



OREGON STATE UNIVERSITY

OREGON AGRICULTURAL EXPERIMENT STATION

Plan of Work

FY 2005 – FY 2006

Update

Oregon Agricultural Experiment Station
Oregon State University

A handwritten signature in blue ink that reads "Thayne R. Dutson".

Thayne R. Dutson
Dean College of Agricultural Sciences
Director, Oregon Agricultural Experiment Station

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INTRODUCTION

Oregon State University released a new strategic plan in February 2004. The vision of this new plan is to serve the people of Oregon as one of American's top 10 land grant universities. It identified five multidisciplinary thematic areas that integrate the mission of teaching, research and outreach. Each college is responsible to align their strategic plan with the OSU plan. The College of Agricultural Sciences is designing our strategic plan at this time, and has identified four broad areas of programmatic foci on which we will make special effort during the next five years: Water and Watershed; Ecological Services; Food, Nutrition and Health; and Development of Biobased Energy and Products.

Slower than anticipated economic recovery and the defeat of Oregon ballot measure 30 (temporary increase of income tax) translates to possible further reduction into our existing budget. Although our instructional budget is partially offset by a tuition hike and increased enrollment, research and extension budgets will continue to experience uncertainty in the near term. This will delay our plan to invest in key areas which suffered during recent budget reduction, and on new initiatives. Therefore, we do not anticipate any major changes in our research priorities in the next two years.

A. Planned Programs

National Goal #1: An agricultural system that is highly competitive in the global economy. Through research and education, empower the agricultural system with knowledge that will improve the competitiveness in domestic production, processing, and marketing.

CSREES listed 34 key themes under National Goal #1. Oregon Agricultural Experiment Station currently has 171 projects with 19 different key themes listed under the National Goal #1 in the CRIS database.

The number of projects within each key theme is listed following each key theme below. The expenditure under National Goal #1 is about 67% of our total expenditure, which is in line with 63% of the number of projects under this National Goal. Thus, the research effort for the National Goal #1 represents our largest investment at the Oregon Agricultural Experiment Station. Although there will be some minor changes in the next two years due to attrition, we do not anticipate any major shift in our research priorities.

1. Adding Value to New & Old Agricultural Products: 3
2. Agricultural Competitiveness: 6

- 3. Agricultural Profitability: 23
- 4. Animal Genomics: 1
- 5. Animal Health: 21
- 6. Animal Production Efficiency: 14
- 7. Apiculture: 1
- 8. Aquaculture: 3
- 9. Biobased Product: 1
- 10. Biotechnology: 6
- 11. Invasive Species: 1
- 12. Niche Market: 1
- 13. Organic Agriculture: 1
- 14. Plant Genomics: 22
- 15. Plant Germplasm: 5
- 16. Plant Health: 25
- 17. Plant Production Efficiency: 29
- 18. Precision Agriculture: 2
- 19. Rangeland/Pasture Management: 6

Allocated Resources	<u>2005</u>	<u>2006</u>
Hatch:	\$ 1,000,000	\$ 1,000,000
Multistate:	\$ 500,000	\$ 500,000
State:	\$17,400,000	\$17,800,000
Total:	\$18,900,000	\$19,300,000
Total FTE:	128	130

National Goal #2: A safe and secure food and fiber system. To ensure an adequate food and fiber supply and food safety through improved science-based detection, surveillance, prevention, and education.

Oregon Agricultural Experiment Station currently has 272 projects in the CRIS database. Eighteen projects with two different key themes are listed under the National Goal #2. CSREES listed 10 key themes under National Goal #2.

The number of projects within each key theme is listed following each key theme below. The FY 003 expenditure under National Goal #2 is about 7% of our total expenditure, which is close to the 6% number of projects under this National Goal. Research effort for the National Goal #2 represents the third largest investment at the Oregon Agricultural Experiment Station. Although there will be some minor changes in the next two years due to attrition, we do not anticipate any major shift in our research priorities.

1. Food Quality: 12
2. Food Safety: 6

Allocated Resources	<u>2005</u>	<u>2006</u>
Hatch:	\$ 200,000	\$ 200,000
Multistate:	\$ 45,000	\$ 45,000
State:	\$1,800,000	\$1,800,000
Total:	\$2,045,000	\$2,045,000
 Total FTE:	 15	 15

National Goal #3: A healthy, well-nourished population. Through research and education on nutrition and development of more nutritious foods, enable people to make health promoting choices.

CSREES listed seven key themes under the National Goal #3. Oregon Agricultural Experiment Station currently has 13 projects with two different key themes listed under the National Goal #3 in the CRIS database.

The number of projects within each key theme is listed following each key theme below. The FY2003 expenditure under National Goal #3 is about 2% of our total expenditure. Thus, research effort for the National Goal #3 represents a minor emphasis at the Oregon Agricultural Experiment Station. Although there will be some minor changes in the next two years due to attrition, we do not anticipate any major shift in our research priorities.

1. Human Health: 8
2. Human Nutrition: 5

Allocated Resources	<u>2005</u>	<u>2006</u>
Hatch:	\$ 60,000	\$ 60,000
Multistate:	\$ 63,000	\$ 63,000
State:	\$500,000	\$700,000
Total:	\$623,000	\$823,000
 Total FTE:	 6	 7

National Goal #4: Greater harmony between agriculture and the environment. Enhance the quality of the environment through better understanding of and building on agriculture's and forestry's complex links with soil, water, air, and biotic resources.

