

A supplement to:

OREGON'S AGRICULTURAL PROGRESS

**1986 Research
Publications**

**Agricultural Experiment Station
Oregon State University**

Perhaps the most important part of doing research is the communication of the information to others. This serves the purpose of getting research data into the hands of the user. User groups are varied depending on whether or not the research is of a fundamental or applied nature. If fundamental, the users are generally other scientists. If applied, user groups include individual farmers, Extension faculty, educators, politicians, and other decision makers.

The Oregon Agricultural Experiment Station publishes research results which cover the entire spectrum from the fundamental to the applied. This information, in over 300 published articles each year, appears in national and international journals, special bulletins and special reports.

It is helpful to many groups to have access to an annual summary of the research conducted and published by the Agricultural Experiment Station during the past year. For this purpose, we publish an annual "Publications Index".

I hope that this information will continue to be helpful to the wide variety of user groups which have been identified in the past. This index should serve to demonstrate the breadth and depth of research conducted in the various units of the Experiment Station and serve as a reference point to locate research being conducted by our scientists.

Of course, the ultimate user of our research is the consumer and the taxpayer. These benefits come in the form of a continuous supply of wholesome, inexpensive food. Because this group



is also the major supplier of agricultural research funding, we feel that it is important that they also have some idea of what our scientists are doing. The Oregon's Agricultural Progress magazine is published for this purpose. The Station also communicates with the taxpayer through television and radio announcements and newspaper and magazine articles.

The success of investing in research is demonstrated not only by information available in such publications, but also by the actual dollar value which the taxpayer receives for this investment. Recent studies from the University of Georgia show that the average U.S. family received \$40 of benefit from \$15 of taxes used to support agricultural research. These studies also found that the benefit to cost ratio was highest (11.6) for the lowest income category (under \$10,000 annual income) as compared to 1.4 for the highest income category (over \$35,000).

We're pleased to share this information with you. I hope you will find it useful.

A handwritten signature in cursive script that reads "Steven L. Davis".

Steven L. Davis
Acting Director
Oregon Agricultural
Experiment Station

1986 Publications Index

Oregon Agricultural Experiment Station scientists publish the results of their research in several forms. The scientists write technically worded reports called Circulars of Information, Technical Bulletins, Station Bulletins and Special Reports. Also, they publish articles in scientific journals and keep reprints of those articles. The reprints are called Technical Papers. This supplement lists circulars, bulletins, reports and papers published in 1986. They are listed by the departments of the OSU College of Agricultural Sciences, and other units such as branch experiment stations. To obtain single copies of Circulars of Information, Technical Bulletins or Station Bulletins, write to Agricultural Communications, Publications Orders, OSU, Corvallis, OR 97331-2119. 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.

Circular of Information

Horticulture/Food Science and Technology

- CI 701, Production, Maturity, and Wine Composition of Winegrape Varieties in Western Oregon.

Station Bulletins

Agricultural and Resource Economics

- SB666, The Impact of Debt and Income Variation on the Simulated Financial Performance of Large Pacific Northwest Grass Seed-Grain Farms.
- SB667, Marginal Analysis of Soil Loss Control on the Mission-Lapwai Watershed, Idaho.
- SB668, Contribution of the Oregon Wheat Industry to Oregon's Economy.

Eastern Oregon Agricultural Research Center

- SB669, The Ecology and Management of Bluebunch Wheatgrass (*Agropyron Spicatum*): A Review.

Special Reports

Agricultural and Resource Economics

- SR 759, Computer Use by/and Computer Interface Among Agricultural Economics Institutions.
- SR 767, Development and Formulation of Mathematical Models Used in the Mission-Lapwai Soil Loss Control Study.
- SR 772, Evaluating Effects of Tillage on Soil Erosion and Future Agricultural Productivity.
- SR 782, Economic Aspects of Pacific Northwest Soil Erosion Research.

Animal Science

- SR 770, Summary of Reports...1986 Sheep Day.
- SR 771, Reports of the 27th Annual Swine Day.

Central Oregon Agricultural Experiment Station

- SR 780, Irrigated Crops Research in Central Oregon, 1986.

Columbia Basin Agricultural Research Center

- SR 776, 1986 Columbia Basin Agricultural Research.

Crop Science

- SR 766, Oregon Forage and Turf Grass Variety Seed Yield Trial 1984-85.
- SR 768, Results of the Twelfth International Winter X Spring Wheat Screening Nursery (1984-1985).
- SR 777, Local Climatological Data for Corvallis, Oregon...1985 Summary with Normals, Means, Extremes, Monthly Times Series.

Eastern Oregon Agricultural Research Center

- SR 760, A Detailed Soils Inventory and Associated Vegetation of Squaw Butte Range Experiment Station.
- SR 773, 1986 Progress Report... Research in Rangeland Management.

Malheur Experiment Station

- SR 787, Malheur Agricultural Experiment Station Research.

North Willamette Experiment Station

- SR 769, Overwintering Cole Crops and pinach in the Willamette Valley.
- SR 774, Evergreen Blackberry Potassium and Nitrogen Fertilization Trial: North Willamette Experiment Station.

- SR 781, The Effect of Cane Population Density and Training System in Mechanically Harvested Red Raspberry.

Rangeland Resources

- SR 763, Grass-Legume Seeding to Improve Winter Forage for Roosevelt Elk: A Literature Review.

Soil Science

- SR 764, Soil Erosion in Oregon, Volume I: Perceptions and Attitudes of Farmers and Nonfarmers.

Technical Bulletins

Entomology

- TB 150, The Corixidae of Oregon and Washington (Hemiptera: Heteroptera).

Technical Paper Reprints

Agricultural Chemistry

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- 7565, "A Rapid Solvent Extraction Method for Hop Essential Oils," K.C. Lam, G.B. Nickerson and M.L. Deinzer, Journal of Agricultural Food Chemistry, Volume 34, pages 63-66, 1986.
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