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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


"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.


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


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


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.


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


Boris G. Karlov, 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


**BOTANY**

C. Otto Rosendahl, Ph.D., Professor of Botany and Head of the Department of Botany


George O. Burr, Ph.D., Professor of Botany


Frederic K. Butters, Ph.D., Professor of Botany


Laboratory outline for elementary taxonomy (with E. C. Abbe). 1937. 14 ditto pages.

William S. Cooper, Ph.D., D.Sc., Professor of Botany


Josephine E. Tilden, M.S., Professor of Botany


**Ned L. Huff, M.A., Assistant Professor of Botany**

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


**Alan E. Treloar, Ph.D., Assistant Professor of Biometry**


**Ernst C. Abbe, Ph.D., Instructor in Botany**


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

**Borgild Gunstad, Ph.D., Instructor in Biometry**


**Laurence S. Moyer, Ph.D., Instructor in Botany**


"Electrokinetics:


"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.


UNIVERSITY OF MINNESOTA

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

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

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

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

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.

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

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

ENGLISH

JOSEPH M. THOMAS, Ph.D., Professor of English and Assistant Dean for the Senior College
The Placement System Used by the Department of English (with F. Montgomery).

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

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.

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

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

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

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

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

ELIZABETH JACKSON, Ph.D., Assistant Professor of English
"To grammar or not?" Minneapolis Journal, March 28, 1937.

CHARLES W. NICHOLS, Ph.D., Assistant Professor of English
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.
Symphony concerts, “Music Criticisms” in ibid., November 1, 1936 to June 30, 1937.

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


Reviews of
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.
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


FRANZ MONTGOMERY, M.A., Instructor in English


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


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


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

PUBLICATIONS OF THE FACULTIES

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


GEOGRAPHY

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


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


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

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

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


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

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


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


"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


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


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


"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.


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


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


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

Guides to Geology Field Trips in Twin City Metropolitan Area. 1937. 12 mimeographed pages.
PUBLICATIONS OF THE FACULTIES

DUNCAN McCOYNNELL, M.S., Instructor in Geology and Mineralogy

"One of the geologist's tools." Compass, 17:34-36. 1936.

LINCOLN R. PAGE, M.A., Instructor in Geology


GERMAN

JAMES DAVIES, Ph.D., Assistant Professor of German

Reviews of
Arnold Schultz, Riddle of the Pianist's Finger in ibid., October 11, 1936.
Rose Heybut, Like Softest Music in ibid., October 18, 1936.
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William MacNally, Prelude to Exile in ibid., January 31, 1937.
Catherine D. Bowen and Barbara von Meek, Beloved Friend in ibid., February 7, 1937.
Pierre Key, This Business of Singing in ibid., February 21, 1937.
Oscar Thompson, The American Singer in ibid., March 14, 1937.
Leon Thorner, Bitter Glory in ibid., March 14, 1937.
Zsolt Harzanyi, Immortal Franz (translated by L. Hudson) in ibid., April 11, 1937.
Sigmund Spaeth, Great Symphonies in ibid., May 16, 1937.
Frequent articles in Christian Science Monitor. 1936-37.

WAYLAND D. HAND, Ph.D., Instructor in German


HISTORY

LESTER B. SHIPLEE, Ph.D., Professor of History and Chairman of the Department of History

"Joseph Albert Wheelock." Pages 60-61 in ibid., Vol. 20.
Reviews of
ALFRED L. BURT, M.A. (Oxon.), Professor of History


Reviews of


HERBERT HEATON, M.A., M.Com., D. Litt., Professor of Economic History


Reviews of


AUGUST C. KREY, Ph.D., Professor of History


Reviews of

"Key to Minnesota." Minneapolis Tribune, March 27, 1937.

ALBERT B. WHITE, Ph.D., Professor of History

THEODORE C. BLEGEN, Ph.D., Associate Professor of History
Minnesota History (A quarterly magazine), 1936-37.

GEORGE M. STEPHENSON, Ph.D., Associate Professor of History

HAROLD C. DEUTSCH, Ph.D., Assistant Professor of History

DAVID H. WILLSON, Ph.D., Assistant Professor of History

TOM B. JONES, Ph.D., Instructor in History
UNIVERSITY OF MINNESOTA


RODNEY C. LOEHR, M.A., Teaching Assistant in History


WENTWORTH S. MORRIS, M.A., Teaching Assistant in History

*A Fraternity Manual of Practice*. Minneapolis: University of Minnesota Mimeograph Department. 1936. 102 pages.

JOURNALISM

RALPH D. CASEY, Ph.D., Professor of Journalism and Chairman of the Department of Journalism


Editor, *Journalism Quarterly*. 1936.


