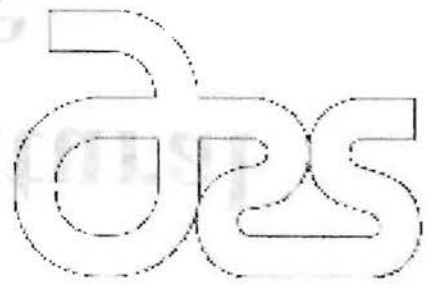
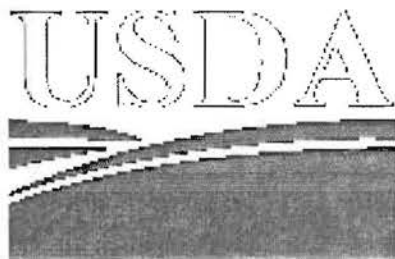


**The US Department of
Agriculture
Agricultural
Research Service**

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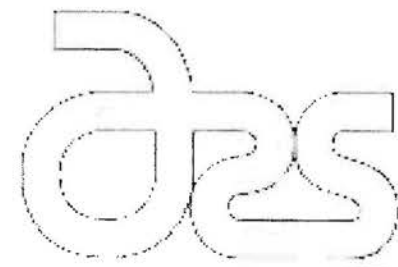


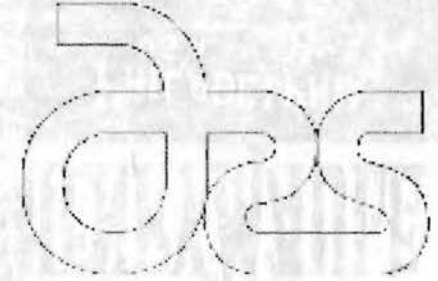
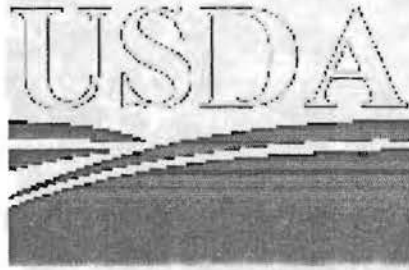


Profile of the Agricultural Research Service



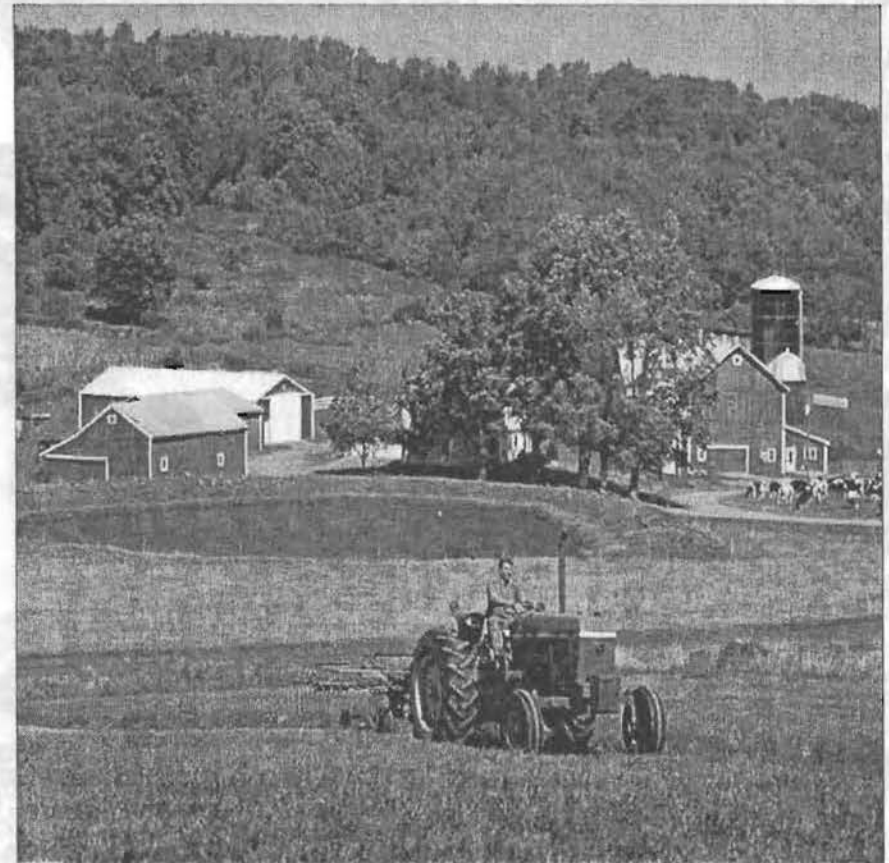
- Agriculture in U.S. economy
- ARS Organization
- Mission of ARS
- The program planning cycle
- Information dissemination & technology transfer

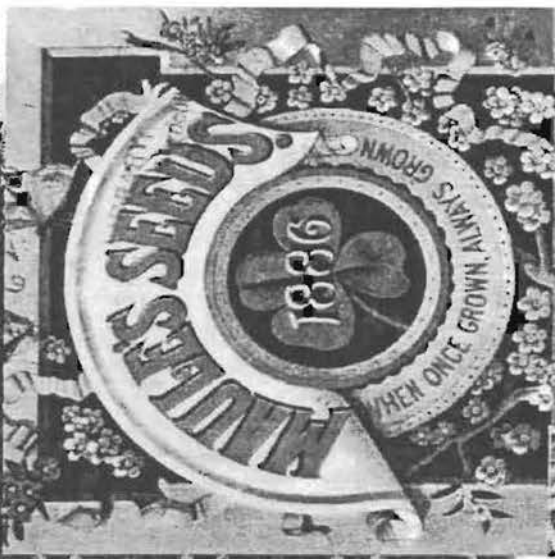




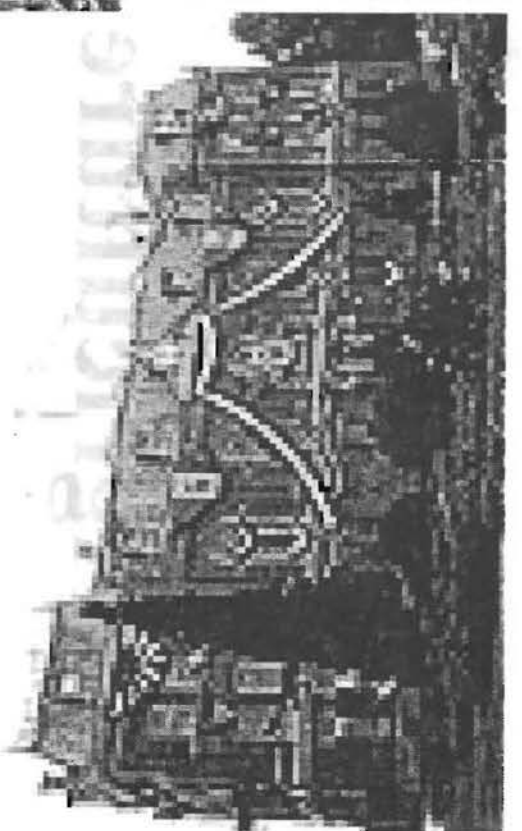
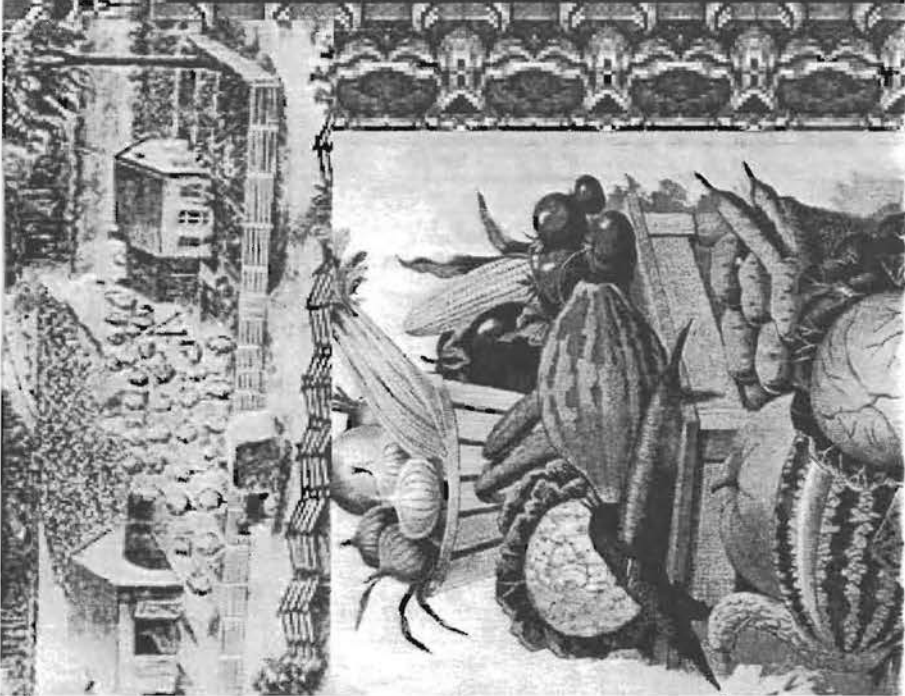
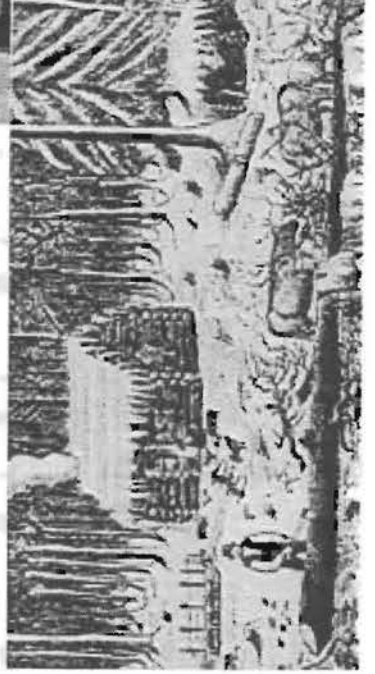
Agriculture in U.S. Economy

