we have many small grains that can be used most successfully for feeding swine.

We have found at this station that barley makes a very high quality of pork as compared with pork made from corn.

The small grains and especially the barley has long been used for the production of bacon and in some of the older countries across the ocean they feed no corn and still produce some of the most palatable sides of bacon and pork imaginable.

In 1906 two lots were fed in comparison, one was fed on barley and shorts, the other on corn and shorts. The mixture was fed in each case one part of shorts to four parts of barley for lot 1, and 1 part of shorts to 4 parts of corn in lot 11.

The lots of pigs were practically 8 months of age when the experiment was started and this was the finishing or fattening period in the pig's life.

The results of this trial showed that it took 18 per cent more of the barley feed than it did of the corn ration to produce an equal amount of gain on the pigs.

At some of the other stations tests have been conducted which have found barley almost equal to corn when ground and fed in various proportions to swine.

At the present price of barley and the rainy days at barley cutting time we are bound to have some barley stained; so that it will bring a low price on the market, yet it can be fed to very great advantage and made into the best kind of pork. The favorite way of feeding barley it seems at present is to have it crushed or ground and then mix just at feeding time with shorts and made into a thick slop.

Rye also does very well as a grain ration for pigs, but it is not so good a feed as barley. It is best to feed rye ground in thick slop with shorts or middlings.

Rejected wheat makes a good feed for swine when fed with shorts or middlings. At the station here we found the gains made on pigs to be nearly as much when the lot was fed a mixture of shorts 1 part and rejected wheat 3 parts as that made by a similar lot of pigs when fed 1 part of shorts to 3 parts of corn. In each case the feed was ground. The conclusion at the end of the test was that it required 8.9 per cent more rejected wheat than corn to produce an equal amount of gain on the pigs.

A great many times the farmer can feed some of the smaller grains in conjunction with shorts or middlings and some of the feeds rich in protein material to very good advantage and profit.

The feeder should never neglect to feed a variety of feeds when it is possible for him to do so. For instance, if the feeder will feed a mixture of barley (ground) 3 parts and shorts 1 part, with ground alfalfa or clover 1 part he can normally expect a greater gain on the amount of feed consumed than if he clover or alfalfa were neglected.

We find on our feeding trials with pigs that we get better results feeding a mixture of 4 or 5 feeds when mixed in proportion to finish or fatten pigs than we do feeding a mixture of two or three feeds.

We feed, or try to feed, 1 part of protein (muscle building) feed to about 8 to 10 parts of carbohydrates or (fat producing) feed during their fattening or finishing period.

If the feeder has been careful in raising his pigs and has provided he proper kinds of nutrients for their well being he will not have great trouble in getting his hogs finished off into prime pork. The small grains have always been the mainstay in swine feeding in the various parts of the world and for finishing hogs off into good porkers of a high quality carcass nothing can surpass the small grains when put into the proper combinations.

It is not always economical to feed barley, oats, rye, wheat and other of the small grains, but under some conditions money can be made in their being made the principal part of the feed for growing and finishing swine.

The official biographer of the third state "party" compiled all the good things that could be said of Dr. Creegan before the convention, except that Dr. Creegan was disqualified as a candidate for governor. Had this been known it would have spoiled Sweet's chances of being nominated by the executive committee, assisted by Mr. Carroll.

Frank Owens, a real shop lifter, was arrested at Devils Lake.

MART'S MART

\$1,000—Five Room House, two lots—east front, half cash, balance to suit. A snap for someone.

\$2,300—Six Room House near Normal School, large lot, and fine trees; electric lights, cistern and coal shed; an ideal spot; south front.

\$3,000—Seven Room Cottage on Tenth avenue, three blocks from Post-office, lot 75 by 140 feet, barn, coal shed, cistern and well; east front.