THOMAS F. BARNHART, B.A., Associate Professor of Journalism


RALPH O. NAFZIGER, Ph.D., Associate Professor of Journalism


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Reviews of


Editor, *The Foreign Press Department, Journalism Quarterly*, 1936-37.
MITCHELL V. CHARNLEY, M.A., Assistant Professor of Journalism

Preliminary Notes on a Study of Newspaper Accuracy.  (Reprinted from Journalism Quarterly.) University of Minnesota, Department of Journalism. 1936. 8 pages.


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Reviews of
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Frank Luther Mott, Good Stories in ibid., 14:57. 1937.
Donald Wilhelm, Writing for Profit in ibid., 14:182. 1937.

Associate editor Journalism Quarterly, 1936-37.

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EDWIN H. FORD, M.A., M.S., Assistant Professor of Journalism


“Revealing the world of business.” Chapter 17 in ibid.

“The art and the craft of the literary journalist.” Chapter 36 in ibid.


“What did he say?” Ibid., 16:138, 143-44. April, 1937.

Reviews of
John Cowper Powys, Maiden Castle in Minneapolis Star, November 28, 1936.
Harr E. Sears, America—A re-appraisal in ibid., February 27, 1937.
A. P. Herbert, Mild and Bitter in ibid., April 17, 1937.

FRED L. KILDOW, B.A., Instructor in Journalism


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N.S.P.A. helps. A monthly service bulletin to members of the National Scholastic Press Association. 5-7 mimeographed pages monthly.

MATHEMATICS

WILLIAM L. HART, Ph.D., Professor of Mathematics and Chairman of the Department of Mathematics

RAYMOND W. BRINK, Ph.D., Professor of Mathematics


DUNHAM JACKSON, Ph.D., Professor of Mathematics


HENRY P. THIELMAN, Ph.D., Assistant Professor of Mathematics


JOEL L. BRENNER, Ph.D., Instructor in Mathematics


MUSIC

DONALD N. FERGUSON, M.A., Professor of Music

_Notes on the Programs of the Minneapolis Symphony Orchestra, Season 1936-1937._ Minneapolis: Minneapolis Symphony Orchestra. 1937. 96 pages.


WILLIAM LINDSAY, Associate Professor of Music


GEORGE H. FAIRCLOUGH, M.Mus., F.A.G.O., Assistant Professor of Music and Organist

"The boy choir." _Educational Music Magazine_, spring number, 26:38. 1937.

GERALD R. PRESCOTT, B.A., Bandmaster and Instructor in Music


I. Outlines of Technic for Clarinets.
II. Outlines of Technic for the Arban Complete Method.
III. Outlines of Technic for Oboe and English Horn.
IV. Outlines of Technic for Flute and Piccolo.
V. Outlines of Technic for French Horn.
VI. Outlines of Technic for Percussion Instruments.
VII. Outlines of Technic for Saxophone.

_The Snare Drum._ Minneapolis: Schmitt Music Company. 1936. 9 pages.


_Arban-Prescott Method for Cornet or Trumpet._ New York: Carl Fischer, Inc. 1936. 67 pages.

_Arban-Prescott Method for Trombone or Baritone._ New York: Carl Fischer, Inc. 1936. 79 pages.

ORIENTATION

MARY J. SHAW, Ph.D., Instructor in Orientation


PHILOSOPHY

DAVID F. SWENSON, B.S., Professor of Philosophy and Chairman of the Department of Philosophy


GEORGE P. CONGER, Ph.D., Associate Professor of Philosophy


"Eucken in retrospect." Die Tatwelt, 12:221-23. 1936.

Reviews of


ALBUREY CASTELL, Ph.D., Assistant Professor of Philosophy

Introduction to Modern Philosophy. Minneapolis: University of Minnesota Mimeograph Department. 1936. 3 vols, 97, 96, 95 pages.


MILLARD S. EVERETT, Ph.D., Assistant Professor of Philosophy


W. DONALD OLIVER, Ph.D., Instructor in Philosophy


PHYSICS

HENRY A. ERIKSON, Ph.D., Professor of Physics and Chairman of the Department of Physics


LOU ALLEN F. MILLER, Ph.D., Professor of Physics

"A pyrheliometer having a spherical absorber is used to follow sunspot activities." (Abstract.) Physical Review, 51:1007. June 1, 1937.

JOHN T. TATE, Ph.D., Professor of Physics


Editor
Physics, 1936-37.
Reviews of Modern Physics, 1936-37.

ANTHONY ZELENY, Ph.D., Professor of Physics
Manual of Physical Measurements (revision with H. A. Erikson). (Sixth edition.)

J. WILLIAM BUCHTA, Ph.D., Associate Professor of Physics
Assistant editor
Physics, 1936.
Reviews of Modern Physics, 1936-37.