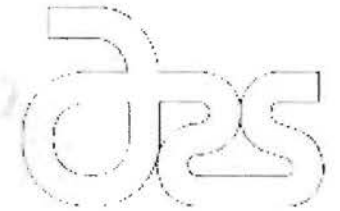
- 16% of the \$9 trillion U.S. gross domestic product
- 17% of employed
- 8% of U.S. exports in 1999
- 2% U.S. workforce on farms





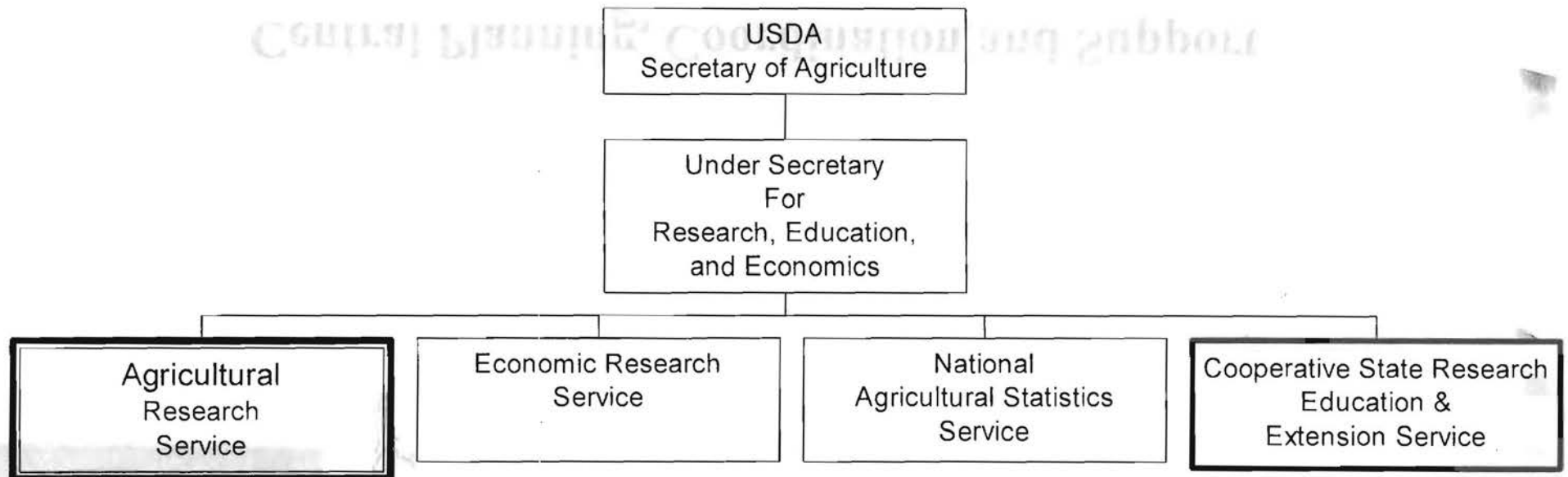
HENRY MAULE
PHILADELPHIA
U.S.A.

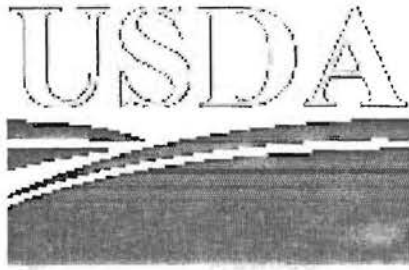




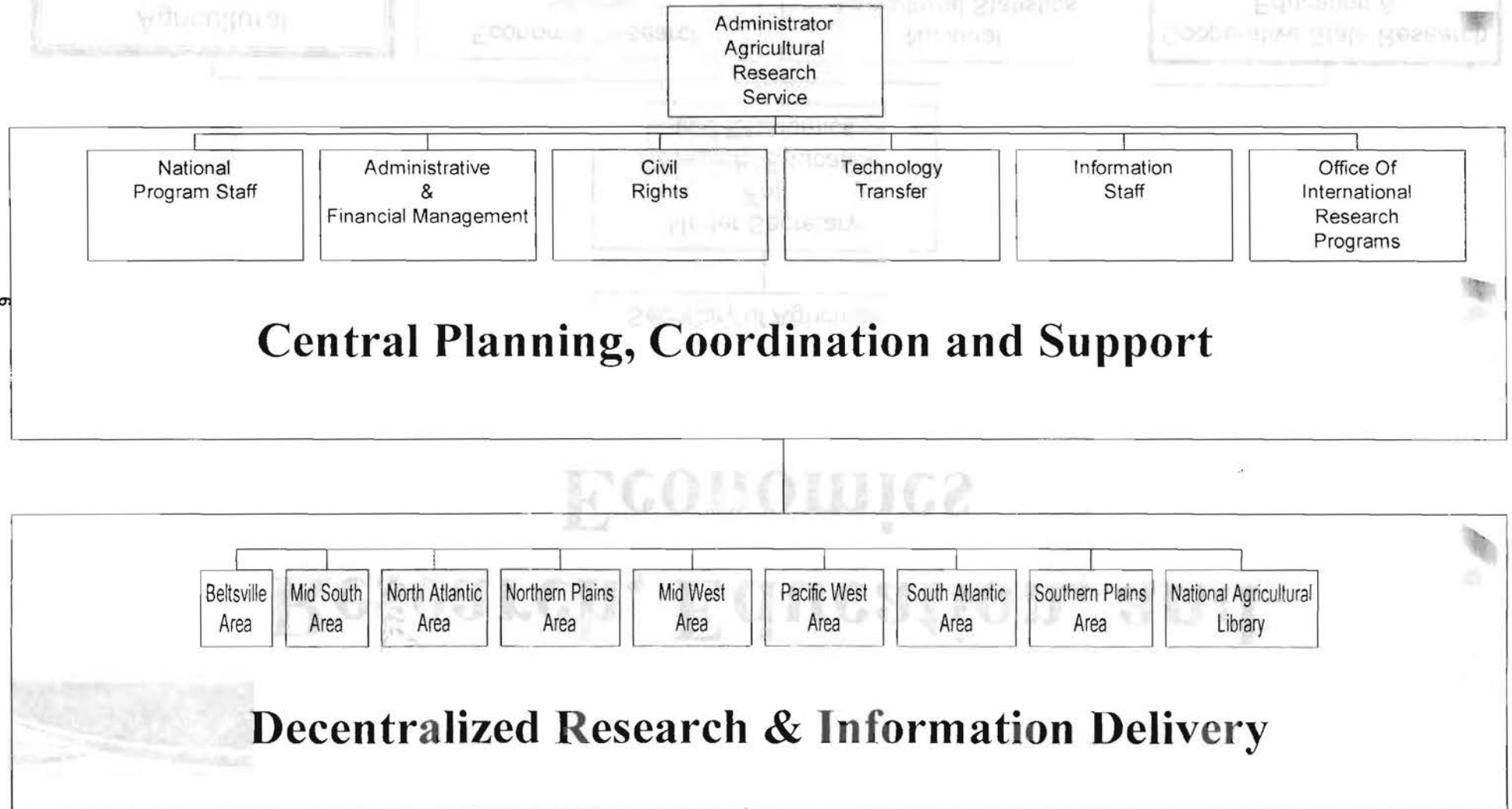
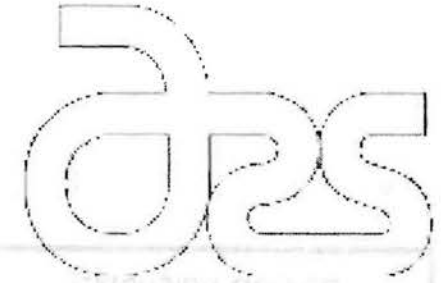
Research, Education, and Economics

