

**PUBLICATIONS
OF THE FACULTIES**

1936-1937

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FOREWORD

A university has two dominant functions. The first is that of instruction. The second is carrying forward the search for new knowledge and its dissemination among those whom it seeks to serve. The pages of this report constitute impressive evidence that the University of Minnesota is actively engaged in performing the second of these functions. The publications listed here indicate the breadth of interest and purpose that motivates the faculty. The items that are included range all the way from highly technical and abstract reports of research of a fundamental nature to articles that attempt to bring to the people of Minnesota the practical applications of the scholar's work. This is as it should be, for one sign of vitality in a state-supported educational institution is a proper balance between what is sometimes called "pure research" and "applied research." To focus all effort upon the former tends to take men somewhat out of the world of reality; to concentrate entirely on the latter is to overlook the fact that the practical affairs of everyday life must be considered in the light of exact knowledge. I feel sure that anyone who reads the pages of this report on the publications of the faculties of the University of Minnesota during the year 1936-37 will become convinced that there is a desirable and significant balance in our research programs.

L. D. COFFMAN, *President*

PUBLICATIONS OF THE FACULTIES

ADMINISTRATION

- MALCOLM M. WILLEY, Ph.D., University Dean and Assistant to the President
"The reaction of faculties to the depression" (with F. K. Richtmyer). *Bulletin of the American Association of University Professors*, 22:377-89. 1936.
"Some depression-recovery problems of higher education" (with F. K. Richtmyer). *Ibid.*, 22:443-52. 1936.
"The young college instructor and the depression" (with F. K. Richtmyer). *Ibid.*, 22:507-509. 1936.
"Depression and recovery in higher education" (with F. K. Richtmyer). *Ibid.*, 23:113-29. 1937.
"Philanthropic foundations and their grants to institutions of higher education during the depression years" (with D. O. Patterson). *School and Society*, 45:661-64. May 8, 1937.
Review of Elbert V. Wills, *The Growth of American Higher Education, Liberal, Professional, Technical* in *Annals of the American Academy of Political and Social Science*, 186:238. 1936.

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

- "Prediction of college success." Pages 27-33 in *Minnesota Studies in Articulation*. Minneapolis: University of Minnesota, Committee on Educational Research. 1937.

THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

ADMINISTRATION

- JOHN B. JOHNSTON, Ph.D., D.Sc., Dean of the College of Science, Literature, and the Arts and Professor of Neurology
Scholarship and Democracy. New York: D. Appleton-Century Company. 1937. 113 pages.
"Higher liberal education." *School and Society*, 44:33-42. July 11, 1936.

ANTHROPOLOGY

- ALBERT E. JENKS, Ph.D., D.Sc., Professor of Anthropology and Chairman of the Department of Anthropology
Pleistocene Man in Minnesota. Minneapolis: University of Minnesota Press. 1936. 197 pages.
"A find that did not ring true." *Scientific American*, Vol. 155, No. 5, pp. 278-79. 1936.
- WILSON D. WALLIS, Ph.D., Professor of Anthropology
"Social anthropology." Pages 92-143, in E. P. Schmidt, editor, *Man and Society*. New York: Prentice-Hall, Inc. 1937.
"Observations on Dr. Alice M. Leahy's *Nature-Nurture and Intelligence*." *Journal of Genetic Psychology*, 49:315-24. 1936.
"Hopi folklore." *Journal of American Folk-Lore*, 49:1-69. 1936.
"Folk tales from Shumopovi, second mesa." Transcription of Hopi Indian legends (with A. Pepinsky). *Ibid.*, Vol. 49, Nos. 191-92, pp. 1-68. March, 1937.

ASTRONOMY

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

- "A rediscussion of the orbits of 77 spectroscopic binaries." *Publication of the Astronomical Observatory of the University of Minnesota*, Vol. 2, No. 4, pp. 53-71. 1936.
- "On the origin of the solar system" (with E. L. Hill). *Observatory*, 60:109-11. 1936.
- "On the variable calcium velocity of Beta Capricorni." *Publications of the Astronomical Society of the Pacific*, 48:172. 1936.
- "Neue Veränderliche am Südhimmel." *Astronomische Nachrichten*, 10. Liste u. 11. Liste, 261:451-58. 1936; 12. Liste, 263:182. 1937.
- "New measures of proper motion stars." *Astronomical Journal*, 46:109. 1937.
- "A faint star of large proper motion." *Ibid.*, 46:140. 1937.
- "Note on the orbit of Kappa Pegasi." *Astrophysical Journal*, 85:398. 1937.
- "The solar system." *Interpreter*, Vol. 11, No. 10, pp. 1, 3. June, 1937.

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

- "Proper motions larger than 0."20 found in northern Bruce regions." *Publications of the Astronomical Society of the Pacific*, 49:146. 1937.

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

- "Some photo-electric observations of RR Lyrae." *Bulletin of Harvard College Observatory*, No. 905, pp. 28-29. May, 1937.

BOTANY

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

- A Guide to the Spring Flowers of Minnesota* (with F. K. Butters). (Seventh revised edition.) Minneapolis: University of Minnesota Press. 1937. 91 pages.
- "Symposium on hay fever: causes, diagnosis, and treatment of hay fever" (with A. O. Dahl). *Minnesota Medicine*, 19:505-508. 1936.
- "Contribution to the knowledge of Pleistocene vegetation in Minnesota." *Science*, 85:51. 1937.
- "The plants of Minnesota and their significance." *Minnesota Chats*, Vol. 19, No. 9, pp. 2, 4. March 18, 1937.

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

- "Observations on human subject subsisting six months on a diet extremely low in fat" (with W. R. Brown, A. E. Hansen, and I. McQuarrie). *Proceedings of the Society for Experimental Biology and Medicine*, 36:281-83. 1937.

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

- A Guide to the Spring Flowers of Minnesota* (with C. O. Rosendahl). (Seventh revised edition.) Minneapolis: University of Minnesota Press. 1937. 91 pages.
- Laboratory outline for elementary taxonomy (with E. C. Abbe). 1937. 14 ditto pages.

WILLIAM S. COOPER, Ph.D., D.Sc., Professor of Botany

- "The problem of Glacier Bay, Alaska: a study in glacier variations." *Geographical Review*, 27:37-62. January, 1937.

JOSEPHINE E. TILDEN, M.S., Professor of Botany

- The Algae and Their Life Relations: Fundamentals of Phycology*. (Reprinted and slightly revised.) Minneapolis: University of Minnesota Press. 1937. 550 pages.