JOSEPH VALASEK, Ph.D., Associate Professor of Physics

EDWARD L. HILL, Ph.D., Assistant Professor of Theoretical Physics

JOHN H. WILLIAMS, Ph.D., Assistant Professor of Physics

ROBERT O. HAXBY, B.E.E., Teaching Assistant in Physics
"The disintegration of lithium by deuterons" (with W. G. Shepherd and J. H. Williams). Ibid., 51:1011. 1937.
HAROLD A. OHLGREN, B.A., Teaching Assistant in Physics

WILLIAM G. SHEPHERD, B.E.E., Teaching Assistant in Physics

ANDREW HUSTRULID, Ph.D., Research Assistant in Physics

POLYKARP KUSCH, Ph.D., Research Assistant in Physics

POLITICAL SCIENCE

WILLIAM ANDERSON, Ph.D., Professor of Political Science and Chairman of the Department of Political Science
Reviews of

OLIVER P. FIELD, M.A., LL.B., S.J.D., Professor of Political Science
Reviews of

HAROLD S. QUIGLEY, Ph.D., LL.D., Professor of Political Science
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I. Philip C. Jessup and F. Deak, The Origins.
IV. Philip C. Jessup, Today and Tomorrow.


**LLOYD M. SHORT, Ph.D., Professor of Political Science**

Reviews of


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**CLARENCE C. LUDWIG, M.A., C.P.A., Associate Professor of Political Science**


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RICHARD M. ELLIOTT, Ph.D., Professor of Psychology and Chairman of the Department of Psychology


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ELEROY L. STROMBERG, Ph.D., Teaching Assistant in Psychology

EVELYN RASKIN, Ph.D., Assistant in Psychology

ROMANCE LANGUAGES

FRANCIS B. BARTON, Docteur de l'Université de Paris, Professor of Romance Languages and Chairman of the Department of Romance Languages

IRVILLE C. LECOMPTE, Ph.D., Professor of Romance Languages

COLBERT SEARLES, Ph.D., Professor of Romance Languages

RAYMOND L. GRISMER, Ph.D., Associate Professor of Romance Languages
Translator

DORIS K. ARJONA, Ph.D., Assistant Professor of Romance Languages

EMILIO C. LEFORT, Ph.D., Assistant Professor of Romance Languages

HOWARD S. JORDAN, Ph.D., Instructor in Romance Languages
SOCIOLGY AND SOCIAL WORK

F. STUART CHAPIN, Ph.D., Professor of Sociology, Chairman of the Department of Sociology and Social Work, and Director of the Graduate Course in Social Work

Editor, Harpers Social Science Series, 1936-37.
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CLIFFORD KIRKPATRICK, Ph.D., Professor of Sociology


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WILLIAM WEINFELD, B.E.E., M.A., Instructor in Sociology

MARY HUFF, M.A., Assistant in Sociology


ORVILLE C. PETERSON, B.S., LL.B., Research Director, Regents' Examining Committee


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O. WILFORD OLSEN, Ph.D., Teaching Assistant in Zoology


JAMES W. WARD, M.A., M.S., Teaching Assistant in Zoology


INSTITUTE OF TECHNOLOGY

ADMINISTRATION

SAMUEL C. LIND, Ph.D., D.Sc., Professor of Physical Chemistry and Dean of the Institute of Technology


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COLLEGE OF ENGINEERING AND ARCHITECTURE

AERONAUTICAL ENGINEERING

JOHN D. AKERMAN, B.S.(AeroE.), Professor of Aeronautical Engineering and Head of the Department of Aeronautical Engineering


JEAN F. PICCARD, D.Sc., Lecturer in Aeronautical Engineering


Boyd C. Stephens, M.S., Research Fellow in Aeronautical Engineering

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S. Chatwood Burton, M.A., Professor of Fine Arts and Architecture

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Henry C. T. Egggers, E.E., Ph.D., Assistant Professor of Drawing and Descriptive Geometry

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HENRY E. HARTIG, Ph.D., Associate Professor of Communication Engineering


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LORENZ G. STRAUB, Ph.D., C.E., Professor of Hydraulics and Administrative Assistant


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JOHN R. DUPRIEST, M.E., M.M.E., Professor of Mechanical Engineering and Head of the Department of Mechanical Engineering

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JOHN V. MARTENIS, M.E., Associate Professor of Machine Design


BURTON J. ROBERTSON, E.E., Associate Professor of Internal Combustion Engines


AXEL B. ALGREN, M.S.(M.E.), Assistant Professor of Mechanical Engineering and Assistant Director of the Experimental Engineering Laboratories


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IZAAK M. KOLTHOFF, Ph.D., Professor of Analytical Chemistry and Chief of the Division of Analytical Chemistry


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CHEMICAL ENGINEERING

CHARLES A. MANN, Ph.D., Professor of Chemical Engineering and Chief of the Division of Chemical Engineering


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FRANK H. MACDOUGALL, Ph.D., Professor of Physical Chemistry and Chief of the Division of Physical Chemistry


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**Herbert A. Laitinen, B.Ch., Assistant in Physical Chemistry**


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**FREDERICK T. WALL, Ph.D., Shevlin Fellow in Physical Chemistry**


