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Finding Aid to the Dickinson Sub-Extension Station Research Extension Center Records

Dickinson Sub-Extension Station Research Extension Center

Dickinson Sub-Extension Station Research Extension Center, Records, 1905-1991
19+ linear ft.

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OVERVIEW

Links: Finding Aid to the [Agricultural Experiment Station Annual Reports](#)

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HISTORY

In the *North Dakota Agricultural College Prospectus*, June 1891, under the section titled, Experiment Station, the following was written: "By act of Congress there is connected with the Agricultural College as a distinct department a Government Agricultural Experiment Station, receiving an annual appropriation of \$15,000 distinct from the income of the college; the institution as a whole being therefore provide with distinct funds for educational work and for investigation. Most member of the instructive force of the college are at the same time members of the station staff engaged in the work of investigation in the

several departments of agricultural science or practice.” (p.18) In his book *“Our purpose is to serve”* David Danbom noted that “one major addition to the Station that enhanced its ability to serve the state was substations.” (p.47)

The Dickinson Experiment Station was created to help the farmers of western North Dakota. The Legislative Assembly of 1905 created the station and also the mission. The station was founded near the town of Dickinson, North Dakota, which is located in Stark County. It was to be connected with NDAC and charged with finding suitable plants, grasses, and trees that would easily adapt to the region west of the Missouri River. This would produce better grasses, conduct crop experiments which would produce drought and rust resistant crops, and to find ways of improving and expanding farmers’ revenues.

The first Superintendent of the Dickinson Substation was Lawrence Root (L.R.) Waldron. L. R. Waldron was born October 20, 1875 near Ionia, Michigan in Ronald Township to David S. and Louisa (Root) Waldron. There he grew up and in 1896 matriculated at the North Dakota Agricultural College in Fargo where his brother C. B. Waldron was on the faculty. Upon graduation in 1899 he taught at the College for several years. In 1901 he continued his education at the University of Michigan where he received an M.A. degree in 1902. Waldron returned to the North Dakota Agricultural College where he became assistant botanist. In 1905 Waldron was appointed superintendent of the newly created Dickinson Experiment Station. He was successful in firmly establishing this new substation and did extensive research on grasses, alfalfa, and dry-land farming. In 1916 Waldron was transferred to the main Experiment Station on the NDAC campus and became a plant breeder, a position he held his entire career. In 1928 he received his PhD degree from Cornell University.

The following excerpt is from Waldron’s report to the Director of the Experiment Station in Fargo, who was also the President of the North Dakota Agricultural College, John H. Worst: “Sir – There is submitted herewith the first annual report of the Dickinson Sub-Experiment Station. The work during the first two years was almost wholly preliminary in character, but during the last biennial period the work has become more experimental. While the original idea in regard to the work of the station was to make grasses and forage plants almost the sole phrase of study, the phenomenal settlement of the western portion of the state has changed the original plan somewhat. While forage plants still receive prominent attention, much of the time and money is expended upon testing and breeding of cereals, the study of field and cropping methods, and the cultivation of fruits and trees.” (*First Annual Report of the Dickinson Sub-Experiment Station for the Year 1908*, p. 3)

“Today, the Dickinson Research Extension Center has a unique blend of staff and programs. Research and Extension staff include animal, crop and range scientists. Work at the Center focuses on these areas: Agronomy, Beef Systems, Biosecurity, Cropping Systems, Environmental Quality, Horticulture, Rangeland Systems, and Sustainable Agriculture. Over the years the Center has grown from the original 160 acres to the current 4,916 acres - 3,259 acres are at the ranch unit north of Dickinson where range and beef research is conducted.” Excerpted from the website: <http://www.ag.ndsu.nodak.edu/dickinso/> (April 2009)

SCOPE AND CONTEXT

The records consist of forty-eight series: the **Correspondence Series** (1905-1974); the **Memorandum Series** (1907-1934); the **Administrative Series** (1946-1953) contains all information about expenditures; the **General Report Series** (1906-1949); the **Monthly Report Series** (1951-1980) the **Annual Report Series** (1915-1984); the **Weather Record Series** (1925-1949); the **Special Observers Meteorological Record Series** (1911-1937); the **Soil Samples & Soil Moisture Series** (1926-1968); the **Climate Series** (1957-1973); the **Temperature Series** (1941-1970); the **Research Report Series** (1945-1991); the **Grain Quarterly Series** (1951-1967); the **Rotation & Tillage Series** (1908-1967); the **Soil Survey Series** (1959-1968); the **Crop Release Series** (1966-1978); the **Report of Cooperative Cereal Investigation Series** (1930-1950); the **Cereal Crops & Disease Series** (1933); the **Nursery Series** (1932-1947); the **Plots & Nursery Series** (1935-1947); the **Wild Oats Study Series** (1925-1930); the **Orchard & Ornamental Series** (1923-1942); the **Summary of Dry land Agriculture Series** (1940-1970); the **Planting Plan Series** (1949-1974); the **Corn Series** (1956-1984); the **Wheat Series** (1916-1971); the **Barley Series** (1940-1953); the **Oat Series** (1923-1931); the **Flax Series** (1948); the **Grass Series** (1907-1989); the **Small Grain & Crop Research Series** (1907-1989); the **Crop Field Day Series** (1970-1988); the **Quality Series** (1976-1979); the **Crop Production Trial & Experimental Series** (1968-1973); the **Cereal Crop Series** (1915-1990); the **Nursery Performance & Outline Series** (1948-1950); the **Livestock Series** (1945-1978); the **Plowing & Follow Method Series** (1924-1990); the **Conservation Series** (1936-1938); the **Forage Series** (1934-1985); the **Fertilizer Series** (1926-1990); the **Dickinson Sub-Station Report Series** (1913-1923); the **Agricultural Statistic & Fact Series** (1924-1980); the **Agronomy Series** (1946-1986); the **Fruit Production Series** (1948); the **Subject Series** (1911-1987); the **Press Books Series** (1905-1907); the **Cooperative Daily Memoranda Series** (1939-1946); and the **Photo Series** which consists of nineteen (19) sub-series.