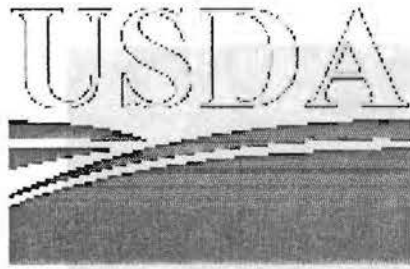
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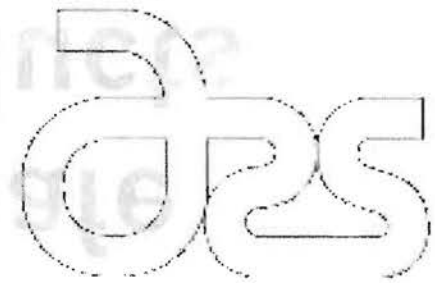
ARS Organization



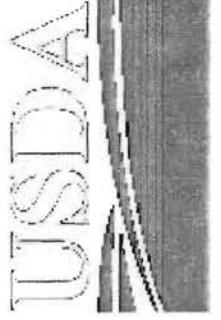
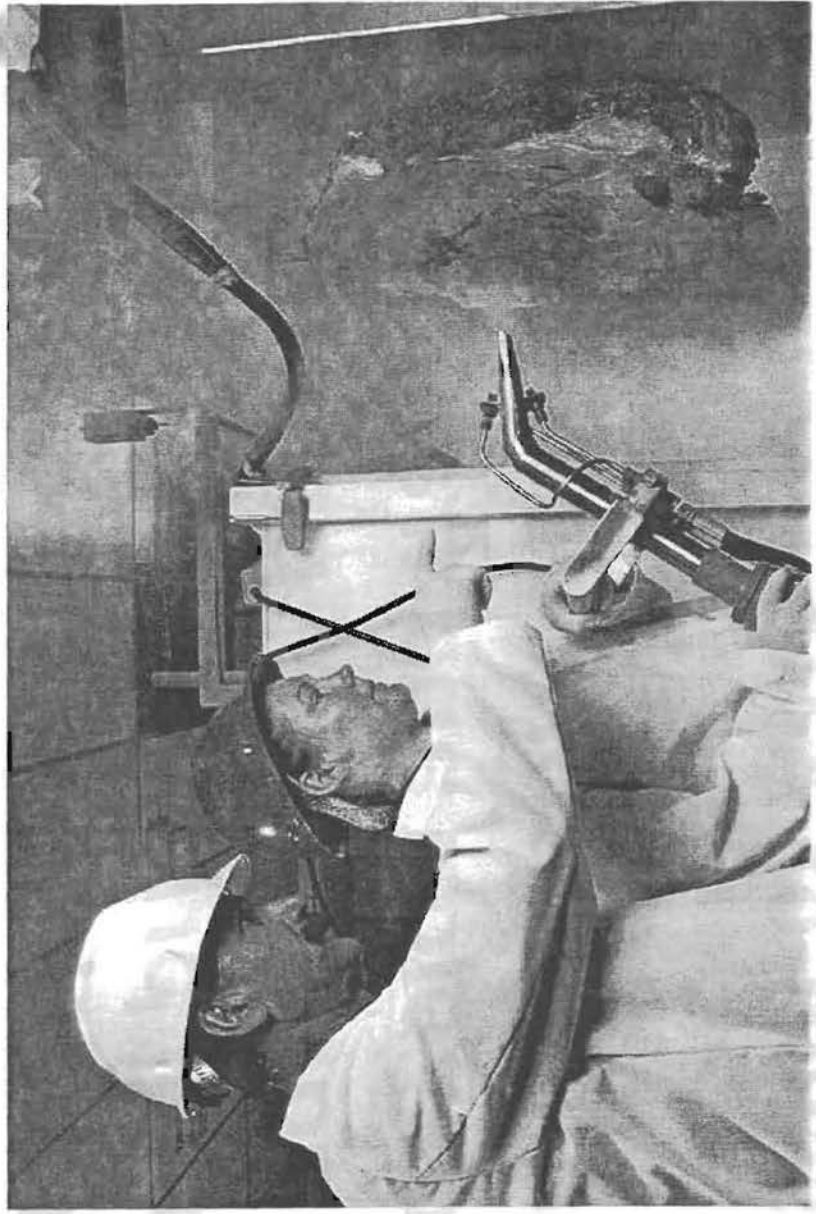


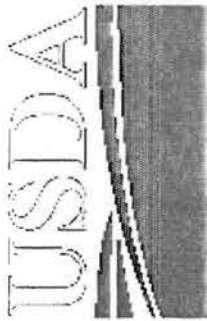
Mission of ARS

“Our mission is to conduct research to develop and transfer solutions to agricultural problems of high national priority and provide information access and dissemination to . . .”