**SCHOOL OF MINES AND METALLURGY**

**MINING**

**ELTING H. COMSTOCK, M.S., Professor of Mine Plant and Mechanics and Administrative Assistant**


**METALLURGY**

**RALPH L. DOWDELL, Ph.D., Professor of Metallography**


**THOMAS L. JOSEPH, M.A., Professor of Metallurgy**


**MINES EXPERIMENT STATION**

**EDWARD W. DAVIS, E.E., Professor of Mine Plant and Mechanics and Superintendent of the Mines Experiment Station**


JOHN J. CRAIG, E.M., Assistant Metallurgist, Mines Experiment Station

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ROGER S. MACKINTOSH, M.S., Assistant Professor and Exhibits Specialist
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ROSS A. GORTNER, Ph.D., D.Sc., Professor of Agricultural Biochemistry and Chief of the Division of Agricultural Biochemistry

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JOHN A. SHELENNBERGER, M.S., Assistant in Agricultural Biochemistry


 SAMUEL I. ARONOVSKY, Ph.D., Cloquet Wood Products Research Fellow


LEONARD J. BOHN, M.S., Graduate Student in Agricultural Biochemistry


RAE H. HARRIS, M.S., Graduate Student in Agricultural Biochemistry


LYLE HESSLER, Ph.D., Graduate Student in Agricultural Biochemistry


EMIL MUNZ, Ph.D., Graduate Student in Agricultural Biochemistry


JOSEPH P. WRONSKI, Undergraduate Student


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ROBERT H. LOREAUX, B.S., Field Assistant in Agricultural Economics


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


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


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Spencer B. Cleland, M.S., Assistant Professor of Agricultural Extension and Extension Economist in Farm Management

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*Crop Rotations for Clay County* (with County Agent Donald A. Peet). Clay County Extension Service, Moorhead, Minnesota. 1937. 6 pages.
*Crop Rotations for Chisago County* (with County Agent George W. Larson). Chisago County Extension Service, North Branch, Minnesota. 1937. 6 pages.
*Cropping Systems for Kittson County* (with County Agent James A. Salisbury). Kittson County Extension Service, Hallock, Minnesota. 1937. 6 pages.
*Cropping Systems for Lac qui Parle County* (with County Agent Wayne W. Weiser). Lac qui Parle County Extension Service, Madison, Minnesota. 1937. 6 pages.
*Crop Rotations for Olmsted County* (with County Agent Raymond Aune). Olmsted County Extension Service, Rochester, Minnesota. 1937. 6 pages.
*Crop Rotations for Ottertail County* (with County Agents Charles Kelehan and John Grathwol). Ottertail County Extension Service, Fergus Falls, Minnesota. 1937. 4 pages.
*Crop Rotations for East Polk County* (with County Agent Rudolph Stolen). E. Polk County Extension Service, McIntosh, Minnesota. 1937. 6 pages.
*Crop Rotations for Steele County* (with County Agent G. A. Strobol). Steele County Extension Service, Owatonna, Minnesota. 1937. 6 pages.
*Crop Rotations for Stevens County* (with County Agent S. C. Martensen). Stevens County Extension Service, Morris, Minnesota. 1937. 6 pages.
County program planning reports, mimeographed instructions, forms and reports on project, for use in sixteen Minnesota counties. 1936.
Material for 4-H club farm account project. 7 mimeographed pages.

Cora E. Cooke, B.S., Assistant Professor of Agricultural Extension and Extension Poultry Specialist

*ABC of Chicks.* University of Minnesota Agricultural Extension Division Special Bulletin No. 176. 1936. 16 pages.
*Cutting Costs in Poultry Feeding* (with H. J. Sloan). University of Minnesota Agricultural Extension Division Folder No. 58. 1936. 4 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.
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Pasture Plants and Pasture Combinations (with A. C. Arny). (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.


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


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.
UNIVERSITY OF MINNESOTA

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.


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


"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.


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

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

Kenneth W. Ingwalson, B.S., Instructor in Agricultural Extension and State Club Agent


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


*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


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.
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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

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

Orville M. Kiser, M.S., Assistant Professor of Dairy and Animal Husbandry, Northwest School and Experiment Station


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.


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.
PUBLICATIONS OF THE FACULTIES

GRAND RAPIDS

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


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


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


MORRIS

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


Editor West Central School News, 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. BRIDGORD, M.S., Assistant Professor of Agronomy, West Central School and Experiment Station


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.

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


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


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


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


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


WASECA

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

ZUMBRA HEIGHTS

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


AGRONYM AND PLANT GENETICS

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


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.


*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.


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

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


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


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


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

UNIVERSITY OF MINNESOTA

CARL BORGESON, M.S., Instructor in Agronomy


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


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


ANIMAL AND POULTRY HUSBANDRY

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


_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.


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


"The proving of bulls." _Shorthorn World_, Vol. 21, No. 9, pp. 3-4. 1936.


