

A supplement to:

Oregon's Agricultural

# PROGRESS

1984 Research Publications



Agricultural Experiment Station  
Oregon State University



## Station's research scope is dictated by state needs

Here at the Agricultural Experiment Station, we consider telling Oregon taxpayers about our work not just a good thing to do but an obligation. Consequently, the Station regularly reports to the general public on its research.

We do that through Oregon's Agricultural Progress, our quarterly magazine, and through public service announcements that appear on television and radio. The Station also publishes easy-to-read reports designed to give the public an overall idea of the direction and breadth of agricultural research at OSU.

But, obviously, our researchers do a lot more than what we report on through those channels. There is other written material available. The scientists themselves write technically worded reports about their findings called Circulars of Information, Technical Bulletins, Station Bulletins and Special Reports. Also, they keep reprints of articles they write for scientific journals and of papers they present at scientific meetings. Those are called Technical Papers.

This publication lists the circulars, bulletins, reports and papers published in 1984 by Agricultural Experiment Station scientists. What strikes me most about the list is its immense scope—the breadth of which is dictated by the diversity of needs in Oregon agriculture. I urge you to browse through the titles and look for research that may be helpful to you.

A handwritten signature in black ink that reads "R. E. Witters". The signature is written in a cursive, slightly slanted style.

Robert E. Witters  
Acting Director  
Oregon Agricultural Experiment Station

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## 1984 Publications Index

This supplement to Oregon's Agricultural Progress lists publications by the departments of the OSU College of Agricultural Sciences and by branch agricultural experiment stations. To obtain single copies of Circulars of Information, Technical Bulletins or Station Bulletins, write the OSU Bulletin Mailing Service, Industrial Building, OSU, Corvallis, OR 97331. To obtain copies of Special Reports or Technical Papers, write the authors through their campus departments or branch stations. When requesting publications, refer to the numbers preceding the titles.

### Circulars of Information

#### Anthropology

- CI 695, The U.S. Processed Strawberry Market: An Analysis of Trends and Commodity Characteristics as They Impact on Oregon.

### Station Bulletins

#### Agricultural and Resource Economics

- SB 661, The Korean Market for U.S. White Wheat.
- SB 712, Growth, Diversification, and Cyclical Instability in the Oregon Economy, 1960-1979.

#### Eastern Oregon Agricultural Research Center

- SB 663, Changes in Protected and Grazed Sagebrush Grass in Eastern Oregon, 1937-1974.

### Special Reports

#### Agricultural and Resource Economics

- SR 702, The Economic Effects of Air Pollution on Agriculture: an Interpretive Review of the Literature.
- SR 708, SEBEND: A Computer Algorithm for the Solution of Symmetric Multicommodity Spatial Equilibrium Problems Utilizing Benders Decomposition.

#### Animal Science

- SR 705, Reports of the 25th Annual Swine Day.

#### Central Oregon Agricultural Experiment Station

- SR 717, Irrigated Crop Research in Central Oregon, 1984.

#### Columbia Basin Agricultural Experiment Station

- SR 706, Crop Water Use Curves for Irrigation Scheduling.
- SR 713, 1984 Columbia Basin Agricultural Research

- SR 720, Irrigated Crop Research in Oregon's Columbia Basin.

#### Crop Science

- SR 704, Results of the Tenth International Winter x Spring Wheat Screening Nursery 1982-83.
- SR 718, Argentina Cereal Breeding and Production Symposium.

#### Eastern Oregon Agricultural Research Center

- SR 714, 1984 Progress Report... Research in Beef Cattle Nutrition and Management.

#### Horticulture

- SR 721, Oregon Tree Fruit and Nut Research Abstracts, 1982-83.

#### Malheur Agricultural Experiment Station

- SR 716, Malheur Agricultural Experiment Station Research.

#### North Willamette Agricultural Experiment Station

- SR 711, Training and Spacing Trials in Marion Blackberry.