Index algarum universalis (fourteenth issue). Series 2, cards 34,000-35,000 incl. Minneapolis: Colwell Press. 1937.
Labels for South Pacific plants. Second series, 1934-35. Nos. 100-400. 1937.

NED L. HUFF, M.A., Assistant Professor of Botany

Syllabus of Lectures in General Botany. (Revised.) Minneapolis: Burgess Publishing Company. 1937. 36 pages.

"Wildflowers in the spring." *Interpreter*, Vol. 11, No. 9, pp. 1, 3. May, 1937.

ALAN E. TRELOAR, Ph.D., Assistant Professor of Biometry

"The relationship between the length and weight of the newborn infant and the height and weight of the mother" (with Borghild Gunstad). *Human Biology*, 8:565-80. 1936.

"The influence of individual milling technique on flour and loaf characteristics" (with M. C. Markley). *Cereal Chemistry*, 14:305-15. 1937.

ERNST C. ABBE, Ph.D., Instructor in Botany

Abstract of E. C. Abbe, *Studies in the Phylogeny of the Betulaceae. I. Floral and Inflorescence Anatomy and Morphology in Biological Abstracts*, Vol. 10, No. 5, p. 1270. 1936.

Laboratory outline for elementary taxonomy (with F. K. Butters). 1937. 14 ditto pages.

BORGHILD GUNSTAD, Ph.D., Instructor in Biometry

"The relationship between the length and weight of the newborn infant and the height and weight of the mother" (with A. E. Treloar). *Human Biology*, 8:565-80. 1936.

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

"Electrophoresis of sterols. III. Further investigations of cholesterol surfaces." *Journal of General Physiology*, 19:87-94. 1935.

"The electrical charge of mammalian red blood cells" (with H. A. Abramson). *Ibid.*, 19:601-607. 1936.

"Electrokinetic phenomena. XII. Electro-osmotic and electrophoretic mobilities of protein surfaces in dilute salt solution" (with H. A. Abramson). *Ibid.*, 19:727-38. 1936.

"Electrokinetics:

XVI. Streaming potential in small capillaries" (with H. B. Bull). *Journal of Physical Chemistry*, 40:9-20. 1936.

XVII. Surface charge and ion antagonism" (with H. B. Bull). *Journal of General Physiology*, 19:239-47. 1935.

"The average pore size of diaphragms" (with H. B. Bull). *Science*, 83:242-43. 1936.

"Chromosome numbers and electrophoresis of latex in *Asclepias*." *Botanical Gazette*, 97:860-65. 1936.

"A vertical microelectrophoresis cell with non-polarizable electrodes" (with H. A. Abramson and A. Voet). *Journal of the American Chemical Society*, 58:2362-64. 1936.

"A suggested standard method for the investigation of electrophoresis." *Journal of Bacteriology*, 31:531-46. 1936.

"Changes in the electrokinetic potential of bacteria at various phases of the culture cycle." *Ibid.*, 32:433-64. 1936.

"The electrical charge of mammalian red blood cells under normal conditions and in the anemias" (with H. A. Abramson). *Transactions of the American Physical Society, Physical Review*, 50:398. 1936.

"Recent developments in electrokinetic methods and their application to biology and medicine" (with H. A. Abramson). *Transactions of the Electrochemical Society*, 71:135-46. 1937.

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

Weekly articles on landscape gardening and plant culture. *Minneapolis Sunday Tribune*, 1936-37.

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

"Symposium on hay fever: causes, diagnosis, and treatment of hay fever" (with C. O. Rosendahl). *Minnesota Medicine*, 19:505-508. 1936.

"Failure of diakinesis and metaphase pairing and the behavior during meiosis of univalent chromosomes in *Zea Mays*" (with L. Powers). *Journal of Agricultural Research*, Vol. 54, No. 9, p. 655. May 1, 1937.

Abstract of Elmer S. Miller, *Improved Methods for the Purification of the Common Carotenoids and the Quantitative Measurement of Their Absorption Spectra in Biological Abstracts*, Vol. 10, No. 8. 1936.

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

Key to the More Common Non-woody Plants of Itasca Park and the Adjacent Portions of Northern Minnesota. Minneapolis: University of Minnesota Mimeograph Department. 1936. 47 pages; Second revision. 1937. 55 pages.

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

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

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

"Observations on human subject subsisting six months on a diet extremely low in fat" (with A. E. Hansen, G. O. Burr, and I. McQuarrie). *Ibid.*, 36:281-83. 1937.

CLASSICS

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

"Some recent Italian contributions to the study of the classics." *Italica*, 14:64-69. 1937.

"The changing past." *Interpreter*, Vol. 11, No. 5, pp. 1-2, 4. January, 1937.

"English and Latin." *Classical Journal*, 32:534-40. June, 1937.

ROBERT V. CRAM, Ph.D., Assistant Professor of Classical Languages

"On a verse in Vergil Aeneid II. 255 and the post-Homeric tradition concerning the capture of Troy." *Classical Philology*, Vol. 31, No. 3, pp. 253-59. July, 1936.

EDWARD F. D'ARMS, Ph.D., Assistant Professor of Classical Languages

"Lynceus and the muses." *Classical Journal*, 32:482-90. 1937.

Abstracts of *Revue des Études Grecques* in *Classical Weekly*, 30:184, 185, 208, 209, 210. 1937.

"The changing past." *Interpreter*, Vol. 11, No. 5, pp. 1-2, 4. January, 1937.

ENGLISH

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

Composition for College Students (with F. Manchester and F. W. Scott). (Fourth edition.) New York: Macmillan Company. June, 1937. 750 pages.

The Placement System Used by the Department of English (with F. Montgomery).
Bulletin of the University of Minnesota, Vol. 39, No. 53. 1936. 63 pages.

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

Review of Lotte Hefter-Noeldechen, *Kindergestalten im Amerikanischen Roman* in
Journal of English and Germanic Philology, 36:138-39. 1937.

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

Norwegian Emigrant Songs and Ballads (with T. C. Blegen). Minneapolis: University
of Minnesota Press. 1936. x+350 pages.

Review of Carleton Brown, *Chaucer, The Pardoner's Tale* in *Modern Language Notes*,
52:379-81. May, 1937.

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

"The tragic fallacy, so-called." *University of Toronto Quarterly*, 5:457-81. July, 1936.