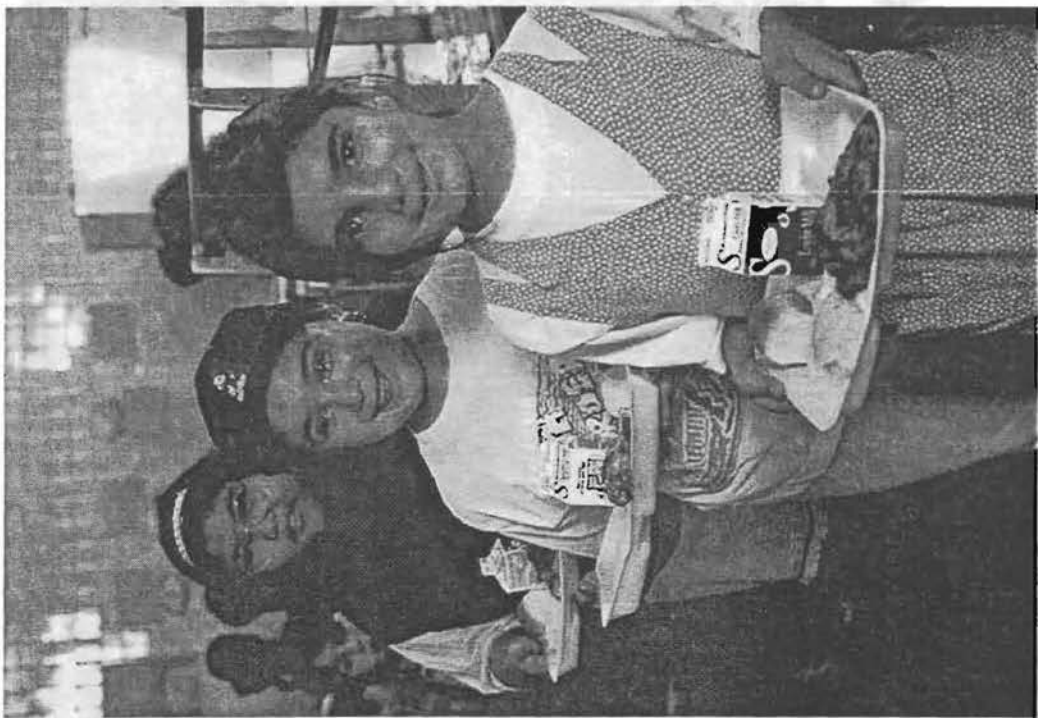


Ensure high-quality, safe food and other products



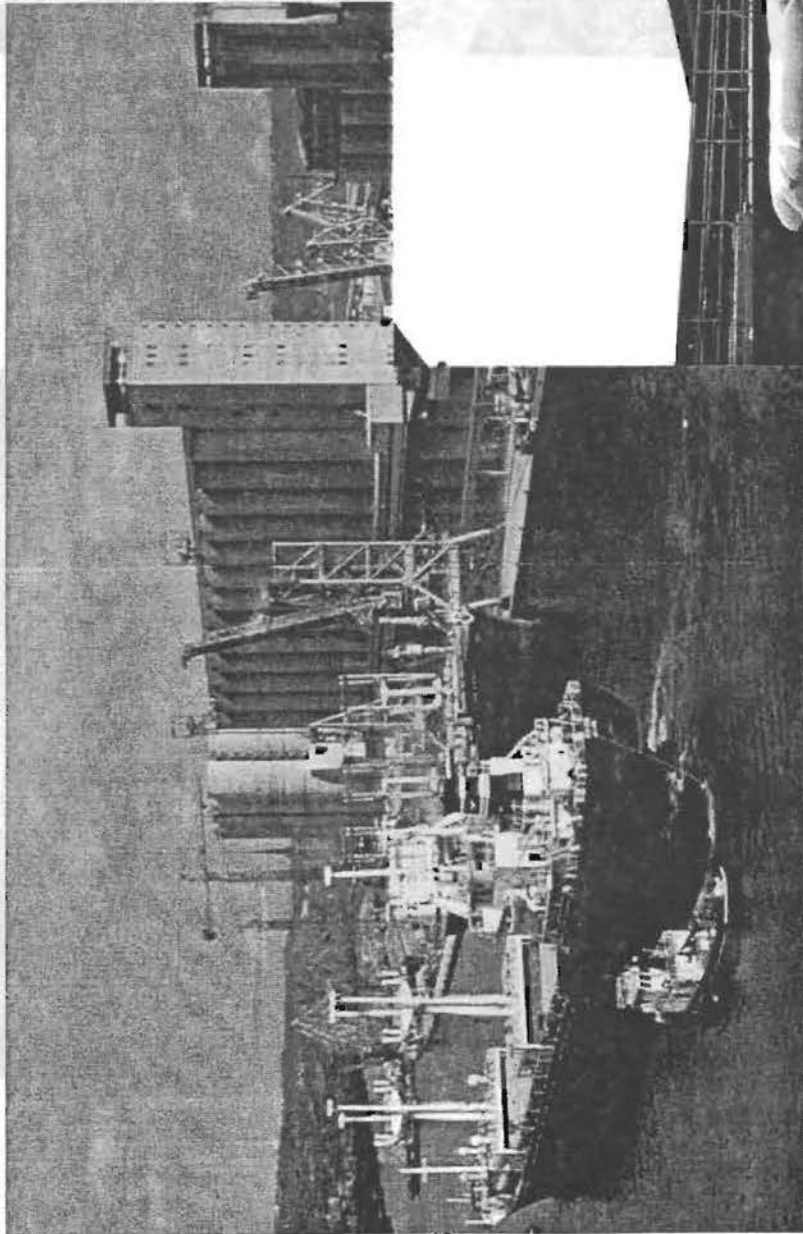


Assess the nutritional needs of Americans



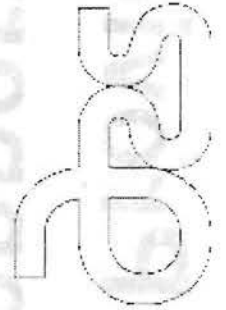
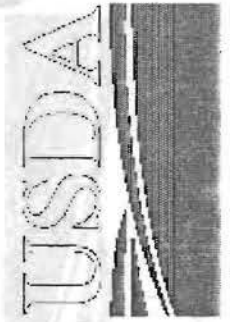
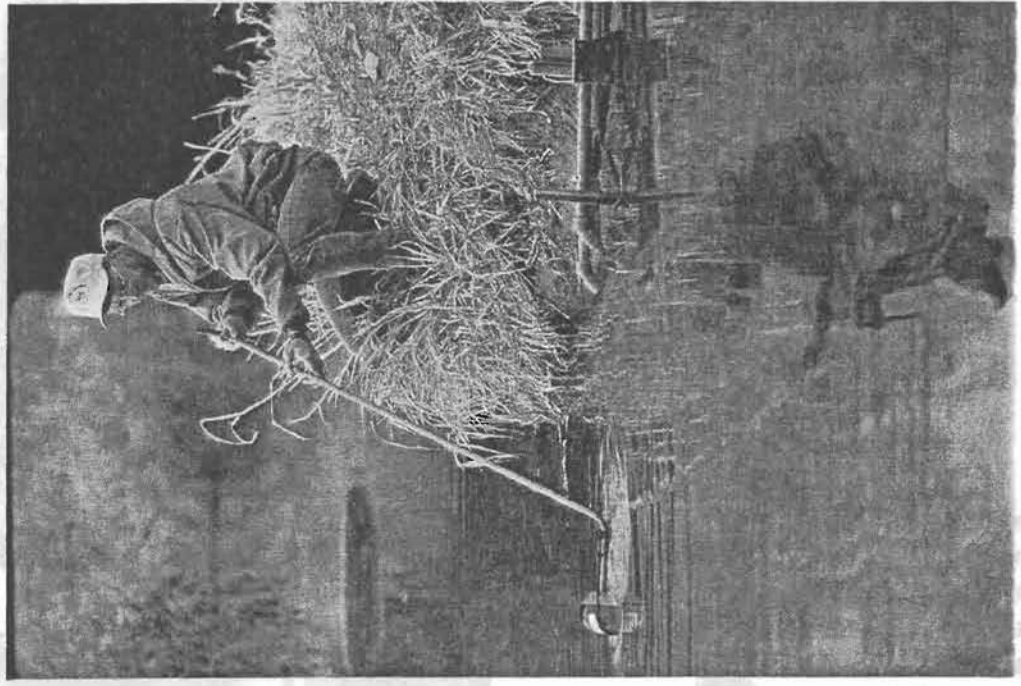
USDA

Sustain a competitive agricultural economy



es

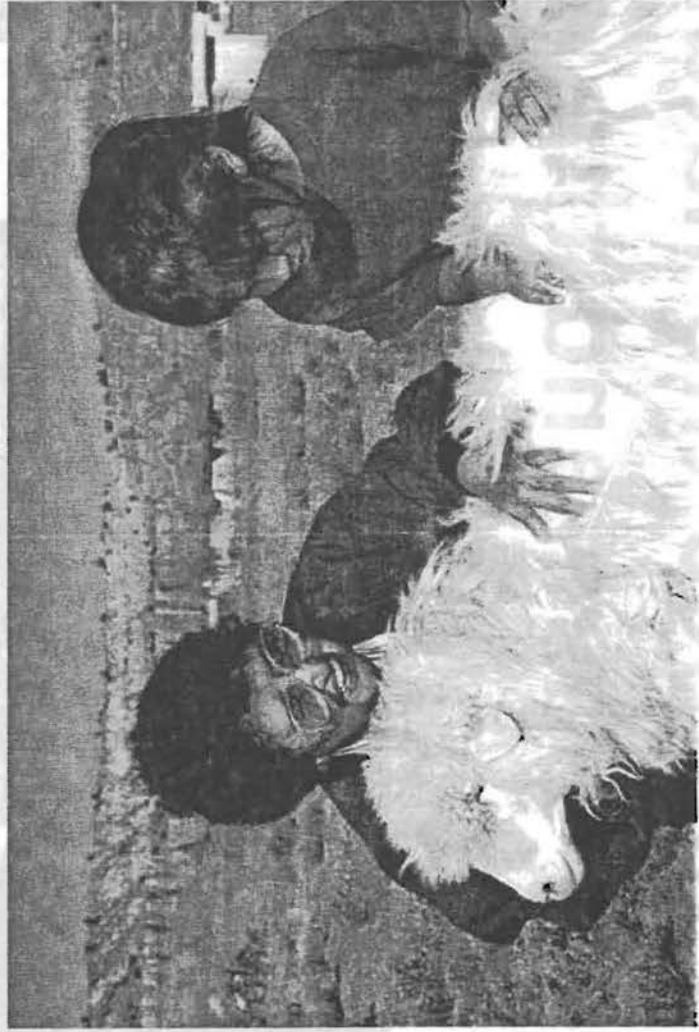
Enhance the natural resource base and the environment



USDA



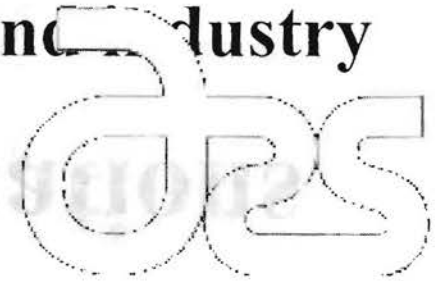
Provide economic opportunities for rural citizens, communities, and society as a whole

