

UNIVERSITY OF IDAHO
Agricultural Experiment Station
July 1948

Outline of Contents

Fader Junation	age
Introduction	3
Farm Buildings and Equipment Using Sawdust and Diatomite in Building Materials Farm Electrification	Đ
	11
Land and Farm Management Some Influences on Land Values Measured Land Classified in Emmett Valley	11
Farm Record Systems Studied	
Soils and Fertilizers	16
Cereals	19
Cereal Varieties for Idaho 2.4-D Affects Protein Content of Wheat Value of Legumes and Grasses in the Wheat Rotation Nursery Work on Cereals at Tetonia "Winter Killing" of Wheat Foundation Seed of Cereals is Produced Clean Seed Program Stressed	
Alfalfa and Clover	28
2.4-D Inhibits Legume Growth and Nodulation Factors Affecting Alfalfa Seed Production Studied Alfalfa Seed Production Increased by Legume Bug Control Controlling Clover Seed Caterpillar Alternate-row Seedings of Clover with Small Grains Successful Gypsum Still Best for Alfalfa at Sandpoint	٠
	99
Beans and Peas New Insecticides Tested on Pea Insects Pea Diseases	33
Pea Seed Treatment Virus Diseases of Beans Controlled Through Development of Resistance New Beans for Northern Idaho Introduced	
Moderate Rate of Seeding Gives Highest Yield of Pinto Beans	
Potatoes	36
Some Ways to Reduce Poor-shaped Russet Potatoes Found Production Requirements of Potatoes Studied Bacterial Ring Rot of Potatoes Improvements in Mechanical Harvesting, Sorting and Storage	
Vegetables and Vegetable Seeds	40
Canning and Freezing Research Pays Dividends Carrot Diseases in Idaho Improving Onion Varieties for Dehydration and Storage Onion Seed is Harvested too Early Seed Production of Lettuce Aided by Hormones Breeding Curly Top-Resistant Tomato	
Deaths and Diseases of Idaho Farm Animals	477
	-
Beef, Sheep and Swine Phosphorus Requirement of the Pregnant Ewe Oats in Ewe Ration Has Little Effect on Wool Weights and Lamb Gains Lamb Feeding Experiments on Comparing Self Feeders with Hand Feeding Phosphorus for Steers Studied Wintering, Pasturing and Finishing Steer Calves Great Differences in Efficiency Found in Swine from Different Litters Lodgepole Wood Sugar Molasses has a Low Palatability for Swine Benzene Hexachloride Controls Hog Mange	
Dairying	56
Continuous Use of Proved Sires Maintains High Standards in the Holstein Herd Footrot Cured by Using Sodium Sulfamerazine Calfhood Vaccination Still a Problem Milk Cooling on Iadho Farms	•
Brucellosis Dehydrated Alfalfa in Calf Meal Increased Rate of Growth of Holstein Calves Quick Method of Testing Milk Quality	
** **	en
Selective Use of Protein Concentrates Improves Poultry Rations	60
Hatchability of Large Eggs Studied. Built-up Litter Program Dependent Upon Good Ventilation, Equipment, and Management Fowl Leukosis Responsible for One-third of Laying Flock Mortality	
Experiment Station Staff	85
Publications	67
Financial Statement	68

UNIVERSITY OF IDAHO

Agricultural Experiment Station Staff

Administration

D. R. THEOPHILUS, Ph.D., Director
GLENN C. HOLM, D.V.M., ViceDirector

Publications Committee

NORMAN NYBROTEN, Ph.D., Chairman J. W. MARTIN, M.S. W. B. ARDERY, Ph.D. ARCHIE HARNEY, M.A.

Project Committee

J. E. KRAUS, Ph.D., Chairman W. C. HUNGERFORD,, Ph.D. T. B. KEITH, Ph.D.

Agricultural Chemistry

A. C. WIESE, Ph.D., Agricultural Chemist PETER R. MOORE, Ph.D., Assistant Agricultural Chemist GLENN C. LEWIS, M.S., Analyst

Agricultural Economics

PAUL A. EKE, Ph.D., Agricultural Economist
NORMAN NYBROTEN, Ph.D., Associate Agricultural Economist
ROLAND C. BEVAN, M.S., Agricultural Economist
MILTON F. EBERHARD, B.S., Ass't. Agricultural Economist