The [Correspondence Series](#) (1905-1974) contains documents and letters between farmers and the Dickinson Experimental Station. Within this series are found concerns that the farmers had about certain seeds, responses regarding these concerns, and articles concerning specific seeds. Some seeds and wheat tops are found within the letters, for example 1935. Most of these letters are addressed to Ralph Smith and L. W. Waldron.

The [Memorandum Series](#) (1907-1934) shows all expenditures, in-house issues, and up-coming conferences or addresses.

The [Administrative Series](#) (1946-1953) contains information about expenditures.

The [General Report Series](#) (1906-1949) consists of a report on all information concerning weather, livestock, and crops. It lists the average mean for weather, the advances made with livestock, and the average yield for a specific crop. There are photos in this series, in particular 1938-1940.

The [Monthly Report Series](#) (1951-1980) consists of a summary of meeting minutes, publications listed, memos received, letters written, and lectures given.

The [Annual Report Series](#) (1915-1984) reports and documents a quick synopsis of the whole year. This covers all the different avenues of the Experimental Station. There is an average weather, an average yield for a particular crop, and livestock summary. It also lists any lectures given.

The [Weather Record Series](#) (1925-1949) classifies daily weather reports. This includes during the summer months from April till September, the temperature, wind velocity, precipitation, humidity, and rain fall. The records show the average mean for the week and the month. The average mean is also located within the annual reports.

The [Special Observers Meteorological Record Series](#) (1911-1937) consists of a daily check on temperature, precipitation, rainfall, wind velocity, and evaporation.

The [Soil Samples & Soil Moisture Series](#) (1926-1968) provides the average rainfall and soil moisture for the region. It also lists different methods of farming.

The [Climate Series](#) (1957-1970) contains an annual list of climate controls around the station. It lists temperature, rainfall, humidity, and evaporation. It also lists a summary of climate throughout the past decade. Information covers 1897 through the mid-1970s.

The [Temperature Series](#) (1941-1970) consists of a monthly check on the temperature and an average mean is produced.

The [Research Report Series](#) (1945-1991) provides a report on the various issues ranging from barley production, livestock investigations, wheat production, nursery plots and statistics, agronomy reports, and weather considerations.

The [Grain Quarterly Series](#) (1951-1967) are published documents regarding the United States issues as well as problems faced by farmers in the Midwestern states.

The [Rotation & Tillage Series](#) (1908-1967) contains information about the different effects of tilling, plowing, and planting. It gives advice about which type of planting should be used for which region.

The [Soil Survey Series](#) (1959-1968) consists of reports on the soil of west river region, conservation of soil, effects of tilling, and a twenty-five year comparison of rotation and grazing.

The [Crop Release Series](#) (1966-1978) is a list of small memos, reports, and letters sent to surrounding farmers about various subjects. Some of the letters contain agenda reports for the station, field days, harvesting techniques, and the conducting of various crops.

The [Report of Cooperative Cereal Investigation Series](#) (1930-1950) provides a report on a list of publications, climate considerations, experimental data, wheat, barley, oat, flax, and corn trials, and the surrounding plots and nurseries. This series contains photos.

The [Cereal Crops & Disease Series](#) (1933) consists of United States reports on the various diseases and crops available to farmers.

The [Nursery Series](#) (1932-1947) contains hard cover books on the various plots found with in the station. The books are divided up into columns. The columns represent the crops grown, the breed of the crop, the location of the crop, and the size of the crop throughout the growing program.

The [Plots & Nursery Series](#) (1935-1947) consists of books on the various plots of land. The books are broken up into columns representing the various crops, size, and location of the crop.

The [Wild Oats Study Series](#) (1925-1930) contains reports and pamphlets dealing with the wild oats and how they might infect a new crop.

The [Orchard & Ornamental Series](#) (1923-1942) provides a glimpse of the different fruit trees grown at the station and the resulting harvest of the fruit. A full summary along with pictures is located in the fruit production series. Some of the data in these books are located in this summary.

The [Summary of Dry land Agriculture Series](#) (1940-1970) contains a general summary compiling temperatures, crop varieties, plots and statistics, nursery, and planting plans. This series contains photos.

The [Planting Plan Series](#) (1949-1974) presents a report on the different crops grown at various plots around the station. The planting plans contain statistics and data about wheat, corn, flax, barley, and grass.

The [Corn Series](#) (1956-1984) contains articles about corn. It documents the different breeds of corn grown, the advantages and disadvantages to particular breeds, and which breed produced the most.

The [Wheat Series](#) (1916-1971) includes articles about wheat. The different breeds, in particular crested wheat, the advantages and disadvantages to the breeds, and which breed produced the most.

The [Barley Series](#) (1940-1953) contains articles written about barley. It contains lists of the different breeds of barley and which produced the most.

The [Oat Series](#) (1923-1931) consists of articles about oats. It lists the different breeds, the best way to harvest them, advantages and disadvantages to producing oats, and which breed produced the most. This series contains photos.

The [Flax Series](#) (1948) contains articles about flax. It lists the different breeds of the flax that was found most suited for the region.

The [Grass Series](#) (1907-1989) is comprised of articles about grass. It lists the best advantages for livestock, production of grass, and harvesting methods.

