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Finding Aid to the H.L. Bolley Papers

Bolley, Henry Luke, 1865-1956

H.L. Bolley papers, 1889-1953

51 linear ft.

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OVERVIEW

Links: Finding Aid to the [H.L. Bolley Photograph Collection](#)
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BIOGRAPHY

Henry Luke Bolley was born February 1, 1865, in Manchester, Indiana, the youngest of twelve children of John B. Bolley and Mary Broad Bolley. He attended Purdue University at Lafayette, Indiana, where he received a Bachelor of Science degree in 1888. He served as assistant botanist of the Indiana Experiment Station and earned a Master of Science degree from Purdue in 1889. In the summer of 1890, the Board of Administration, on the recommendation of the newly selected president of the North Dakota Agricultural

College [NDAC], Dr. Horace E. Stockbridge, asked Bolley to join the fledging college as professor of botany and zoology and botanist of the North Dakota Agricultural Station. Bolley accepted, and officially began working at NDAC on October 15, 1890, to join the first faculty.

During his first winter at Fargo Bolley made the first pure cultures of the fungus *Oospora scabies*, which caused potato scab. In the spring of 1891, the first field plantings of treated scabby seed were made. The results were successful, and led to the publication of *Potato Scab and Possibilities of Prevention*. The corrosive sublimate treatment for potato scab became known around the world. It was also during that first year at the college that Bolley began to study the disease which was destroying the flax crop. Bolley described it as "flax wilt." He also began work on smut in wheat, oats, and barley.

Plant diseases were not Bolley's only interest. Human sanitation was also very important to him. From 1890 to 1896, Bolley published many bacteriological papers dealing with the purity of water supplies, milk, and other farm products. In 1897, Professor Bolley published a serum method of diagnosing typhoid fever in the *Journal of Comparative Medicine and Veterinary Science*.

H.L. Bolley's love of nature, sports, and the outdoors led to an early interest in hunting, fishing, baseball and football. While at Purdue Bolley developed a keen interest in football, which was a very new sport at the time. He helped organize the first team at Purdue. In 1890, he organized a team at the North Dakota Agricultural College and challenged the University of North Dakota team to two games in 1893. Bolley coached the team for several years and remained interested in it even after regular coaches were hired. The competition between the two schools continues today, and is one of the longest running rivalries in college athletics.

It was during these early years at the college that Bolley met Frances Barnett Sheldon, daughter of Alfred Sheldon of Janesville, Wisconsin. After graduating with a degree in Greek Studies from Oberlin College, she was hired as a lady principal at the Fargo College in 1893. Shortly after arriving in Fargo she met Professor Bolley, and they married on September 23, 1896. The Bolleys had two children, Don and Ann.

Mrs. Bolley was very active in educational and civic functions. She served on the board of the public library, board of education, board of directors of the Florence Crittenton home, and the community chest. Mrs. Bolley was particularly active in the Fine Arts Club of Fargo. She joined the club at the time of its organization and served as chairwoman of the program committee for many years. In 1924 she was elected President of the club and twice re-elected. During her tenure as president the club grew and progressed. In 1926 she organized the history section of which she served as chairwoman for many years. Also of vital interest to the club was her suggestion that the club incorporate to place it on a sound financial basis. This led to acquisition of a club house for women in Fargo. She later served as a member of the executive board of the club.

Professor Bolley was a firm believer in the principle of survival of the fittest. After coming to North Dakota he became convinced that the so-called flax-sick land was not sick in the sense that it was overcropped, but due to a parasitic disease in the soil. Bolley believed that the way to control the disease was to develop resistant plants through breeding. He arranged with the agricultural department of the

college to turn over an area of land which could be made flax-sick. The area was called "Plot 30", and Bolley immediately began testing his theory.

Bolley soon discovered that even on the most wilt-ridden areas of lands some scraggly plants survived. After a careful process of selection and continuous cropping on the same flax-sick lands, Bolley and his assistants were able to develop varieties which could survive. After nearly nine years of investigations Bolley proved the land had not lost its fertility, but was infected by seed-born germs of the fungus known as *Fusarium lini*. In 1901 he published Bulletin 50, describing the fungus as the cause of flax wilt.

As a result of his pioneering work, the North Dakota Agricultural College and the United States Department of Agriculture jointly funded a trip to allow Bolley to survey flax cropping in Europe. He spent the summer of 1903 in the chief flax growing areas of Holland, Belgium, Northern Germany, and Russia, observing the crops and obtaining samples. It was in Russia that Bolley met Dr. Arthur Jaczewski, one of the most important plant pathologists in Europe. Dr. Jaczewski directed Bolley to the oldest areas of flax production in Russia, where he gathered seeds from the few plants that survived.

These lots of seed were planted on flax-sick soil, where many of the selections produced a considerable number of plants which survived. Bulletin 55, along with other publications published in 1905, demonstrated the possibility of procuring wilt resistant varieties through breeding and selection. After ten or twelve years of persistent effort, Plot 30 began to produce an almost perfect flax crop. Due largely to his efforts, North Dakota became a major flax producing state.

Professor Bolley also made extensive studies of rusts and smuts of cereal grains. In 1893 he proposed the formaldehyde method of seed disinfection for the prevention of oat smut. By observation and trial, he quickly discovered that this treatment could be applied to practically all kinds of seed. In 1899 he published his results in Bulletin 27. The treatment became very popular and saved farmers many thousands of dollars from losses due to diseased seed.

Flax, potatoes, and oats were not the only crops suffering from disease when Bolley arrived in North Dakota. Wheat was suffering from black stem rust, and he applied the tactics of "selective breeding" once again. In 1896 he planted wheat among rows of barberry bushes which contained rust spores. The results were very destructive. Only certain varieties of red durum and one variety of bread wheat, which were brought from Russia in 1903, survived. The destruction from the barberry bushes emphasized the importance of breeding and selecting cereals for rust resistance. It also brought about the enactment of the first state law authorizing destruction of barberry bushes on public and private properties in 1916.

Because of his extended experience in seed studies he began very early in his career advocating a pure seed law and pure seed laboratory. Farmers particularly wanted reliable germination tests for their seeds to determine if the seeds were suitable for crop use. As Dean of the Department of Botany and Biology, Bolley and his assistants were the most reliable people to undertake such testing. In 1907 Bolley began campaigning for a pure seed law, and in 1909 the State Legislature passed the law as it was written by Bolley himself. He served as State Seed Commissioner from 1909 to 1929. During this time the Pure Seed Laboratory determined varieties, authorized field and bin inspections, and issued tags certifying seed

for sale. The sale of certified potatoes and seed stock in the United States, and in foreign countries, became one of the state's leading industries.

