



**Growing the next generation of leaders** The University Agricultural Laboratory (UAL) or the “Farm” operates to provide students with hands-on learning experiences in all aspects of agriculture. The 1,000-acre Farm located on the Fresno State campus, plus 4,500 acres of Sierra foothill rangeland located 20 minutes from campus at the San Joaquin Experimental Range near O’Neals are comprised of functional enterprises that serve as outdoor classrooms and laboratories for faculty and students. We explore the latest advancements in agriculture and conduct applied research relevant to the region’s agricultural issues and economy.



**Over 20 Enterprises** serve as outdoor laboratories and classrooms. Eighty class sections are taught annually and more than 150 students are employed during the year working over 80,000 hours.

**Students are our most valuable resource** and on the Farm, Fresno State students learn all aspects of agriculture including growing and managing crops and livestock, making wine, processing dairy, meats, fruits and the marketing of products.



**Agricultural Operations** maintains the Farm with expertise from personnel with diversified skills in close association with students, faculty and industry partners.

**The Water, Energy and Technology (WET) Center**, home to the Claude Laval Water and Energy Technology Incubator and the testing facilities of the International Center for Water Technology (ICWT), provides an entryway for entrepreneurs and innovators to accelerate commercialization, product and business launch and the development of practical application of new technologies. Its blueprint has been expanded as part of a \$5 million California Energy Commission grant to establish the Central Valley Regional Energy Center. The five-year agreement will encourage business and technology innovation for agricultural, water, energy and allied companies for two-thirds of the state.



**Ongoing research** is actively underway through the Jordan College that annually generates over 20% of the total grants and contracts at Fresno State. The California Agricultural Technology Institute (CATI) serves as the umbrella for our college-wide research

and grant opportunities. CATI is coalesced around the following institutes and centers:

- Institute for Food and Agriculture
- Viticulture and Enology Research Center
- California Water Institute / Center for Irrigation Technology



Approximately 20 researchers and 40 student assistants are active in water-related research efforts that include improving water use efficiency via air injection, CO2 enrichment, ‘smart’ irrigation units, and converting ethanol from crops and dairy

waste, and improved irrigation methods for sugar beets, sorghum and peppers. Food scientists are funded to help assuring food safety related to retail almond nuts, mango processing methods, and peach packing practices.

Fresno State is one of four CSU campuses that receive legislative funding to support the Agricultural Research Institute (ARI). The \$4 million in ARI funds are distributed for campus-based projects on a competitive basis.

These projects and programs build upon a successful record of applied research accomplishments. They enhance, augment and extend the basic research conducted by the nation’s land grant universities.





## Enterprises managed through the college include:



- **Wine and Table Grape Vineyards**  
120 acres of table, raisin and wine grape vineyards provides the training ground for numerous award winning viticulturists and wine-makers



- **Animal Units and Food Processing** Beef, dairy, horse, poultry, sheep and wine units, plus meat/food processing labs and creamery maintained by our faculty/students support education



- **Horticulture Units**  
Facilities for plant propagation, greenhouses and a tissue culture laboratory allow students to study plant health, soil/water, agronomy, and horticulture



- **Foster Farms Poultry Education and Research Facility**  
Flocks of 20,000 day-old chicks are raised in the 16,320-sf state-of-the-art, temperature-controlled environment for 45 days until market weight



- **Tree Fruit and Nuts**  
230 acres of orchard include grapefruit, oranges, Clementines, peaches, nectarines, olives, almonds, pistachios, walnuts and more



- **Vegetable & Field Crops**  
80 acres of vegetable crops and 220 acres of field crops grow seasonal fruits and vegetables including our popular sweet corn



- **Rue & Gwen Gibson Farm Market**  
Retail showcase for Fresno State, student-produced wine, dairy, fresh fruits and vegetables, candy, nuts, jams, jellies, sauces, meats, flowers and plants



- **Licensed Winery**  
First commercially bonded winery on any U.S. university campus; 50,000 gallon capacity; 2,000+ student hours

## Ag Matters

### Outreach and Community

FFA Field Day, host to 5,000+ FFA Students – Ag Boosters BBQ – Big Fresno Fair – Meat Science Showcase, Industry Appreciation Dinner – Grape Day – City of Fresno Water-Wise Plant Exchange – Common Threads Luncheon – Fresno County Farm Bureau Farm and Nutrition Day – Gibson Farm Market Farm Festival – Kern County, North Bay and Stanislaus Alumni Events – Livestock Judging Camp – Helping Hams – National Agriculture, Pistachio and Raisin Days – Papa Petrucci 5K Run – Red Wave Classic – Spring Fashion Show – Student Career Fairs – Ag One, Taste of Spring and Taste of Vino Wine-Tasting Events – Trap Shoot – Turf Day Golf Tournament – University House Citrus Harvest – Water Technology Conference – Wine Weekend in the Woods and Winemaker's Dinner – Farm Tours for K-12 students and thousands of domestic and international visitors

### Continued Success

The Gibson Farm Market garners strong community support and sales revenues with its farm-fresh products and special events. Annual sales are projected to reach \$1.5 million.

Dairy processing produces its highly popular and delicious products, including milk, cheese and 44 ice cream flavors. Students from the food processing laboratory and culinology classes create candy, jams, jellies, sauces, syrups and baked products that are sold at the Gibson Farm Market.

### Financial Support

In spite of reductions in the state budget, the University Agricultural Laboratory continues to succeed financially. The state budget allocates \$1.455 million to help fund the Farm that costs approximately \$8.1 million to operate. The difference is made from Farm revenues that exceeded \$6.655 million in 2015. The healthy financial position allows strategic investments for the Farm.

### Jordan Agricultural Research Center

Made possible by a generous gift from the Bud and Dee Jordan family, the Jordan Agricultural Research Center is a first-of-its-kind research center on a CSU campus. Designed to change and grow with the latest scientific needs, the center links Agriculture, Science, Mathematics and Engineering students and faculty with industry leaders to nurture a cohesive research environment through interdisciplinary collaboration.