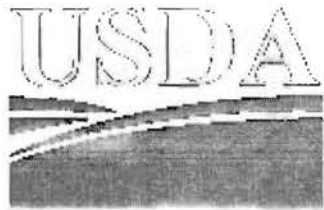




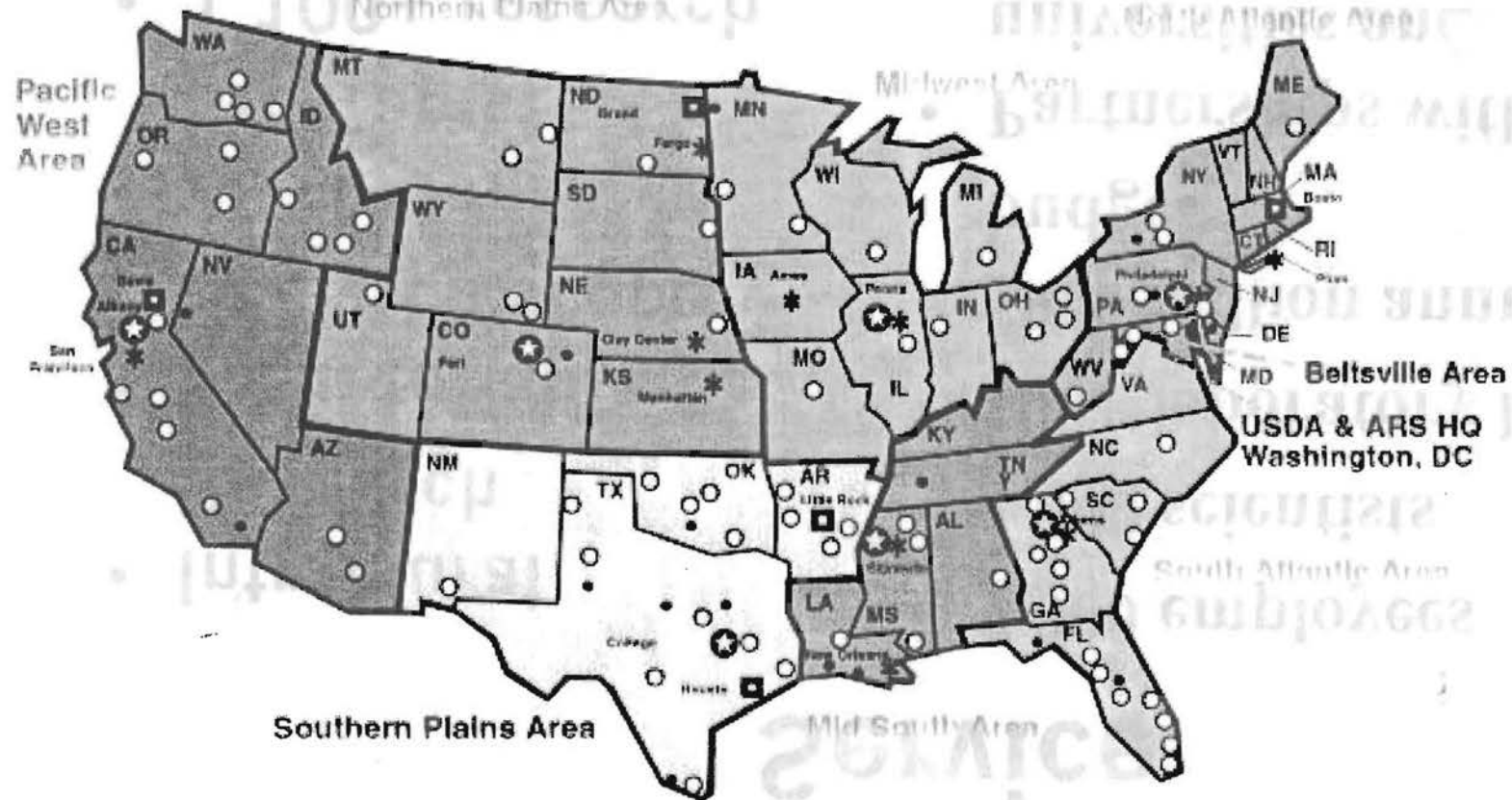
Overview of the Agricultural Research Service

- **Intramural Research**
- **Farm to table research scope**
- **22 National programs**
- **1,100+ research projects**
- **7,000 employees**
- **2,000 scientists**
- **100+ laboratory locations**
- **\$900 million annual budget**
- **Partnerships with universities and industry**



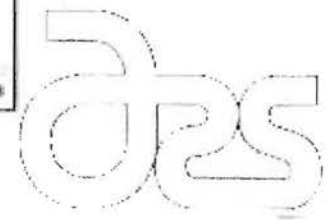
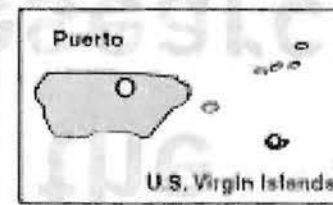
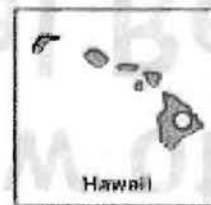


ARS Laboratory Locations



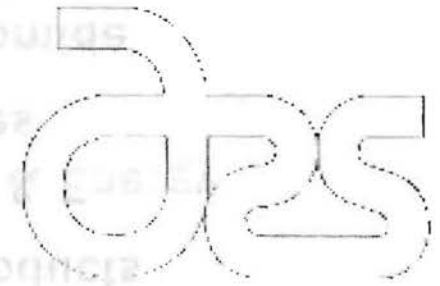
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- ⊙ Area
- ★ Research Centers
- Human Nutrition Centers
- Research Locations
- Research Worksites





ARS



International Locations

- **Montpellier, France**
- **Buenos Aires, Argentina**
- **Panama City, Panama**
- **Brisbane, Australia**
- **Beijing, China**



Animal Production

Food Animal Production
Animal Health
Arthropod Pests of
Animals and Humans
Animal Well-Being and
Stress Control Systems
Aquaculture
Human Nutrition
Food Safety (animal &
plant products)

Natural Resources

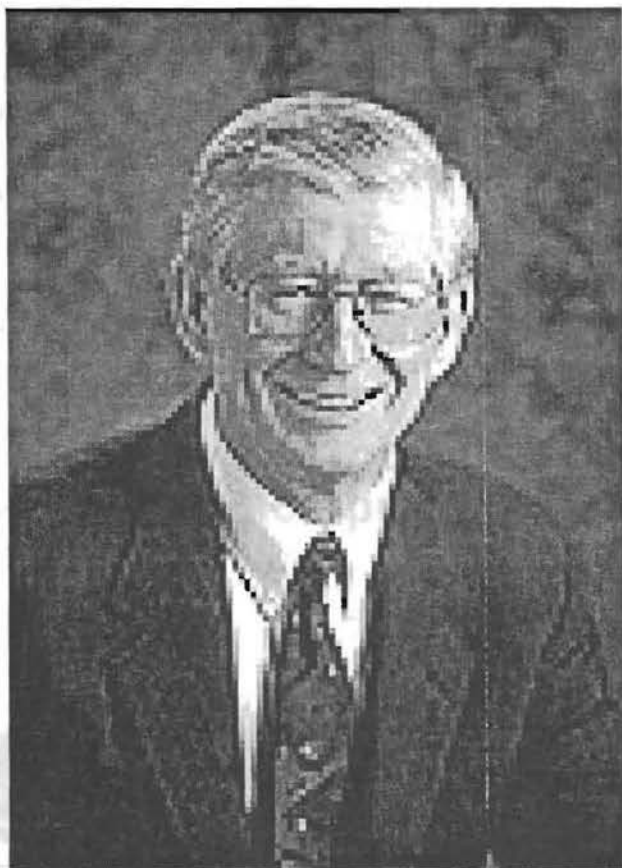
Water Quality &
Management
Soil Resource
Management
Air Quality
Global Change
Rangeland, Pasture &
Forages
Manure & Byproduct
Utilization
Integrated Agricultural
Systems

Crop Production

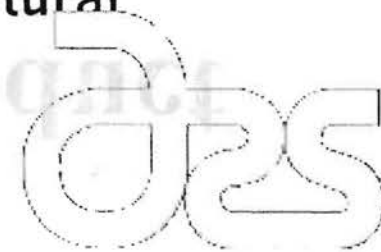
Plant, Microbial & Insect
Germplasm Conservation
& Development
Plant Biological &
Molecular Processes
Plant Diseases
Crop Protection &
Quarantine
Crop Production
New Uses, Quality &
Marketability of Plant &
Animal Products
Bioenergy & Energy
Alternatives
Methyl Bromide
Alternatives

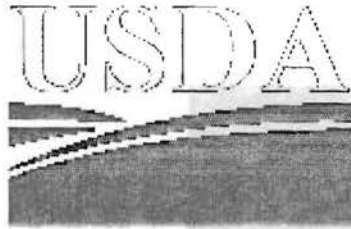


Natural Resources and Sustainable Agricultural Systems



- Water Quality & Management
- Soil Resource Management
- Air Quality
- Global Change
- Rangeland, Pasture & Forages
- Manure & Byproduct Utilization
- Integrated Agricultural Systems





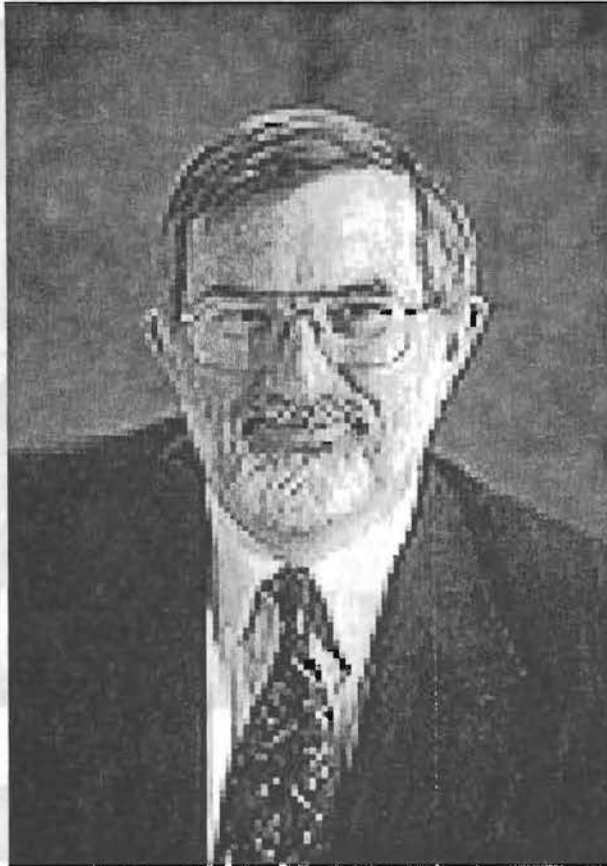
Crop Production, Product Value, and Safety