The [Small Grain & Crop Research Series](#) (1907-1989) provides a report on the research gained and presented in the nursery reports. It also examines the different cereal crops and makes claims to specific breeds. It is a detailed look at the different crops, size, shape, and the amount at harvest.

The [Crop Field Day Series](#) (1970-1988) consists of pamphlets, reports, and newsletters concerning local crops. It covers crops, livestock, and organization meetings.

The [Quality Series](#) (1976-1979) includes a small report on quality of crops and breed of crops grown at the station. It lists the downfalls to some of the crops whether it is not drought resistant or not rust resistant.

The [Crop Production Trial & Experimental Series](#) (1968-1973) provides a small report on the crop production and rotation of crops on soil. This lists the area, plots, and breed of crop grown on the plots. It shows the listing of what seed performed the best.

The [Cereal Crop Series](#) (1915-1990) contains information regarding cereal crops especially wheat and barley. It provides information as to the best breed grown and highest level of production.

The [Nursery Performance & Outline Series](#) (1948-1950) is an expanded report on the crop production trial and experimental series. It includes figures from past experiments and various new crops. The purpose of these reports is to show what seed or breed of crop is best suited for specific regions.

The [Plowing & Follow Method Series](#) (1924-1990) consists of a couple of pamphlets regarding plowing methods. There are photos documenting the soil erosion of the areas surrounding the Dickinson Experimental Station.

The [Conservation Series](#) (1936-1938) continues and supplements the reports found in the plowing and follow method series and the soil conservation series. These reports emphasize the need to rotate crops, make better use of irrigation systems, and the need to watch soil depletion and erosion.

The [Forage Series](#) (1934-1985) consists of just a couple of pamphlets on the local forage.

The [Fertilizer Series](#) (1926-1990) provides information to farmers about fertilizers. There is also a report on local fertilizers and the benefits for farmers.

The [Dickinson Sub-Station Report Series](#) (1913-1923) contains information regarding meeting minutes and the annual flier handed out to the local farmers.

The [Agricultural Statistic & Fact Series](#) (1924-1980) is a collaboration of majority of other series combined to form a report. This report takes the average mean of temperature, climate, rainfall, crops, and soil conservation and tallies it up to form an annual report. This lists the statistical information provided throughout the years.

The [Agromony Series](#) (1946-1986) consists of information regarding farming issues. All information is located in a couple of pamphlets.

The [Fruit Production Series](#) (1948) contains an extensive report regarding the fruit production in Dickinson. This report was broken down into four folders to make it more manageable. This series contains photos.

The [Subject Series](#) (1911-1987) contains numerous documents of general experiments, short letters about seed peddlers, summaries of cereal rust, pest control, discontinued grains, etc.

The [Press Books Series](#) (1905-1907) are two large books with correspondences. Duplicates may be found in the correspondence series.

The [Cooperative Daily Memoranda Series](#) (1939-1946) documents daily journal kept by employees regarding different plots.

The [Subject Series](#) includes scales, graphs, and data from the Pyrheliometer. This machine makes a graph to estimate the amount of sun that is reaching the plants and how it is being transmitted.

The [Photo Series](#) consists of the following sub-series:

The [Disaster sub-series](#) (1929-1938) contain photos dealing with a train wreck in 1929, the flood of 1938, winter storm damage, and soil erosion after drought of 1936.

The [Livestock sub-series](#) consist of photos dealing with cattle and hogs. It shows a prize-winning hog and a prize bull.

The [Waldron Series](#) (1905) contains photos of the Waldron family, friends, and workers. The first photo is taken in 1905 of his family.

The [Building sub-series](#) shows close ups of the buildings. These buildings include the barns, windmills, houses, and various appliances.

The [View of Dickinson Experimental Station sub-series](#) documents the surrounding area of the Dickinson Experimental Station. It shows the local buildings, trees, flowers, and some people.

The [Harvesting sub-series](#) consist of photos recording the various equipment used to harvest crops. Some specific crops include sunflowers, wheat, grass, oats, and flax.

The [Plots & Statistics sub-series](#) documents the various plots of land, how much the plot produced, what crops they produce, and when the crop was produced. The photos have been written on. At the bottom of the photos there are statistic numbers labeled with the crop. For further information about the statistics look in the statistic document series or the plots and nursery series.

The [Tree sub-series](#) contain photos regarding the evergreens grown around the Dickinson Experimental Station and the surrounding area. The photos also show the fruit trees grown in the area.

The [Bean & Potato sub-series](#) consist of close up photos of potatoes and beans. It documents the different breeds, size of the potato grown, and the plot it was grown in.

The [Wheat Series](#) documents various breeds of wheat grown. There are photos documenting the vast differences in size and shape of the wheat. There are several photos of crested wheat. Many photos document the different breeds of wheat close up. Also this series contains photos dealing with the harvesting of wheat.

The [Soybean sub-series](#) consist of a photo showing soybeans.

The [Rye sub-series](#) contain a photo documenting the different breeds of rye grown in various plots. The photo shows a difference in size and shape between the two breeds.

The [Alfalfa sub-series](#) document the different breeds of alfalfa grown in various plots. The photos depict the differences between two crops. The series also contains photos showing the harvesting of alfalfa.

The [Oat sub-series](#) consist of photos showing the different breeds grown in various plots. The photos document the differences found between different breeds. There are photos showing oats being harvested.

The [Flax sub-series](#) contain photos regarding the different breeds grown in various plots. The photos document a difference in size and shape of the crop. The photos also show flax being harvested.

The [Corn sub-series](#) consist of photos regarding different breeds of corn. The photos show a difference in size and shape of the corn plants. There are some photos dealing with the harvesting of corn.