Bolley was one of the earliest experimenters in the eradication of weeds in cereal grain fields by means of chemical sprays. Although some chemicals were already used to kill weeds and grasses, Bolley believed the Experiment Station should investigate whether chemicals of a sufficient strength could destroy the weeds but not injure cereal grains and beneficial grasses. He believed a traction sprayer could be driven over the fields to destroy the weeds. Experiments initiated in 1896 were so successful that many states and European countries quickly began spraying for weeds to increase production. Bolley also corresponded with many manufacturers to help them develop suitable machinery to undertake the work.

Professor Bolley's discoveries were not always pleasing to everyone. His discovery of flax-sick and wheat-sick soils angered the land speculators and railroads who were making large sums of money off new farmers. To protect their interests, a group of bankers and businessmen formed the Better Farming Association to counteract Bolley, and others, at the Agricultural College. In 1913 Thomas Cooper, Directory of the Better Farming Association, joined the Agricultural College, and was given control of the experiment station and extension division. Bolley was quickly locked out of his laboratories and relieved of research money. He was charged with unscientific conduct and investigated by a faculty committee in 1916. He continually fought and denied all charges until he was finally exonerated.

After being relieved as State Seed Commissioner in 1929, Bolley was granted a leave of absence in 1930 to study flax cropping in Argentina. Bolley was accompanied by Mrs. Bolley and their daughter Ann. Tragedy struck the Bolley family while visiting a museum in Buenos Aires. Mrs. Bolley suffered two paralytic strokes on August 13 and 16, and died on August 19, 1930. Bolley and daughter Ann returned with the body. Mrs. Bolley was interred in the mausoleum at Riverside Cemetery in Fargo.

In 1931 Bolley returned to Argentina, and obtained new samples of flax to continue his studies. His observations of the Argentine trip were published in Bulletin 253 in 1932. Upon his return to America Bolley married Emily Knight Sheldon, on August 1, 1931, daughter of Godfrey Knight and sister-in-law of Frances Sheldon. Emily had two daughters, Lorissa and Therese (Mrs. J.W. Ansenberger). The second Mrs. Bolley died March 8, 1944.

Professor Bolley continued teaching and conducting research until his retirement in 1945. In recognition for years of research and service he was awarded an honorary Doctor of Science degree from Purdue University in 1938, and a Doctor of Science degree from the North Dakota Agricultural College in 1939. Henry Luke Bolley died November 10, 1956 at the age of 91. He was interred at the Riverside Cemetery mausoleum near his first wife Frances.

Bolley was a member of numerous organizations including the American Botanical Society, Indiana Academy of Science, North Dakota Academy of Science, Honorary member of the British Association for the Advancement of Science, American Society of Agronomy, American Society of Phytopathology, Fargo Commons Club, 32nd Degree Mason, American Association for the Promotion of Agricultural Science, and the American Association for the Advancement of Science. He was a contributor to the

Journal of the American Society of Agronomy, the American Journal of Botany, and various other scientific and agricultural publications.

SCOPE AND CONTENTS

The provenance of the Henry Luke Bolley papers show they were saved from destruction literally at the last minute. In the early 1960s, Professor Orin A. Stevens spotted some boxes on the loading dock of Minard Hall due for disposal in the Fargo landfill. After quickly realizing they were Bolley's papers and their value, Stevens contacted the Institute for Regional Studies director. The boxes were immediately brought to the Institute in the Library. About 1973, during the tenure of Institute archivist Bill G. Reid, an inventory of the collection was begun. The collection remained unprocessed until May 1990, when final processing began and was completed in July 1991.

The Henry Luke Bolley papers consist of correspondence during his tenure as the first Botanist, Plant Pathologist, and Biologist at the North Dakota Agricultural College, and the first North Dakota State Seed Commissioner. The papers also contain personal correspondence, articles, speeches, notebooks, and notecards relating to a wide variety of subjects. The collection is arranged alphabetically and chronologically.

The [Personal Papers Series](#) contains biographical material and personal correspondence relating to his family, friends, and career. Of particular importance is correspondence with his son Don, and extensive correspondence with former teachers at Purdue University, including Joseph C. Arthur, and Stanley Coulter. Bolley also corresponded for many years with former students Merton Field and Daniel Glomset, who went on to successful careers themselves. Also of interest are letters from such dignitaries as Franklin D. Roosevelt, Luther Burbank, Herbert Hoover, Upton Sinclair, and Thomas Edison. A biographical sketch by Harlow L. Walster surveying Bolley's professional career is included also.

The [N.D.A.C. Series](#) contains administrative correspondence with the presidents of the college and faculty, and matters relating to the Department of Botany. The administrative correspondence sub-series includes letters with the early presidents of the college, including John H. Worst, who Bolley corresponded with most of their lives. The letters with director Thomas P. Cooper and Perry F. Trowbridge illustrate the difficulty Bolley had with controlling his own research. The heresy trial sub-series contains the results of that attempted control, and Bolley's ultimate triumph. The football sub-series contains interesting correspondence relating to the establishment and development of the sport at the college, which continues to be a proud tradition today. The general topics sub-series consists of correspondence relating to a wide variety of subjects. It contains Bolley's view on such matters as capital punishment, conservation, control of diseases and insects, racial development, spiritual healing, and war. There is extensive correspondence regarding his membership in various national and state professional organizations, in which Bolley took an active role.

The [Pure Seed Laboratory Series](#) consists of general correspondence regarding his duties as the first State Seed Commissioner. Of particular importance in this series is the correspondence relating to the

development and enactment of the first pure seed law in the nation. The sub-series covering various crops each contain important information covering the development of each crop. Included is correspondence relating to analysis, cropping, disease control, and ultimate certification of the important crops of the state and the nation. The weeds sub-series includes correspondence with chemical companies and machinery manufacturers regarding the eradication of weeds by mechanical application. There is also correspondence concerning the development of the North Dakota Improved Seed Growers' Association.

