



Department Mission

The Oregon State University Extension Service engages the people of Oregon with research-based knowledge and education that focus on strengthening communities and economies, sustaining natural resources, and promoting healthy families and individuals.

The Mission of the Agricultural Experiment Station is to conduct research in the agricultural, biological, social, and environmental sciences for the economic, social and environmental benefit of Oregon.



Mandated Services

Non Mandated Partnership with Federal, State, and Local Funds.

- Morrill Act 1862, 1890, Land Grant University System
- Hatch Act 1887 Agricultural Experiment Stations
- Smith-Lever Act 1914 Cooperative Extension
- Klamath County Extension 1914, 101 Years
- Klamath Research Station 1937, 78 Years
- KBREC 2006, Vandenberg, Washburn Sites Combined
- Partnership Federal, State, County, Grants, Industry

Department Overview:

Provide Research Based Education to the Citizens of Klamath County in relationship to Healthy People, Healthy Environment, and Healthy Communities.

Research and Education is driven by community needs.



Self Imposed Services

- Family and Community Health
 - Health and Nutrition
 - Diabetes
 - Master Food Preserver
 - SNAP-ED
- 4-H and Youth Development
 - Clubs
 - Exchange Programs
 - Shooting Sports
 - Science Engineering and Technology
 - Citizenship/Leadership
 - Healthy Living
 - College Scholarship
 - Natural Resources and Outdoor Adventure
 - Career Exploration
- Forestry and Natural Resources
 - Fire Science
 - Woodlands
 - Wild Fire Interface
- Agriculture
 - Livestock
 - Economics
 - Forages
 - Potatoes
 - Grains
 - Alternative Crops
 - Small Farms
 - Master Gardeners
 - Junior Master Gardeners



Successes and Challenges

Impacts

Every \$1 in Nutrition Education returns \$3.60 in future health care costs
4-H/Youth Development, 422 Youth Enrolled, 97 Leaders

County Fair

Input/Output Analysis and Multiplier Effects on Communities
Community Capacity, Economic and Social

- Total Volunteer Hours 13,830/2080 = 6.6 FTE
- Independentsector.org (2013) Oregon \$21.35 = \$295,270
- Plant Clinic 270 walk in/phone contacts
- Total Face-to-Face contacts 37,930 (does not include media contacts)
- Research \$1 spent yields \$10 to society (USDA Economic Brief #10, September 2007)
- Economic analysis of the public investment in the PNW breeding and variety development program estimated that for every dollar invested in research, the PNW potato industry will benefit by \$38.97.

How We Function

Research and Resources, Classes,
Publications, Field Days, Fairs, On-Line,
Media, One on One

Successes and Challenges



Current Research Trials

Tri State Potato Development Trials, 2013+- 50,000 Varieties
Alternative Crops, Camelina, Euphorbia, Russian Dandelion, Teff, Canola,
Reduced Irrigation
OSU/KCC Agreement
Move/Investment (\$480,000 County) (\$95,608 OSU)
Potato Endowment \$250,000
Community Economic Impacts
Deficit Irrigation
Management Alternatives
Pesticides (new products alternative rates)
Fertilizer (alternative rates)
Irrigation
Rotation
Cover Crops
Western Wheat Variety Trials

This research station has provided research addressing local concerns since 1937. The activities at the research station are supported by Federal, State, County, Grant, and Fee based experiments and production trials.

The data gathered from these research activities are shared with local, regional, national, and international entities through site visits, field days, class room presentations, seminars, and one on one teaching events.

Research conducted at this site supports the \$290 million dollar agricultural business sector in Klamath County, (OAIN data 2012p).

Research \$1 spent yields \$10 to society (USDA Economic Brief #10, September 2007)



OSU Wheat Dominates OR Industry

--60% of Oregon Wheat Acreage is planted to OSU varieties

--6th Most Valuable Commodity Statewide

--\$224 Million Dollar Value

-19% of Washington Wheat Acreage is planted to OSU varieties

**OSU Wheat Varieties = Increased Yield
Disease/Pest/Herbicide Resistance
Increased Yield of 2 bu/A in Recent Years
Estimated Value of \$10 Million to Growers**