- Plant, Microbial & Insect Germplasm Conservation & Development
- Plant Biological & Molecular Processes
- Plant Diseases
- Crop Protection & Quarantine
- Crop Production
- New Uses, Quality & Marketability of Plant & Animal Products
- Bioenergy & Energy Alternatives
- Methyl Bromide Alternatives





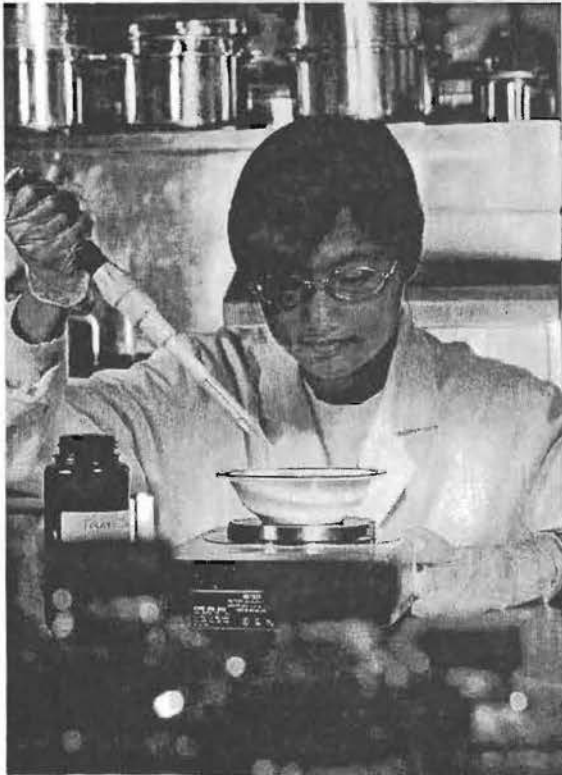
Animal Production, Product Value, and Safety



- Food Animal Production
- Animal Health
- Arthropod Pests of Animals and Humans
- Animal Well-Being and Stress Control Systems
- Aquaculture
- Human Nutrition
- Food Safety (animal & plant products)

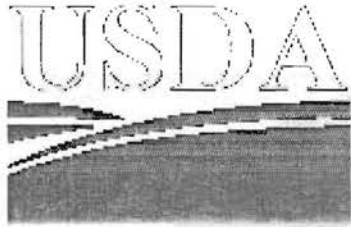


Role of National Program Staff

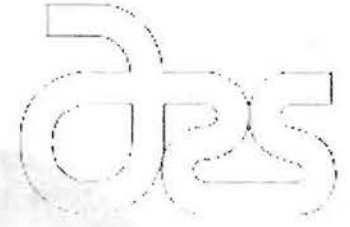


- **Maintain relevance of research program through:**

- Priority setting
- Budget development
- Program analysis
- Reporting to Congress and stakeholders
- Program coordination



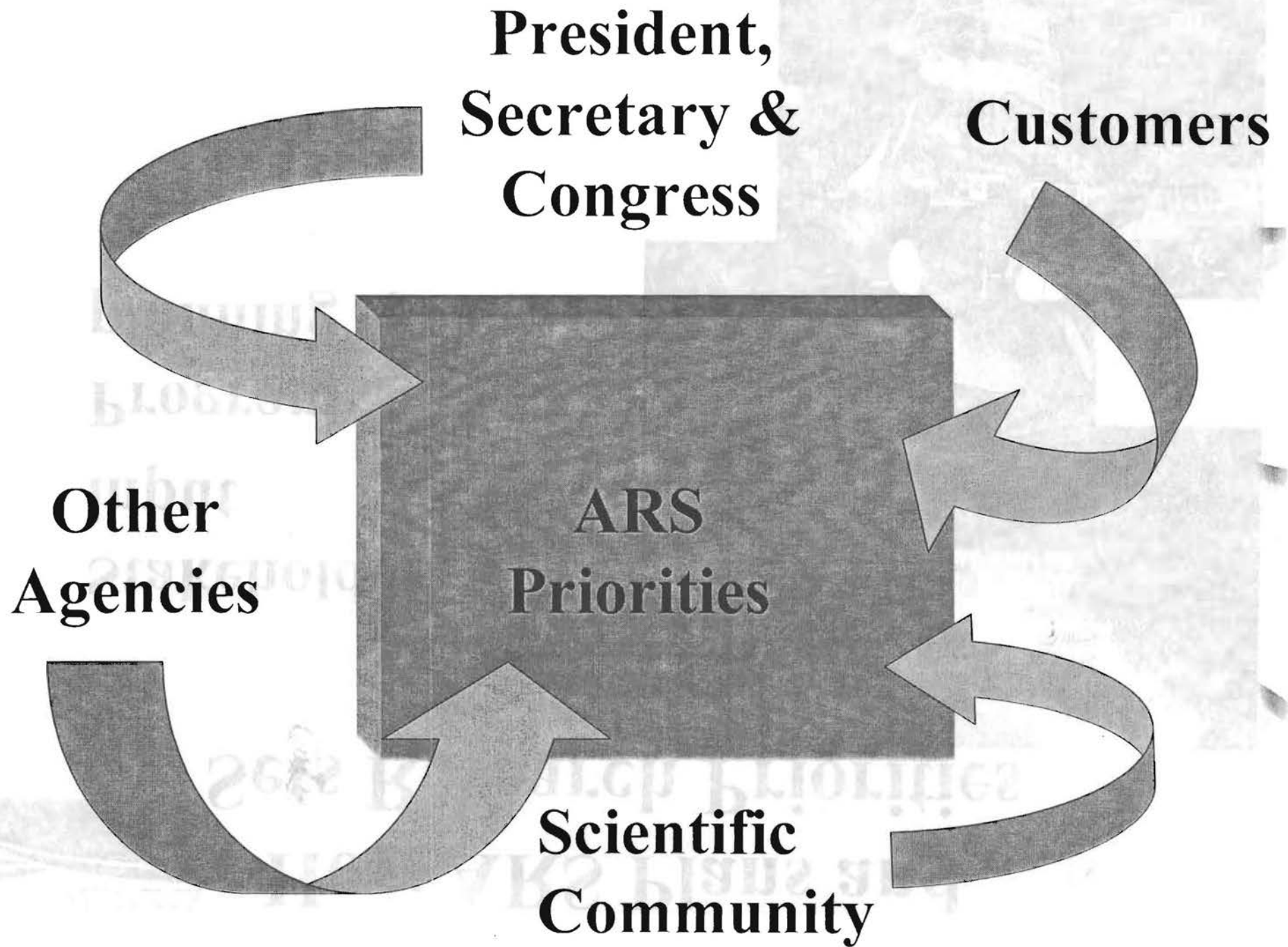
How ARS Plans and Sets Research Priorities



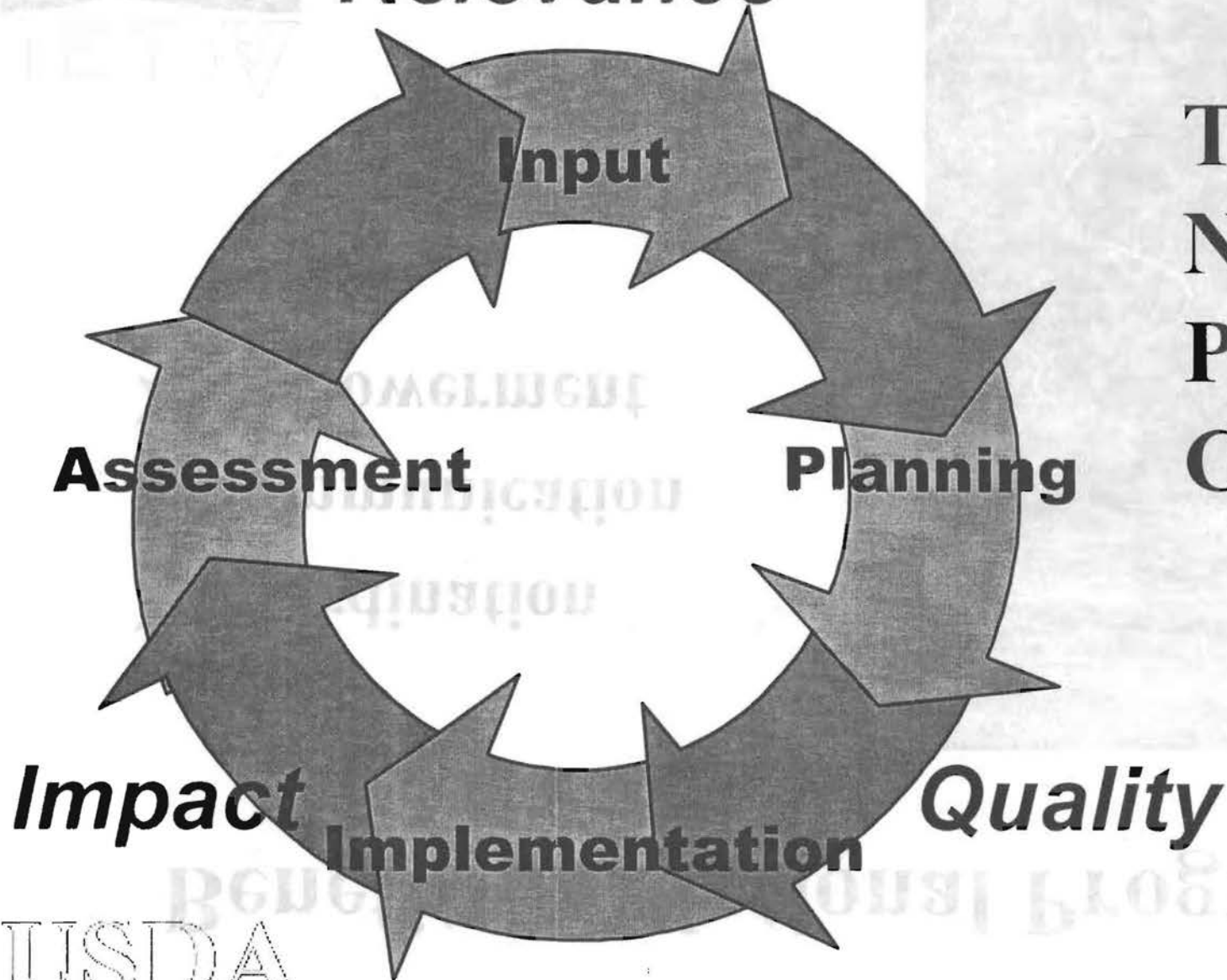
- Stakeholder input
- Program planning cycle