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Public to Greet 300 National Delegates

CITY WILL TURN OUT ENMASS FOR W. C. T. U. MEMBERS ENROUTE TO PORTLAND

Valley City will give the delegates on the "White Ribbon" special, enroute to the national convention of the W. C. T. U. in Portland, Ore., an elaborate welcome and reception during the forty-five minutes the train stops here. There will be about 300 women, prominent in the W. C. T. U. work of the country and the national officers aboard the train.

The Commercial Club invites the delegates to stop here and has arranged to meet the train with automobiles and escort them about the city. A monster mass meeting has been planned to which all of Valley City is invited. It will be held in the auditorium of the State Normal school and the day has been declared a holiday by President McFarland so that all the students may attend the meeting. Superintendent Hanna will suspend the session of the High School so that the students of that school may also take part in the meeting.

Assemble in Auditorium

The "White Ribbon" special is scheduled to arrive in Valley City at 9:15 on the morning of Oct. 14, and leave at 10 o'clock. No delay assembled in advance of the arrival of the city's guests, so that all may make the most of the short stay will be occasioned in unloading the visitors from their train into automobiles and the mass meeting will be here.

Among the prominent women who will be here and who will speak at the mass meeting are Mrs. Lillian M. Stevens, national president; Miss Anna A. Gordon, long associated with Miss Francis Willard, national vice president; Mrs. Edith Smith Davis, superintendent of the department of scientific temperance instruction, and Mrs. Margaret Dye Ellis, superintendent of the department of legislation, who spends her tie at the national capital in behalf of the W. C. T. U. Practically all of the other national officers, as well as presidents and officers of eastern state organizations, will be on the train.

Stopovers have been arranged all along the line for the "White Ribbon" special and extensive preparations have been made for receiving and entertaining the delegates at each place. Valley City is scheduled as one of the most important stops, in view of the fact that this city is the home of the national secretary, Mrs. Elizabeth Preston Anderson, and is the first stop in North Dakota. The stay in Jamestown is limited to ten minutes and in Bismarck two hours and a half.

SCHEDULE OF STOP

Following is the schedule of the "White Ribbon" special.

Lv Chicago	12:00 pm, Sat. Oct. 12
Ar St. Paul	11:45 pm, "
Lv St. Paul	12:15 am, Mon. Oct. 14
Ar Valley City	9:15 am, "
Lv Valley City	10:00 am, "
Ar Jamestown	11:10 pm, "
Lv Jamestown	11:20 pm, "
Ar Bismarck	2:30 pm, "
Lv Bismarck	5:00 pm, "
Ar Livingston	9:00 am, Tues. Oct. 15
Lv Livingston	9:30 am, "
Ar Helena	2:00 pm, "
Lv Helena	4:30 pm, "
Ar Missoula	8:15 pm, "
Lv Missoula	11:30 pm, "
Ar Sandpoint	6:00 am, Wed. Oct. 16
Lv Sandpoint	11:00 am, "
Ar Spokane	1:30 pm, "
Lv Spokane	6:00 pm, "
Ar Seattle	8:00 pm, Thur. Oct. 17
Lv Seattle	3:00 pm, "
Ar Tacoma	4:15 pm, "
Lv Tacoma	11:45 pm, "
Ar Portland	5:00 am, Fri. Oct. 18

NORTHWESTERN BREVITIES

The Great Northern is making rapid progress with its new line through McKenzie county.

The thirty-first annual meeting of the Congregational conference is in session at Grand Forks. There is a big attendance.

Mrs. Samuel Tandy, colored, living in Fargo, shot her husband when she says he attacked her with a razor. He will live.

Next Sunday will be a big rally day of all the Sunday schools.

Fargo citizens set their heads on a city market and it looks as if they are going to get it.

Fred D. L. Squires, editor of the American Advance, prohibition paper, is touring the state.

CASTORIA For Infants and Children.

The Kind You Have Always Bought

Bears the Signature of *Wm. D. Galt*

Farmers' Congress At Industrial Fair

DISTINGUISHED SPEAKERS ON PROGRAM FOR DAY SET OUT FOR AGRICULTURISTS

Special to the Times-Record.