The [Flax Series](#) consists of general correspondence with various companies and individuals regarding the development of flax as a crop in North Dakota, the United States, and the World. Of particular importance is correspondence with the American Linseed Company, Archer-Daniels-Midland Company, and the Sherwin-Williams Company. Important individual correspondence includes letters to and from Dimitry N. Borodin, Lyster H. Dewey, A.C. Dillman, George B. Heckel, Zed E. Martin, E.J. Mitchell, Leo P. Nemzek, Charles T. Nolan, and Milburn L. Wilson. The series contains many reports dealing with Bolley's flax investigations, including disease control and wilt tests, and crossing experiments. Other sub-series deal with the use of flax fiber for paper, tow, and straw. The international correspondence sub-series includes letters from Japan, Ireland and other European countries. The Russia sub-series contains important items regarding his trip in 1903 to study flax culture. Among them are his letters expressing his desire to study abroad, an outline of his investigation, and personal correspondence with Professor Arthur A. Jaczewski. Another important sub-series concerns his trip to South America in 1930-31. Of special importance here are his numerous letters of contacts, and especially his record books, which are essentially diaries covering his trip. The varieties sub-series includes correspondence relating to the many varieties of flax developed by Bolley.

The [Potatoes Series](#) contains correspondence relating to diseases and treatments of potatoes, general correspondence concerning cropping, inspecting, grading, certification laws and tagging. General correspondence includes important letters to various states regarding certification laws, and the development of various potato associations in North Dakota. There is extensive correspondence with George L. Tiebout of Louisiana, regarding a tour to discuss certification and control of grading potatoes for interstate shipment. The disease and treatment sub-series contains extensive correspondence relating to Bolley's early experiment with scab, and other diseases, and the treatments which he originated.

The [Publications, Speeches Series](#) consists of copies of most of Bolley's articles, speeches, radio speeches, and newspaper articles. Of particular importance are his Master's Thesis and a complete bibliography of his work, compiled by Harlow L. Walster. There are numerous articles covering topics ranging from bacteria to wheat. Important ones include 50 Years of Botanical Investigations Under North Dakota Cropping Conditions, Outline of European Travels During the Summer and Autumn of 1903, and Barberry Eradication-History of in America. Also of interest are various articles about Bolley and his work, and the early college bulletins and circulars by Bolley describing his investigations and results. The speeches sub-series contains radio talks and speeches relating to a wide range of subjects from bacteria to wheat.

The [Wheat Series](#) consists of a general correspondence sub-series containing letters to M.A. Carleton of the U.S.D.A., the Perth Amboy Chemical Works, Pillsbury Flour Mills Company, and the Quaker Oats Company. Extensive correspondence deals with cropping, experiments, fertilizer use, formaldehyde

treatment, grain grading, root diseases, rusts and smuts. There is also extensive correspondence concerning the development of varieties, ergot, and plant disease survey. The barberry eradication sub-series covers Bolley's role in the discovery of the cause of stem rust and subsequent national campaign to eliminate the barberry bush. The reports covering eradication progress are quite extensive and informative.

The [Notebook Series](#) contains field notebooks with experiments and plant origins, and acquired character studies throughout his career. The series also contains records of expenditures in the early days of the Agricultural College, the herbarium, and general topics.

The [Notecard Series](#) contains notecards on which Bolley frequently made notes, comments, or explanations on almost all topics and personalities contained in the entire collection. Topics include flax, potatoes, seed, soil, college staff, and wheat.

The [Broadsides Collection](#) consists of many oversized personal items of Bolley's, including a Russian menu from 1903, his letter of introduction by the Department of Agriculture in 1903, and the testimonial to Bolley and Plot 30 by Arthur E. Dillman of the U.S.D.A. from 1936. The experiment station file contains many topical posters such as the formaldehyde treatment for controlling crop diseases, controlling the stinking smut of wheat, Pure Seed Laboratory posters, announcements for Farmers' Institutes, and control of sow thistle. The general topics file contains fair posters, seed posters and blueprints for a Vulcan threshing machine. The barberry eradication file contains posters regarding the eradication of the barberry bush to save the wheat crop, and a map of the eradication progress in 1919.

The potato tour file consists of posters announcing potato inspection tours in various states.

SEPARATION RECORD

The following non-manuscript items were removed from the Henry Luke Bolley Papers and placed in the section indicated.

Ephemera: (NDSU Ephemera Collection) – NDSU-EX - Listing of Bolley's Ephemera located at end of finding aid

Broadsides: (Institute broadside collection)

Maps: (Institute map collection)

53 County and state maps

BOX AND FOLDER LISTING

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- 1/4 By Harlow L. Walster
- 1/5 Early history of N.D.A.C.
- 1/6 Genealogy correspondence, 1932, 1937-1941
- 1/7 "Plot 30" testimonial, 1936

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- 2/2 Bolley, Frances and Emily, 1903, 1909, 1932
- 2/3 Bust, 1943-1944
- 2/4 Christmas greetings, 1933-1935
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- 2/9 Private, job related, 1909

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- 2/12 Rice, Elizabeth, 1908-1909
- 3/1 Ansenberger, John, 1929-1942
- 3/2 Arthur, Joseph C., 1891-1942
- 3/3 Coulter, Stanley, 1900-1943
- 3/4 Darling, Charles, 1918-1944
- 3/5 Edison, Thomas, 1927
- 3/6 Field, Merton, 1901-1944
- 3/7 Galloway, H.H. (Mrs.)
- 3/8 Glomset, Daniel G., 1918-1937
- 3/9 Hagan, Martin S., 1914-1919
- 3/10 Helgeson, H.T., 1913-1916
- 3/11 Hoover, Herbert, et al., August, 1917-January, 1918
- 3/12 Jones, Lewis R., 1910-1944

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3/14 Manns, Thomas F., 1901-1937
3/15 Phelan, J.E., 1902-1912
3/16 Redfield, Casper L., 1923-1926
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3/19 Sayre, Rockwell, 1913-1929
3/20 Sinclair, Upton, 1922-1923
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5/7 Olson, Peter J., 1929-1937
5/8 Hanson, Herbert C., 1931-1939

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6/2 1911, "When Land is Wheat-sick"

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6/3 1911-1914, Beginning of the controversy
6/4 1915-1917, State Board of Regents
6/5 1915-1916, Hearing of

