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FOREWORD

A university consists of men with insatiable curiosity. It may have a fine physical plant, it may have a library filled with thousands upon thousands of the world's books and periodicals, it may have spacious laboratories, classrooms, and assembly halls, it may have many names on its faculty roster, and it may have enrolments that mount with each passing academic year. But these do not make a university. Unless there are ideas developing from the concentration of buildings, libraries, laboratories and classrooms, faculty and students, the indispensable hallmark that stamps an educational institution as a true university is wanting.

One measure of the intellectual life of any academic institution is the publication list of its staff members. The pages that follow enumerate the books and articles and critical reviews that have come from the University of Minnesota faculty during 1937-38. No one can turn these pages and study the items appearing on them without some increasing realization of one fact—that the University of Minnesota is productive of the scholarship that justly entitles it to be designated as a university in the fullest and richest meaning of that word.

GUY STANTON FORD, *Acting President*

PUBLICATIONS OF THE FACULTIES

ADMINISTRATION

MALCOLM M. WILLEY, Ph.D., University Dean and Assistant to the President
Depression, Recovery and Higher Education. A Report by Committee Y of the American Association of University Professors. New York: McGraw-Hill Book Company. 1937. 543 pages.

"The cultural approach to sociology" (with M. J. Herskovits). Pages 692-701 in V. F. Calverton, editor, *The Making of Society*. New York: The Modern Library. 1937.

Reviews of

Susan M. Kingsbury, Hornell Hart, and others, *Newspapers and the News in Annals of the American Academy of Political and Social Science*, 194:230-31. November, 1937.

Alfred M. Lee, *The Daily Newspaper in America* in *ibid.*, 194:231-32. November, 1937.

Robert S. and Helen M. Lynd, *Middletown in Transition* in *ibid.*, 195:238-39. January, 1938.

Milton W. Hamilton, *The Country Printer: New York State, 1785-1830* in *ibid.*, 197:269-70. May, 1938.

Robert W. Desmond, *The Press and World Affairs* in *ibid.*, 197:283-84. May, 1938.

S. E. Frost, Jr., *Education's Own Stations* in *American Journal of Sociology*, 43:1023. May, 1938.

S. E. Frost, Jr., *Is American Radio Democratic?* in *ibid.*, 43:1023. May, 1938.

OTIS C. MCCREERY, M.A., Assistant Dean of Student Affairs

"Seeing fraternities in a larger frame" (with G. F. Mott). *Journal of Higher Education*, 9:331-34. June, 1938.

TRUE E. PETTENGILL, M.S., Assistant Registrar

"Trends in freshman enrolment and survival." *Journal of the American Association of Collegiate Registrars*, 13:327-34. 1938.

Trends in the marking system at the University of Minnesota. 1937-38. 10 mimeographed pages.

THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

ADMINISTRATION

JOHN T. TATE, Ph.D., D.Sc., Dean of the College of Science, Literature, and the Arts and Professor of Physics

"Dissociation processes produced in SbCl_3 , AsCl_3 and PCl_3 by electron impact" (with P. Kusch and A. Hustrulid). *Physical Review*, 52:840-42. October 15, 1937.

"The dissociation of HCN , C_2H_2 , C_2N_2 and C_2H_4 by electron impact" (with P. Kusch and A. Hustrulid). *Ibid.*, 52:843-54. October 15, 1937.

"Design and construction of the Minnesota pressure electrostatic generator" (with J. H. Williams and L. H. Rumbaugh). *Bulletin of the American Physical Society*, 13:2. (21A). 1938.

Abstracts

"The products of dissociation of ethylene by electron impact" (with A. Hustrulid and P. Kusch). *Physical Review*, 52:249. August 1, 1937.

- "Ionization and dissociation by electron impact in CCl_2F_2 and in CCl_4 vapor" (with R. F. Baker). *Physical Review*, 53:683. April 15, 1938.
- "Design and construction of the Minnesota pressure electrostatic generator" (with L. H. Rumbaugh and J. H. Williams). *Ibid.*, 53:928. June 1, 1938.
- "Ionization and dissociation of normal and isobutane by electron impact" (with R. F. Baker). *Ibid.*, 53:944. June 1, 1938.

Editor

Physical Review. 1937-38.

Reviews of Modern Physics. 1937-38.

ANTHROPOLOGY

ALBERT E. JENKS, Ph.D., D.Sc., Professor of Anthropology and Chairman of the Department of Anthropology

- Minnesota's Browns Valley Man and Associated Burial Artifacts*. Memoirs of the American Anthropological Association, No. 49. 1937. 49 pages.
- "Minnesota man: a reply to a review by Dr. Ales Hrdlicka." *American Anthropologist*, (new series), 40:328-36. April-June, 1938.

WILSON D. WALLIS, Ph.D., Professor of Anthropology

- "Mental patterns in relation to culture." Pages 730-34 in V. F. Calverton, editor, *The Making of Society*. New York: The Modern Library. 1937.
- "An answer to criticisms of the lag concept." *American Journal of Sociology*, 43:805-807. 1938.
- "Anatomic lag." *Child Development*, 9:87-121. 1938.

ASTRONOMY

WILLEM J. LUYTEN, Ph.D., Professor of Astronomy

- "Neue Veranderliche am Sudhimmel." *Astronomische Nachrichten*, 13. Liste, 264: 63-65. 1937.
- "A preliminary discussion of the stream motions of 85000 faint proper motion stars." Tercentenary Papers of the Harvard Observatory. *Harvard Observatory Annals*, 105:397-404. 1937.
- "On the origin of the solar system" (with E. L. Hill). *Astrophysical Journal*, 86:470-82. 1937.
- "On the apsidal motion of RZ Cassiopeiae." *Publications of the Astronomical Society of the Pacific*, 49:329-31. 1937.
- "A faint binary." *Bulletin of Harvard College Observatory*, No. 906, p. 1. 1937.
- "Faint stars with large proper motion." *Ibid.*, No. 906, p. 2. 1937.
- "On the system of Algol." *Zeitschrift für Astrophysik*, 15:96-107. 1938.
- "On the origin of the solar system." *Observatory*, 61:83-85. 1938.
- "The accuracy of parallaxes determined from spectral class and proper motion." *Monthly Notices of the Royal Astronomical Society*, 98:408-11. 1938.
- "On the ellipticity of close binaries." *Ibid.*, 98:459-66. April, 1938.