[Grass sub-series](#) contain photos regarding the different plots planted for raising grass. The photos help show the different size, color, and look between different breeds of the crop. There are photos showing how grass was harvested and prepared.

[Subject sub-series](#) consist of persons unidentified, crops unidentified, and locations not corresponding with Dickinson.

[Dry lantern & Plate sub-series](#) contain 27 plates regarding the Dickinson Experimental Station, crops, and livestock.

BOX AND FOLDER LIST

BOX LISTING

Box 1

1/1 Finding aid

Correspondence Series

1/2 January-May 1905
 1/3 June-August 1905
 1/4 September-December 1905
 1/5 January-May 1906
 1/6 June-August 1906
 1/7 September-December 1906
 1/8 January-March 1907
 1/9 April-May 1907
 1/10 June-July 1907
 1/11 August-September 1907
 1/12 October –November 1907
 1/13 December 1907
 1/14 January 1908
 1/15 February 1908
 1/16 March 1908
 1/17 April 1908
 1/18 May-June 1908
 1/19 July-August 1908
 1/20 September-October 1908
 1/21 November-December 1908
 1/22 January-July 1909
 1/23 August-December 1909
 1/24 1927-December 1928
 1/25 January-March 1929
 1/26 April-June 1929
 1/27 July-September 1929
 1/28 October-December 1929

Box 2

2/1 January-March 1930
 2/2 April-May 1930
 2/3 June-August 1930
 2/4 September-December 1930
 2/5 January-March 1931
 2/6 April-June 1931
 2/7 July-September 1931
 2/8 October-December 1931
 2/9 Crested Wheat Correspondence 1931-1932
 2/10 January-March 1932
 2/11 April-June 1932

2/12 July-September 1932
2/13 October-December 1932
2/14 January-April 1933
2/15 May-August 1933
2/16 September-December 1933
2/17 Crested Wheat Correspondence January-June 1933
2/18 January-March 1934
2/19 April-July 1934
2/20 August-October 1934
2/21 November-December 1934
2/22 Crested Wheat Correspondence January 2-22, 1934
2/23 Crested Wheat Correspondence January 23-31, 1934
2/24 Crested Wheat Correspondence February 1-10, 1934
2/25 Crested Wheat Correspondence February 11-28, 1934

Box 3

3/1 Crested Wheat Correspondence March-April 1934
3/2 Crested Wheat Correspondence May-December 1934
3/3 January-March 1935
3/4 April-June 1935
3/5 July-September 1935 (seeds, wheat tops)
3/6 October-December 1935
3/7 Crested Wheat Correspondence January-July 1935
3/8 January-February 1937
3/9 March 1937
3/10 April-June 1937
3/11 July-September 1937
3/12 October-December 1937
3/13 Correspondence: Agricultural Conservation Office 1937
3/14 January-April 1938
3/15 May-August 1938
3/16 September-October 1938
3/17 November-December 1938
3/18 January-February 1939
3/19 March-May 1939
3/20 June-August 1939
3/21 September-October 1939
3/22 November-December 1939
3/23 1940
3/24 1941-1942
3/25 1943
3/26 1944
3/27 1945
3/28 Agricultural Conservation Office 1945

3/29 1946

Box 4

4/1 January-June 1947
 4/2 July-December 1947
 4/3 1948
 4/5 1949
 4/6 January-June 1950
 4/7 July-October 1950
 4/8 November 1950
 4/9 December 1950
 4/10 January 1951
 4/11 February 1951
 4/12 March 1951
 4/13 April 1951
 4/14 May 1951
 4/15 June 1951
 4/16 July 1951
 4/17 August 1951
 4/18 September 1951
 4/19 October 1951
 4/20 November 1951
 4/21 December 1951
 4/22 January-March 1952
 4/23 April-June 1952
 4/24 July-September 1952
 4/25 October-December 1952
 4/26 January-April 1953
 4/27 May-August 1953
 4/28 September-December 1953
 4/29 January-December 1954
 4/30 January-March 1955
 4/31 April-December 1955

Box 5

5/1 January-March 1956
 5/2 April-August 1956
 5/3 September-December 1956
 5/4 1957
 5/5 1974
 5/6 Wheat Correspondence
 5/7 Grain Cleaning November 1934- February 1935

Memorandum Series

5/8 1907-1924
 5/9 1933
 5/10 1934

Administrative Memo Series

5/11 January-June 1946
 5/12 July-December 1946
 5/13 1946
 5/14 1947
 5/15 1947
 5/16 1948, 1953
 5/17 Ralph Smith Expense Account 1934-1935

General Report Series

5/18 1906
 5/19 1908
 5/20 1911
 5/21 1912
 5/22 1913
 5/23 1914
 5/24 1916
 5/25 1917
 5/26 1918
 5/27 1919
 5/28 1920
 5/29 1921
 5/30 1922
 5/31 1923
 5/32 1924
 5/33 1925
 5/34 1928
 5/35 1929
 5/36 1930
 5/37 1931
 5/38 1932
 5/39 1933
 5/40 1934
 5/41 1935
 5/42 1937
 5/43 1938 (photos)
 5/44 1939 (photos)
 5/45 1940 (photos)
 5/46 Livestock Unit, Dry land Management 1945
 5/47 Livestock Unit, Dry land Management 1947
 5/48 Soil Management & Crop Production 1948 (photos)
 5/49 Dry land Management, Rotation & Tillage 1949 (photos)

Weekly Station Report 1936

Monthly Report Series

5/50	January-December 1951
5/51	January-December 1952 (missing April)
5/52	January-December 1953
5/53	January-December 1954
5/54	January-December 1955
5/55	January-December 1956
5/56	January-December 1957
5/57	January-December 1958
5/58	January-December 1959
5/59	January-December 1960
5/60	January-December 1961