"The detective spirit in criticism." *Saturday Review of Literature*, Vol. 16, No. 2, pp.
12-17. May 8, 1937.

JAMES T. HILLHOUSE, Ph.D., Associate Professor of English

The Waverley Novels and Their Critics. Minneapolis: University of Minnesota Press.
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TREMAINE McDOWELL, Ph.D., Associate Professor of English

"Edgar Allan Poe and William Cullen Bryant." *Philological Quarterly*, 26:83-84.
January, 1937.

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Modern Language Association*, 52:474-506. June, 1937.

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W. J. Snelling, *Tales of the Northwest* in *Minnesota History*, 17:450-52. December,
1936.

S. T. Williams, *The Life of Washington Irving* in *Modern Language Notes*, 52:223-25.
March, 1937.

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

Edna St. Vincent Millay and Her Times. Chicago: University of Chicago Press. 1936.
266 pages.

Translator, *The Book of Apollonius*, translated into English verse (with R. L. Gris-
mer). Minneapolis: University of Minnesota Press. 1936. 113 pages.

LEWIS B. HESSLER, Ph.D., Assistant Professor of English

"76 enemies of books." *Interpreter*, Vol. 11, No. 3, pp. 1-2. November, 1936.

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

"Dickens." Honolulu: Star-Bulletin. 1936. 8 pages.

"To grammar or not?" *Minneapolis Journal*, March 28, 1937.

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

Review of William Joseph Snelling, *Tales of the Northwest* in *Minnesota Alumni Weekly*,
36:105. October 17, 1936.

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

Reviews of

- A. Schultz, *The Riddle of the Pianist's Finger* in *Minneapolis Journal*, November 1, 1936.
 Ernest Newman, *The Life of Richard Wagner* in *ibid.*, March 7, 1937.
 Symphony concerts, "Music Criticisms" in *ibid.*, November 1, 1936 to June 30, 1937.

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

"Introduction" to W. J. Snelling, *Tales of the Northwest*. Minneapolis: University of Minnesota Press. 1936.

"Mark Twain on the upper Mississippi." *Minnesota History*, 17:369-84. December, 1936.

"William Joseph Snelling's western narratives." *Ibid.*, 17:437-43. December, 1936.

"Captain Marryat at St. Peter's." *Ibid.*, 18:152-64. June, 1937.

"Emerson and communism." *New England Quarterly*, 10:243-61. June, 1937.

Reviews of

H. L. Mencken, *The American Language* in *Minnesota History*, 17:319-20. 1936.

Lloyd Lewis and Henry Justin Smith, *Oscar Wilde Discovers America* in *ibid.*, 17:324-26. 1936.

Editor, W. J. Snelling, *Tales of the Northwest*. Minneapolis: University of Minnesota Press. 1936.

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

Reviews of

Margaret Mitchell, *Gone with the Wind* in *Minnesota Techno-Log*, 17:15. October, 1936.

John Mills, *A Fugue in Cycle and Bels* in *ibid.*, 17:37. November, 1936.

Lincoln Steffens, *Autobiography* in *ibid.*, 17:61. December, 1936.

Max Eastman, *Enjoyment of Laughter* in *ibid.*, 17:85. January, 1937.

Paul Sears, *Deserts on the March* in *ibid.*, 17:109. February, 1937.

Assen Jordanoff, *Your Wings* in *ibid.*, 17:133. March, 1937.

C. W. Walker, *American City* in *ibid.*, 17:165. April, 1937.

E. T. Bell, *Men of Mathematics* in *ibid.*, 17:188. May, 1937.

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

"The apparitor and Chaucer's summoner." *Speculum*, 12:43-57. 1937.

FRANZ MONTGOMERY, M.A., Instructor in English

The Placement System Used by the Department of English (with J. M. Thomas). Bulletin of the University of Minnesota, Vol. 39, No. 53. 1936. 63 pages.

EDWARD W. HAMILTON, M.A., Assistant in English

"Platonic elements in the ethics of the third Earl of Shaftesbury." *University of Colorado Studies* (Abstracts of Theses for Higher Degrees), Vol. 24, No. 1, pp. 34-35. November, 1936.

WALTER E. MYERS, M.A., Assistant in English

"Trade-name suffixes." *American Speech*, 2:448. July, 1937.

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

"Monologue by the last man" (a poem). *Literary Review*, Fall, 1936.

FINE ARTS

WILLIAM L. M. BURKE, M.F.A., Assistant Professor of Fine Arts

"Lucas Cranach the Elder." *Art Bulletin*, 18:25-53. 1936.

DAVID M. ROBB, M.F.A., Assistant Professor of Fine Arts

"The iconography of the Annunciation in the fourteenth and fifteenth centuries." *Art Bulletin*, 18:480-526. 1936.

"Art in the Mid-West." *Interpreter*, Vol. 11, No. 8, pp. 1-2. April, 1937.

GEOGRAPHY

DARRELL H. DAVIS, Ph.D., Professor of Geography and Head of the Department of Geography

"Amana: A study of occupance." *Economic Geography*, Vol. 12, No. 3, pp. 217-30. 1936.

"Note on Amana: A study of occupance." *Geographical Review, Geographical Record*, Vol. 26, No. 4, p. 674. 1936.

"Man's occupation of state." *Minnesota Chats*, Vol. 19, No. 12, p. 4. June 10, 1937.
Review of Alfons Scheinpflug, *Die japanische Kolonisation in Hokkaido*, (Mitteilungen der Gesellschaft für Erdkunde zu Leipzig, Vol. 53, pp. 5-132. 1935) in *Geographical Review*, Vol. 26, No. 4, pp. 685-86. 1936.

RALPH H. BROWN, Ph.D., Assistant Professor of Geography

"Fact and fancy in early accounts of Minnesota's climate." *Minnesota History*, 17:243-61. September, 1936.

SAMUEL N. DICKEN, Ph.D., Assistant Professor of Geography

Syllabus for the Introductory Course in Economic Geography (with R. Hartshorne). (Fourth revised edition.) Ann Arbor: Edwards Brothers. 1936. 80 pages.

World Production Regions. Minneapolis: University of Minnesota Mimeograph Department. 1937. 47 pages.

"The basin settlements of the middle Sierra Madre Oriental, Mexico." *Annals of the Association of American Geographers*, 26:157-78. 1936.

RICHARD HARTSHORNE, Ph.D., Assistant Professor of Geography

Syllabus for the Introductory Course in Economic Geography (with S. N. Dicken). (Fourth revised edition.) Ann Arbor: Edwards Brothers. 1936. 80 pages.