6/6 1916, Charges against Bolley, by William Mercer, David G. Milbrath
6/7 1916, Bolley's answer to charges
6/8 1916, Hearing statements
6/9 1916, H.L. Bolley's notes during trial
6/10 1916, Correspondence in support of H.L. Bolley
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7/11 Haigh, Thomas A., 1902-1904
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7/22 Miller, Cap E., "Studies in Farm Tenancy in North Dakota By Counties," 1936
7/23 Miller, George Edwin, 1911-1919
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 13/18 Letters from farmers regarding co-operative and extension work conducted by
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16/8 Bolley, H.L., April 1906-December 1906; 1909, 1914-1942
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20/18	Society for the Promotion of Agricultural Science, 1899-1917
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23/18	"The Seed Trade Reporting Letter," January 5, February 5, 1914
23/19	Seed verification in North Dakota
23/20	Seed wanted list, 1919
23/21	<u>The Seed World</u> , 1922-1926
23/22	State Advisory Seed Board meeting minutes, 1929
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26/9	Directions for field inspecting agents, 1911-1913
26/10	Fields inspected, 1914
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26/12	Hooper, Sidney, 1915
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26/15	Mercer, William H., 1913
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28/9	<u>Alfalfa Field Registration</u> , December 26, 1916-October 19, 1927
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- 56/2 Origins
- 56/3 Primost, general correspondence, 1905-1921

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- 56/4 1901-1911
- 56/5 1912-1916
- 56/6 1917-1943

- 56/7 Rio, 1935, 1937, 1943
- 56/8 Victory, 1943, 1947
- 56/9 Viking, 1939-1941

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General Correspondence Subseries

56/10 Baldwin, Jeffrey, 1928-1929
 56/11 Benton, A.H., 1923-1924
 56/12 Bin inspection, 1923-1928
 56/13 Certificates of registration issued, 1921-1922, 1925-1928
 56/14 "Certified Seed Potato Production in the United States and Canada," 1919-1923
 56/15 Conference on potato diseases, 1920
 56/16 Couey, Worth G., 1923-1930
 57/1 Cropping, 1912-1929
 57/2 Dean-Osking Co., 1926-1929
 57/3 Dennison Manufacturing Co., 1927
 57/4 Dworak, Mayme, 1925

Field inspection reports

57/5 Couey, Worth G., reports, 1922-1928
 57/6 Directions
 57/7 General correspondence, 1917-1928
 57/8 Long, Harry D., 1926-1930

57/9 General correspondence, 1904-1925
 57/10 General correspondence, 1926-1946
 57/11 Grades, directions for inspectors, 1922-1929
 57/12 Grading measurement
 57/13 Hall, R.F., 1928-1929
 57/14 Hastings, Horace C., 1929
 58/1 Indiana report on North Dakota potatoes, 1923
 58/2 Louisiana potato tour, 1924, 1925, 1928
 58/3 Louisiana State University experiments, 1923-1925
 58/4 Melaas, G.H., 1928-1929
 58/5 Melchers, L.E., 1923-1925
 58/6 Minnesota potato tour, 1924, 1925
 58/7 Missouri, 1924
 58/8 Montana, 1927-1929
 58/9 National Potato Committee Report, 1928
 58/10 Nebraska, 1923, 1924
 58/11 North Dakota Farm Bureau Potato Exchange, by-laws, 1924
 58/12 North Dakota Potato Growers Association, 1915-1916
 58/13 O.J. Barnes Co., 1926-1930
 58/14 Pennsylvania, 1924-1929
 58/15 Potato Association of America, N.D. members

58/16 Potato associations in North Dakota, 1923
 58/17 Pure seed laboratory
 58/18 Russets, 1923-1924
 58/19 Seed, general correspondence, 1915-1929
 58/20 Seed lists, 1924, 1927-1928
 58/21 Soo Line Tour, 1923, 1927-1928
 58/22 Southern states triumph seed potato pool, 1927, 1928
 58/23 Storage and certification questionnaire, 1928
 58/24 Tagging, 1922
 58/25 Tests in the South 1923-1928
 58/26 Texas, 1923-1928
 59/1 Tiebout, George L., 1922-1929
 59/2 Tours, general correspondence, 1920, 1924-1929
 59/3 Transfer, 1928
 59/4 Utah grades, 1925
 59/5 Utilization of the Potato, H.C. Gore, 1923
 59/6 Werner, H.O., 1924-1929
 59/7 Wilson, E.A., 1924

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59/8 Certification lists, 1923, 1927, 1929
 59/9 Early Ohio certification, 1912, 1919-1928

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59/10 1916-1922
 59/11 1923-1925
 59/12 1926-1929

 60/1 Green Mountain, 1922-1928
 60/2 Irish Cobblers, 1919-1929
 60/3 Seed plot and certification of potato seed stocks, 1918, 1925
 60/4 Potato Improvement and Certification, 1927
 60/5 Triumphs, 1919-1929

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60/6 Black leg, 1922
 60/7 Bordeaux mixtures, 1915, 1924
 60/8 Disease control projects, 1921-1925
 60/9 General correspondence, 1905-1920
 60/10 General correspondence, 1921-1936
 60/11 Hot formaldehyde treatment, 1922-1924

- 61/1 Scab disease and treatments, 1891-1921
- 61/2 Scab disease and treatments, 1921-1929
- 61/3 Semesan Bel treatment, 1923-1929
- 61/4 Tobacco by-products, 1928

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- 61/5 Albert Miller & Co., 1923-1928
- 61/6 Bonded warehouses, Senate Bill No. 10 (N.D.), 1927
- 61/7 General correspondence, 1919, 1925-1919
- 61/8 Complaints ("Kicks"), general correspondence, 1923-March 1929
- 61/9 Complaints ("Kicks"), general correspondence, April 1928-Dec. 1929
- 61/10 Grades and Inspection Acts, 1928, 1929
- 61/11 Grades act, general correspondence, 1918-1929
- 61/12 Kitchen, Joseph A., 1928-1929
- 61/13 Michigan Potato Grades Act, 1929
- 62/1 Nebraska laws, 1925-1929
- 62/2 Report of Committee On Investigation of Complaints Against Potato Selling Agencies, March 1922
- 62/3 Shafer, George, 1925
- 62/4 Stenhjem, G.A., 1928-1929
- 62/5 Stenmo, O.T., 1925
- 62/6 Tolaas, A.G., Minnesota laws, 1925-1929
- 62/7 U.S.D.A. Grades and Regulations, 1916-1929
- 62/8 Warehouses, 1923-1927
- 62/9 Warren Potato Bill, 1935
- 62/10 Wheeler-Rytter potatoes, 1924-1925
- 62/11 Wisconsin grades, 1927

