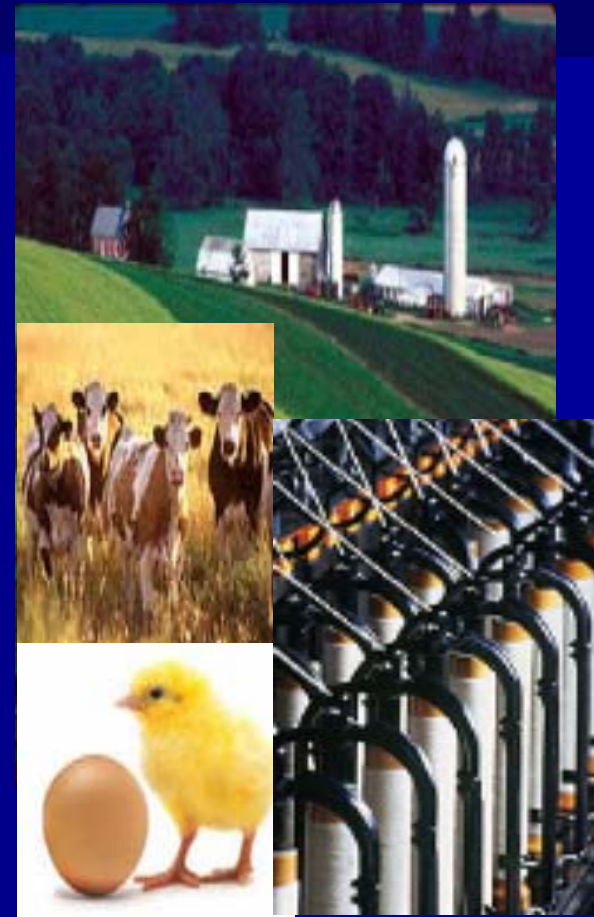


Technology Transfer in the USDA, Agricultural Research Service

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Agriculture in U.S. Economy

- 13% of the >\$9 trillion U.S. gross domestic product
- 17% employed in agriculture related industry
- Approx. 8% of U.S. exports (\$702B; agriculture trade surplus of \$20B)
- <2% U.S. workforce on farms
- 100% of the citizens are direct beneficiaries

ARS Mission Statement

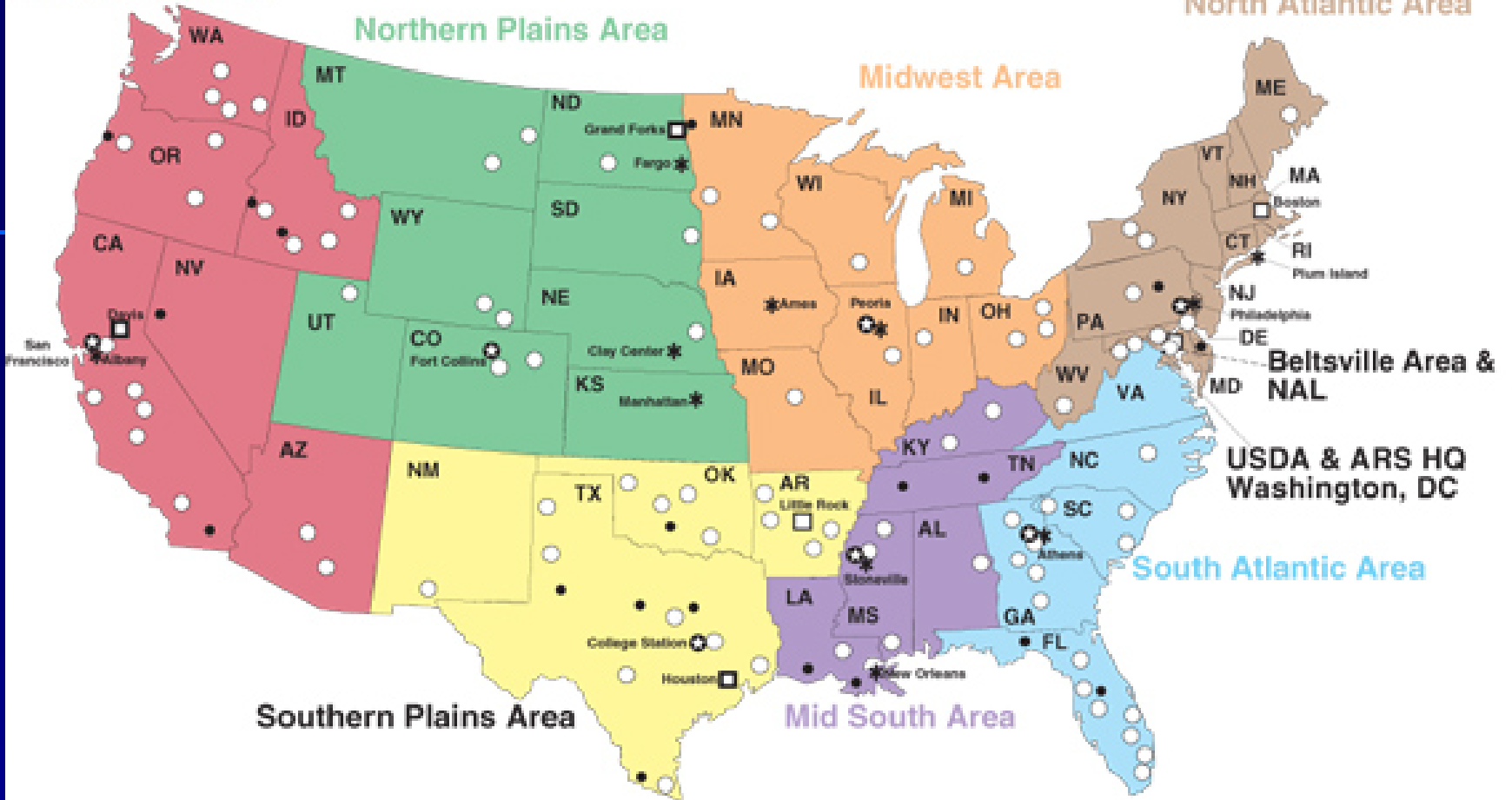
- ARS conducts research to develop and transfer solutions to agricultural problems of high national priority and provide information access and dissemination to:
 - ensure high-quality, safe food, and other agricultural products
 - assess the nutritional needs of Americans
 - sustain a competitive agricultural economy
 - enhance the natural resource base and the environment, and
 - provide economic opportunities for rural citizens, communities, and society as a whole.

