NORTH DAKOTA FARM RESEARCH INDEX TO VOLUME 37

No's 1-6, July-August 1979, Through May-June, 1980

- 1979 Annual Report of the North Dakota Agricultural Experiment Station. No.4, p.28
- Arnold, F. B. and R. E. Sojka. Soil Compaction and Crop Response in a Potato Crop Rotation. No. 5, page 9
- Black, A. L., A. D. Halvorson, L. L. Reitz and C. A. Reule. Spring Wheat Stand and Yield Losses from Applying Urea-N Fertilizer With the Seed. No. 5, page 8
- Brun, L. J. and R. L. Deutsch. Chemical Composition of Salts Associated with Saline Seeps in Stark and Hettinger Counties. No. 1, page 3
- Cross, H. Z. A New Breeding Technique for Selecting Early High Yielding Corns. No. 2, page 27
- Cross, H. Z. ND245, NDSA and NDSB A New Inbred Line and Two Germplasm Sources for Producing Early Corn Hybrids. No.4, page 13
- Dahnke, W. C. and L. J. Swenson. Nitrogen Status of North Dakota Soils. No. 3, page 5
- Dunn, Barry H. Effect of Ralgro on Nursing Calves. No. 1, page 25
- Faller, Timothy C. Guest Column. No. 4, page 2
- Funke, B. R. Role of Microorganisms in Nitrogen Cycling n in North Dakota Soils. No.3, page 10
- Galitz, Donald S. Guest Column, No. 3, page 2
- Galitz, Donald S. Uptake and Assimilation of Nitrogen by Plants. No 3, page 16
- Gilley, John E. Differential Settling on Surface Mined Sites. No.6, page 3
- Gilley, John E. Runoff and Erosion Characteristics of a Revegetated Surface Mined Site in Western North Dakota. No.6, page 17
- Goetz, Harold. The Role of Nitrogen Fertilization in the Management of Grasslands in North Dakota. No. 3, page 25.
- Gronhovd, Duane E. and Donald F. Scott. Reclamation Costs of Strip-Mined Land in Western North Dakota. No. 1, page 7
- Halvorson, G. A., S. W. Melsted, S. A. Schroeder, M. W. Pole, C. M. Smith, and E. Deibert. Root Zone Management in North Dakota Coal Mine Reclamation. No. 6, page 9
- Haugen, Roger G. Money Management of Sheep Reared in Drylot-Confinement. No. 4, page 4
- Holland, Neal S. The Hazen Apple. No. 5, page 3
- Johanson, R. H., G. A. Secor, Bryce Farnsworth, D. C. Nelson, P. H. Orr and E. P. Lana. Dakchip, A New Potato Variety. No. 5, page 22
- Johnson, LaDon J, William E. Dinnusson and Duane O. Erickson. Nitrogen in Animal Production. No. 3, page 30
- Johnson, Jerome E. 1978 Land Rentals. No. 1, page 23 Johnson, Jerome E. 1979 Farmland Values. No. 5, page 24
- Johnson, Roger G. and Mir Basith Ali. Economics of Nitrogen Use in Crop Production. No. 3, page 34
- Kaufman, Kenton R. and Harold J. Klosterman. A Highway Test of Gasohol. No. 1, page 18
- Kiesling, Richard L. Guest Column. No. 1, page 2
- Klosterman, Harold J. Guest Column. No. 5, page 2