**PHILIP A. ANDERSON, B.S., Assistant Professor of Animal Husbandry**

*Sheep on Minnesota Farms.* (Revised.) University of Minnesota Agricultural Experiment Station Special Bulletin No. 141. 1936. 20 pages.

*Cutting Pork and Lamb for Home Use.* (Revised.) University of Minnesota Agricultural Extension Division Folder No. 38. 1936. 3 pages.

*Cutting the Beef Carcass.* (Revised.) University of Minnesota Agricultural Extension Division Folder No. 39. 1936. 3 pages.

*Home-Curing of Pork.* (Revised.) University of Minnesota Agricultural Extension Division Folder No. 40. 1937. 3 pages.


**ALFRED L. HARVEY, M.S., Assistant Professor of Animal Husbandry**

*Using Horses on the Farm.* (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 145. 1936. 20 pages.


**DONALD W. JOHNSON, Ph.D., Assistant Professor of Animal Husbandry**


The selection of protein supplements for hogs on the basis of their cost and feeding value. 1936. 5 mimeographed pages.

**RICHARD T. CLARK, Ph.D., Instructor in Animal Husbandry**


**EMERY A. JOHNSON, B.S., Instructor in Poultry Husbandry**


**CATHERINE M. BARRETT, B.S., Medical Technician**

UNIVERSITY OF MINNESOTA

DAIRY HUSBANDRY

JAMES B. FITCH, M.S., Professor of Dairy Husbandry and Chief of the Division of Dairy Husbandry

Feeding value of skim milk. 1 mimeographed page.

CLARENCE H. ECKLES, D.Sc., Formerly Professor of Dairy Husbandry and Chief of the Division of Dairy Husbandry (Deceased)


WILLES B. COMBS, M.A., Professor of Dairy Husbandry


Sticky Crumbly Butter (with S. T. Coulter). University of Minnesota Agricultural Extension Folder No. 60. 1937. 4 pages.


Editor (with H. Macy), Plant Problems and Their Solution Department, Dairy Produce. 1936-37.

HAROLD MACY, Ph.D., Professor of Dairy Bacteriology


Editor (with W. B. Combs), Plant Problems and Their Solution Department, Dairy Produce. 1936-37.

WILLIAM E. PETERSEN, Ph.D., Associate Professor of Dairy Husbandry


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SAMUEL T. COULTER, Ph.D., Assistant Professor of Dairy Husbandry


_Study of the Body and Texture of Butter_ (with W. B. Combs). University of Minnesota Agricultural Extension Folder No. 60. 1937. 4 pages.


"Some factors influencing the body of butter." Pages 148-53 in _ibid._

"Pasture feed flavors produce enormous annual loss." _Creamery Journal_, Vol. 47, No. 6, p. 8. 1936.


"Total solids content of buttermilk" (with W. B. Combs). _American Creamery and Poultry Produce Review_, 82:482-84. 1936.


THOR W. GULICKSON, Ph.D., Assistant Professor of Dairy Husbandry


NAT N. ALLEN, Ph.D., Instructor in Dairy Husbandry


ERNEST O. HERREID, Ph.D., Instructor in Dairy Husbandry


F. EUGENE NELSON, Ph.D., Instructor in Dairy Bacteriology


Abstracts in _Biological Abstracts_. 1937.

PHILIP L. KELLY, Ph.D., Graduate Student in Dairy Husbandry


ENTOMOLOGY AND ECONOMIC ZOOLOGY

WILLIAM A. RILEY, Ph.D., D.Sc., Professor of Entomology and Chief of the Division of Entomology and Economic Zoology


_Peas as Household Pests_. University of Minnesota Agricultural Extension Division Circular No. 56. 1936. 4 pages.


**ARTHUR G. RUGGLES, M.A., Professor of Entomology**


Grasshopper control report of 1936. 48 mimeographed pages.

**MAURICE C. TANQUARY, Ph.D., Professor of Apiculture**


**ALEXANDER A. GRANOVSKY, Ph.D., Associate Professor of Entomology**

Forestry and Biological Station of the University of Minnesota at Itasca Park. Bulletin of the University of Minnesota, Vol. 40, No. 35. 1937. 20 pages.

Miscellaneous articles for press on white grubs and other insect problems. 1936-37.


**CLARENCE E. MICKEL, Ph.D., Associate Professor of Entomology**


**HAROLD H. SHEPARD, Ph.D., Assistant Professor of Entomology**

*The Relative Toxicity of Insect Fumigants* (with D. L. Lindgren and E. L. Thomas). University of Minnesota Agricultural Experiment Station Technical Bulletin No. 120. 1937. 23 pages.