"Geography of the Minneapolis-St. Paul area." Pages 6-15 in G. M. Schwartz, *The Geology of the Minneapolis-St. Paul Metropolitan Area*. Minnesota Geological Survey Bulletin No. 27. Minneapolis: University of Minnesota Press. 1936.

"Human geography." Pages 323-79 in E. P. Schmidt, editor, *Man and Society*. New York: Prentice-Hall, Inc. 1937.

"Geography for what?" *Social Education*, 1:166-72. 1937; republished in condensed form in *Education Digest*, 2:26-28. 1937.

"The Polish corridor." *Journal of Geography*, 36:161-76. May, 1937.

Reviews of

S. J. Paprocki, editor, *Minority Affairs and Poland: An Informatory Outline in Annals of the American Academy of Political and Social Science*, 186:213-14. 1936.

William J. Rose, *The Drama of Upper Silesia* in *ibid.*, 187:243-44. 1936.

GEOLOGY AND MINERALOGY

WILLIAM H. EMMONS, Ph.D., Professor of Geology, Head of the Department of Geology and Mineralogy, and Director of the Minnesota Geological Survey

Gold Deposits of the World. New York: McGraw-Hill Book Company. 1937. 562 pages.

FRANK F. GROUT, Ph.D., Professor of Geology and Mineralogy

"Petrographic study of the gold prospects of Minnesota." *Economic Geology*, 32:56-58. 1937.

Abstract of F. F. Grout and W. W. Longley, "Relation of anorthosite to granite." *Revue de Géologie*, 15:148. 1935.

CLINTON R. STAUFFER, Ph.D., Professor of Geology and Mineralogy

"A diminutive fauna from the Shakopee dolomite (Ordovician) at Cannon Falls, Minnesota." *Journal of Paleontology*, 11:55-60. 1937.

"Mollusca from the Shakopee dolomite (Ordovician) at Stillwater, Minnesota." *Ibid.*, 11:61-68. 1937.

JOHN W. GRUNER, Ph.D., Associate Professor of Geology and Mineralogy

"The structure and chemical composition of greenalite." *American Mineralogist*, 21:449-56. 1936.

"Hydrothermal alteration of montmorillonite to feldspar at temperatures from 245° C. to 300° C." *Ibid.*, 21:511-15. 1936.

"Notes on the structure of serpentine." *Ibid.*, 22:97-105. 1937.

"Hydrothermal leaching of iron ores of the Lake Superior type—a modified theory." *Economic Geology*, 32:121-30. 1937.

Discussion of "The geology of the iron deposits of the Sierra de Imataca, Venezuela." *Transactions of the American Institute of Mining and Metallurgical Engineers*, 115:341-42. 1936.

GEORGE M. SCHWARTZ, Ph.D., Associate Professor of Geology

"Magnetite metacrysts." *American Mineralogist*, 21:635-41. 1936.

"Notes on the jointing of the Devil's Tower, Wyoming" (with C. E. Dutton). *Journal of Geology*, 44:717-28. 1936.

"Artesian water in Minnesota as illustrated by the Minneapolis-St. Paul artesian basin." *Proceedings of the Minnesota Section of the American Water Works Association Twenty-sixth Annual Convention*, pp. 29-35. 1936.

"Paragenesis of pyrrhotite." *Economic Geology*, 32:31-55. 1937.

"Alteration of spodumene to kaolinite in the Etta mine." *American Journal of Science*, 33:303-307. 1937.

"Minnesota's rocks and glaciers." *Minnesota Alumni Weekly*, 36:345-47. February, 1937.

GEORGE A. THIEL, Ph.D., Associate Professor of Geology and Mineralogy

"The Pleistocene geology of the prairie lake region." Pages 17-33 in A. E. Jenks, *Pleistocene Man in Minnesota*. Minneapolis: University of Minnesota Press. 1936.

"Geologic age of potash deposits." *Bulletin of the Geological Society of America*, 47:2015-17. 1936.

"Petrographic analysis of the Glenwood beds of southeastern Minnesota." *Ibid.*, 48:113-21. 1937.

Abstracts in *Annotated Bibliography of Economic Geology*. Vol. 9. 1936. Nos. 214, 217, 219, 221, 223, 224, 225, 226, 228, 229, 231, 232, 246, 247, 248, 249, 250, 251, 254, 255.

CARL E. DUTTON, Ph.D., Instructor in Geology and Mineralogy

"Notes on the jointing of the Devil's Tower, Wyoming" (with G. M. Schwartz). *Journal of Geology*, 44:717-28. 1936.

FRANKLIN B. HANLEY, B.A., Instructor in Geology and Mineralogy

Guides to Geology Field Trips in Twin City Metropolitan Area. 1937. 12 mimeographed pages.

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

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Cutting Costs in Poultry Feeding (with H. J. Sloan). University of Minnesota Agricultural Extension Division Folder No. 58. 1936. 4 pages.

Colony Brooder Houses (with A. C. Smith and H. B. White). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin 105. December, 1936. 12 pages.

Poultry News Letter and Record Farms Report. Issued monthly, 1936-37. 2 mimeographed pages.

Sanitation Project News Letter. Issued semi-monthly, July to September, 1936. 1 mimeographed page.

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published in 68 country weekly newspapers in Minnesota. 1936-37.

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

News items for papers on various phases of state extension poultry work.

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

Soybeans for Minnesota (with A. C. Arny and R. E. Hodgson). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 134. 1936. 12 pages.

Perennial Weeds and Their Control (with H. K. Wilson and A. H. Larson). University of Minnesota Agricultural Extension Division Special Bulletin No. 183. 1937. 28 pages.

Pasture Plants and Pasture Combinations (with A. C. Army). (Revised.) University of Minnesota Agricultural Extension Division Circular No. 40. 1937. 8 pages.

Legume and Grass Mixtures. University of Minnesota Agricultural Extension Division Folder No. 62. 1937. 6 pages.

"Summary of hybrid corn demonstrations in 1936" (with H. K. Hayes). *Minnesota Seed Grower*, Vol. 10, No. 2, pp. 1, 5-6. 1937.

Editor, *Minnesota Seed Grower*. Issued bimonthly. 1936-37.

BELLE OSBORN 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. 1936-37.

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.

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 Dairy Specialist

The Cow Testing Association (with H. R. Searles and R. Leighton). University of Minnesota Agricultural Extension Division Folder No. 55. 1936. 4 pages.