JOHN W. EVANS, M.A., Instructor in Astronomy

- "The distribution of stars and absorbing material in Perseus and Cassiopeia." *Publications of the American Astronomical Society*, 9:119-20. 1937.

BORIS G. KARPOV, Ph.D., Instructor in Astronomy

- Descriptive Astronomy*. Minneapolis: University of Minnesota General Extension Division, Correspondence Study Department. 1937. 50 mimeographed pages.
- "Proper motions larger than 0."20 found in six northern Bruce regions." *Astronomical Journal*, 56:201-203. 1938.

BOTANY

C. OTTO ROSENDAHL, Ph.D., Professor of Botany and Head of the Department of Botany

Review of G. Houtzagers, *Het Geslacht Populus in Verband met zijn Beteeknis voor de Houtteelt (The Genus Populus and Its Significance in Silviculture)* in *Journal of Forestry*, 36:353. March, 1938.

GEORGE O. BURR, Ph.D., Professor of Botany

"Metabolism studies with rats suffering from fat deficiency" (with A. J. Beber). *Journal of Nutrition*, 14:553-66. 1937.

"Photoelectric spectrophotometry applied to studies in fat metabolism" (with E. S. Miller). *Proceedings of the Society for Experimental Biology and Medicine*, 36:726-29. 1937.

"Paralysis in old age in rats on a diet deficient in vitamin E" (with W. R. Brown and R. L. Moseley). *Ibid.*, 36:780-82. 1937.

"Absorption spectra of lipids and their application to metabolic studies" (with E. S. Miller and W. R. Brown). *Oil and Soap*, 15:62-65. 1938.

"A spectroscopic study of isomerism in the fatty acids" (with J. P. Kass and E. S. Miller). *Proceedings of the American Society of Biological Chemists*, 32:106. 1938.

"On the synthesis of fats by green plants" (with E. S. Miller). *Botanical Gazette*, 99: 773-85. 1938.

FREDERIC K. BUTTERS, Ph.D., Professor of Botany

Abstract of "Recent botanical exploration in northeastern Minnesota" (with E. C. Abbe). *American Journal of Botany*, 24:741-42. 1937.

Laboratory outline for elementary taxonomy (with E. C. Abbe and G. W. Burns). 1938. 39 ditto pages.

ERNST C. ABBE, Ph.D., Assistant Professor of Botany

"Phytogeographical observations in northernmost Labrador." Pages 217-34 in *Northernmost Labrador Mapped from the Air*. Special Publication of the American Geographical Society, No. 22. 1938.

"An impression of northernmost Labrador as viewed from the air." Page 235 in *ibid.*

"Studies in the phylogeny of the Betulaceae II. Extremes in the range of variation of floral and inflorescence morphology." *Botanical Gazette*, 99:431-69. March, 1938.

Abstracts of

"The pattern of variation in the floret and cymule in the Betulaceae." *American Journal of Botany*, 24:732. 1937.

"Recent botanical exploration in northeastern Minnesota" (with F. K. Butters). *Ibid.*, 24:741-42. 1937.

Laboratory outlines for Cytology II and for histological methods, revisions and additions. 1937. 18 ditto pages.

Laboratory outline for elementary taxonomy (with F. K. Butters and G. W. Burns). 1938. 39 ditto pages.

DONALD B. LAWRENCE, Ph.D., Instructor in Botany

Abstract in *Bulletin of the Ecological Society of America*, 18:55. December, 1937.

Lecture outline and laboratory directions and tests for class use. 1937-38. 37 mimeographed pages.

ELMER S. MILLER, Ph.D., Instructor in Botany

"Photoelectric spectrophotometry applied to studies in fat metabolism" (with G. O. Burr). *Proceedings of the Society for Experimental Biology and Medicine* 36:726-29. 1937.

"A discussion of some errors in quantitative spectrophotometry." *Ibid.*, 37:574-77. 1937.

- "A precise method, with detailed calibration, for the determination of absorption coefficients; the quantitative measurement of the visible and ultraviolet absorption spectra of alpha carotene, beta carotene, and lycopene." *Plant Physiology*, 12:667-84. 1937.
- "Absorption spectra of lipids and their application to metabolic studies" (with W. R. Brown and G. O. Burr). *Oil and Soap*, 15:62-65. 1938.
- "A spectroscopic study of isomerism in the fatty acids" (with G. O. Burr and J. P. Kass). *Proceedings of the American Society of Biological Chemists*, 32:106. 1938.
- "On synthesis of fats by green plants" (with G. O. Burr). *Botanical Gazette*, 99:773-85. 1938.
- "Photoelectric spectrophotometry applied to the quantitative analysis of carotenoid and chlorophyll pigments in ternary and quaternary systems." *Cereal Chemistry*, 15:310-16. 1938.
- "Variation in pigment concentration among inbred and crossbred strains of corn" (with Iver J. Johnson). *Ibid.*, 15:345-54. 1938.

LAURENCE S. MOYER, Ph.D., Instructor in Botany

- "Recent advances in the physiology of latex." *Botanical Review*, 3:522-44. 1937.
- "Electrokinetic properties of adsorbed films of allergenic substances from ragweed pollen" (with H. A. Abramson and A. Sookne). *American Journal of Botany*, 24:739. 1937.
- "Electrokinetic Aspects of Surface Chemistry:
- I. The electrophoresis of adsorbed egg albumin." *Journal of Physical Chemistry*, 42:71-83. January, 1938.
 - II. Electrokinetic theory in the calculation of the charge of proteins" (with J. C. Abels). *Journal of Biological Chemistry*, 121:331-44. December, 1937.
 - III. A comparison of the microscopic and moving boundary methods of electrophoresis." *Ibid.*, 122:641-47. 1938.
 - IV. The ratio of electro-osmosis to electrophoresis." *Journal of Physical Chemistry*, 42:391-95. 1938.
 - V. Electric mobility and titration curves of proteins and their relationship to the calculation of radius and molecular weight" (with H. A. Abramson). *Journal of Biological Chemistry*, 123:391-403. 1938.