**TORFINE L. AAMODT, B.S., Instructor in Entomology**


**DONALD M. HATFIELD, M.A., Instructor in Entomology**


PUBLICATIONS OF THE FACULTIES

MYKOLA H. HAYDAK, Ph.D., Instructor in Entomology

"Wax moth or bce moth." Ibid., 64:413-14. 1936.
"Question of development of the wax moth." (In Czechian.) Ibid., 70:111-12. 1936.
"In the apiary." (In Czechian.) Ibid., 70:161-62. 1936.
"Food value of honey as addition to milk." (In Czechian.) Ibid., 70:183-84. 1936.
"Value of foods other than pollen in nutrition of the honeybee." Journal of Economic Entomology, 29:870-77. 1936.
"Pollen substitutes and how to use them." Ibid., 77:271. 1937.

ALEXANDER C. HODSON, Ph.D., Instructor in Entomology


DONALD G. DENNING, M.S., Assistant in Entomology


JOHN D. HITCHCOCK, M.S., Assistant in Entomology


CLARENCE H. HOFMANN, Ph.D., Assistant in Entomology


DAVID L. LINDBERG, Ph.D., Assistant in Entomology

The Relative Toxicity of Insect Fumigants (with H. H. Shepard and E. L. Thomas). University of Minnesota Agricultural Experiment Station Technical Bulletin No. 120. 1937. 23 pages.

O. WILFORD OLSEN, Ph.D., Assistant in Entomology

"A new species of cestode, Dendrouterina nycticoracis (Dilepidiidae), from the black-crowned night heron (Nycticorax nycticorax hoactli (Gmelin))." Proceedings of the Helminthological Society of Washington, 4:30-32, pl. 1. 1937.

DONALD J. PLETSCH, M.S., Assistant in Entomology

Edward L. Thomas, B.S., Assistant in Entomology

*The Relative Toxicity of Insect Fumigants* (with H. H. Shepard and D. L. Lindgren). University of Minnesota Agricultural Experiment Station Technical Bulletin No. 120. 1937. 23 pages.

Martinus J. Oosthuizen, Ph.D., Graduate Student in Entomology


Reginald W. Salt, Ph.D., Graduate Student in Entomology


**Forestry**

Henry Schmitz, Ph.D., Professor of Forestry and Chief of the Division of Forestry

*Drought Damage to Prairie Shelterbelts in Minnesota*. University of Minnesota Agricultural Experiment Station Bulletin No. 329. May, 1936. 28 pages.


"Toxicities of creosotes and other coal tar products extracted from hardwood ties which have been in the track 20 years or more" (with H. von Schrenk and A. Kammerer). *Ibid.*, 32:167-77. 1936.


Editor, *Journal of Forestry*, April, 1937.

Raphael Zon, B.A., B.S., F.E., Professor of Forestry


"Can floods be controlled?" *Forestry News Digest*, pp. 4-5. March, 1937.

Thorvald Schantz-Hansen, Ph.D., Associate Professor of Forestry


Randolph M. Brown, M.S., Assistant Professor of Forestry

Miscellaneous volume tables for balsam fir in Minnesota and Wisconsin. 1937. 6 mimeographed pages.

Frank Kaufert, Ph.D., Instructor in Forestry


**HOME ECONOMICS**

**ALICE BIFESTER, M.A., Associate Professor of Home Economics**


**ALICE M. CHILD, M.A., Associate Professor of Home Economics**

*Using Dry Skim Milk* (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 177. 1936. 16 pages.

*Using Meat Specialties* (Revised.) University of Minnesota Agricultural Extension Division Circular No. 52. 1937. 8 pages.


**HARRIET GOLDSTEIN, Associate Professor of Home Economics**


**ETHEL L. PHELPS, M.S., Assistant Professor of Home Economics**

*The Calibration and Use of Volumetric Apparatus* (with Alice Biester). (Revised.) Minneapolis: Burgess Publishing Company. 1937. 7 pages.

**VETTA GOldSTein, Instructor in Home Economics**


**HORTICULTURE**

**WILLIAM H. ALDERMAN, B.S.A., Professor of Horticulture and Chief of the Division of Horticulture**

*Grafting and Budding.* (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 151. 1937. 12 pages.


"Fruit Breeding Farm report for 1936" (with F. E. Haralson). *Minnesota Horticulturist*, 65:4-5. 1937.


Editor, Orchard and Garden Department, *Farmer*. 1936-37.

Editor, Timely Topics Department, *Minnesota Horticulturist*. 1936-37.
WILFRED G. BRIERLEY, Ph.D., Professor of Horticulture

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HAROLD L. HARRIS, B.S., Editor and Assistant Professor

Prepared many articles for publication in various farm magazines, some of which were signed by other staff members of University Department of Agriculture. Prepared hundreds of articles for Minnesota daily and weekly newspapers.
Editor
Weekly syndicated feature known as Bob Hodgson’s Farm Talks, supplied to about 100 newspapers in southern Minnesota. (R. E. Hodgson, author).
Wide range of skeleton articles for county extension agents, informative material and suggestions on publicity writing, etc.