Pacific West Area

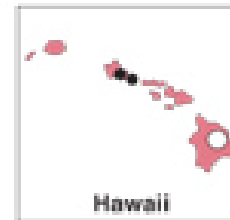
Northern Plains Area

North Atlantic Area

Midwest Area



- ⊙ Area Offices Headquarters
- * Research Centers
- Human Nutrition Centers
- Research Locations
- Research Worksites



ARS is the Largest Agricultural Research Organization in the World

- Annual budget of approximately \$1 billion (< 2% of Federal R&D budget)
- Over 100 locations
- Over 2,000 research scientists/engineers
- Over 8,000 employees
- Government owned – Government Operated



If it relates to agriculture or human nutrition, from apples to zoonoses, ARS is probably conducting research on it!

If you eat food, wear clothes, or enjoy the outdoors your life is improved, on a daily basis, by ARS conducted research.



SCIENCE IN YOUR SHOPPING CART



Some of the many ways, both familiar and surprising, that agricultural research touches and improves daily life in the United States



U.S. DEPARTMENT OF AGRICULTURE • AGRICULTURAL RESEARCH SERVICE

Program Ad 1551

Philosophical Approach to T2

- ARS' default position is to place research results in the public domain to insure broad availability
- IP protection (Patent or Plant Variety Protection Certificate) and licensing is used when such protection will enhance the likelihood of successful transfer and utilization
- ARS also licenses some biological materials that we choose not to patent
- Confidentiality is maintained only to protect patentability
- Effective transfer is the goal, not income

Technology Transfer Tools

- Publications/presentations/demonstrations
- Agreements
 - Cooperative Research and Development Agreement (CRADA)
 - Material Transfer Agreement
 - Confidentiality Agreement
 - Trust Fund Agreement
 - Reimbursable Agreement
 - Non-Funded Cooperative Agreement
 - Specific Cooperative Agreement
- IP protection/licensing
- Marketing

ARS does not have authority for

- Partnership Intermediary Agreements (Never delegated by Sec. Ag.)
- Enhanced Use Lease



FLC T2 Awards - 2007

- RZWQM2 for Evaluating, Managing, and Improving Water Quality from Agriculture (Publication, presentations, training)
- New Antibiotic to Control American Foulbrood Disease of Honey Bees (Publication, data to FDA)
- Soybean Protein-based Foamed Plywood Glue (Trust Fund Cooperative Agreement, Publication)
- Humane Device for Bleeding Mice (CRADA)
- Novel Technology to Reduce Human Food-borne Pathogens in Poultry (Patent and License)
- Intermediate-temperature and Hot Lime Clarification Processes for Sugar Processing (Publication, Demonstration)