Throw the C.T.A. Searchlight on Your Herd (with H. R. Searles and R. Leighton). University of Minnesota Agricultural Extension Division Folder No. 56. 1936. 4 pages.

The Dairy Herd Improvement Program (with H. R. Searles and R. Leighton). University of Minnesota Agricultural Extension Division Folder No. 57. 1936. 4 pages.

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

Essentials for Good Nutrition. University of Minnesota Agricultural Extension Division. HN 6. 1936. 12 pages.

Farm First for Family Food. (Revised.) University of Minnesota Agricultural Extension Division. HN 4. 1937. 4 pages.

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 120 country weekly newspapers in Minnesota. 1936-37.

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

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

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

"Better cropping systems increase farm incomes." An article sent to about 125 weekly newspapers. January and February, 1937.

MARY MAY MILLER, B.S., Assistant Professor of Agricultural Extension and Extension Specialist in Home Management

Four pages in *Farm Records and Accounts*. St. Paul: University of Minnesota Department of Agriculture. 1936.

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Service. Published weekly in 68 country weekly newspapers in Minnesota. 1936-37.

Forty-eight mimeographed and multigraphed outlines and subject-matter leaflets for use in home management project work.

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

The 4-H Baby Beef Calf. University of Minnesota Agricultural Extension Division 4-H Club Bulletin No. 3. 1936. 16 pages.

Stomach Worms in Sheep. University of Minnesota Agricultural Extension Division Folder No. 42. 1936. 4 pages.

Trimmed Lambs Pay. University of Minnesota Agricultural Extension Division Folder No. 35. 1937. 4 pages.

GEORGE H. NESOM, B.S., Assistant Professor of Soils and Extension Soils Specialist

"More alfalfa hay needed." *Big Lake Herald*, March 31, 1937.

"Grow more alfalfa." A series of four articles appearing in the following newspapers: *Big Lake Herald*, March 31, 1937, April 7, 14, 21, 1937; *Star News*, Elk River, March 31, 1937, April 7, 14, 21, 1937; *St. Cloud Daily Times*, March 29, 1937, April 6, 13, 20, 1937; *Anoka Herald*, March 31, 1937, April 7, 14, 21, 1937; *Anoka Union*, March 31, 1937, April 7, 14, 21, 1937.

Pasture Management in Southeastern Minnesota (with A. C. Arny and N. Snustad). 8 mimeographed pages.

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

The Cow Testing Association (with E. A. Hanson and R. Leighton). University of Minnesota Agricultural Extension Division Folder No. 55. 1936. 4 pages.

Throw the C.T.A. Searchlight on Your Herd (with E. A. Hanson and R. Leighton). University of Minnesota Agricultural Extension Division Folder No. 56. 1936. 4 pages.

The Dairy Herd Improvement Program (with E. A. Hanson and R. Leighton). University of Minnesota Agricultural Extension Division Folder No. 57. 1936. 4 pages.

"Twixt feed bin and milk pail." *Successful Farming*, Vol. 34, No. 10, p. 10, 42. 1936. Editor, Dairy Department, *Farmer*. 1936-37.

W. BRUCE SILCOX, Ph.D., Assistant Professor of Agricultural Extension and Extension Specialist in Marketing

The Agricultural Outlook in Minnesota for 1937 (with F. W. Peck). University of Minnesota Agricultural Extension Division Pamphlet No. 39. 1936. 16 pages.

"Some economic aspects of the cheese industry in Minnesota." *Minnesota Farm Business Notes*, No. 165. 1936. 4 mimeographed pages.

"Analysis of operations, twenty cheese factories, southeastern Minnesota 1935." December, 1936. 6 mimeographed pages.

"Dairy outlook favorable from long time aspect." *New Letter*, University of Minnesota Agricultural Extension Division and also 12 weekly newspapers in Minnesota. December, 1936.

Foreign Trade and the Farmer (with O. B. Jesness). September, 1936. 4 mimeographed pages.

Advance and follow-up publicity for newspapers in counties where outlook and marketing meetings are held.

News items for papers on various phases of marketing 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 Service. Published weekly in 68 country weekly newspapers in Minnesota. 1936-37.

Mimeographed and multigraphed outlines and subject-matter relative to clothing project work.

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

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

"Hog health makes wealth." Chapter 4, pages 43-56 in *The Mortgage Lifter*. Chicago: Hog Breeder Inc. 1936.

"Sheep health makes wealth." Chapter 6, pages 125-39 in *The Golden Hoof*. Chicago: Hog Breeder Inc. 1936.

Report on Minnesota ton litter contest. 3 mimeographed pages.

Report on Minnesota sow testing project. 2 mimeographed pages.

News items for newspapers on livestock feeding and management.

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

Marketing Wheat and Barley. University of Minnesota Agricultural Extension Division Folder No. 59. 1936. 4 pages.

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

Rural Youth News Letter. Issued monthly. 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

"Community livestock auctions" (with S. T. Warrington and E. C. Johnson). *Minnesota Farm Business Notes*, No. 166. October, 1936. 3 mimeographed pages.

"Quality of Minnesota inspected potatoes" (with W. C. Waite and V. C. Norton). *Ibid.*, No. 171. March, 1937. 3 mimeographed pages.

"Discussion groups as a means of training leadership." *Extension Service Review*, Vol. 8, No. 4, p. 56. 1937.

Report of Group Discussion Project in Minnesota 1935-36. GD 5. 6 mimeographed pages.

KENNETH W. INGWALSON, B.S., Instructor in Agricultural Extension and State Club Agent

"Typical 4-H garden and home beautification stories." *Minnesota Horticulturist*, 65:13. 1937.

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

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota 1936-37.

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

RAMER LEIGHTON, B.S., Instructor in Agricultural Extension and Extension Dairy Specialist

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

Dairy Herd Improvement Annual Summary. University of Minnesota Agricultural Extension Division. 1936. 26 multigraphed pages.

The Cow Testing Association (with E. A. Hanson and H. R. Searles). University of Minnesota Agricultural Extension Division Folder No. 55. 1936. 4 pages.

Throw the C.T.A. Searchlight on Your Herd (with E. A. Hanson and H. R. Searles). University of Minnesota Agricultural Extension Division Folder No. 56. 1936. 4 pages.

The Dairy Herd Improvement Program (with E. A. Hanson and H. R. Searles). University of Minnesota Agricultural Extension Division Folder No. 57. 1936. 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

Editor

"Home, Sweet Home" (syndicated news series). 1936.