RHETORIC

JAMES I. BROWN, M.A., Instructor in Rhetoric


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JOHN O. CHRISTIANSON, B.A., Superintendent of the School of Agriculture and Associate Professor

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Everett Fraser, B.A., LL.B., Dean of the Law School and Professor of Law


Henry L. McClintock, Ph.B., LL.B., S.J.D., Professor of Law


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Maynard E. Pirsig, B.A., LL.B., Professor of Law


William L. Prosser, B.A., LL.B., Professor of Law


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STANLEY V. KINYON, B.A., LL.B., Assistant Professor of Law

THE MEDICAL SCHOOL

ADMINISTRATION

HAROLD S. DIEHL, M.A., M.D., D.Sc., Dean of the Medical Sciences and Professor of Preventive Medicine and Public Health
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BACTERIOLOGY AND IMMUNOLOGY

WINFORD P. LARSON, M.D., Professor of Bacteriology and Immunology and Head of the Department of Bacteriology and Immunology


ROBERT G. GREEN, M.A., M.D., Professor of Bacteriology


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**SAMUEL E. SWEITZER, M.D., Professor of Medicine**


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FRANK E. BURCH, M.D., Professor of Ophthalmology and Head of the Department of Ophthalmology and Otolaryngology


HORACE NEWHART, M.D., Professor of Otolaryngology and Director of the Division of Otology, Rhinology, and Laryngology


WALTER E. CAMP, M.D., Assistant Professor of Ophthalmology

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LAWRENCE R. BOIES, M.D., M.A., Instructor in Otolaryngology


FRANK L. BRYANT, M.D., Instructor in Otolaryngology


HENDRICK W. GRANT, M.D., M.S., Instructor in Otolaryngology


FRITZ D. HURD, M.D., Teaching Fellow in Otolaryngology


PATHOLOGY

ELEXIOUS T. BELL, M.D., Professor of Pathology and Head of the Department of Pathology


BENJAMIN J. CLAYSON, M.D., Ph.D., Professor of Pathology


KANO IKEDA, M.D., Associate Professor of Pathology


JAMES S. McCARTNEY, JR., B.A., M.D., Associate Professor of Pathology

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LEWIS E. NOLAN, M.D., Instructor in Pathology


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ARTHUR A. NELSON, M.D., M.A., Teaching Fellow in Pathology


EDGAR H. NORRIS, M.D., M.A., Teaching Fellow in Pathology


ALBERT J. TRINKLE, M.D., Teaching Fellow in Pathology


PEDIATRICS

IRVINE McQUARRIE, Ph.D., M.D., Professor of Pediatrics and Head of the Department of Pediatrics


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**EDGAR J. HUENEKENS, M.A., M.D., Clinical Professor of Pediatrics**


**CHESTER A. STEWART, M.D., Ph.D., Clinical Professor of Pediatrics**


**MAX SEHAM, M.D., Associate Professor of Pediatrics**


**ARILD E. HANSEN, M.D., Ph.D., Assistant Professor of Pediatrics**


**HYMAN S. LIPPMAN, M.D., Ph.D., Assistant Professor of Pediatrics**


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JOHN M. ADAMS, M.D., Teaching Fellow in Pediatrics


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RAYMOND N. BIEGER, M.D., Ph.D., Associate Professor of Pharmacology

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MAURICE B. VISSCHER, Ph.D., M.D., Professor of Physiology and Head of the Department of Physiology


JESSE F. McCLENDON, Ph.D., Professor of Physiological Chemistry


FREDERICK H. SCOTT, Ph.D., M.B., D.Sc., Professor of Physiology


KARL W. STENSTROM, Ph.D., Professor of Biophysics


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CARL E. NURMBERGER, Ph.D., Instructor in Biophysics


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PREVENTIVE MEDICINE AND PUBLIC HEALTH

KENNETH F. MAXCY, M.D., Professor of Preventive Medicine and Public Health and Head of the Department of Preventive Medicine and Public Health


J. ARTHUR MYERS, Ph.D., M.D., Professor of Preventive Medicine and Public Health

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LAURA A. DRAPER, R.N., B.A., B.S., Assistant Professor of Preventive Medicine and Public Health and Director of Community Health Service, Minneapolis


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OWEN H. WANGENSTEN, M.D., Ph.D., Professor of Surgery and Head of the Department of Surgery


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EDWARD T. EVANS, M.D., Assistant Professor of Orthopedic Surgery


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**MELVIN S. HENDERSON, M.D., Professor of Orthopedic Surgery**


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JOHN DEJ. PEMBERTON, M.D., M.S. in Surgery, LL.D., Professor of Surgery


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NEWTON D. SMITH, M.D., Associate Professor of Proctology


LOUIS A. BRUNSTING, M.D., M.S. in Dermatology, Assistant Professor of Dermatology


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HOWARD R. HARTMAN, M.D., Assistant Professor of Surgery


J. GRAFTON LOVE, M.D., M.S. in Surgery, Assistant Professor of Neurosurgery


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LOUIS G. STUHLER, M.D., Instructor in Urology


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RUSSELL A. STEVENSON, Ph.D., Dean of the School of Business Administration

PUBLICATIONS OF THE FACULTIES

EUGEN S. ALTSCHUL, Rer.Pol.D., Visiting Professor of Economics


ROY G. BLAKEY, Ph.D., Professor of Economics


Assistant editor, articles, particularly those on public finance, in American Economic Review; all articles in Survey of Current Business, the Weekly Supplement to the Survey of Current Business, and other publications of the United States Department of Commerce.