#### Rangeland Resources

- SR 715, 1984 Progress Report... Research in Rangeland Management.

#### Soil Science

- SR 689, Statistical Analysis of Climatological Data to Characterize Erosion Potential: 4. Freezing Events in Eastern Oregon/Washington.
- SR 690, Statistical Analysis of Climatological Data to Characterize Erosion Potential: 5. Joint Precipitation and Freezing Events in Western Oregon.
- SR 691, Statistical Analysis of Climatological Data to Characterize Erosion Potential: 6. Joint Precipitation and Freezing Events in Eastern Oregon/Washington.

### Technical Paper Reprints

#### Agricultural Chemistry

- 7044, "X-Ray Crystallographic Structure Determination and Carbon-13 Nuclear Magnetic Resonance Spectrum of 2,2,3,4,5,6,6-heptachloro-3-(2,3,4,5,6-pentachlorophenoxy)-4-cyclohexenone; an intermediate in the Synthesis of nonachloro-3-phenoxyphenol," M. L. Deinzer, J.G. Lamberton, D.C. Rohrer, and P.E. Strong, *Journal of Organic Chemistry*, Volume 49, pages 7074-7076, 1984.
- 7176, "Conservation of Genome Organization in Two Multicapsid Nuclear Polyhedrosis Viruses," D.J. Leisy, G.F. Rohrmann, and G.S. Beaudreau, *Journal of Virology*, Volume 52, pages 699-702, 1984.
- 7220, "Production of Polyhedrin Monoclonal Antibodies for Distinguishing Two *Orgyia pseudotsugata* Baculoviruses," R. L. Quant, M.N. Pearson, G.F. Rohrmann, and G.S. Beaudreau, *Applied and Environmental Microbiology*, Volume 48, pages 732-736, 1984.

#### Agricultural Engineering

- 7033, "Reducing Winter Ventilation in Broiler Houses," P.K. Ryan, M.L. Hellickson, and H.S. Nakaue, *American Society of Agricultural Engineers*, Technical Paper Number 83-4514, December 1983.
- 7079, "Strawberry Mechanized Production Systems in Michigan and Ontario, Canada," D. E. Booster, 1984 *Proceedings of the Oregon Horticultural Society*, pages 169-176, 1984.
- 7159, "Regionalized Statistics Applied to Evapotranspiration," R.H. Cuenca, and K.Y. Amegee, *American Society of Civil Engineers Irrigation*

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and Drainage Division Specialty Conference, 1984.

- 7211, "Simulating Energy Recovery Equipment in a Milking Parlor," B.W. Griswold and M.L. Hellickson, American Society of Agricultural Engineers, Technical Paper Number 84-5024, June 1984.
- 7212, "Effects of Irrigation Frequency on Crop Yields," M.J. English, B.C. Nakamura, and G.S. Nuss, USDA-ARS, Final Project Report, 1984.
- 7263, "Controlled Seed Scarification to Speed Germination," D.M. Bilsland, M.R. Brandenburg, and A.G. Berlage, Journal of Applied Seed Production, Volume 2, Number 1, pages 45-49, 1984
- 7349, "Electrostatic Separation of Flower Parts from Onion Seeds," P. Krishnan, A.G. Berlage, and E. Klein, Transactions of the American Society of Agricultural Engineers, Presented at the Winter Meeting of the American Society of Agricultural Engineers, New Orleans, December 11-14, 1984, 14 pages, #84-3568.

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- 7062, "A Vessel Licensing Fee as an Alternative Proposal for a Deep Draft Waterway User Charge," Michael V. Martin, Water Resources Bulletin, Volume 20, pages 219-221, April 1984.

#### **Animal Science**

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Groups," R.E. Knott, D.C. England, and W.H. Kennick, Journal of Animal Science, Volume 58, pages 281-284, 1984.

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#### **Crop Science**

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