80% of Klamath Basin winter wheat acreage is planted to OSU varieties

Accounts for 15% of entire Basin Wheat acreage

Continuing to Evaluate Improved Spring Varieties – OSU KBREC & UC IREC

Tri-state Potato Breeding



OSU, WSU, UofI, USDA/ARS Partnership Since 1985

--30 New Potato Varieties Developed

**Improved nutritional value, pest/disease resistance,
processing quality, reduced inputs**

--35% of Oregon Potato Acreage is planted to Tri-state varieties

--37% for Washington

--23% for Idaho

--Ranger, Premier, Umatilla, Alturas

--140,000 acres in PNW

--Value of \$505 Million Annually

**--Potentially Higher – Difficult to Measure Economics of Reduced
Inputs**

Fertilizer, Pesticides, Reduced Water Requirements

Impact to Klamath Basin

--10% of Russet Acreage is Planted to Tri-state Varieties

--40% of Red/Yellow/Specialty Acreage

--Purple Fiesta – Exclusive License to Klamath Basin Fresh Direct

**Active Wheat and Potato Commissions Partner w/ OSU to Ensure
Short and Long-term Economic Viability of Oregon Agricultural**

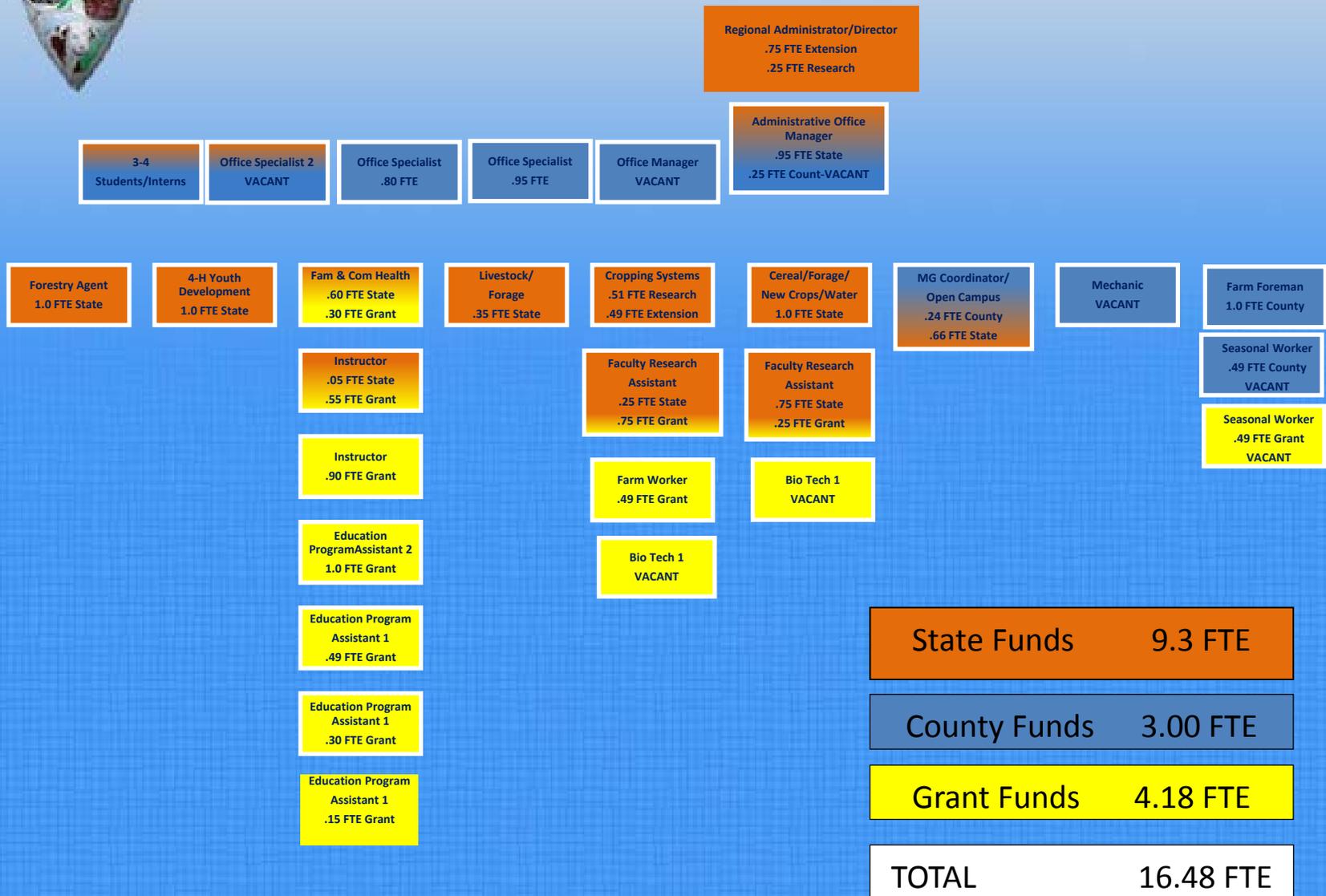
**Increased Need as Global Population Continues to Exponentially
Rise**