- Landblom, Douglas G. and James L. Nelson. A Practical Approach to Swine AI. No. 2, page 12
- Landblom, Douglas G. and James L. Nelson. Using Whey in Swine Growing-Finishing Rations. No. 5, page 4
- Light, M. R., I. A. Schipper, T. W. Molitor, J. E. Tilton and W. D. Slanger. The Establishment of Ovine Progressive Pneumonia (Lungers) Free Sheep From Infected Herds. No. 4, page 6
- Loken, Ken and Roger Johnson Cost-Use Relationships of Crop Drying. No. 1, page 15
- Lund, H. R. Director's Column. No. 2, page 2
- Moraghan, J. T. The Use of Anydrous Ammonia in North Dakota. No.3, page 7
- Melsted, Sigurd W. Guest Column. No. 6, page 2
- Merrill, S. D., E. J. Doering and J. F. Power. Changes of Sodicity and Salinity in Soils Reconstructed on Strip-Mined Land. No. 6, page 13
- Meyer, D. W. and D. L. Dodds. Twenty Years of Alfalfa Variety Testing in North Dakota. No.4, page 18
- Molitor, T. W., M. R. Light and I. A. Schipper. Incidence of Ovine Progressive Pneumonia in the North Dakota State University Sheep Flocks, Determined by Agar-gel Immunodiffusion. No.2, page 24
- Nelson, James L. and Douglas Landblom. No Feedlot Gain Advantage for Hei-Gro. No. 2, page 21
- Nyren Paul E., Warren C. Whitman and Dean E. Williams. Performance of Seeded Native and Introduced Grasses in Western North Dakota. No.5, page 32
- Peterka, John J. Nitrogen in Our Lakes and Rivers. No.3, page 13
- Pole, Michael W., Terry H. Brown and LeRoy Zimmerman. Water Movement in a Reclaimed Site and Associated Soils at a Mine Site in Western North Dakota. No. 6, page 5
- Pyler, R. E., E. L. Cummings and C. A. Barr. Protein Survey of the 1979 Six-Rowed Barley Crop. No. 4, page 24
- Quick, J. S., B. J. Donnelly and J. D. Miller. Vic. . . High Yielding, Strong Gluten Durum. No. 2, page 7
- Reis, R. E. Supplemental Water for the Establishment of Perennial Vegetation on Strip-Mined Lands. No. 6, page 21
- Riveland, Neil R., E. W. French, Ben K. Hoag, and Thomas J. Conlon. The Effect of Seeding Rate on Spring Wheat Yields in Western North Dakota – An Update. No. 2, page 15
- Schipper, I. A., C. L. Kelling, J. Mayer and N. E. Pfeiffer. Effects of Passive Immunity on Immune Response in Calves Following Vaccination for Blackleg. No. 1, page 12
- Schneider, R. P., B. E. Johnson and F. Sobolik. Nitrogen Fertilization Requirements for No-Tillage and Minimum Tillage Wheat. No.3, page 22
- Schneider, R. P., B. E. Johnson and F. Sobolik. Saline Seep Management: Is Continuous Cropping an Alternative? No. 5, page 29
- Schroeder, S. A., M. W. Pole and Armand Bauer. Water Use Efficiency as Influenced by Topsoil Thickness and Fertility on Reclaimed Land. No.6, page 24
- Spilde, LeRoy A., Dean A. Whited and Raymond J. Slettland. The Effect of Row Spacing on Soybean Yields. No.5, page 15
- Vasey, E. H. Commercial Fertilizer Use, Especially Nitrogen, in North Dakota. No. 3, page 3

Agricultural Experiment Station NORTH DAKOTA STATE UNIVERSITY of Agriculture and Applied Science University Station Fargo, North Dakota 58105 Publication

HRLund

DIRECTOR

POSTAGE AND FEES PAID U.S. DEPARTMENT OF AGRICULTURE AGR 101



BULK THIRD-CLASS

- Wehner, G. R., R. L. Harrold and M. Wanapat. True Metabolizable Energy of Sprouted Wheat. No. 5, page 19
- Witz, Richard L. Confinement Sheep Barn at Hettinger Station. No. 4, page 3

Continued from Page 2

America and many hungry people have benefitted from the low-cost, abundant food supply generated by American farmers. The research that has generated the technology base for U. S. food production has benefitted every man, woman and child in this country. The American public must realize the importance of continued support of agricultural research, because the years ahead are filled with new challenges that will take the best trained men and women that this country has to offer. We can't rest on our past achievements and hope the future will care for itself.

By the year 2000 the present world population of four billion will have grown to nearly seven billion. Before 2050 it will double to 14 billion. Will we be able to feed and clothe the increased billions? Of course we can, if we have the courage and foresight to produce the technology base to get the job done. This represents an enormous challenge to train enough young scientists, provide them with the Worcester, B. K., K. J. Dalsted and L. J. Brun. Detection of Saline Seeps in North Dakota by Remote Sensing. No. 2, page 3

Zubriski, J. C., E. J. Deibert and R. P. Schneider. Nitrogen: A Limiting Factor in Sunflower Production on Nonfallow Soils. No.3, page 19

necessary resources to do the basic research, build the applied links to agricultural production, and provide the education to insure timely adoption of the evolving technologies.

We know the land-grant university system of teaching, research and extension has brought American agriculture far beyond many production systems throughout the world. It is our challenge to continue to build on the institutions that men like Fred Taylor have developed to help insure the future growth of U. S. agriculture. The job of generating the support needed to provide growth in agriculture becomes harder and harder as farm numbers decline, causing a smaller portion of the electorate to be informed of the needs of agricultural research institutions. It is therefore vitally important that the "agriculture story" be told well and often if we are to continue the needed flow of new technology into the U. S. agricultural production plant. It is men like Fred Taylor who have led the way. We must work long and hard to fill his shoes.