ROBERT A. PHILLIPS, B.S., Instructor in Botany and General Extension Division Instructor in Gardening

Weekly articles on landscape gardening and plant culture. *Minneapolis Sunday Tribune*, 1937-38.

A. JOSEPH BEBER, M.S., Teaching Assistant in Botany

"Metabolism studies with rats suffering from fat deficiency" (with G. O. Burr). *Journal of Nutrition*, 14:553-66. 1937.

GEORGE W. BURNS, B.A., Teaching Assistant in Botany

Laboratory outline for elementary taxonomy (with F. K. Butters and E. C. Abbe). 1938.
39 ditto pages.

A. ORVILLE DAHL, M.S., Teaching Assistant in Botany

"Pollen analysis of the air in relation to hay fever." *Collecting Net*, 12:133-34. 1937.

"Chromosome studies in sundew (*Drosera*)." *Biological Bulletin*, 73:368. 1937.

Abstracts of
Pollen Analysis of the Air in Relation to Hay Fever in Biological Bulletin, 73:351. 1937.
Cytological and Taxonomic Studies in the Genus Anemone. Preliminary Note in American Journal of Botany, 24:732. 1937.

WILLIS A. EGGLE, M.S., Teaching Assistant in Botany

"The maple-basswood forest type in Washburn County, Wisconsin." *Ecology*, 19:243-63. April, 1938.

MERRILL J. HENDRICKSON, B.S., Teaching Assistant in Botany

Mimeographed syllabus for class use. 1938. 15 mimeographed pages.

JOHN B. MOYLE, B.A., Teaching Assistant in Botany

Key to the More Common Non-Woody Vascular Plants of Central and Northern Minnesota. Minneapolis: Burgess Publishing Company. 1938. 72 pages.

"Notes on Minnesota aquatic bryophytes." *Bryologist*, 40:114-16. November-December, 1937.

JACK E. MYERS, M.S., Teaching Assistant in Botany

Mimeographed syllabus for class use. 1938. 15 mimeographed pages.

WILLIAM R. BROWN, Ph.D., National Live Stock and Meat Board Fellow

"Arachidonic and linolic acid of the serum of normal and eczematous human subjects" (with A. E. Hansen). *Proceedings of the Society for Experimental Biology and Medicine*, 36:113-17. 1937.

"Paralysis in old age in rats on a diet deficient in vitamin E" (with G. O. Burr and R. L. Moseley). *Ibid.*, 36:780-82. 1937.

"The effect of low fat diets on serum lipids of rats" (with A. E. Hansen). *Journal of Nutrition*, 13:351-57. 1937.

"Effects of diets containing fats of various degrees of unsaturation on serum lipids in rats" (with A. E. Hansen). *Ibid.*, 15:17-22. 1938.

"Absorption spectra of lipids and their application to metabolic studies" (with E. S. Miller and G. O. Burr). *Oil and Soap*, 15:62-65. 1938.

LAWRENCE M. JONES, M.A., Organic Sea Products Corporation Fellow

"Decorative algae on the crab, *Naxia tumida*." *Ecology*, 19:81-88. 1938.

J. PETER KASS, Ph.D., Research Chemist, Rockefeller Foundation

"A spectroscopic study of isomerism in the fatty acids" (with G. O. Burr and E. S. Miller). *Proceedings of the American Society of Biological Chemists*, 32:106. 1938.

CLASSICS

MARBURY B. OGLE, Ph.D., Professor of Classics and Chairman of the Department of Classics

"The way of all flesh." *Harvard Theological Review*, 31:41-51. January, 1938.

"The necessity of language study." *Classical Bulletin*, 14:53-54. April 1938; *Interpreter*, 12:2. June, 1938.

ROBERT V. CRAM, Ph.D., Assistant Professor of Classics

Reviews of

F. A. Spencer, *Beyond Damascus, A Biography of Paul* in *Classical Journal*, Vol. 33, No. 7, pp. 433-35. April, 1938.

Adeline Belle Hawes, *Citizens of Long Ago* in *ibid.*, Vol. 33, No. 8, pp. 496-98. May, 1938.

E. Grier, *Accounting in the Zenon Papyri* in *ibid.*, Vol. 33, No. 9, pp. 543-44. June, 1938.

JOHN L. HELLER, Ph.D., Assistant Professor of Classics

Review of Sister M. C. Herron, *A Study of the Clausulae in the Writings of St. Jerome* in *Classical Weekly*, 31:122. January 31, 1938.

Abstracts of

Classical Philology in *Classical Weekly*, 31:passim. 1937-38.

Revue des Etudes Grecques in *ibid.*, 31:passim. 1937-38.

Material for class use. 1937-38. 40 mimeographed pages.

ENGLISH

JOSEPH M. THOMAS, Ph.D., Professor of English and Assistant Dean for the Senior College

General and contributing editor (with O. J. Campbell and H. Craig). *Great English Writers*. New York: F. S. Crofts and Company. 1936. 2 vols. 2,200 pages.

JOSEPH W. BEACH, Ph.D., Professor of English

"Virginia Woolf." *English Journal*, 226:603-12. October, 1937.

"Mr. Krutch and ideal values in literature." *International Journal of Ethics*, 48:487-97. 1938.

Reviews of

William Merritt Sale, Jr., *Samuel Richardson: A Bibliographical Record of His Literary Career* in *Journal of English and Germanic Philology*, 36:438-39. 1937.