Klamath Basin Research & Extension Center

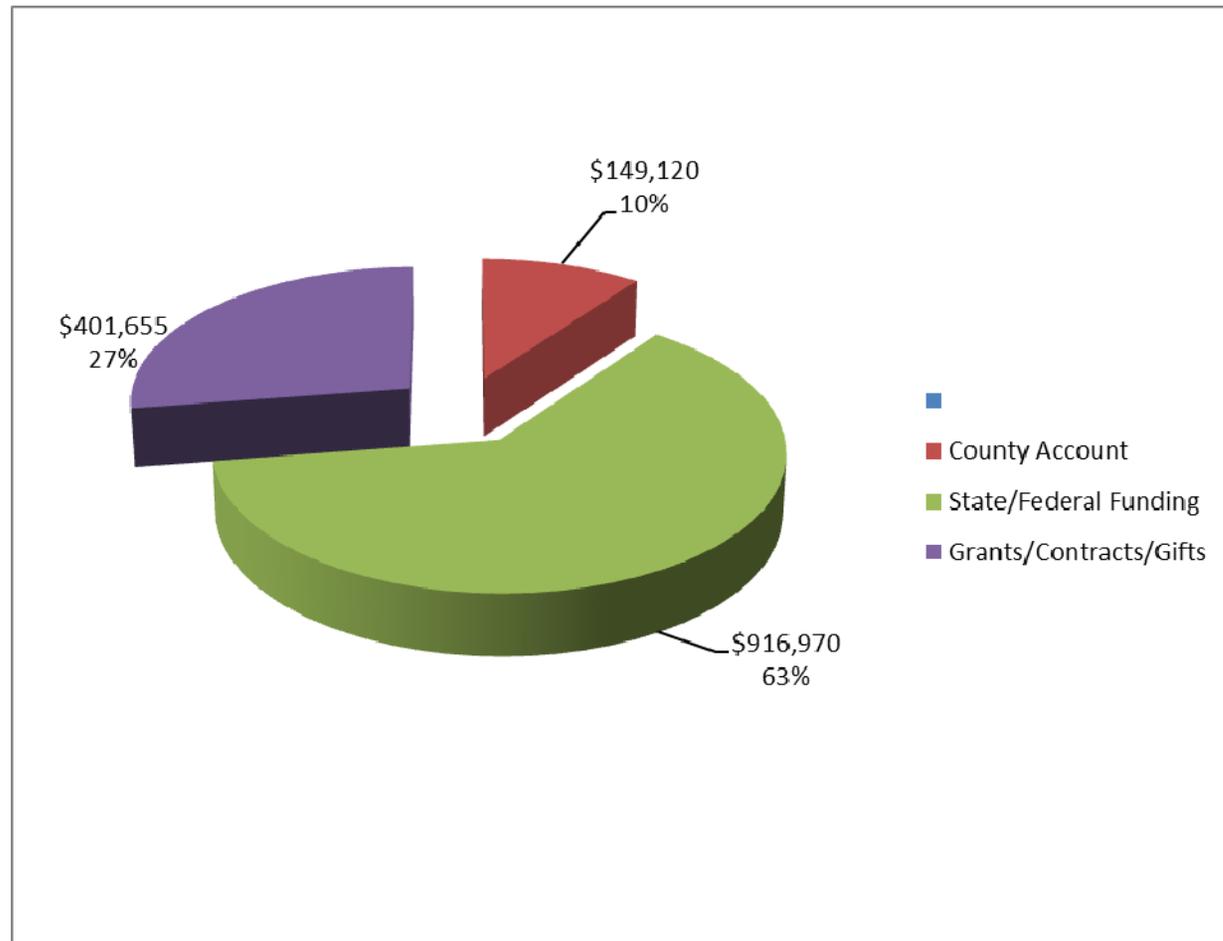
Organization Chart

January 2015





**OSU Klamath Basin Research
and Extension Center Proposed
FY16
\$1,452,655**





OSU KBREC

Significant Changes 2015-2016

Decrease Office Hours

Employees Transferred to State

Redistribution of support staff duties

Reassignment of state faculty and duties.

Agreements with local farmers for joint demonstration plots in order to keep all acres in production.

Strategic Plan to move KBREC out of the General Fund over a two year period, KBREC Success and Election for Service District in May.

Begin to Rebuild the Organization