Bismarck, N. D., Sept. 27.—During the second annual North Dakota Industrial Exposition there will be held at Bismarck a congress of the Better Farming Association workers from all parts of the state. The congress will occur Thursday, Oct. 10. Northern Pacific Day, at which time President Elliot of the Northern Pacific and a large number of prominent Twin City bankers and business men will visit the mammoth land show. These are the men who helped finance the North Dakota Better Farming Association, and they will thus be enabled to hear what progress the association has made throughout the state during the summer months.

Prominent among the speakers at the congress will be B. G. Holden of Ames, Iowa, president of the Iowa State Agricultural Association; Dean J. H. Shepherd of the North Dakota Agricultural college, and O. D. Center, district supervisor of the North Dakota Better Farming Association. Many of the distinguished guests from the Twin Cities will also be on the program for informal addresses.

Better Farming Congress

The Better Farming Congress has been called by Thomas Cooper of Fargo, secretary of the Better Farming Association of North Dakota.

The Industrial Exposition will be full of events of interest from the very first moment the doors are thrown open to the public Tuesday morning, Oct. 1. Every day will be a special day, there will be something of interest and importance every moment.

Greatest Crop In History of State

Grand Forks, Sept. 27.—In view of the interest that is being taken in the probable yield of North Dakota's big crop this year's statistics compiled by the development bureau at Grand Forks are of special interest. The greatest wheat crop in North Dakota—prior to this year—was 97,000,000 bushels. This year the lowest estimate of authorities is 110,000,000 bushels and the highest 150,000,000. The latter figure is believed to be rather large and it is probable that 125,000,000 bushels will be nearer the correct figures. Last year the government reported that North Dakota had 9,150,000 acres of wheat. Regarding the acreage of this year there is quite a difference of opinion. Conservatively estimated however, it is believed that the government report will show a wheat acreage of close to 9,000,000 acres. The estimate of 125,000,000 bushel yield is based on an average of thirteen bushels which is conservative. In any event North Dakota has raised 25,000,000 and over more than any year in the history of the state.

"Builders of Barnes County" Out Soon

LOCAL MEN WILL PUBLISH HISTORY OF COUNTY AND MEN WHO HELPED MAKE IT.

I. J. Moe, in conjunction with L. P. Hyde have begun work on what will be the most pretentious history of Barnes county ever written, and probably the most complete history of any county in the state.

The work will be entitled "Builders of Barnes County," and will give a complete history of the pioneer days of this section of the state, and the men who aided in its building. A full page will be given to the biography of each of the old residents of the county, from the time of his birth down to the year 1912, making it a souvenir which will be treasured by hundreds of the families of the county.

Profusely illustrated, the book will be a work of art in every way. A heavy high grade book paper has been selected for it, the color India tint, while the binding will be in morocco leather.

Mr. Moe, who has charge of compiling the biographies, has already begun work, and in the neighborhood of 100 biographies are now in his hands. The editing of the work will take a number of weeks, and the press work will also take from one to three months. It is hoped to have the completed volumes from the press of the Times-Record about Feb. 1.

Just think of the big crops there will be next year if the rain continues storing water in the ground for another three weeks.

Subscribe to the Times-Record.

BIG \$150,000 CLAY PRODUCTS PLANT IS PRACTICALLY ASSURED

St. Paul Capitalists So Pleased With Result of Experiments That Plant May Be Started This Fall.

The big \$150,000 brick and tile works, with a payroll of \$200 a day, is now practically assured Valley City. S. L. Davidson, head of a group of St. Paul capitalists engaged in the manufacture of clay products, here on a second trip to investigate the clay banks near this city, admitted as much today.

"There is no better clay for the manufacture of pressed brick and tile any where in the world," said Mr. Davidson, "and we have found a bed of it sufficient to keep such a factory as we propose installing for hundreds of years, and then only make a dent in the hill. There is also an ideal building site adjoining it and it is practically settled that we will come to Valley City. We will probably know next week exactly what we shall do, but from present indications incorporation papers will be filed in North Dakota within the next few days and work on the plant will begin at once.