Alan Dougald McKillop, *Samuel Richardson: Printer and Novelist* in *ibid.*, 36:439-40. 1937.

Archibald Bolling Shepperson, *The Novel in Motley: A History of the Burlesque Novel* in *ibid.*, 36:440-42. 1937.

Rudolf Maack, *Laurence Sterne im Lichte seiner Zeit* in *ibid.*, 36:594-96. 1937.

Claude Reherd Flory, *Economic Criticism in American Fiction 1792 to 1900* in *ibid.*, 37:114-15. January, 1938.

Claude Searcy McIver, *William Somerset Maugham: A Study of Technique and Literary Sources* in *ibid.*, 37:319. April, 1938.

Mary M. Colum, *From These Roots* in *Virginia Quarterly Review*, 14:298. 1938.

Herbert J. Muller, *Modern Fiction: a Study of Values* in *ibid.*, 14:298-301. 1938.

H. V. Routh, *Toward the Twentieth Century* in *ibid.*, 14:301-302. 1938.

Harry Slochower, *Three Ways of Modern Man* in *ibid.*, 14:302-303. 1938.

MARTIN B. RUUD, Ph.D., D.C.L., Professor of English

Review of Laurence M. Larson, *The Changing West, and Other Essays* in *Minnesota History*, 18:431-33. December, 1937.

ELMER E. STOLL, Ph.D., Professor of English

Shakespeare's Young Lovers. Alexander Lectures at the University of Toronto. New York: Oxford University Press. 1937. 118 pages.

"Hamlet and the Spanish Tragedy, Quartos I and II: a Protest." *Modern Philology*, 38:31-47. August, 1937.

HUNTINGTON BROWN, B.Litt. (Oxon.), Ph.D., Associate Professor of English

Editor, Introduction, Appendices, Textual and Explanatory Notes of: Joseph Hall, *The Discovery of a New World (Mundus Alter et Idem)*, ca. 1605; Englished by John Healey, ca. 1609; Foreword by R. E. Byrd. Cambridge, Mass.: Harvard University Press, 1937. 230 pages.

Historical outlines for class use. 1938. 10 mimeographed pages.

TREMAINE MCDOWELL, Ph.D., Associate Professor of English

American Sketchbook (with J. T. Flanagan and others). New York: Macmillan Company. 1938. 706 pages.

"In memoriam Killis Campbell" (with F. Stovall). *American Literature*, 10:76. March, 1938.

CHARLES W. NICHOLS, Ph.D., Associate Professor of English

"Shakespeare through Bartlett." *Interpreter*, Vol. 12, No. 7, pp. 1, 3. March, 1938.

"Henry Martyn Nichols and the Northampton colony." *Minnesota History*, 19:129-47. June, 1938.

Review of T. McDowell and others, *American Sketchbook* in *Minneapolis Journal*, June 5, 1938.

MURIEL B. CARR, Ph.D., Assistant Professor of English

An A B C of Idiom and Diction (with John W. Clark). New York: Farrar and Rinehart. 1937. 121 pages.

Review of G. P. Faust, *Sir Degare: A Study of the Texts and Narrative Structure* in *Modern Language Notes*, 53:153. February, 1938.

ELIZABETH JACKSON, Ph.D., Assistant Professor of English

"Grammar and style." *Interpreter*, Vol. 12, No. 4, pp. 1, 3. December, 1937.

HARLOW C. RICHARDSON, B.A., Assistant Professor of English

"We climb Fujiyama." *Minnesota Techno-Log*, 18:80-82. January, 1938; *Unicorn of Theta Xi*, 35:8-11. April, 1938.

LUTHER N. BECKLUND, B.A., Instructor in English

Editor, *Essays in Science and Engineering* (with F. Montgomery). (Second edition.) New York: Farrar and Rinehart. 1938. 523 pages.

HAROLD E. BRIGGS, M.A., Instructor in English

"Artistic narrative or story." Pages 516-56, *passim*, in *Composition for College Students*. New York: Macmillan Company. 1937. 760 pages.

JOHN W. CLARK, M.A., Instructor in English

An A B C of Idiom and Diction (with Muriel B. Carr). New York: Farrar and Rinehart. 1937. 121 pages.

FRANCES K. DEL PLAINE, M.A., Instructor in English

Written English (with Adah G. Grandy). New York: Cordon. 1938. 230 pages.

JOHAN S. EGILSRUD, Ph.D., Instructor in English

Review of T. Blegen and M. B. Ruud, *Norwegian Emigrant Songs and Ballads* in *American Scandinavian Review*, 25:278. September, 1937.

Music criticism and editing of Sunday Music page, in *Minneapolis Journal*. November 1, 1937 to June 15, 1938.

JOHN FITCH, M.A., Instructor in English

"Ominous interlude." *Country Gentleman*, 108:14, 79. May, 1938.

JOHN T. FLANAGAN, Ph.D., Instructor in English

American Sketchbook (with T. McDowell and others). New York: Macmillan Company. 1938. 706 pages.

"How many do you know?" *Scribner's Magazine*, 102:79. July, 1937.

"William Joseph Snelling, forgotten critic." *Philological Quarterly*, 16:376-93. October, 1937.

"The Hoosier schoolmaster in Minnesota." *Minnesota History*, 18:347-70. December, 1937.

Review of Walter Havighurst, *Upper Mississippi: A Wilderness Saga* in *Minnesota History*, 19:80-81. March, 1938.

ADAH G. GRANDY, B.L., Instructor in English

Written English (with Frances K. del Plaine). New York: Cordon. 1938. 230 pages.

CLIFFORD I. HAGA, B.A., Instructor in English

Reviews of

Ernst Lehmann, *Zeppelin* in *Minnesota Techno-Log*, 18:13. October, 1937.

Leonard Q. Ross, *The Education of Hyman Kaplan* in *ibid.*, 18:37. November, 1937.

George Gray, *The Advancing Front of Science* in *ibid.*, 18:61. December, 1937.