Box 6

6/1	January-December 1962
6/2	January-December 1963
6/3	January-December 1964
6/4	January-December 1965
6/5	January-December 1966
6/6	January-December 1967
6/7	January-December 1968
6/8	January-December 1969
6/9	January-December 1970
6/10	January-December 1971
6/11	January-December 1976
6/12	January-December 1977
6/13	January-December 1978
6/14	January-December 1979
6/15	January-December 1980

Annual Report Series

6/16	1915
6/17	1926
6/18	1927
6/19	1949
6/20	1950
6/21	1951
6/22	1952
6/23	1962
6/24	1975
6/25	1976
6/26	1977
6/27	1981
6/28	1983
6/29	1984

Box 7

7/1 1985
 7/2 1985
 7/3 1986
 7/4 1987

Weather Record Series

7/5 April-September 1925
 7/6 December 1927
 7/7 January-December 1928
 7/8 January-December 1929
 7/9 January-December 1930
 7/10 January-December 1931
 7/11 January-December 1932
 7/12 January-December 1933
 7/13 January-December 1934
 7/14 January-November 1935
 7/15 January-December 1939
 7/16 January-December 1940
 7/17 January-December 1941
 7/18 January-December 1942
 7/19 January-December 1943
 7/20 January-December 1944
 7/21 January-December 1945
 7/22 January-December 1946
 7/23 Precipitation 1936
 7/24 Precipitation 1875-1949
 7/25 Temperature 1907-1949
 Wind Velocity 1918-1949
 Frost 1907-1949
 7/26 U.S. Department of Commerce, Weather Bureau; Evaporation &
 Cooperative Station May 1942- September 1943

Special Observers Meteorological Record Series

7/27 June-December 1911
 January-December 1912
 7/28 January-December 1915
 January-December 1916
 7/29 January-December 1917
 7/30 January-August 1918
 7/31 January-February 1920
 7/32 January-February 1921
 7/33 January 1931
 7/34 April 1937

Soil Samples & Soil Moisture Series

7/35 1926
 7/36 1927
 7/37 1929
 7/38 1930
 7/39 1931
 7/40 1968
 7/41 Soil Judging 1960
 7/42 Soil Depletion 1960

Climate Series

7/43 Agro-Climatologic of North Dakota, 1973
 7/44 Mean Monthly Air Temperature 1903-1970
 7/45 Climatological Summary 1897-1957, c. 1957

Temperature Series

7/46 Monthly Norms of Temperature 1941-1970
 7/47 Soil Temperature, Climate of the States, Weather & Climatic Information

Research Report Series

7/48 Livestock Research Roundup 1977, 1978, 1991
 7/49 Influence of Crop Rotation, Tillage & Other Soil Management Practices on the Chemical Properties of the Soil Mandan, ND 1945
 7/50 Hail Suppression 1966
 Simulated Hail Injury to Wheat & Flax 1964
 Effects of Hail Damage on Growth Yield 1968

Box 8

8/1 Report of Agronomic Investigations 1951
 8/2 Report of Cooperative Uniform Cereal Rust Observation 1955
 8/3 Report of Agronomic Investigations 1983
 8/4 Livestock Research Roundup 1957
 8/5 Livestock Research Roundup 1969, 1970
 8/6 Livestock Research Roundup 1971, 1972, 1973
 8/7 Livestock Research Roundup 1974, 1975, 1976
 8/8 Livestock Research Roundup 1986
 8/9 Western Spring Barley Nursery 1974, 1975, 1976
 8/10 Western Spring Barley Nursery 1976, 1977, 1978
 8/11 Western Spring Barley Nursery 1979, 1980
 8/12 Western Spring Barley Nursery 1981, 1982
 8/13 Western Spring Barley Nursery 1983
 8/14 Western Spring Barley Nursery 1985
 8/15 Western Spring Barley Nursery 1986, 1989
 8/16 Western 2-Row Barley Nursery & Rocky Mountain Barley Nursery 1973
 8/17 Malting Quality of Barley Varieties & Selection 1975
 8/18 Western Dakota: Crops Day Research 1985, 1987
 8/19 Cooperative Uniform Midseason Oat Performance Nursery 1988, 1989

Grain Quarterly Series

8/20 Winter 1951, Fall 1952, Summer 1953
 8/21 Summer, Winter 1955
 8/22 Spring-Winter 1956
 8/23 Spring, Fall, Winter 1958
 8/24 Spring 1960, Spring, Summer 1961
 8/25 Fall, Winter 1962
 8/26 Summer, Winter 1963
 8/27 Spring-Winter 1964
 8/28 Spring, Summer, Fall 1965
 8/29 Summer, Winter 1967

Box 9

Rotation & Tillage Report Series

9/1 Rotation & Tillage Report 1908-1950
 9/2 Rotation & Tillage Report 1952
 9/3 Rotation & Tillage Report 1953
 9/4 Rotation & Tillage Report 1954-1955
 9/5 Rotation & Tillage Report 1956
 9/6 Rotation & Tillage Report 1959-1967

Soil Survey Series

9/7 Soils of the West River Region 1959
 9/8 Soil Survey: Stark County ND 1968
 9/9 Great Plains Conservation Program
 9/10 Soil Conservation
 9/11 Effect of Tillage on Crop Yields
 9/12 Effects of Tillage, Plowing
 9/13 Contour Planting
 9/14 Terracing & Strip Cropping
 9/15 Twenty-Five year Comparison of Continuous Rotation & Grazing