Will Begin Work at Once

"There will be no delay in construction work when the details are settled, as we want to have the plant

in operation at the earliest possible date. In all probability we could have the foundation work completed before freeze-up, or have the work well along by that time, at any rate. We would finish the work early in the spring and by that time have enough clay out and dried to start manufacturing brick and tile just as soon as the plant is finished."

Taking a small briquette made from a sample of clay obtained here last week, Mr. Davidson explained the fine texture of the material and its possibilities of manufacture.

Brick of All Colors

"That brick has not even been burned," said he, "and has not been under pressure. I simply patted it out with my hands. It is so hard that it is almost susceptible to polish. It is particularly adaptable for the manufacture of pressed brick because of its extremely light color. It can be made into any color of brick desired."

Samples were sent to the University of Iowa to be burned and undergo a physical test, but Mr. Davidson is sure the result will be as satisfactory as the earlier experiments.

Eleven Die Violent Deaths in Fortnight

There have been eleven violent deaths in the state within the last two weeks. They were:

Parker Sieeman, colored, murdered at Egeland.

Jonas Vatnsdal, former resident of Milton, killed by lightning.

Charles Weik, Willow City, killed while hunting.

Three-year-old child of Otto Broget of Walhalla, burned to death.

Four-year-old son of R. W. Spooner, killed when run over by heavy wagon.

I. L. Lockheart of Casselton, killed while performing duties as brakeman for Great Northern.

James Kappel of Bremen, committed suicide.

Editor J. B. Myers, Maxbass Monitor, shot himself.

Lyman Horner of Rolla, killed by threshing engine.

J. H. Ferguson, found dead in bed at Carrington hotel.

W. S. Osborne, Grand Forks brakeman, killed by train.

Threshing Machines Again Busy In Fields

TOMBSTONES FOR THOSE WHO WON'T WORK—THRESHING CREWS ARE OUT.

(From Monday's Daily)

"Load one of those tombstones," shouted Farmer J. W. Gray, as a wagon load of threshermen passed Dinnie Minogue's today. "You fellows have had a long rest and if any one is not ready for good, hard work I want a tombstone handy."

This is the spirit of the farmers today. "Improve the shining moments" is the motto. Millions of bushels of the golden yellow will be coined in to money in North Dakota. Attracted by the big wages, a better class of laborers will doubtless come from Wisconsin and Minnesota, and the work of threshing will proceed rapidly. How to spend the money will soon be the real problem of the farmers.

Shortage No Joke Says Local Fuel Man

EASTERN FUEL MEN ALREADY TURNING DOWN COAL ORDERS—SALESMEN THRU.

(From Monday's Daily)

"The shortage of fuel in the north-west this winter is no joke," said F. E. Osborne of the Peoples Fuel company this morning, discussing the prospects for securing hard coal in the next few weeks.

"The public has had this 'coal scare' talked to them a number of times before when there was very little behind it, but this time it is the real thing. Dealers, almost without exception are refusing orders for shipment, even on future delivery orders, and letters from them state that they are already oversold on their contracts."

Mr. Osborne received this morning a letter from a large wholesale dealer in Wisconsin, stating that the salesman who had been making this territory for the coal trade had been taken off the road as they were selling more coal than the companies could possibly supply for the winter.

It is not probable that there will be any very serious shortage of soft coal.

Expert On World Tour For Mandan Station

Special to the Times-Record.

Mandan, N. D., Sept. 30.—Frank N. Meyer, the federal agricultural explorer will leave Washington next week on a three year's tour of Russia, Siberia, Northern China, Manchuria and Korea, countries which are in the same latitude as North Dakota, and will secure specimens of every kind of plant life which he may think adapted to this section of the United States, and will ship them to Mandan. His trip is to be made almost exclusively for the benefit of the Mandan station and will cost the government in the neighborhood of \$25,000.

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