National Resources Committee, *Technological Trends and National Policy* in *ibid.*, 18:87. January, 1938.

S. Chatwood Burton, *Spain Poised* in *ibid.*, 18:107. February, 1938.

Lancelot Hogben, *Retreat from Reason* in *ibid.*, 18:133. March, 1938.

Alfred Vagts, *The History of Militarism* in *ibid.*, 18:197. May, 1938.

LOUIS A. HASELMAYER, JR., Ph.D., Instructor in English

Medieval English Episcopal Registers. London: Society for Propagation of Christian Knowledge. 1938. 16 pages.

"The mystical body of Christ." *New American Church Monthly*, 43:43-57. April, 1938.

MANNING HAWTHORNE, M.A., Instructor in English

"Hawthorne's early years." *Essex Institute Historical Collections*, 74:1-21. January, 1938.

"Nathaniel Hawthorne prepares for college." *New England Quarterly*, 11:66-89. March, 1938.

LORRAINE KRANHOLD, M.A., Instructor in English

Books Read in Literature Today during the Winter Quarter of 1937-38: Fiction. 1938. 32 mimeographed pages.

Books Read in Literature Today during the Winter Quarter of 1937-38: Non-Fiction. 1938. 13 mimeographed pages.

Blank forms for class use. 1937. 9 mimeographed pages.

Mimeographed syllabus and book list for class use. 1937. 12 mimeographed pages.

FRANZ MONTGOMERY, M.A., Instructor in English

Editor, *Essays in Science and Engineering* (with L. Becklund). (Second edition.) New York: Farrar and Rinehart. 1938. 523 pages.

"Alexander Mackenzie's literary assistant." *Canadian Historical Review*, 18:301-304. September, 1937.

BESS R. DWORSKY, M.A., Teaching Assistant in English

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HARRY TRELOGAN, M.S., Instructor in Agricultural Economics

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ROBERT J. EGGERT, M.S., Research Assistant in Agricultural Economics

- Cold Storage Lockers* (with W. E. Morris and S. T. Warrington). University of Minnesota Agricultural Extension Division Special Bulletin No. 187. 1937. 15 pages.

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WALTER B. GARVER, Research Assistant in Agricultural Economics

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G. LEROY PETERSON, M.A., Research Assistant in Agricultural Economics

- "Short term lending to farmers by country banks." *Minnesota Farm Business Notes*, No. 177. September, 1937. 3 mimeographed pages.

FRED E. WETHERILL, Field Agent in Agricultural Economics

- Preliminary Report of Cost of Crop Production in Winona County, 1937* (with S. A. Engene, G. A. Sallee, and G. A. Pond). University of Minnesota Division of Agricultural Economics Report No. 95. February, 1938. 17 mimeographed pages.
- Preliminary Report of Livestock Costs and Returns in Winona County, 1937* (with G. A. Sallee and G. A. Pond). University of Minnesota Division of Agricultural Economics Report No. 99. May, 1938. 20 mimeographed pages.
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WILLIAM BOSS, Professor of Agricultural Engineering and Chief of the Division of Agricultural Engineering

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- "Engineering in agriculture." *Agricultural Engineering News Letter*, No. 75. June, 1938.

HARRY B. ROE, C.E., Professor of Agricultural Engineering

- Soil Erosion Control in Farm Operation* (with J. H. Neal). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 170. 1937. 20 pages.
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ARTHUR J. SCHWANTES, M.S., Associate Professor of Agricultural Engineering

- Filling Silos with the Field Ensilage Harvester* (with J. B. Torrance). (Revised.) University of Minnesota Agricultural Experiment Station Bulletin No. 290. 1937. 24 pages.

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ANDREW HUSTRULID, Ph.D., Assistant Professor of Agricultural Engineering

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JAMES B. TORRANCE, B.S., Assistant Professor of Agricultural Engineering

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ARTHUR G. TYLER, B.S., Assistant Professor of Agricultural Engineering

"Lightning rods." *Agricultural Engineering News Letter*, No. 70. January, 1938.

HALL B. WHITE, M.S., Assistant Professor of Agricultural Engineering

Mechanical Training (with W. Boss and J. G. Dent). (Revised.) St. Paul: Bruce Publishing Company. 1938. 273 pages.

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CLARENCE H. CHRISTOPHERSON, M.A., Instructor in Agricultural Engineering
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J. GRANT DENT, Instructor in Agricultural Engineering
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Ropework. University of Minnesota Agricultural Extension Division Special Bulletin
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PHILIP W. MANSON, B.S.(C.E.), Instructor in Agricultural Engineering
 "Essentials for durable concrete." *Agricultural Engineering News Letter*, No. 68.
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LOREN W. NEUBAUER, M.S.(C.E.), Instructor in Agricultural Engineering
The Farm Shop (with C. H. Christopherson and H. B. White). University of Minnesota
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DALTON G. MILLER, C.E., Senior Drainage Engineer, United States Depart-
 ment of Agriculture
 "Factors which influence the durability of concrete stave silos." *Journal of the American
 Concrete Institute*, Vol. 9, No. 4, pp. 381-97. 1938.

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PAUL E. MILLER, M.A., Professor and Director of Agricultural Extension
 "The relationship of the agricultural extension service to the 1938 farm program."
St. Paul Pioneer Press, April 24, 1938.

THEODORE A. ERICKSON, B.S., Associate Professor of Agricultural Extension
 and State Club Leader

"Safety enlists the 4-H clubs." *National Safety News*, Vol. 36, No. 4, pp. 50, 106. 1937.
 "Conservation work of the 4-H clubs." *Minnesota Conservationist*, No. 52, pp. 10, 26.
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 "Minnesota national 4-H campers go back to the farm." *Extension Service Review*,
 Vol. 8, No. 6, pp. 89-90. 1937.
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 "The educational trip as an incentive." *Ibid.*, Vol. 9, No. 1, p. 15. 1938.
 "How to keep clubs on their toes—the Minnesota way." *National 4-H Club News*, Vol. 16,
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 "T. A. Erickson gives views on work." *4-H Club News* (Douglas County), Vol. 1,
 No. 1, p. 1. 1937.

