



How is USDA Research Working for Texas?

In FY 2011, Texas received:

- **\$74 million** from the Agriculture Research Service (ARS)¹
- **\$22 million** from USDA Agriculture and Food Research Initiative (AFRI)¹

Agriculture Research Investments in Texas

- Texas has **19 ARS research units** including²:
 - Grassland, Soil and Water Research Laboratory
 - Southern Plains Agricultural Research Center: Food and Feed Safety Research
- **Texas A&M University** has 11 grants worth over **\$3.5 million**³ (grant descriptions³)

Baylor College of Medicine receives AFRI funding to study nutrient uptake in cereal crops to identify genes that would cause increased micronutrients involved in rice development in rice grains. Researchers at **Texas A&M University** are developing a new technique that will monitor and analyze daily precipitation levels in order to provide better drought prediction and response.

Small Business Benefits in Texas

- Texas small businesses received **\$660,000** through the Small Business Innovation Research and Small Business Technology Transfer programs within USDA NIFA¹ (grant description⁴)

AZYP, LLC., an Arlington-based biotech business, received a **\$130,000 grant** to develop a new purification technique that will produce safer and more effective pesticides and synthetic fertilizers.

Agriculture Value in Texas

- Texas has **245,000 farms**⁵ that account for **\$22.7 billion in total commodities**⁵, **\$7.5 billion in agricultural exports**⁵ and nearly **520,000 jobs**⁶
- U.S. public investments in agriculture research and development **produce benefit-cost ratios of 20:1 and higher**⁷

¹ USDA REEIS website, "State Snapshot", 2011

(http://www.reeis.usda.gov/portal/page?_pageid=193,899927&_dad=portal&_schema=PORTAL&smi_id=37)

² USDA Agricultural Research Service website

(<http://www.ars.usda.gov/pandp/locations.htm?mt=places&slimetype=search>)

³ USDA AFRI funded projects by state (http://www.nifa.usda.gov/funding/afri/afri_reports.html)

⁴ Budget data obtained from the SBIR/STTR website (<http://www.sbir.gov/past-awards>)

⁵ USDA Economic Research Service state facts sheets, 2011 data, "Farm Financial Indicators" farm (numbers), all commodities, total exports (<http://www.ers.usda.gov/data-products/state-fact-sheets.aspx>)

⁶ US DOC Bureau of Economic Analysis, NAICS 2011 data, combines farm, farm proprietors and agriculture and forestry support employment data. (<http://www.bea.gov/iTable/iTable.cfm?reqid=70&step=1&isuri=1&acrdn=4>)

⁷ *Persistence Pays: U.S. Agricultural Productivity Growth and the Benefits from Public R&D Spending*, Natural Resource Management and Policy, Vol. 34, 2010.