CSREES listed 28 key themes under the National Goal #4. Oregon Agricultural Experiment Station currently has 60 projects with 15 different key themes listed under the National Goal #4.

The number of projects within each key theme is listed following each key theme below. The FY2003 expenditure under National Goal #4 is about 22% of our total expenditure, which is in line with the 22% of the number of projects under this National Goal. Thus, research effort for the National Goal #4 represents the second largest investment at the Oregon Agricultural Experiment Station. Although there will be some minor changes in the next two years due to attrition, we do not anticipate any major shift in our research priorities.

1. Agricultural Waste Management: 2
2. Biodiversity: 1
3. Endangered Species: 3
4. Forest Resource Management: 1
5. Hazardous Materials: 1
6. Integrated Pest Management: 14
7. Land Use: 3
8. Natural Resources Management: 4
9. Nutrient Management: 5
10. Riparian Management: 1
11. Soil Quality: 7
12. Sustainable Agriculture: 5
13. Water Quality: 6
14. Wetlands Restoration & Protection: 1
15. Wildlife Management: 6

Allocated Resources	<u>2005</u>	<u>2006</u>
Hatch:	\$ 500,000	\$ 500,000
Multistate:	\$ 250,000	\$ 250,000
State:	\$5,500,000	\$5,700,000
Total:	\$6,250,000	\$6,450,000
Total FTE:	56	57

National Goal #5: Enhanced economic opportunity and quality of life for Americans. Empower people and communities, through research-based information and education, to address economic and social challenges facing our youth, families, and communities.

CSREES listed fifteen key themes under the National Goal #5. Oregon Agricultural Experiment Station currently has 10 projects with five different key themes listed under the National Goal #5 in the CRIS database.

The number of projects within each key theme is listed following each key theme below. The FY2003 expenditure under National Goal #5 is about 1.5% of our total expenditure. Research effort for the National Goal #5 has been the smallest emphasis at the Oregon Agricultural Experiment Station. Although there will be some minor changes in the next two years due to attrition, we do not anticipate any major shift in our research priorities.

1. Agricultural Financial Management: 1
2. Children, Youth, and Families at Risk: 3
3. Consumer Management: 1
4. Impact of Change in Rural Communities: 3
5. Jobs/Employment: 2

Allocated Resources	<u>2005</u>	<u>2006</u>
Hatch:	\$ 6,000	\$ 6,000
Multistate:	\$ 54,000	\$ 54,000
State:	\$300,000	\$300,000
Total:	\$360,000	\$360,000
Total FTE:	2	2

B. Stakeholder Input Process

Oregon Agricultural Experiment Station continues to seek stakeholder input through our college and department advisory councils. As we are in the process of designing our new strategic plan, we have increased our efforts in soliciting stakeholder input. Details of our recent efforts have been presented in our 2003 Annual Report of Accomplishments and Results.

C. Program Review Process

All units in the Oregon Agricultural Experiment Station are required to conduct annual performance evaluation of their faculty members. These annual reviews are conducted based on goals established during previous year's reviews. Since all faculty members with OAES FTE are required to establish their station projects, annual performance evaluation serves as a good vehicle to assess our progress toward the goals in our Plan of Work. There have been no significant changes in our program review processes since our original 5-Year Plan of Work was submitted.

D. Evaluation of the Success of Multi and Joint Activities

The Oregon Agricultural Experiment Station currently has 108 scientists who contribute to 83 multistate projects under the five National Goals. Each multistate project submits an annual report on the group's activities, accomplishments, and plans for the future. The OAES makes no attempt to evaluate any of the multistate research activities as that are accomplished through the efforts of the scientists and administrative advisors in each of those programs. The Western Research Coordination and Implementation Committee is responsible for evaluating each new or revised proposal for projects, and the AES directors approve or disapprove of them based on recommendations from the Research Coordination and Implementation Committee.

The Oregon Agricultural Experiment Station contributes to 83 different multistate projects (some committees are cross-listed in more than one goal):

- National Goal #1: 27 Research Committees, 27 Coordinating Committees, and 2 NRSP.
- National Goal #2: 2 Research Committees, and 1 Coordinating Committee.
- National Goal #3: 5 Research Committees, and 2 Coordinating Committee.
- National Goal #4: 25 Research Committees, 16 Coordinating Committees, and 1 NRSP.
- National Goal #5: 7 Research Committees, and 5 Coordinating Committees.

The OAES is actively encouraging our scientists to participate in multistate activities. We continue to monitor our progress.

E. Integrated Research and Extension Activities

Joint appointments in research and extension are the norm in the departments of the College of Agricultural Sciences. Ten faculty members located at research and extension centers and branch research stations have partial or full extension appointments. All

multidisciplinary working teams include both extension and research faculty. Many of the Oregon representatives to Multistate Research and Coordinating Committees have joint appointments with Extension. During the 2004 Spring Joint Western Directors' meeting, AES and ES directors decided to establish three new multistate, multidisciplinary, and multifunctional projects for us to pursue: Water, Rural Community Sustainability, and Obesity and Nutrition. OAES will continue to promote and encourage our faculty to participate in the integrated activities.