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- 62/12 Bulletin 253, checklist
- 62/13 Bulletins, general correspondence, 1931-1932
- 62/14 General correspondence, 1900-1943
- 62/15 Newspaper lists, 1917-1918, 1923
- 62/16 Photographs, general correspondence, 1905-1941

Articles by Bolley Subseries

- 62/17 Abstracts, 1895-1936
- 62/18 Bacteria, no date
- 62/19 Bibliography of Henry Luke Bolley, compiled 1937

- 63/1 Bibliography, plant diseases
 63/2 Bibliography; special articles, circulars, letters
 63/3 Bolley, Henry Luke- Master's thesis, Purdue bulletins, 1889
 63/4 Crop rotation, 1912
 63/5 Diseases of farm crops, 1906-1909
 63/6 Enemies to farm crops, 1908
 63/7 Evolution, 1893-1912
 63/8 50 Years of Botanical Investigation Under North Dakota Cropping Conditions
 63/9 Flax cropping, 1909-1939
 63/10 Flax, general, 1901-1940
 63/11 Flax oil content, 1934-1939
 63/12 Flax seed, 1919-1937
 63/13 Flax, South America 1923-1931
 63/14 Flax, unpublished manuscript, no date
 63/15 General, 1908-1931
 64/1 North Dakota plants
 64/2 Official Field Crop Inspection, 1919
 64/3 Outline of European Travels During the Summer and Autumn of 1903
 64/4 Pasturage and forage
 64/5 Plant diseases, 1898-1936
 64/6 Potatoes, 1893-1941
 64/7 A Preliminary Report Upon the Relation of the Time of Seeding and Period of
 Development to the Development of Rusts and Smuts in Oats, 1896
 64/8 The Production of Mustard Seed, 1936
 64/9 Seed, 1896-1952
 64/10 Soils, 1910-1918
 64/11 Some Features of Plant Growth, 1895
 64/12 Trees, 1909
 64/13 Typhoid Bacillus and Water Sanitation, 1894-1911
 64/14 Weeds, 1906-1911, 1950
 64/15 Wheat, Barberry Eradication - History of in America, 1926
 64/16 Wheat, 1890-1939

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- 65/1 Articles about Henry Luke Bolley
 65/2 Comparative Analysis of Sweet Clover, by Astri Frisak
 65/3 Flax articles not by H.L. Bolley, 1913-1941
 65/4 Flax pamphlets, 1910-1942
 65/5 Giving Medicine to Trees, by Robert Franklin, 1906
 65/6 Investigation of Timothy Rust in North Dakota During 1913,
 by William H. Mercer
 65/7 Lunell, Dr. Joel, biography, 1920

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67/6 Flax
67/7 General
67/8 Seed
67/9 Wheat

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67/10 Bacteria, 1894, 1899
67/11 Botany, 1893-1899, 1934
67/12 Cereal cropping, 1910, 1913
67/13 Conservation of the purity of the soil, 1910
67/14 Disease resistant crops
67/15 Field crop inspection, 1919
67/16 Flax, 1901-1938
67/17 Flax, by Rex Willard, 1930
67/18 General, 1899-1932
67/19 Land grant colleges - Their contribution, 1921
67/20 Nature study, no date
67/21 Observation and teaching, 1909
67/22 Plant pathology, 1912, 1915
67/23 Potatoes, 1896-1939
68/1 Sanitation, 1897-1914
68/2 Seed, 1894-1939
68/3 Tri-State Grain Growers Association
68/4 Wheat, barberry eradication, 1897, 1917-1943
68/5 Wheat, general, 1898-1937

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68/6 Alfalfa, 1926
68/7 Flax, 1928-1940
68/8 General
68/9 Plant diseases, 1926-1930
68/10 Potatoes, 1924-1929
68/11 Seed, 1924-1930
68/12 South American Observations, 1932
68/13 Weeds, 1926
68/14 Wheat, 1926-1935

68/15 Suggested outline, experiment station pantomime play, 1921

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- 68/16 Manns, Thomas F., Fungi of Flaxseed of Flax-sick Soil, (Archival copy), 1932
 68/17 Manns, Thomas F., Fungi of Flaxseed of Flax-sick Soil, (Research copy), 1932
 68/18 Porter, William R., Study of Bacterial Flora of Plot 31, (B.S., 1906)
 68/19 Schollander, E.G., Bacteriological Laboratory Experiments, (B.S., 1906)

Wheat Series**General Correspondence Subseries**

- 69/1 Armour Fertilizer Works, 1905-1909
 69/2 Average yields, 1923-1927
 69/3 Baking and milling tests, 1900-1931
 69/4 The Bayer Company, Inc., 1923-1926
 69/5 Buckwheat, 1922-1925
 69/6 Burbank wheat, 1925-1936
 69/7 Buttz, C.W., 1926-1939
 69/8 Calkins Machine Co., 1924-1928
 69/9 Carleton, M.A. 1904-1919
 69/10 Cereal Rust Conference, 1924-1925
 69/11 Chambliss, Charles, 1917
 69/12 Chicago Process Company, 1923-1924
 69/13 Clark, J. Allen, 1911-1920
 69/14 Cooperative wheat growers, 1906-1925
 69/15 Cropping, 1911-1933
 69/16 D1, D5 - Distribution, origin and pedigree, 1911, 1921
 69/17 Durum, 1914-1938
 69/18 Durum samples list, 1917
 69/19 E.I. du Pont de Nemours & Company, 1925-1927
 69/20 Ergot, 1921-1940
 69/21 Experiments, 1921-1951

Fertilizers

- 69/22 1909-1938
 69/23 1923, 1927
- 70/1 Field crop inspection, 1915-1916
 70/2 Formaldehyde, 1899-1931
 70/3 Foulds Milling Company, 1914-1916
 70/4 Frosted, 1904-1905, 1918-1928

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70/5	1899-1920
70/6	1921-1944
70/7	Grain grades, 1904-1927
70/8	Grain grading machinery, 1904-1927
70/9	Hagen, John N., 1918
70/10	Hail, 1920-1927
70/11	Houston, David F., 1918
70/12	Humpback wheat, 1917-1918
70/13	Humphrey, Harry B., 1915, 1932
70/14	Hypoform treatment, 1921
70/15	International correspondence, 1904-1923