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

Newspaper and magazine articles publicizing Farm and Home Week.

Articles for publication in farm magazines and daily newspapers.

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

News items for newspapers on 4-H club work.

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

"Community livestock auctions" (with D. C. Dvoracek and E. C. Johnson). *Minnesota Farm Business Notes*, No. 166. October, 1936. 3 mimeographed pages.

"Record-keeping by cooperative livestock trucking associations" (with R. J. Eggert). *Ibid.*, No. 172. April, 1937. 3 mimeographed pages.

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

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

ELDRED M. HUNT, B.S., Horticulture Extension Specialist

Mimeographed leaflets for class use. 1937. 21 pages.

WILLIAM A. PETERS, B.S., District Agricultural Conservation Agent

Rural Program Helps. Issued monthly. 5 mimeographed pages.

LOUIS P. ZIMMERMAN, B.E.E., Rural Electrification Specialist

Farmstead Wiring (with J. Romness). University of Minnesota Agricultural Extension Division Special Bulletin No. 179. 1936. 16 pages.

RAYMOND AUNE, M.S., Olmsted County Agricultural Agent

Crop Rotations for Olmsted County (with S. B. Cleland). Olmsted County Extension Service, Rochester, Minnesota. 1937. 6 pages.

JOHN E. GRATHWOL, B.S., Ottertail County Agricultural Agent

Crop Rotations for Ottertail County (with S. B. Cleland and C. Kelehan). Ottertail County Extension Service, Fergus Falls, Minnesota. 1937. 4 pages.

- GEORGE W. LARSON, B.S., Chisago County Agricultural Agent
Crop Rotations for Chisago County (with S. B. Cleland). Chisago County Extension Service, North Branch, Minnesota. 1937. 6 pages.
- SIGVALD C. MARTENSEN, Stevens County Agricultural Agent
Crop Rotations for Stevens County (with S. B. Cleland). Stevens County Extension Service, Morris, Minnesota. 1937. 6 pages.
- DONALD A. PEET, B.S., Clay County Agricultural Agent
Crop Rotations for Clay County (with S. B. Cleland). Clay County Extension Service, Moorhead, Minnesota. 1937. 6 pages.
- JAMES A. SALISBURY, B.S., Kittson County Agricultural Agent
Cropping Systems for Kittson County (with S. B. Cleland). Kittson County Extension Service, Hallock, Minnesota. 1937. 6 pages.
- RUDOLPH M. STOLEN, East Polk County Agricultural Agent
Crop Rotations for East Polk County (with S. B. Cleland). East Polk County Extension Service, McIntosh, Minnesota. 1937. 6 pages.
- GUSTAVE A. STROBEL, B.S., Steele County Agricultural Agent
Crop Rotations for Steele County (with S. B. Cleland). Steele County Extension Service, Owatonna, Minnesota. 1937. 6 pages.
- WAYNE W. WEISER, B.S., Lac qui Parle County Agricultural Agent
Cropping Systems for Lac qui Parle County (with S. B. Cleland). Lac qui Parle County Extension Service, Madison, Minnesota. 1937. 6 pages.

AGRICULTURAL SUBSTATIONS

CROOKSTON

- AUSTIN A. DOWELL, Ph.D., Superintendent of the Northwest School and Station and Professor of Agriculture
Program of the Twenty-seventh Annual Farmers' Week and Women's Meetings at Crookston. University of Minnesota, Northwest School and Experiment Station, Crookston Series, Vol. 30, No. 1, January, 1937. 16 pages.
 Editor, *Northwest Monthly*. Vol. 20, No. 8 to Vol. 21, No. 4. 1936-37.
 News items for northwestern Minnesota papers on the work of the Northwest School and Experiment Station.
- RUFUS J. CHRISTGAU, B.S., Assistant Professor of Animal Husbandry and Athletic Coach, Northwest School and Experiment Station
 Report on sheep breeding (with O. M. Kiser and L. M. Winters). 5 mimeographed pages. 1936-37.
- RAYMOND S. DUNHAM, M.S.A., Assistant Professor of Agronomy and Agronomist, Northwest School and Experiment Station
Thirty-six Years of Weather in the Red River Valley. Bulletin of the University of Minnesota, Northwest School and Experiment Station, Crookston Series, Vol. 29, No. 6. July, 1936.

Forage Crops for the Red River Valley. Bulletin of the University of Minnesota, Northwest School and Experiment Station, Crookston Series, Vol. 30, No. 2. March, 1937.

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

Crossbred Swine (with L. M. Winters, P. S. Jordan, and W. H. Peters). University of Minnesota Agricultural Experiment Station Special Bulletin No. 180. 1936. 12 pages.

"The value as sires for swine production of three inbred boars" (with R. T. Clark and L. M. Winters). *Proceedings of the Twenty-ninth Annual Meeting of the American Society of Animal Production*, pp. 2229-32. 1936.

Report on sheep breeding (with L. M. Winters and R. J. Christgau). 5 mimeographed pages.

THOMAS M. MCCALL, M.S.A., Assistant Professor of Horticulture and Horticulturist, Northwest School and Experiment Station

"Fruits recommended for planting in Minnesota—report of the fruit list committee" (with G. W. Nelson, W. G. Brierley, B. F. Dunn, M. J. Thompson, and F. P. Daniels). *Minnesota Horticulturist*, 65:60. 1937.

Editor, *Northwest Monthly*, Vol. 21, Nos. 5-7. 1937.

News items for northwestern Minnesota papers on the work of the Northwest School and Experiment Station.

KATHERINE HENNIG, B.S., Instructor in Music, Northwest School and Experiment Station

Co-editor, *Red River Aggie*, 1937.

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

Project News, Vol. 3, Nos. 1-6. 1937. Four- or five-page mimeographed reports to home project students.

DONALD C. STREETER, B.S., Instructor, Northwest School and Experiment Station

Co-editor, *Red River Aggie*, 1937.

DULUTH

MARK J. THOMPSON, M.S., Superintendent of the Northeast Experiment Station and Associate Professor of Farm Engineering

"Fruits recommended for planting in Minnesota—report of the fruit list committee" (with G. W. Nelson, T. M. McCall, B. F. Dunn, W. G. Brierley, and F. B. Daniels). *Minnesota Horticulturist*, 65:60. 1937.