21



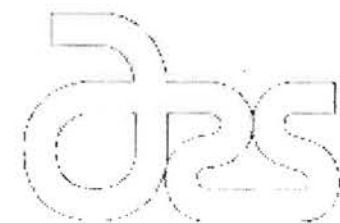


Relevance



**The
National
Program
Cycle**

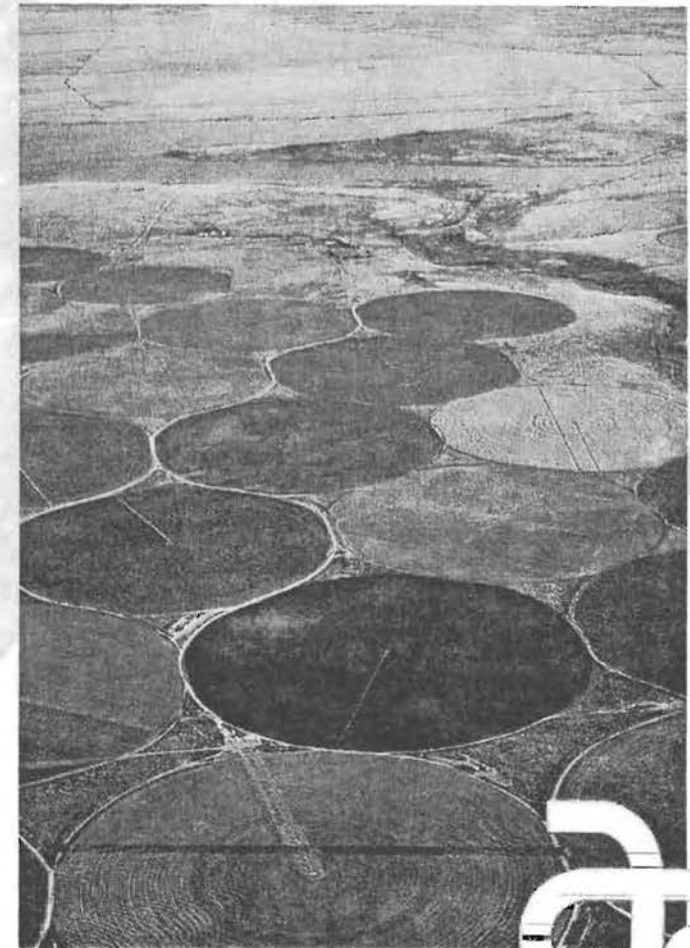
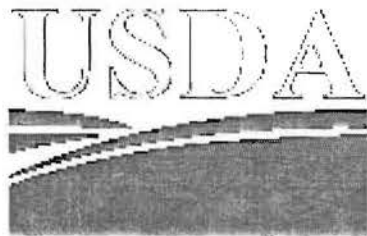
23



Benefits of National Programs

- **Coordination**
- **Communication**
- **Empowerment**

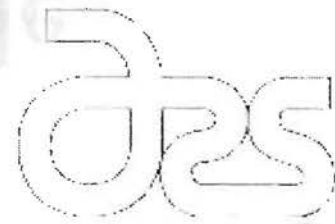
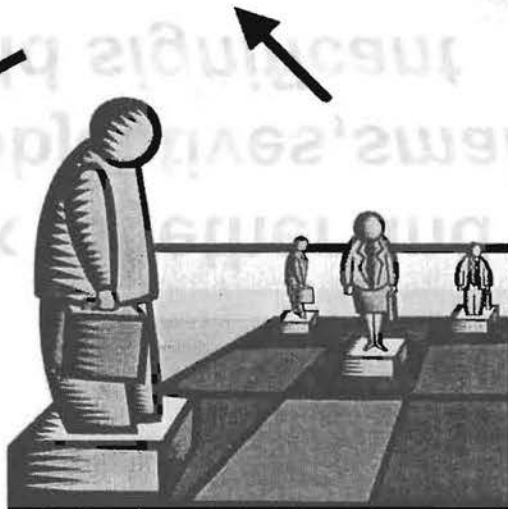
24



National Program Rationale

When *not* working together *nor* focused on common objectives, various efforts yield *small* improvements, but *significant* improvement is *not* realized.

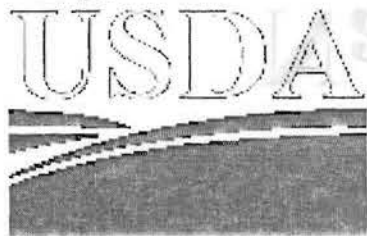
25



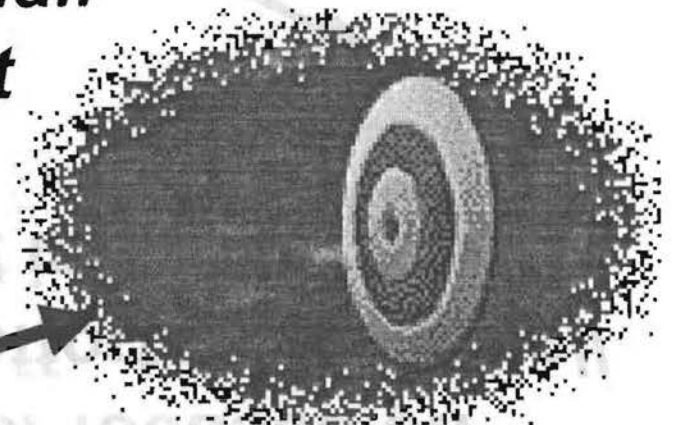
National Program Rationale

When people work together and pursue common objectives, *small* improvements yield *significant* improvement.

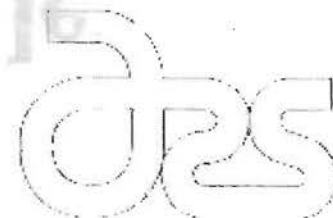
26



Each effort yields a *small* improvement



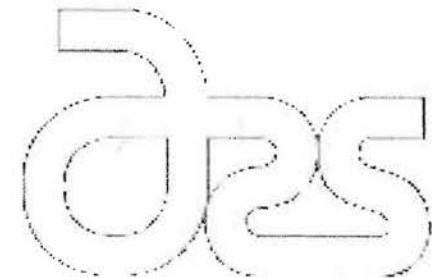
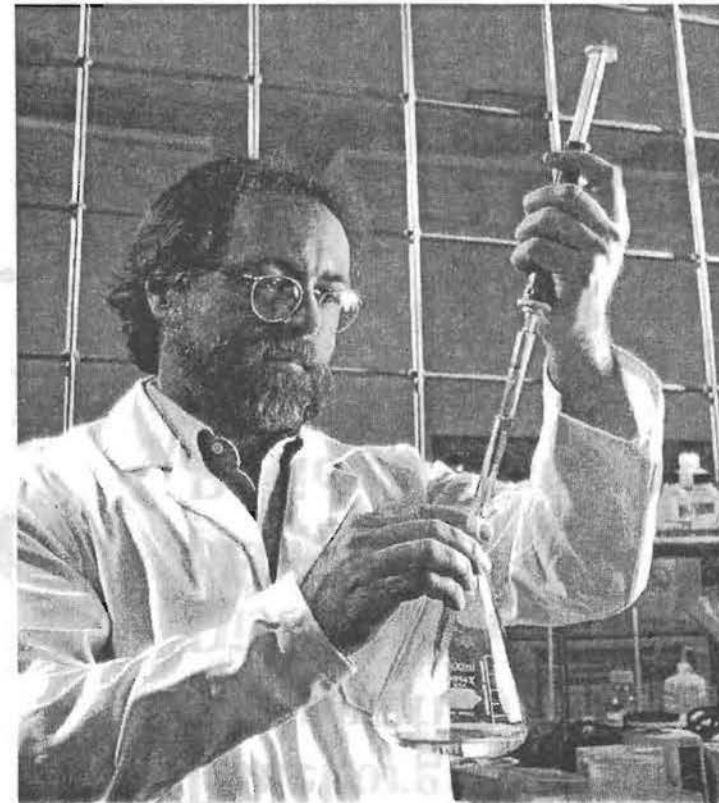
Combined effort yields *significant* improvement