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70/16	Circular, 1922
70/17	Correspondence, 1919-1925
70/18	Distribution, 1919, 1921
71/1	History, 1919, 1922-1923
71/2	Kubanka wheat, 1914-1922
71/3	Lambert, Edmund B., 1922
71/4	Marquis wheat, 1913-1929
71/5	Marquis wheat- origin, 1914
71/6	Monad wheat (D1), 1919-1928
71/7	North Dakota Railroad Commission, 1918
71/8	N.D.R. No. 46 wheat, 1920-1937
71/9	O.J. Barnes Co., 1918-1944
71/10	Origins of samples, 1911-1928
71/11	Oscar H. Will & Co., 1928
71/12	Percival K. Frowert Co., 1915-1916
71/13	Perth Amboy Chemical Works, 1906-1914
71/14	Pillsbury Flour Mills Company, 1915-1922
71/15	Plant Disease Survey, 1907-1924
71/16	Polish wheat, 1919-1923
71/17	The Quaker Oats Company, 1913-1932
71/18	Red Bob Wheat, 1914-1923
71/19	Report on dust explosions and fires, 1919
71/20	Report- inoculation experiments, 1912
71/21	Report of the survey of the 1925 wheat crop
71/22	Richardton Milling Compnay, 1929
71/23	Robideaux Grain Company, 1929

71/24 Roessler & Hasslacher Chemical Company, 1925-1929
 71/25 Root diseases, 1910-1939
 72/1 Ruby wheat, 1920-1926
 72/2 Russian Information Bureau, 1925

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72/3 1891-1917
 72/4 1918-1937

 72/5 Rust survey reports, 1921-1923
 72/6 Scab disease, 1914-1931
 72/7 Seed for distribution, 1911-1930
 72/8 Seed, 1899-1926
 72/9 Shane Bros. & Wilson Co., 1915, 1917
 72/10 Smut Control and Yield Experiment Report, 1919

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72/11 1899-1915
 73/1 1916-1921
 73/2 1922-1924
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 73/4 1927-1929

 73/5 Northwest Grain Smut Prevention Committee, 1916-1927
 73/6 Reports, 1926-1927
 73/7 Smut treating machines, 1903-1929
 73/8 Speltz, 1914-1927
 73/9 "Stem Rust of Wheat", no date
 73/10 Sulfur dusting, 1927-1932
 73/11 Summary report of smut questionnaire, 1929
 73/12 Summaries from analysis crop of 1928
 73/13 "A Survey of the North Dakota Wheat Crop of 1923"
 73/14 Take-all disease, 1919-1922
 74/1 Tariff on wheat, 1917, 1926
 74/2 Test on the Meyer's grain grading machine, 1922
 74/3 Velvet chaff, 1910-1923
 74/4 Wheat Breeding Conference (N.D.A.C., March 27, 1928 : First)
 74/5 Wheeler, Seager, 1915

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- 74/6 1911-1921
- 74/7 1922-1928
- 74/8 Origin, 1921
- 74/9 Wheat and rye experiments, 1920
- 74/10 Yields, 1929-1930

- 74/11 Yellow berry, 1926
- 74/12 Yerxa, Andrews & Thurston, 1915-1919

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- 74/13 Appropriations allotted, 1918-1925
- 74/14 Appropriations bill (U.S.), 1919
- 74/15 Appropriations - General correspondence, 1917-1940
- 74/16 Automobile rental contract, 1924
- 74/17 Baer, John M., 1918-1920
- 74/18 Ball, Carleton, R., 1919-1928

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- 74/19 General correspondence, 1918
- 74/20 Minutes, 1918
- 74/21 St. Paul, 1923

- 74/22 Bills - North Dakota, 1916-1929
- 74/23 Buller, A.H. Reginald, 1916-1918
- 74/24 Canadian correspondence, general, 1905-1925
- 74/25 Carleton, M.A., 1916-1917
- 74/26 Conference of Cereal Pathologists, minutes, 1917

Conference for the Prevention of Grain Rust

- 74/27 Bulletins, 1922-1923
- 74/28 Proceedings, 1922, 1926, 1927

Congressional correspondence

- 75/1 1910-1923
- 75/2 1924-1943

- 75/3 Coons, George H., 1917-1918
- 75/4 "Development of Stem Rust in North Dakota," by F. Frolik, 1925

75/5 Educational material, 1927
 75/6 Fletcher, Donald G., 1926-1943
 75/7 Fletcher, Donald G., reports, 1922-1950
 75/8 Fuller, Harrison, 1922-1924

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75/9 1904-June, 1918
 75/10 July, 1918-1942
 75/11 Hagen, John N., 1917-1918
 75/12 Hanton, Carlton, 1924-1925
 75/13 Harding, W.L., 1918
 75/14 Hughes, Hugh J., 1918

Humphrey, Harry B.

75/15 1905, 1917-1919
 75/16 Project reports, 1923-1925

76/1 Houston, David F., 1917-1923
 76/2 Jones, Lewis R., 1918
 76/3 Kempton, Forrest E., 1919
 76/4 Kern, F.D., 1918
 76/5 Kitchen, Joseph A., 1922-1926
 76/6 Ladd, Edwin F., remarks before Congress, 1925
 76/7 "The Life History of the Rust Fungus was Discovered in 1865"
 76/8 Mayoue, George C., 1919-1943
 76/9 Meier, F.C., 1930-1933
 76/10 Melander, Leonard W., 1928-1942
 76/11 Melhus, I.E., 1917-1923
 76/12 Nebraska, 1914-1919
 76/13 Publicity material
 76/14 Quarantines, 1919-1935
 76/15 Radio talk - Carleton, R. Ball, 1925
 76/16 Randlett, Gordon W., 1918-1921
 76/17 Resolutions, 1917-1923
 76/18 Resume of barberry eradication in North Dakota, 1917-1923
 76/19 "The Rust Reporter," 1921-1922, 1925
 76/20 Rusts of wheats and cereals, 1916
 76/21 Selvig, C.G., 1917-1918
 76/22 South Dakota, 1918-1923
 76/23 Stakeman, Elvin C., 1914-1933
 76/24 State Officials (N.D.), 1916-1922
 76/25 Taylor, William A., 1918-1921

76/26	Waldron, Clarence B., 1917-1918
76/27	Wallace, Henry A., 1924-1938
76/28	Webber, C.C., 1920-1941
76/29	Whetzel, H.H., 1918