"1937 was outstanding in 4-H club history." *Markets*, Vol. 1, No. 1, p. 13. February 24, 1938.

"4-H club members and the Ag.-Royal." *Twenty-second Annual Ag.-Royal*, May 15, 1937.

"4-H clubs celebrate silver anniversary." *Minneapolis Tribune*, July 18, 1937.

"4-H club work in Martin County." *Sherburn Advance-Standard*, August 24, 1937.

"Beef show, 20 years old, big event." *St. Paul Pioneer Press*, November 11, 1937.

Editor, 4-H Club Department, *Minnesota Horticulturist*, 1937-38.

Various leaflets on 4-H club work.

HAROLD R. SEARLES, B.S., Associate Professor of Agricultural Extension and Extension Dairyman

Dairy Heifer Project. (Revised.) University of Minnesota Agricultural Extension Division Bulletin No. 9. 1937. 8 pages.

The Cow Testing Association (with R. D. Leighton and E. A. Hanson). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 55. 1937. 4 pages.

The Dairy Herd Improvement Program (with R. D. Leighton and E. A. Hanson). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 57. 1937. 4 pages.

Advanced Dairy Heifer Project. University of Minnesota Agricultural Extension Division Bulletin No. 10. 1938. 4 pages.

Editor, Dairy Department, *Farmer*. 1937-38.

Timely articles for the Minnesota newspapers on various phases of dairy extension work.

PARKER O. ANDERSON, B.S., Assistant Professor of Agricultural Extension and Extension Forester

Trees and Tree Planting. St. Paul: Webb Publishing Company. 1937. 105 pages.

About 40 news articles for various country papers, extension news, and daily papers during the year on different seasonal phases of farm forestry.

Mimeographed material for use in carrying on the forestry project in the various counties.

WILLIAM A. BILLINGS, D.V.M., Assistant Professor of Agricultural Extension and Extension Veterinarian

"Turkeys then and now." *Turkey World*, Vol. 13, No. 6, p. 8. 1938.

Turkey News Letter. Issued monthly. 1937-38. 2 multigraphed pages.

EVA L. BLAIR, B.S., Assistant Professor of Agricultural Extension and Extension Nutritionist

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.

Publicity articles for use in counties, also series of articles for newspapers of state.

Multigraphed and mimeographed subject material for nutrition project, to be used by counties carrying the project.

SPENCER B. CLELAND, M.S., Assistant Professor of Agricultural Extension and Extension Economist in Farm Management

The 1938 Livestock Outlook for Minnesota. University of Minnesota Agricultural Extension Division Pamphlet No. 42. 1937. 6 pages.

Farm Planning (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 43 (for Minnesota type-of-farming area No. 1). 1938. 6 pages.

Farm Planning (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 44 (for Minnesota type-of-farming area No. 2). 1938. 6 pages.

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- Farm Planning* (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 50 (for Minnesota type-of-farming area No. 8). 1938. 6 pages.

CORA E. COOKE, B.S., Assistant Professor of Agricultural Extension and Extension Specialist in Poultry

- Culling for Egg Production* (with A. M. Pilkey). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 150. 1937. 15 pages.
- Let's Look into This Chicken Business*. University of Minnesota Agricultural Extension Division Special Bulletin No. 186. 1937. 16 pages.
- Poultry News Letter and Record Farms Report*. Issued monthly. 1937-38. 2 mimeographed pages.
- Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published in 68 country weekly newspapers in Minnesota. 1937-38.
- Advance and follow-up publicity prepared for newspapers in counties where poultry project is being carried.
- Items for newspapers on various phases of state extension poultry work.

RALPH F. CRIM, B.S., Assistant Professor of Agricultural Extension and Extension Agronomist

- Hybrid Corn Field Trials, 1937*. University of Minnesota Agricultural Extension Division Pamphlet No. 41. 1937. 18 pages.
- "Summary of hybrid corn demonstrations in 1937" (with H. K. Hayes). *Minnesota Seed Grower*, Vol. 11, No. 2, pp. 1, 5, 6. 1938.
- Editor, *Minnesota Seed Grower*. Issued bimonthly. 1937-38.

BELLE O. FISH, M.S., Assistant Professor of Agricultural Extension and Extension Specialist in Child Development

- Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Service. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.
- News items and articles for newspapers on various phases of state extension child development work.
- Mimeographed and multigraphed outlines and subject-matter material for use in child development project. 40 pages.
- Advance and follow-up publicity material for use in counties where the child development project is being carried.

EDWIN A. HANSON, B.S., Assistant Professor of Agricultural Extension and Extension Dairyman

The Cow Testing Association (with R. D. Leighton and H. R. Searles). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 55. 1937. 4 pages.

The Dairy Herd Improvement Program (with R. D. Leighton and H. R. Searles). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 57. 1937. 4 pages.

"Minnesota favored by dairy trends." An article sent to about 23 country weekly newspapers in Minnesota. November and December, 1937.

"How dairymen increase their income." An article sent to about 10 country weekly newspapers in Minnesota. January, 1938.

INEZ M. HOBART, M.A., Assistant Professor of Agricultural Extension and Extension Nutritionist

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.

News items and articles for newspapers on various phases of state extension nutrition work.

Multigraphed and mimeographed subject material for nutrition project, to be used by counties carrying the project.

ARTHUR J. KITTLESON, B.S., Assistant Professor of Agricultural Extension and State Club Agent

4-H Club Leaders' Manual. (Revised.) University of Minnesota Agricultural Extension Division Bulletin No. 18. 1937. 42 pages.

JAMES B. McNULTY, M.S., Assistant Professor of Agricultural Extension and Extension Economist in Farm Management

"County agricultural planning." *Minnesota Farm Business Notes*, No. 176. August, 1937. 3 mimeographed pages.