Crop Release Series

9/16 1966
 9/17 1967
 9/18 1968
 9/19 1969
 9/20 1970
 9/21 1971
 9/22 1972
 9/23 1973
 9/24 1974
 9/25 1975
 9/26 1978

Report of Cooperative Cereal Investigation Series

9/27 1930
9/28 1931
9/29 1932
9/30 1933
9/31 1934
9/32 1935
9/33 1936
9/34 1937
9/35 1938
9/36 1939
9/37 1940
9/38 1941
9/39 1942
9/40 1943
9/41 1944
9/42 1945
9/43 1946
9/44 1947
9/45 1948
9/46 1948
9/47 1949 (photos)
9/48 1949 (photos)
9/49 1950
9/50 1950

Box 10

Cereal Crops & Diseases Series

10/1 U.S Department of Agriculture: Bureau of Plant Industry Cereal Crops & Diseases 1933

Nursery Series

10/2 Spring Nursery 1932
10/3 Nursery; 1936
10/4 Nursery; 1937
10/5 Nursery 1952
10/6 Spring Nursery, Smut Nursery 1934
10/7 Smut Nursery 1936-1937
10/8 Smut Nursery 1938-1939
10/9 Barley Nursery, Smut Nursery 1940
10/10 Winter Grain, Smut Nursery 1941
10/11 Winter Grain 1942
10/12 Smut Nursery 1943
10/13 Smut & Nursery 1945
10/14 Barley Section 1947, Smut Nursery 1946
10/15 Spring Plots, Winter Plots & Nursery 1932

10/16 Winter Plots & Nursery Spring Plots 1934
 10/17 Spring Nursery 1935

Plots & Nursery Series

10/18 1935-1937
 10/19 1938
 10/19 1939
 10/20 1940

Box 11

11/1 1941
 11/2 1942
 11/3 1943
 11/4 1944
 11/5 1945
 11/6 1946
 11/7 1947

Wild Oats Study Series

11/8 1925-1926
 11/9 1927
 11/10 1929-1930

Orchard & Ornamental Series

11/12 1923
 11/13 1924-1925
 11/14 1926-1928
 11/15 1932
 11/16 1948-1950
 11/17 Fruit Production 1938-1942

Summary of Dry Land Agriculture Series

11/18 1940-1947 (photos)
 11/19 1940-1947 (photos)
 11/20 1940-1947 (photos)
 11/21 1940-1947 (photos)

Planting Plan Series

11/22 1949
 11/23 Nursery & Varieties 1950
 11/24 Nursery & Varieties 1951
 11/25 Nursery & Varieties 1951

Box 12

12/1 Agronomy Farm 1952
12/2 Planting Plans & Projects 1952
12/3 1953
12/4 Planting Plans & Nursery 1954
12/5 1955
12/6 1956
12/7 1957
12/8 1958
12/9 1958
12/10 1959
12/11 1960
12/12 1961
12/13 1962
12/14 1963
12/15 1964
12/16 1964
12/17 1965
12/18 1965
12/19 1966
12/20 1967
12/21 1967
12/22 1968
12/23 1969
12/24 1969
12/25 Wheat, Oats, Barley, Flax 1969
12/26 1970
12/27 1970
12/28 1972
12/29 1972
12/30 1973
12/31 1974

Box 13

Corn Series

13/1 Hybrid Corn Field Trials 1956, 1960
13/2 Hybrid Corn Performance Testing 1984
13/3 Publication on Hybrid Corn
13/4 Corn Report
13/5 Corn for Silage
13/6 Seed Corn & Wheat Varieties
13/7 Hard Red Spring Wheat

Wheat Series

13/8 Hard Spring Wheat
13/9 Wheat & Durum
13/10 North Dakota Wheat 1916

13/11	Wild Buckwheat
13/12	Rushmore Wheat North Dakota
13/13	Light Weight Wheat
13/14	History of Mida Wheat & Some of its Offspring
13/15	Redman Wheat
13/16	Sick Wheat
13/17	Koda Wheat
13/18	Wheat Statistics North Dakota 1961
13/19	Report Wheat Drier 1937 (photos)
13/20	Crested Wheat
13/21	Crested Wheat: History Adaption & Importances
13/22	Yields of Spring Wheat Varieties 1932
13/23	Wheat Varieties
13/24	Breeding of Common Wheat 1916
13/25	Breeding of Common Wheat 1916
13/26	Spring Wheat Workshop 1967
13/27	Wheat Storage Investigation Report 1937
13/28	Trials with Winter Wheat in Southwest North Dakota
13/29	Winter Wheat 1971
13/30	Comparison of Winter Wheat 1932
13/31	Comparison Winter Wheat Varieties grown in Cooperative Nursery Experiments 1965-1966
13/32	Comparison Winter Wheat Varieties Grown in Cooperative Nursery Experiments 1967-1968
13/33	Comparison Winter Wheat Varieties Grown in Cooperative Nursery Experiments 1969-1971
13/34	Winter Wheat Report
13/35	Program Yields & Spring Wheat Samples 1957
13/36	Wheat Varieties & Nursery

Barley Series

13/37	European Malting Barley
13/38	Trebi Barley
13/39	Barley Varieties
13/40	Montcalm & Smooth-Owned Barley 1940, 1947
13/41	Canadian Barley Report 1953
13/42	Barley Improvement
13/43	Low Quality Barley Brought on By Disease
13/44	Moore Barley
13/45	Malting Barley
13/46	Kindred Barley
13/47	Barley Marketing
13/48	Barley Varieties

Oat Series

13/49	Oat Varieties & Which Oats to Grow
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13/50 Wild Oats (26 Photos)
13/51 Oats Report 1923-1931
13/52 Wild Oats