"Mark Thompson's farm talks." Editorial page, *Stock and Dairy Farmer*. 1936-37.

Editor, Farm Management Section, *Stock and Dairy Farmer*. 1936-37.

Duluth field crops through three seasons. 1937. 12 mimeographed pages.

Duluth hay crops through three seasons. 1937. 17 mimeographed pages.

Duluth sunflowers through three seasons. 1937. 9 mimeographed pages.

Duluth potato crops through three seasons. 1937. 14 mimeographed pages.

Duluth rutabagas through three seasons. 1937. 11 mimeographed pages.

Duluth bush fruits through three seasons. 1937. 6 mimeographed pages.

Duluth orchards through three seasons. 1937. 13 mimeographed pages.

Duluth vegetable crops through three seasons. 1937. 7 mimeographed pages.

GRAND RAPIDS

RAYMOND L. DONOVAN, B.S., Superintendent of the North Central School and Experiment Station and Associate Professor

Sunflower Silage in Northern Minnesota (with C. L. Cole and N. N. Allen). University of Minnesota Agricultural Extension Division Special Bulletin No. 181. 1936. 12 pages.

"The influence of sunflower silage upon milk production" (with C. L. Cole and N. N. Allen). *Journal of Dairy Science*, 20:221-30. 1937.

CLARENCE L. COLE, M.S., Instructor in Animal Husbandry, North Central School and Experiment Station

Sunflower Silage in Northern Minnesota (with R. L. Donovan and N. N. Allen). University of Minnesota Agricultural Extension Division Special Bulletin No. 181. 1936. 12 pages.

"Changes in weight of new born dairy calves as related to the method of feeding." *Journal of Dairy Science*, 20:113-16. 1937.

"The influence of sunflower silage upon milk production" (with R. L. Donovan and N. N. Allen). *Ibid.*, 20:221-30. 1937.

MARY KULSTAD, Instructor in Mathematics, Registrar, and Librarian, North Central School and Experiment Station

Managing editor, *North Central Quarterly*, 1936-37.

MORRIS

PAUL E. MILLER, M.Agr., Superintendent of the West Central School and Experiment Station and Professor of Agriculture

"It needn't happen here." *Kiwanis Magazine*, 22:155, 181, 188. March, 1937.

Editor

West Central School News, 1936-37.

Bulletin University of Minnesota, Morris Series, Volume 27. 1936-37.

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

A B C of chemistry. Mimeographed material for class use. 1937. 34 pages.

Botany outline. Mimeographed material for class use. 1937. 8 pages.

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

"The weather for 1936." *Morris Tribune*, *Morris Sun*, and *Starbuck Times*, January 1, 1937.

Soils laboratory manual for class use. 24 mimeographed pages.

Laboratory manual for class use. Cereal crops. 12 mimeographed pages.

Syllabus—plant diseases, for class use. (Revised.) 12 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). 29 mimeographed pages.

"Grow your own trees for farm windbreaks." West Central Minnesota newspapers, September, 1936.

"Propagation of American elms from seed." West Central Minnesota newspapers, July, 1936.

THEODORE H. FENSKE, B.S., Assistant Professor of Farm Crops and Soils,
West Central School and Experiment Station

Practical Farm Arithmetic (with A. W. Edson). 29 mimeographed pages.

"Junior conservationists of Minnesota." *Kiwanis Magazine*, 21:394. July, 1936.

"Minnesota then and now." *Minnesota Conservationist*, No. 41, page 16. January, 1937.

"Home project registration above previous years." *West Central School News*, Vol. 20, No. 1, p. 3. March, 1937.

Co-writer of weekly news articles sent to West Central Minnesota newspapers.

Editor, *Projector of W. C. S. A.* Published monthly, April through September, 1936.

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

Crossbred Swine (with L. M. Winters, O. M. Kiser, and W. H. Peters). University of Minnesota Agricultural Extension Division Special Bulletin No 180. 1936. 12 pages.

Comparison of Corn and Proso Millets; Importance of Lime and Prairie Hay Ration; and Methods of Feeding Lime (with W. H. Peters). University of Minnesota West Central School and Station, Morris S-21. 1937. 7 pages.

GERTRUDE ESTEROS, B.S., Instructor in Home Economics, West Central School and Experiment Station

"A study of juiciness and flavor of standing and rolled beef rib roasts" (with Alice M. Child). *Journal of Home Economics*, 29:183-87. 1937.

ALBERT C. HEINE, Instructor in Agricultural Engineering, West Central School and Experiment Station

"Tractor project." *Projector*. June, 1936.

"Athletics at West Central." *Mocassin*, school annual. 1937.

Farm mechanics. 30 mimeographed pages.

Automotive electricity. 36 mimeographed pages.

GLENN I. PRICKETT, B.A., Instructor, West Central School and Experiment Station

Editor, 4-H News Column, *Grant County Herald*, weekly April 15 to October 1, 1937.

ALEXANDER B. ROLFE, Instructor, West Central School and Experiment Station

"Welders attend confab at Dunwoody Institute." *West Central School News*, 20:2. March, 1937.

Mimeographed instruction manual for class use. 1937.

Principle of welding. General welding knowledge. 1 mimeographed sheet.

WASECA

ROBERT E. HODGSON, M.S., Superintendent of the Southeast Experiment Station and Assistant Professor of Agronomy and Farm Management

Soybeans for Minnesota (with A. C. Arny and R. F. Crim). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 134. 1936. 12 pages.

"How are we doing?" *Shorthorn World*, Vol. 21, No. 11, pp. 48-49. 1936.

"Let the scale tell the tale." *Milking Shorthorn Journal*, Vol. 18, No. 5, front page. 1937.

Weekly articles used by 140 newspapers of southern Minnesota. 1936-37.

ZUMBRA HEIGHTS

FRED E. HARALSON, Assistant Superintendent of the State Fruit Breeding Farm

"Fruit Breeding Farm report for 1936" (with W. H. Alderman). *Minnesota Horticulturist*, 65:4-5. 1937.

AGRONOMY AND PLANT GENETICS

HERBERT K. HAYES, D.Sc., Professor of Plant Genetics and Chief of the Division of Agronomy and Plant Genetics

"Breeding of crop plants." Pages 68-76 in *Encyclopedia Sexualis*. New York: Dingwall Rock, Ltd. 1936.

"Agricultural research in China." *Science*, n.s., 85:321-25, 347-50. 1937.