What 125 Farmers Think of the Electric Fence. 1937. 8 mimeographed pages.

News items for rural newspapers on various phases of agricultural economics.

WILLIAM E. MORRIS, M.S., Assistant Professor of Agricultural Extension and Extension Animal Husbandman

Cold Storage Lockers (with S. T. Warrington and R. J. Eggert). University of Minnesota Agricultural Extension Division Special Bulletin No. 187. 1937. 15 pages.

Beef Production (with W. H. Peters). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 146. 1938. 24 pages.

"Alfalfa opens door to profit in sheep and hog raising." Article sent to about 125 weekly newspapers.

"Legume roughage aids livestock farmers to cut production costs." Article sent to about 125 weekly newspapers.

Mimeographed instruction on 4-H calf feeding for county agents.

Report on Minnesota lamb production contests. 1937. 2 mimeographed pages.

Items for newspapers on various phases of animal husbandry extension work.

EVES E. WHITFIELD, B.S., Assistant Professor of Agricultural Extension and Extension Specialist in Clothing

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.

Advance and follow-up publicity prepared for newspapers in counties where clothing project is being carried.

Multigraphed and mimeographed outlines and subject-matter relative to clothing project work.

HENRY G. ZAVORAL, B.S., Assistant Professor of Agricultural Extension and Extension Animal Husbandman

"The extension application of crossbreeding of swine." *Proceedings of the Thirteenth Annual Meeting of the American Society of Animal Production*, pp. 204-205. 1937.

Report of Minnesota ton litter contest. 1937. 2 mimeographed pages.

Report of Minnesota sow testing project. 1937. 2 mimeographed pages.

News items for newspapers and breed journals on livestock feeding, breeding, and management.

WALLACE W. BROOKINS, M.S., Instructor in Agricultural Extension and Extension Agronomist

Soybeans for Minnesota (with A. C. Army and R. E. Hodgson). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 134. 1938. 16 pages.

RUBY CHRISTENSON, B.S., Instructor in Agricultural Extension and Rural Youth Agent

Rural Youth News Letter. Issued quarterly. 7 mimeographed pages.

Mimeographed leaflets on subject material for Rural Youth project.

DANIEL C. DVORACEK, B.S., Instructor in Agricultural Extension and Extension Economist in Marketing

County Cooperative Councils. M 2. 1937. 7 mimeographed pages.

Suggestions for Local Leaders in Discussion Groups. GD 14. 1937. 5 mimeographed pages.

Mimeographed material prepared for use with discussion groups in 46 counties. 1937-38.

CHARLOTTE KIRCHNER, B.S., Instructor in Agricultural Extension and Extension Specialist in Home Furnishings

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.

Mimeographed subject material for home furnishing project to be used in counties carrying project.

RAMER D. LEIGHTON, B.S., Instructor in Agricultural Extension and Extension Dairyman

Dairy Herd Improvement News Letter. Issued monthly. 6 to 10 mimeographed pages.

Dairy Herd Improvement Annual Summary. University of Minnesota Agricultural Division. 1937. 28 multigraphed pages.

The Cow Testing Association (with E. A. Hanson and H. R. Searles). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 55. 1937. 4 pages.

The Dairy Herd Improvement Program (with E. A. Hanson and H. R. Searles). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 57. 1937. 4 pages.

News items for newspapers on various phases of dairy extension work.

HAROLD R. LEWIS, B.S., Instructor in Agricultural Extension and Publicity Specialist

"Cow herds make the forage market." *Successful Farming*, Vol. 35, No. 10, pp. 13, 72-73. 1937.

Editor

Weekly News Letter (with H. L. Harris). (Clip sheet of University Farm Publicity, issued for Minnesota newspapers.) 1937-38.

Home Sweet Home (syndicated news series). 1937.

MILDRED SCHENCK, B.S., Instructor in Agricultural Extension and State Club Agent

Room Furnishing Project (with Amy Wessel and May Sontag). (Revised.) University of Minnesota Agricultural Extension Division Bulletin No. 14. 1938. 12 pages. Mimeographed subject-matter material on various 4-H club projects. 1937-38.

MAY SONTAG, B.S., Instructor in Agricultural Extension and State Club Agent

Room Furnishing Project (with Amy Wessel and Mildred Schenck). (Revised.) University of Minnesota Agricultural Extension Division Bulletin No. 14. 1938. 12 pages. Mimeographed subject-matter material on various 4-H club projects. 1937-38.

SYLVAN T. WARRINGTON, M.A., Instructor in Agricultural Extension and Extension Assistant Economist Marketing

Cold Storage Lockers (with W. E. Morris and R. J. Eggert). University of Minnesota Agricultural Extension Division Special Bulletin No. 187. 1937. 15 pages.

"Price differentials in Minnesota hog markets." *Minnesota Farm Business Notes*, No. 186. June, 1937. 3 mimeographed pages.

AMY WESSEL, B.S., Instructor in Agricultural Extension and State Club Agent

Room Furnishing Project (with Mildred Schenck and May Sontag). (Revised.) University of Minnesota Agricultural Extension Division Bulletin No. 14. 1938. 12 pages.

Editor, *4-H News Letter*. Issued monthly. 10 mimeographed pages.

Mimeographed subject-matter material on various 4-H club projects. 1937-38.

ELDRED M. HUNT, B.S., Extension Horticulturist

Landscape Planning, the First Step in Home Beautification. University of Minnesota Agricultural Extension Division Special Bulletin No. 193. 1937. 15 pages.

"Landscape planning, the first step in home beautification." *Daytonian*, p. 17. Spring number, 1938.

Mimeographed leaflets relative to horticultural project work.

WILLIAM A. PETERS, B.S., Extension Specialist in Agricultural Conservation

Farm Planning (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 43 (for Minnesota type-of-farming area No. 1). 1938. 6 pages.

Farm Planning (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 44 (for Minnesota type-of-farming area No. 2). 1938. 6 pages.