Flax Series

13/53 Flax Report
13/54 Flax Nursery 1948

Grass Series

13/55 Brome Grass Report
13/56 Winter Rye Report
13/57 Millet Report 1923-1931
13/58 Clover Report 1907-1916
13/59 Potato Report 1923-1931
13/60 Alfalfa Report 1923-1931
13/61 Pasture Report & Grass for Hay, Pasture, Soil Improvement
13/62 Soybean Testing 1984
13/63 Dry bean Performance Testing 1984
13/64 Potato Day 1967

Small Grain & Crop Research Series

13/65 Small Grain & Row Crop Research 1984-1986
13/67 Small Grain Varieties 1968
13/68 Small Grain Varieties 1987-1988
13/69 Small Grain Varieties 1988-1989
13/70 Field Report 1907-1918
13/71 Crops Field Day Release 1968

Crop Field Day Series

13/72 Annual Crop Field Day 1970
13/73 Crop Field Day 1971
13/74 Annual Crop Day 1987-1988
13/75 Annual Crop Day 1988

Quality Report Series

13/76 Quality Report 1976
13/77 Quality Report 1979

Box 14

Crop Production Trial & Experiment Series

14/1	1968
14/2	1969
14/3	1969-1970
14/4	1971
14/5	1972
14/6	1972
14/7	1972-1973
14/8	1972-1973
14/9	1972-1973
14/10	1973
14/11	Crop Variety Comparisons 1952, 1954
14/12	Crop Research 1930s
14/13	Yield Comparisons: Crops & Varieties 1928-1930

Cereal Crop Series

14/14	Cereal Grains 1915
14/15	Cereal Crop Report
14/16	Crops Day Research Report 1984-1986
14/17	Crops Day Research Report 1987-1989
14/18	Crops Day Research Report 1990

Nursery Performance & Outline Series

14/19	Nursery Performance
14/20	Cereal Nursery Outlines 1948
14/21	Cereal Nursery Outlines 1949
14/22	Cereal Nursery Outlines 1950
14/23	Cereal Nursery Outlines 1950

Livestock Series

14/24	North Dakota Crop & Livestock Statistics 1973, 1977, 1978
14/25	Livestock Report 1945
14/26	Livestock Report 1947
14/27	Progress Report on Roughage Trial
14/28	10 Commandments for More Profitable Cow-Calf Production 1968

Plowing & Fallow Method Series

14/29	Spring Plowing is better than Disking
14/30	Best Dates for First Tillage of Fallow
14/31	Comparison Between Plowless & Plowed Fallows 1924-1931
14/32	Methods of Summer Fallow

- 14/33 Summer Fallow Management 1990
- 14/34 Report on Shelterbelt & Ecology of Pinus Flexilis

Conservation Series

- 14/35 Conservation Program 1936
- 14/36 Correspondence with Soil Conservation 1936
- 14/37 Irrigation Publication
- 14/38 Soil Management Trip to Montana 1936
- 14/39 Grassed Waterway
- 14/40 Agriculture Conservation Program 1938

Forage Series

- 14/41 Forage Section II Report
- 14/42 Forage Crop Notes 1934
- 14/43 Publication on Forage Sorghum
- 14/44 Forage Crops 1985
- 14/45 Nitrogen & Carbon changes in the Great Plains Soils as Influenced by Cropping & Soil Treatment 1957
- 14/46 Common Trees & Shrubs: Shelterbelt
Flowers: Perennial & Wild
Horticulture Growth Weed Control

Fertilizer Series

- 14/47 Effect of 2, 4-D on Small Grains 1949
- 14/48 Phosphorus Fertilizer 1926
- 14/49 Weed Control: Leafy Spurge Perennial Sow Thistle, Grow Winter Rye
- 14/50 Nitrogen Fertilizer
- 14/51 Liquid Fertilizer
- 14/52 Elephant Brand Fertilizer
- 14/53 Fertilizer & its Uses
- 14/54 Affects of Fertilizer on the Soil 1990

Box 15

Dickinson Sub-Station Report Series

- 15/1 1913, 1914-1918
- 15/2 1919, 1920-1921, 1922-1923
- 15/3 1920-1921

Agricultural Statistics & Facts Series

- 15/4 Planting & Agricultural Statistics 1943
- 15/5 Agricultural Statistics (overlays & transparencies)
- 15/6 North Dakota Agricultural Statistics 1980
- 15/7 Agricultural Facts 1924, 1952
- 15/8 Agricultural Research 1945-1946

Agronomy

- 15/9 Agronomy Report 1946
- 15/10 Agronomy Research Program 1984
- 15/11 Agronomy new
- 15/12 Agronomy Seed Distribution 1983-1986

Fruit Production Series

- 15/13 1948 (25 photos & negatives)
- 15/14 1948 (9 photos & negatives)
- 15/15 1948 (54 photos & negatives)

Subject Series

- 15/16 General experiments 1932
- 15/17 Report on Seed Peddlers
- 15/18 Portable Shelter for Field Crossing
- 15/19 Vacuum Speeds Drill Cleaning
- 15/20 Woody Worley TV Program December 13
- 15/21 Survey of Opinion on Civil Defense
- 15/22 Geology of the South Unit of Theodore Roosevelt Nation Memorial Park
- 15/23 Program for Great Plains
- 15/24 Summary on Races & Biotypes of Cereal Rusts 1937
- 15/25 Report of Uniform Cereal rust Differentiating Nurseries 1932
- 15/26 Pest Control: Insect Pests, Grasshoppers
- 15/27 A Study of Bunt Resistance (seeds)
- 15/28 Report on Minerals
- 15/29 Plant hormones & Growth Regulating Substances 1968
- 15/30 Cooperative Project Agreement
- 15/31 Portable Pork Production 1987
- 15/32 Publication on Wild Bees & Beekeeping
- 15/33 Publication on Careers in Agriculture
- 15/34 Genetics Report by Ralph Smith 1916
- 15/35 Inventory of Government Property 1914
- 15/36 Transfer of Government Property 1939
- 15/37 Williston Experimental Station Report 1985, 1987
- 15/38 Harvester-Stacker Method of Harvesting Grain 1930
- 15/39 Perilla Oil