FREDERIC B. GARVER, Ph.D., Professor of Economics


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RICHARD L. KOZELKA, Ph.D., Assistant Professor of Economics and Statistics

HARRY J. OSTLUND, B.A., Assistant Professor of Accounting


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ROBERT A. KISSACK, JR., M.A., Assistant Professor of Visual Education


RAYMOND F. SLETTO, Ph.D., Assistant Professor of Social Studies


IVOL SPAFFORD, Ph.D., Assistant Professor of Euthenics


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JOHN G. DARLEY, Ph.D., Instructor and Research Counselor


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Gerald A. Hill, B.A., Assistant in Music


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Richard R. Price, Ed.D., Professor and Director of University Extension


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Herbert Sorenson, Ph.D., Assistant Professor of Education


Wendell White, Ph.D., Assistant Professor of Psychology


JOHN W. POWELL, B.A., S.T.B., D.D., Special Lecturer in English


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ALGERNON H. SPEER, B.A., Head of the Correspondence Study Department


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THE UNIVERSITY LIBRARY

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PUBLICATIONS OF THE FACULTIES

HAROLD G. RUSSELL, B.A., B.L.S., Reference Librarian and Assistant Professor of Library Methods and Bibliography

THOMAS P. FLEMING, M.S., Head of Order and Bindery Department and Instructor in Bibliography and Library Methods

BLANCHE MOEN, B.A., Reference Assistant

MARY L. SPALDING, Assistant
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LURA C. HUTCHINSON, B.A., Assistant Professor of Library Instruction

MARGARET R. GREER, B.A., B.S., Instructor in School Library Administration

DELLA MCGREGOR, B.A., Instructor in Children's Work
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STUDENTS' HEALTH SERVICE

RUTH E. BOYNTON, M.D., M.S., Associate Professor of Preventive Medicine and Public Health and Director of the Students' Health Service

RALPH V. ELLIS, M.A., M.D., Assistant Professor of Preventive Medicine and Public Health and Physician, Students' Health Service
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Chauncey A. McKinlay, M.D., Assistant Professor of Medicine and Physician, Students' Health Service


Robert G. Hinckley, M.D., Instructor in Preventive Medicine and Public Health and Physician, Students' Health Service


Malvin J. Nydaal, M.A., M.D., Instructor in Preventive Medicine and Public Health and Physician, Students' Health Service


Mattie J. Bullard, B.A., M.D., Instructor in Preventive Medicine and Public Health and Physician, Students' Health Service


Bernard A. Watson, B.A., M.D., Instructor in Preventive Medicine and Public Health and Physician, Students' Health Service


Nora Winther, M.D., Assistant in Obstetrics and Gynecology and Physician, Students' Health Service


The Museum of Natural History

Thomas S. Roberts, M.D., Professor of Ornithology, Director of the Museum of Natural History, and Professor of Pediatrics, Emeritus

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WILLIAM KILGORE, Curator, Museum of Natural History

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MARION L. MATTSON, Ph.D., Head Nursery School Teacher and Instructor, Institute of Child Welfare

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RUSSELL C. SMART, M.A., Research Assistant, Institute of Child Welfare

MILITARY SCIENCE AND TACTICS

ADAM E. POTTS, Lieutenant Colonel, Coast Artillery Corps, United States Army, Professor of Military Science and Tactics
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PHYSICAL EDUCATION ANDATHLETICS

FRANK G. MCCORMICK, B.A., LL.B., Professor of Physical Education and Director of Physical Education
LOUIS F. KELLER, M.A., Associate Professor of Physical Education


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PHILIP S. BRAIN, Instructor in Physical Education

RALPH A. PIPER, M.A., Instructor in Physical Education

NIELS THORPE, B.S., Instructor in Physical Education

MARSHALL RYMAN, B.A., Assistant Coach of Intramural Athletics

CENTER FOR CONTINUATION STUDY

HAROLD BENJAMIN, Ph.D., Professor and Director of Center for Continuation Study
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Gladys A. Wiggin, B.S., Assistant Director of Center for Continuation Study


UNIVERSITY TESTING BUREAU

Edmund G. Williamson, Ph.D., Assistant Professor of Psychology and Director of University of Minnesota Testing Bureau


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PIONEER HALL

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