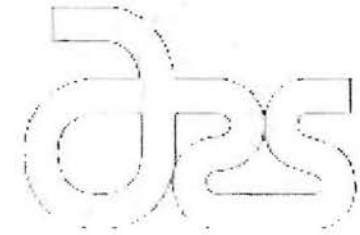




ARS Scientific Peer Review Process

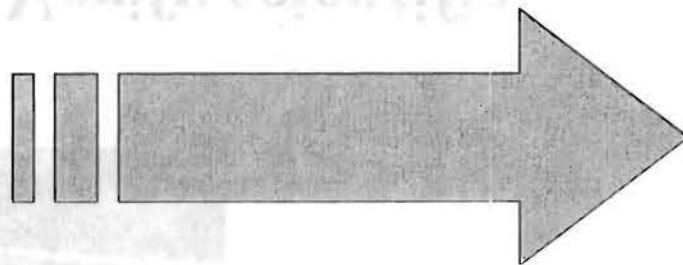
- **Verify scientific merit and programmatic relevance.**
- **At least once every 5 years; majority of reviewers external scientists.**





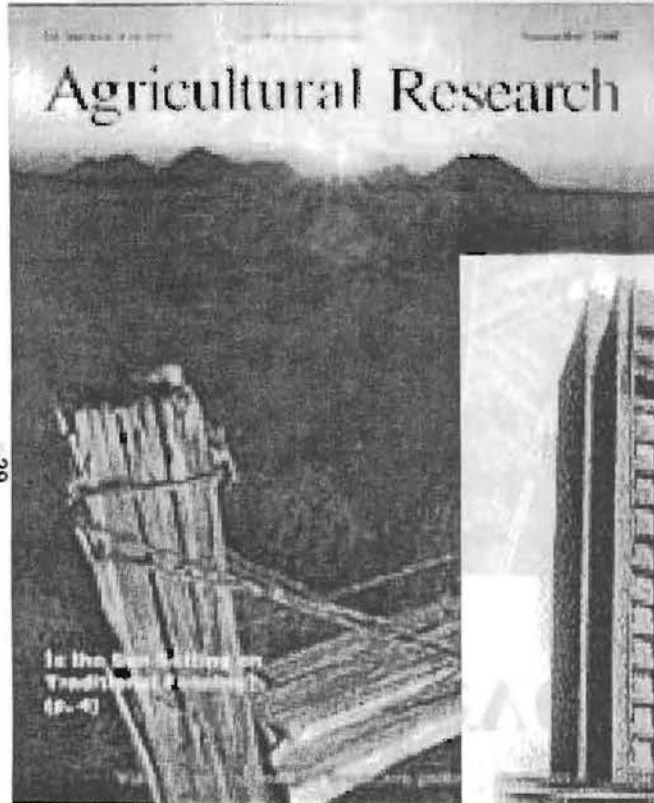
Office of Scientific Quality Review (OSQR) is Responsible For:

28



- Panel organization & composition
- Distribution of project plans
- Reviewer instruction and orientation
- The distribution of results in ARS
- Notifies panelists of the Agency response to recommendations
- Ad hoc or re-reviews of project plans

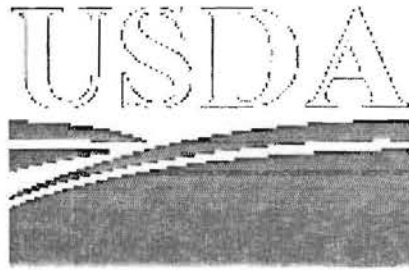
Information Dissemination and Technology Transfer



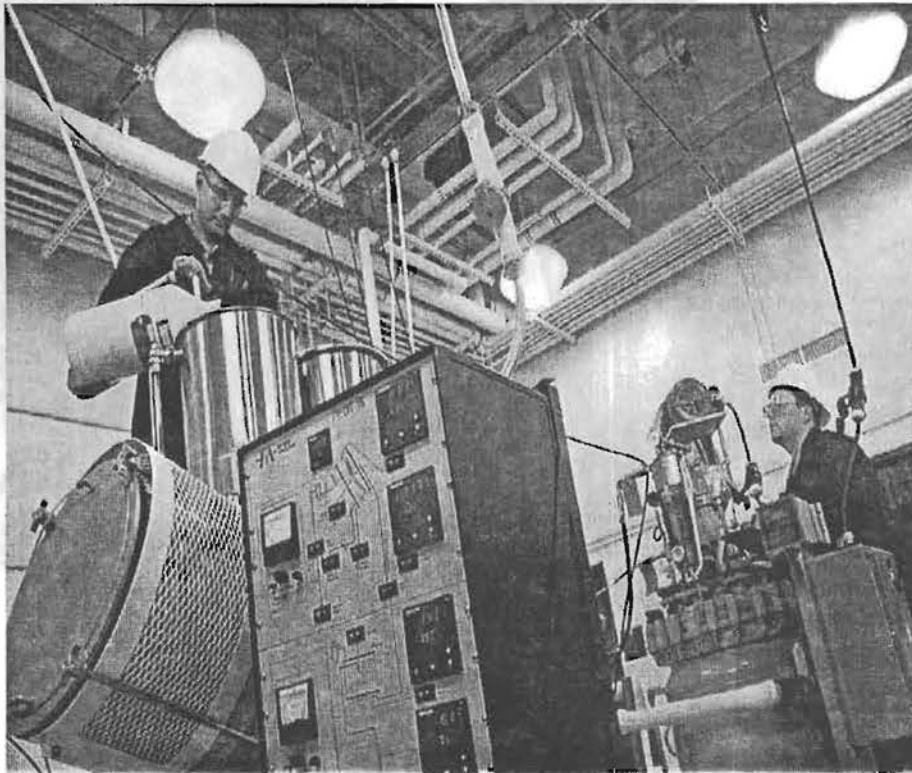
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- Scientific Publications
- Office of Technology Transfer
- National Agricultural Library
- Information Staff

www.ars.usda.gov



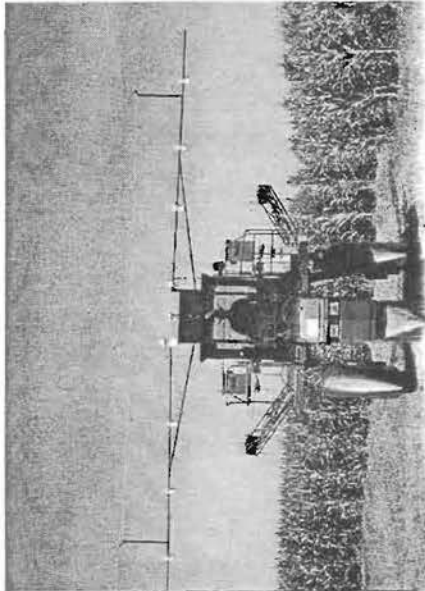
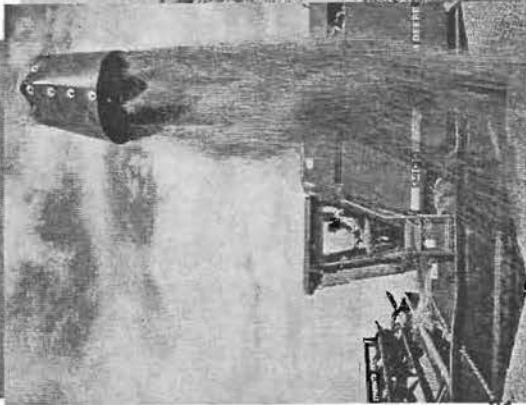
Cooperative Research and Development Agreements



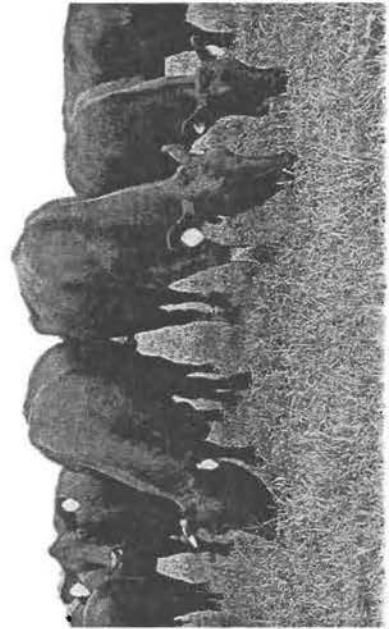
- 300 active agreements
- Additional operating funds for ARS
- Projects reviewed for benefits to pub



USDA



Leading America towards a better future through agricultural research and information.



OPIS