- 15/40 Factors Affecting Linseed Oil Quality 1933
- 15/41 Garrison Dam & Reservoir 1947-1949
- 15/42 Sod House Survey 1964
- 15/43 Heart River Watershed Land Utilization Study 1937
- 15/44 Press Articles 1931
- 15/45 Grain Varieties Discontinues 1911-1917
- 15/46 Growth Records of Wheat & Corn 1915
- 15/47 Growth Records of Corn 1927-1930
- 15/48 Publications 1933-1934
- 15/49 Uniform Durum Wheat Nurseries 1942
Correspondence with Cereal Crops & Production 1942 (photos)
- 15/50 Census Agriculture 1940
Acreage & Product Statistics
- 15/51 Crop Acreage & Production 1910-1929
Spring Wheat 1915-1924, 1926
- 15/52 Publications 1938
- 15/53 Publications 1940-1942
- 15/54 Delphi Study 1978

Box 16

Press Book Series

- 16/1 Press Book May 1905-1907
- 16/2 Press Book April-May 1907

Cooperatives Daily Memoranda Series

- 16/3 January-December 1939
- 16/4 January-December 1940
- 16/5 January-December 1941
- 16/6 January-December 1942
- 16/7 January-December 1943
- 16/8 January-December 1944
- 16/9 January-December 1945
- 16/10 January-December 1946

Box 17

Subject Series

- 17/1 Recording Pyrheliometer: Study of the Sun's Energy (graphs)
- 17/2 Recording Pyrheliometer: Study of the Sun's Energy
- 17/3 Leaf Development 1966
- 17/4 Effect of Supplemental Feeding on Reproductive Performance

17/5 Research Report: Reaction of 104 Selected Wheat Varieties to Individual Races of Stem
& Leaf Rust 1955

Photo Series

Box 1

1/1 Finding aid

Disaster Series

1/2 Soil Erosion (45 photos)
1/3 Storm Damage (16 photo & negatives)
1/4 Train Wreck (5 photos)
1/5 Flood 1938 (20 photos)

Livestock Series

1/6 Hogs (16 photos)
1/7 Cattle (21 photos)
1/8 Cattle (29 negatives)
1/9 Grasshoppers 1936, 1938 (22 photos)
1/10 Grasshoppers 1936, 1938 (17 negatives)

Waldron Series

1/11 Badlands Trip 1920 (3 photos)
1/12 Waldron Family & Friends (7 photos)
1/13 Miscellaneous People at the Dickinson Experimental Station (30 photos)
1/14 Miscellaneous People at the Dickinson Experimental Station (23 photos)
1/15 Miscellaneous People at the Dickinson Experimental Station (19 negatives)
1/16 Miscellaneous People at the Dickinson Experimental Station (54 photos)

Building Series

1/17 Buildings, Appliances & Surrounding Area (64 photos)
1/18 Buildings, Appliances & Surrounding Area (38 negatives)

View of Experimental Station Series

1/19 View of Experimental Station (58 photos)
1/20 View of Experimental Station (32 negatives)

Harvesting Series

1/21 Harvesting Machinery (35 negatives)
1/22 Harvesting Machinery (62 negatives)
1/23 Grasshopper Spreading Machine (17 photos & negatives)
1/24 Plowing (32 photos & negatives)

Plots & Statistic Series

1/25 Plots & Statistics (105 photos)
1/26 Plots & Statistics (17 negatives)

Tree Series

1/27 Trees (62 photos)
1/28 Trees (63 negatives)
1/29 Fruit Trees (11 photos)

Beans & Potatoes Series

1/30 Bean & Potatoes (32 photos)
1/31 Bean & Potatoes (70 negatives)

Wheat Series

1/32 Wheat (70 photos)
1/33 Wheat (70 photos)
1/34 Wheat (42 negatives)
1/35 Crested Wheat (33 photos)
1/36 Crested wheat (16 negatives)
1/37 Wheat, Corn, Oats (41 negatives)

Soybean Series

1/38 Soybean 1922 (1 photo)

Rye Series

1/39 Rye (12 photos & negatives)

Alfalfa Series

1/40 Alfalfa (40 photos)
1/41 Alfalfa (22 negatives)

Box 2

Oat Series

- 2/1 Oats (77 photos)
- 2/2 Oats (18 negatives)

Flax Series

- 2/3 Flax (45 photos)
- 2/4 Flax (28 negatives)

Corn Series

- 2/5 Corn (59 photos)
- 2/6 Corn (26 negatives)

Grass Series

- 2/7 Grass (53 photos & negatives)

Subject Series

- 2/8 Cereal Nursery 1949 (9 photos & negatives)
- 2/9 Roots (16 photos)
- 2/10 Postcards (3)
- 2/11 Sweet clover (30 photos & negatives)
- 2/12 Sunflower (20 photos & negatives)
- 2/13 Miscellaneous shots (33 photos & negatives)
- 2/14 Hemp 1929 (3 photos)
- 2/15 Kale, Carrots, Onions (5 photos)
- 2/16 Weeds (4 photos)
- 2/17 Bread Loafs (10 photos)

Dry & Lantern Plates (27)

Folio (6) BEX 64-D52