Agricultural Engineering

J. W. MARTIN, M.S., Agricultural Engineer
W. R. FRIBERG, M.S., Associate Agricultural Engineer
ELMER N. HUMPHREY, B.S., Associate Agricultural Engineer, Aberdeen rigationist
WILLIAM HOWARD KNIGHT, B.S., Assistant Agricultural Engineer
HAROLD L. BREVICK, B.S., Research Fellow
LEWIS M. MESSERSMITH, Assistant Agricultural Engineer

Agronomy

K. H. KLAGES, Ph.D., Agronomist W. K. POPE, Ph.O., Associate Agronomist LAMBERT ERICKSON, M.S., Associate Agronomist G. O. BAKER, Soil Technologist C. I. SEELY, Associate Agronomist, Noxious Weed Investigation LaMAR CHAPMAN, M.S., Assistant Agronomist ROGER W. HARDER, M.S., Assistant Agronomist MARSHALL J. LeBARON, B.S., Assistant Agronomist, Twin Falls D. E. CORLESS, M.S., Cooperating U.S.D.A.

Animal Husbandry

C. W., HICKMAN, M.S., Animal Husbandman

C. W. HODGSON, Ph.D., Associate Animal Husbandman THOMAS B. KEITH, Ph.D., Associate Animal Husbandman W. P. LEHRER, JR., M.S., Assistant Animal Husbandman FLOYD PAHNISH, B.S., Research Fellow

Bacteriology

V. A. CHERRINGTON, Ph.D.,
Bacteriologist
W. B. ARDREY, Ph.D., Associate
Bacteriologist
GUY R. ANDERSON, M.S., Assistant
Bacteriologist
LOIS A. SCULLY, M.S., Assistant
Bacteriologist

Dairy Husbandry

D. L. FOURT, M.S., Dairy Husbandman JAMES C. BOYD, M.S., Associate Dairy Husbandman RICHARD H. ROSS, Ph.D. Associate Dairy Husbandman DARRELL KERBY, B.S., Assistant Dairy Husbandman H. C. HANSEN, Ph.D., Assistant Dairy Husbandman

Entomology

H. C. MANIS, Ph.D., Entomologist WILLIAM F. BARR, B.S., Assistant Entomologist ARTHUR J. WALZ, B.S., Assistant Entomologist T. A. BRINDLEY, Ph.D., Associate Entomologist, cooperating U.S.D.A. F. G. HINMAN, M.S., Cooperating U.S.D.A. RALPH SCHOPP, M.S., Cooperating U.S.D.A.

Home Economics

ELLA WOODS, Ph.D., Home Economist

Horticulture

LEIF VERNER, Ph.D., Horticulturist
J. E. KRAUS, Ph.D. Associate Horticulturist
G. W. WOODBURY, Ph.D., Associate
Horticulturist, Parma
WALTER C. SPARKS, M.S., Associate
Horticulturist, Aberdeen
KAARE AAMLID, B.S., Research
Fellow
EJNAR LARSEN, B.S., Research
Fellow

Plant Pathology

C. W. HUNGERFORD, Ph.D., Plant Pathologist J. M. RAEDER, M.S., Associate Plant Pathologist R. D. WATSON, Ph.D., Associate Plant Pathologist

Poultry Husbandry

C. E. LAMPMAN, B.S., Poultry Husbandman C. F. PETERSEN, M.S., Associate Poultry Husbandman

IDAHO AGRICULTURAL EXPERIMENT STATION

Veterinary Science

66

L. H. SCRIVNER, D.V.M., Veterinarian PHILIP G. ELDREDGE, D.V.M., Assistant Veterinarian

Branch Experiment Stations

EUGENE DALLIMORE, Ph.D., cooperating Idaho Crop Pest Control Commission, Aberdeen DELANCE F. FRANKLIN, B.S., Supt. and Asst. Horticulturist, Parma

<u>፟</u>

R. F. JOHNSON, B.S., Superintendent, Caldwell
RALPH KNIGHT, B.S., Superintendent, Aberdeen
HUGH McKAY, Cooperating U.S.D.A.
W. A. MOSS, Superintendent, Tetonia
RALPH SAMSON, M.S., Superintendent, Sandpoint
RUSSELL STARK, Cooperating
U.S.D.A. Aberdeen
HARLAN STEVENS, M.S., Cooperating
U.S.D.A., Aberdeen