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Annual reports

77/1	1920
77/2	1921
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78/1	1940
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78/4	Biennial report, 1928-1929
78/5	Maps, 1918-1925

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78/6	1919-1920
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78/14	1927-1929, 1933

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Acquired character studies

79/1	1924
79/2	1925
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79/4	1927
79/5	1928
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80/1	Bacterial studies, 1895
80/2	College fund journal, 1910-1925
80/3	Crop distribution, 1910

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80/4	1909
80/5	1916
81/1	1916-1917
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88/2	No. 1, 1890
88/3	No. 2, 1890
88/4	No. 3, 1892
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88/6	No. 5, 1890-1892
88/7	No. 6, 1893-1877
89/1	No. 9, 1894-1899
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90/1	No. 19, 1905 90
90/2	No. 24, 1908-1911
90/3	No. 25, 1910-1911
90/4	No. 26, Book 1 1911-1912
90/5	No. 26, Book 2, 1912-1915
90/6	No. 27, 1912-1913
91/1	No. 31, 1914 91
91/2	No. 38, Book 7, 1938
91/3	Herbarium, <u>Record of N.D.A.C. and N.D.A.E.S.</u> , 1890
91/4	Herbarium seed list

Manns, Thomas F., thesis work books-

91/5	No. 1, July 12, 1902
91/6	No. 2, August 15, 1902
91/7	No. 3, 1903
91/8	No. 4, 1903
92/1	No. 5, 1903
92/2	No. 6, 1903
92/3	No. 7, 1904
92/4	Notes taken for book No. 3, 1901

Origin books

92/5	No. 1, Bison flax, 1911-1939
92/6	No. 2, Buda flax, 1905-1929
92/7	No. 3, N.D.R. 213 flax, 1920-1927

Pedigree record books

92/8	No. 1, 1921
92/9	No. 2, 1921
92/10	No. 3, 1921

Plant variety identification books

93/1	No. 2, 1914
93/2	No. 3, 1918
93/3	No. 4, 1923
93/4	No. 5, 1928
93/5	Record of college and station cuts, 1898
94/1	Record of growers of resistant flax, 1908-1912
94/2	Records of income and expenses against salary, 1920
94/3	Records of plants crossed, 1915-1929
94/4	Samples of flax in field, 1923
94/5	Soil studies, 1930

Spermatophyta

94/6	A-Ca
95/1	Ce-Ex
95/2	Fa-My

95/3 Na-Qu
 95/4 Ra-Zy

 95/5 Threshing weights, 1919-1931
 95/6 Threshing weights, 1925-1931

Tri-State Grain and Stock Growers Association

95/7 Proceedings; January 20-23, 1903

 96/1 Varieties, agronomy, 1951

Wheat experiments

96/2 Book 1, 1934
 96/3 Book 2, 1934
 96/4 Book 1, 1935
 96/5 Book 2, 1935
 96/6 Book 3, 1935
 96/7 1936

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96/8 Book No. 1, 1918
 96/9 Book No. 2, 1918-1919
 96/10 1919
 96/11 1920-1922

97 Flax investigations, 1939-1942
 98 Flax investigations, 1943-1952
 99 Flax, potatoes, wheat studies, 1903-1912

Notecards Series

100 A - N
 101 O - S, Sodium arsenite
 102 S, Soil - XYZ

NDSU Ephemera Collection

NDSU-EX (All items in Map Case Drawer 50)

H.L. Bolley - Folder 1: Experiment Station Materials (7 Items, 47 Total)

- Flyer/Schedule - Farmers Institute Special. Northern Pacific Railway and NDAC (Hoverstad) present lectures and demonstrations at each stop. c. 1918
- Poster: Extension, NDAC. 'Stop Perennial Sow Thistle...' by J.W. Haw and O.A. Stevens (NDAC and U.S. Dept. of Ag. co-operating). c. 1920s (2)
- Poster (draft): Sow-Plant Only Reliable Seed. Department of Agronomy in cooperation with Pure Seed Lab. Ag. Experiment Station, NDAC. n.d.
- Poster: SMUT Prevention Week, prepared by the US Dept. of Agriculture in cooperation with NDAC Ag. College. February 21-27. n.d.
- Poster: Alfalfa Growers, Read and Heed, Some Straight from the Shoulder Statements Regarding Hardy Alfalfa Seed, State Alfalfa Seed Certifying Agencies (Idaho, Montana and Utah). n.d (2)

Folder 1A: (31 Items inside Folder 1)

- Tag: Uncleaned Seed for Recleaning of Processing Preparatory to Certification.
- Tag: ND Pure Seed Laboratory, Experiment Station, NDAC (blank). n.d.
- Tag: ND Registered Certified Seed. ND Pure Seed Lab, Experiment Station, NDAC (blank). n.d.
- Tag: ND Grown Seed, Pure Seed Laboratory Verified (blank). D.D. Simmons, Fargo ND. Authorized by H.L. Bolley, Experiment Station, NDAC. n.d.
- Article: Formaldehyde for Treatment of Diseases of Field Crops ad recommended by H.L. Bolley. n.d. (2 copies, one with revisions)
- Flyer: The Minnesota Mutual Life Insurance Co. of St. Paul MN. J.B. Folsom, Fargo ND. n.d.
- Flyer: Corbin, a Protection for Seed Grain, American Corbin Company (California, New Jersey). n.d.
- Advertisement: The Little Wonder (weed killer). Reber Chemical Company (Reading, PA). n.d.
- Flyer: Seed Corn: 1915 Grown Seed Corn is No Good by Howard R. Huston (Surrey, ND) has Northern Grown Seed Corn from the 1914 crop and has samples available to send. c. 1915.
- Program: North Dakota State Corn Show: Rules, Program and Premium List (Bismarck, ND). November 12th to 15th, 1924.
- Program: North Dakota Corn and Clover Convention and Mid-Winter Fair, 4th Annual: Announcement, Program and Prize List (Grand Forks, ND). February 3rd to 8th, 1913.
- Article: Study the Seed Tag and Know What You Are Buying: Label on the Bag Tells the Story by Albert A. Hansen. *The Indiana Farmer's Guide* October 28, 1922 issue.
- Article: Indiana Seed Law is Designed to Benefit Farmers, System of Enforcement is Simple by Albert A. Hansen. *The Indiana Farmer's Guide* October 21, 1922 issue.
- Price listing: Interstate Seed & Grain Co (Wholesale, Fargo, Moorhead). May 17, 1926.
- Graph: showing range of domestic linseed oil price in the United States in comparison with competing drying oils c. December 31, 1935 (2)
- Graph: showing consumption of linseed oil in the United States in comparison with competing drying oils. c. December 31, 1935
- Graph: showing consumption of Linseed oil in the United States in comparison with competing drying oils. c. September 30, 1937
- Graph: showing range of domestic linseed oil price in the United States in comparison with competing drying oils. c. September 30, 1937
- Article: 'In Defense of our Flood Supply, An Outline of the Strategy of Attack That is Being Devised to Combat Plant Diseases and Insect Pests' by Donald G. Fletcher. *The Northwestern Miller* (Minneapolis MN) Vol. 210, No. 2. April 8, 1942.