"Summary of hybrid corn demonstrations in 1936" (with R. F. Crim). *Minnesota Seed Grower*, Vol. 10, No. 2, pp. 1, 5-6. 1937.

ALBERT C. ARNY, M.S., Associate Professor of Agronomy

Reed Canary Grass for Meadows and Pastures. (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 137. 1936. 8 pages.

Soybeans for Minnesota (with R. F. Crim and R. E. Hodgson). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 134. 1936. 12 pages.

Pasture Plants and Pasture Combinations (with R. F. Crim). (Revised.) University of Minnesota Agricultural Extension Division Circular No. 40. 1937. 8 pages.

Alfalfa Aids in Minnesota. (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 104. 1937. 16 pages.

"Breeding better flax varieties for Minnesota." *Proceedings of the Minnesota Academy of Science*, 4:29-38. 1936.

Pasture Management in Southeastern Minnesota (with G. H. Nesom and N. Snustad). 8 mimeographed pages.

LEROY POWERS, Ph.D., Associate Professor of Agronomy

"Failure of diakinesis and metaphase pairing and the behavior during meiosis of univalent chromosomes in *Zea Mays*" (with A. O. Dahl). *Journal of Agricultural Research*, Vol. 54, No. 9, p. 655. May, 1937.

HAROLD K. WILSON, Ph.D., Associate Professor of Agronomy

Perennial Weeds and Their Control (with R. F. Crim and A. H. Larson). University of Minnesota Agricultural Extension Special Bulletin No. 183. 1937. 28 pages.

Fallow in Weed Control. University of Minnesota Agricultural Extension Folder No. 61. 1937. 4 pages.

"Economic botany." *American Yearbook*, pp. 715-21. 1937.

"Bringing outsiders in (the Minnesota Academy of Science)." *World Convention Dates*, Vol. 21, No. 10, pp. 13, 28, 36. 1936.

"Chemical and cultural practices in weed control." *Minnesota Seed Grower*, Vol. 9, No. 4, pp. 1, 4. 1936.

"Weed prevention beats cure." *Ibid.*, Vol. 10, No. 2, pp. 1, 5. 1937.

Editor, *Proceedings of the Minnesota Academy of Science*. 1936.

IVER J. JOHNSON, Ph.D., Assistant Professor of Agronomy and Plant Genetics

"Prediction of double cross yields in corn" (with C. W. Doxtator). *Journal of the American Society of Agronomy*, 28:460-62. 1936.

CARL BORGESON, M.S., Instructor in Agronomy

- "Seed certification in 1936." *Minnesota Seed Grower*, Vol. 9, No. 3, pp. 1, 2. 1936.
 "Registered seed garden plots." *Ibid.*, Vol. 9, No. 3, pp. 1, 2. 1936.
 "Registered seed for Soviet Russia." *Ibid.*, Vol. 9, No. 5, p. 2. 1936.
 "The 1936-1937 seed directory." *Ibid.*, Vol. 9, No. 5, p. 3. 1936.
 "Registration requirements for field crop plants." *Ibid.*, Vol. 10, No. 2, p. 2. 1937.

CHARLES W. DOXTATOR, Ph.D., Instructor in Agronomy and Plant Genetics

- "Prediction of double cross yields in corn" (with I. J. Johnson). *Journal of the American Society of Agronomy*, 28:460-62. 1936.

WILL M. MYERS, Ph.D., Instructor in Agronomy and Plant Genetics

- "A correlated study of the inheritance of seed size and botanical characters in the flax cross, Redwing x Ottawa 770B." *Journal of the American Society of Agronomy*, 28:623-35. 1936.

ANIMAL AND POULTRY HUSBANDRY

WALTER H. PETERS, M.Agr., Professor of Animal Husbandry and Chief of the Division of Animal and Poultry Husbandry

- Crossbred Swine* (with L. M. Winters, O. M. Kiser, and P. S. Jordan). University of Minnesota Agricultural Extension Division Special Bulletin No. 180. 1936. 12 pages.
Comparison of Corn and Proso Millets; Importance of Lime and Prairie Hay Ration; and Methods of Feeding Lime (with P. S. Jordan). University of Minnesota West Central School and Station, Morris S-21. 1937. 7 pages.
 Editor, Livestock Department, *Farmer*. 1936.

EVAN F. FERRIN, M.Agr., Professor of Animal Husbandry

- "Brood sow testing." Chapter 10, pages 105-10 in *Mortgage Lifter*. Chicago: Hog Breeder, Inc. 1936.
 "Animal husbandry and the General College." *Proceedings of the Twenty-ninth Annual Meeting of the American Society of Animal Production*, pp. 182-85. 1936.
 "Different grades of corn." *Feedstuffs*, 52:11. 1936.
 "Will hog profits be boosted by present increase in low grading corn?" *American Hampshire Herdsman*, Vol. 12, No. 1, p. 12. 1937.
 "Penn State takes purple." *Chicago Daily Drovers Journal*, December 2, 1936.
 Mimeographed reports of swine feeding investigations, H. 67-69.

HUBERT J. SLOAN, Ph.D., Professor of Poultry Husbandry

- Cutting Costs in Poultry Feeding* (with Cora Cooke). University of Minnesota Agricultural Extension Division Folder No. 58. 1937. 4 pages.
 "The spring poultry outlook." Released to daily papers, April 22, 1937.

ARTHUR C. SMITH, B.S., Professor of Poultry Husbandry, Emeritus

- Colony Brooder Houses* (with Cora Cooke and H. B. White). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin 105. 1936. 12 pages.

LAURENCE M. WINTERS, Ph.D., Professor of Animal Husbandry

- Studies on the Physiology of Reproduction in the Sheep. IV. Fetal Development* (with G. Feuffel). University of Minnesota Agricultural Experiment Station Technical Bulletin 118. 1936. 20 pages.
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 "The proving of bulls." *Shorthorn World*, Vol. 21, No. 9, pp. 3-4. 1936.

- "Opportunities in cattle breeding for the young man." *Ibid.*, Vol. 21, No. 11, p. 7. 1936.
- "Observations and reflections on two trips through the drouth regions." *Ibid.*, Vol. 21, No. 15, p. 3. 1936.
- "The production of better beef and dual purpose cattle." *Ibid.*, Vol. 21, No. 17, p. 8. 1936.
- "A constructive breeder's program." *Ibid.*, Vol. 21, No. 21, p. 3. 1937.
- "Breeding market beef cattle." *Ibid.*, Vol. 22, No. 3, p. 3. 1937.
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