Farm Planning (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 45 (for Minnesota type-of-farming area No. 3). 1938. 6 pages.

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- Farm Planning* (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 49 (for Minnesota type-of-farming area No. 7). 1938. 6 pages.
- Farm Planning* (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 50 (for Minnesota type-of-farming area No. 8). 1938. 6 pages.
- Rural Program Helps*. Issued monthly. 5 mimeographed pages.

AGRICULTURAL SUBSTATIONS

CROOKSTON

THOMAS M. MCCALL, M.S., Superintendent of the Northwest School and Experiment Station and Associate Professor

Program of the Twenty-eighth Annual Farmers' Week and Women's Meetings at Crookston. University of Minnesota, Northwest School and Experiment Station, Crookston Series, Vol. 31, No. 1, January, 1938. 15 pages.

Announcement for the Year 1938-39. University of Minnesota, Northwest School and Experiment Station, Crookston Series, Vol. 31, No. 2. March, 1938.

"Fruits recommended for planting in Minnesota—report of the fruit list committee" (with G. W. Nelson, W. G. Brierley, M. J. Thompson, B. F. Dunn, and V. K. Bailey). *Minnesota Horticulturist*, 66:38-39. 1938.

Editor, *Northwest Monthly*, Vol. 21, Nos. 8-12, 1937; Vol. 22, Nos. 1-7, 1937-38.

Items for northwestern Minnesota newspapers on the work of the Northwest School and Experiment Station.

RAYMOND S. DUNHAM, M.S.A., Assistant Professor of Agronomy and Agronomist, Northwest School and Experiment Station

"Farm crops show." Pages 25-31 in *Official Premium List of Red River Valley Winter Shows*. 1938.

ORVILLE M. KISER, M.S., Assistant Professor of Dairy and Animal Husbandry, Northwest School and Experiment Station

Crossbred Swine (with W. H. Peters, P. S. Jordan, and L. M. Winters). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 180. 1937. 11 pages.

"The Minnesota studies of crossbreeding swine" (with L. M. Winters, P. S. Jordan, and R. E. Comstock). *Proceedings of the American Society of Animal Production*, pp. 196-203. 1937.

JOHN W. MLINAR, B.S., Assistant Professor and Registrar, Northwest School and Experiment Station

Editor, *Home Project News*, Vol. 4, Nos. 1-5. 1938.

Co-editor (with Dorothy M. Smith), *Red River Aggie*, 1938.

ALVEY M. PILKEY, Instructor, Northwest School and Experiment Station
Culling for Egg Production (with Cora Cooke). (Revised.) University of Minnesota
 Agricultural Extension Division Special Bulletin No. 150. 1937. 15 pages.

DOROTHY M. SMITH, M.A., Instructor, Northwest School and Experiment
 Station
 Co-editor (with J. W. Mlinar), *Red River Aggie*, 1938.

DULUTH

MARK J. THOMPSON, M.S., Superintendent of the Northeast Experiment Sta-
 tion and Associate Professor of Farm Engineering
The First Twenty-five Years of the Northcast Experiment Station, Duluth. 1938. 12
 pages.
 "At the season's end." *Annual Report of St. Louis County Club and Farm Bureau*,
 p. 45. 1937.
 "Fruits recommended for planting in Minnesota—report of the fruit list committee"
 (with G. W. Nelson, W. G. Brierley, T. M. McCall, B. F. Dunn, and V. K.
 Bailey). *Minnesota Horticulturist*, 66:38-39. 1938.
 Editor, Farm Management Section, *Stock and Dairy Farmer*. 1937-38.
 Northeast Minnesota Cooperative Field Tests. Minneapolis: University of Minnesota
 Mimeograph Department. 1937. 10 pages.

EXCELSIOR

FRED E. HARALSON, Assistant Superintendent of the State Fruit Breeding
 Farm, Excelsior
 "Minnesota Fruit Breeding Farm—New fruits described—annual report" (with W. H.
 Alderman). *Minnesota Horticulturist*, 65:4-5, 7. 1938.

MORRIS

THEODORE H. FENSKE, B.S., Acting Superintendent of the West Central
 School and Experiment Station and Assistant Professor
 "A winter visit to Itasca Park." *Minnesota Conservationist*, No. 54, pp. 8, 26, 28, 32,
 33. February, 1938.
 News items sent to west central Minnesota newspapers on the work of the school and
 station.
 Editor
West Central School News, Vol. 21, Nos. 1, 2. 1938.
 Bulletin of the University of Minnesota, Morris Series, Vol. 29, Nos. 1, 2. 1938.
Projector of W. C. S. A., published monthly, April through September, 1937.
 Mimeographed leaflets on home project work.
 Practical Farm Arithmetic (with A. W. Edson). Mimeographed material for class use.
 1938.

JOHN A. ANDERSON, B.S., Assistant Professor of Horticulture, West Central
 School and Experiment Station

Manuals for home project work:
 Gardening. 5 mimeographed pages.
 Fruit growing. 9 mimeographed pages.
 Potato variety comparisons. 11 mimeographed pages.
 Home beautification. 8 mimeographed pages.

ROY O. BRIDGFORD, M.S., Assistant Professor of Agronomy, West Central School and Experiment Station

"Rust situation similar to 1935." West Central Minnesota newspapers, June, 1937.

"The weather for 1937." *Morris Tribune, Morris Sun, and Starbuck Times*, January 1, 1938.

Syllabus—plant diseases, for class use. (Revised.) 9 mimeographed pages.

Laboratory manual for class use. Cereal crops. (Revised.) 8 mimeographed pages.

ALLEN W. EDSON, B.S., Assistant Professor of Farm Management, West Central School and Experiment Station

Practical Farm Arithmetic (with T. H. Fenske). Mimeographed material for class use. 1938.

PHILIP S. JORDAN, B.S., Assistant Professor of Animal and Dairy Husbandry, West Central School and Experiment Station

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