- Issue: *The Purdue Stag-Horn* (Chicago). May 9th, 1912.
- Diagram: A Lesson in Plowing: Plow Deep. NDAC Extension Department. May 8, 1912.
- Flyer: Assure your Crops and Save Money by using Seedolin. W.B. Kahn Co. New York. c. 1913.
- Flyer: ND Experiment Station Poster Bulletin No. 4: Sealing Certified Seed. n.d. (4)
- Flyer: Treat Your Seed Wheat by the Copper Carbonate Method. Sheridan Iron Works, Inc (Sheridan WY). nd.
- Fascicle No. 1: Collection of Plant Disease Specimens. NDAC and Experiment Station, Department of Botany. n.d.
- Flyer: Stop Smut by Treating Seed. n.d.

Folder 1B: (9 Items inside Folder 1)

- Poster: Rolette Fall Fair. Saturday, October 12th, 1912?
- Poster: Look for these Two New Wheat Diseases! Flag smut and take-all. ND Ag. College and U.S. Department of Agriculture. n.d. (3)
- Poster: Smut is an Absolute Waste Treat Your Seed. Extension Service, NDAC. n.d.
- Poster: 'The North Dakota Improved Seed Growers Association Prize Contest, 4th Annual'. Fargo, ND January 18th to 22nd, 1916 (2)
- Articles: *Barley Crop Improvement* page 2. Western Newspaper Union. n.d.
- Poster: ND Ag. Experiment Station, Poster Bulletin No. 1. by H.L. Bolley. n.d.

Folder 2: Personal Items: Certificates, Receipts, Travel Brochures & Correspondence(10 Items)

- Receipt: The United Steam Ship Company, Copenhagen to New York, 14 cases of seeds, January 1904.
- Brochure: The Four Princes To South America, Furness Princeline, New York, NY. Tours, passport requirements, prices, schedule for 1930. c. 1929.
- Receipt: C. Wohlbruck & Co., St. Petersburg. October, 1903.
- Correspondence: From Bolley to Friend Marcus. August 15th, 1903.
- Certificate: Quote by A.C. Dillman , 1936 yearbook, U.S. Department of Agriculture. "Plot 30 at N.D. Agricultural Experiment Station, where Bolley and his associated did their resistance, is perhaps as important in human affairs as any historic battlefield..."
- Certificate: The Board of Lady Managers of the World's Columbian Commission present to H.L. Bolley Honorable Mention for his production and perfection of the exhibit of Agricultural Experiment Station, U.S. The Columbian Exposition, February 1895.
- Certificate: U.S. Department of Agriculture to Henry L. Bolley, to visit Europe (especially Germany and Russia) and study the culture of flax in those countries; he is hereby introduced and cordially commended to Agricultural Institutions and persons on behalf of the U.S. Department of Agriculture. April 27, 1903.
- Brochure: Sailing Schedule, Cunard and Anchor Lines, New York. January 20, 1930, Form 1 No. 2.
- Certificate from the US Department of State for safe travel in Russia, 1903
- Certificate from the US Department of Agriculture for safe travel in South America, 1930

Folder 3: Potato Tours (12 Items)

- Poster: Cass County Potato Tour. July 31st, 1923.
- Poster: Wisconsin Potato Belts, State Potato Tour. August 13th to 18th, 1928.
- Program: Annual Wisconsin Potato Tour, August 10th to 15th, 1925.
- Poster: Annual Wisconsin Potato Tour, August 10th to 15th, 1925. (2)

- Poster: Upper Wisconsin Potato Inspection Tour. August 1st to 6th, 1921. (2)
- Poster: Upper Wisconsin Potato Inspection Tour. August 7th to 16th, 1922.
- Poster: Minnesota State Potato Tour. August 1st to August 10th. c. 1920s.
- Poster: Third Annual Western Nebraska Potato Tour. August 12th to 15th, 1924.
- Poster: Special Wabash Train loaded Entirely with Minnesota Certified Seed Potatoes for Use in Missouri. Meeting October 20th, 1925.
- Poster: Wisconsin Potato Show and Exposition. November 1st to 4th, 1927.

Folder 4 Barberry Eradication and Rust (19 Items)

- Letter/Flyer: The Life Story of the Black Stem Rust of Wheat – Barberry – June, 1920
- Poster: Fight Wheat Rust, Banish the Barberry and Save the Wheat – USDA – n.d. (2 copies)
- Poster: Help! Destroy an Enemy of the Wheat Crop, Dig Out every Barberry Bush – 1923
- Sample: The Common Barberry Bush, The Grain Farmer's Worst Enemy, Destroy It! – USDA – n.d.
- Poster: Warning, Outlawed Common Barberry Bushes – USDA – n.d.
- Poster: The Life Cycle of Black Stem Rust – Plate I – USDA – n.d.
- Poster: The Common Barberry (Destroy It) – Plate II – USDA – n.d.
- Poster: Losses of Grain Caused by Black Stem Rust – State breakdown – USDA – c.1921
- Poster: What Black Stem Rust does to our Small Grains – USDA – c.1927
- Poster: What Black Stem Rust does to our Small Grains – USDA – c.1929
- Newsletter: *Montana Rust Buster News* – April 1933
- Flyer: Community Club of Hebron, ND - meeting – Common Barberry discussion – November 30, 1923
- Flyer: Radio Talk – WDAF – Barberry Eradication – n.d.
- Plate: Stages of the Development of Black Stem Rust – n.d.
- Plate: Twig from a Common Barberry Bush – n.d.
- Clip Sheet – First Barberry Control tried in France in 1660 – USDA – November 15, 1936
- Poster: Report of the Barberry Eradication in 1919 (in North Dakota)