

ARS Overview, Budget Projections, Research Priorities, National Program Cycle

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Outline

- Overview of ARS
- Overview of National Programs
- The National Program Cycle
- Budget
- 2008 Farm Bill

USDA

Secretary

Natural Resources & Environment

Farm and Foreign Ag Service

Rural Development

Food, Nutrition & Consumer Services

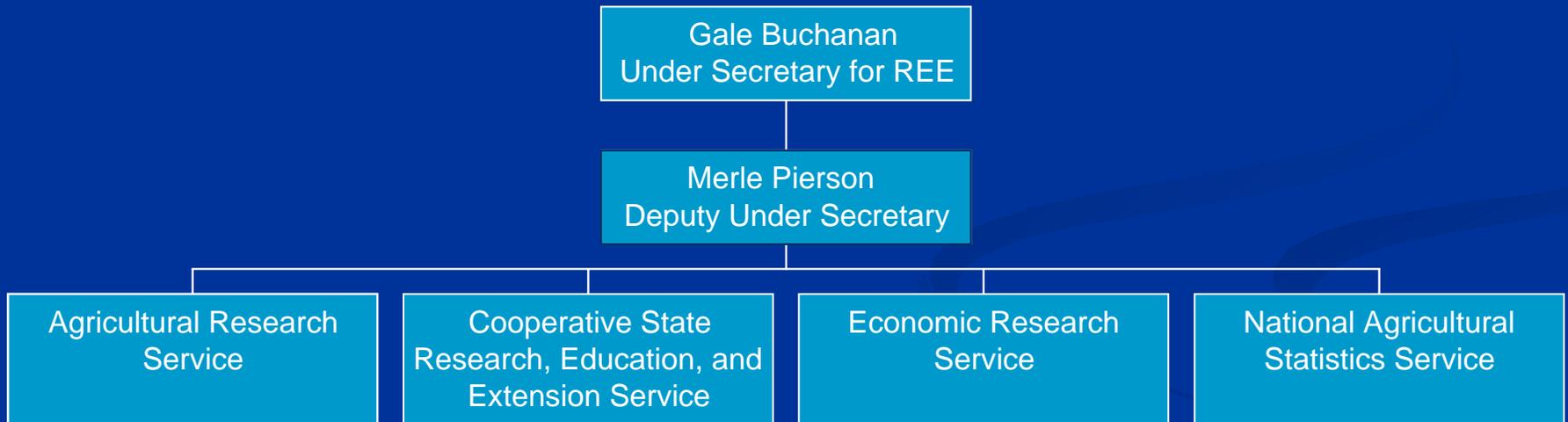
Food Safety

Research, Education & Economics

Marketing and Regulatory Programs

*Mission
Areas*

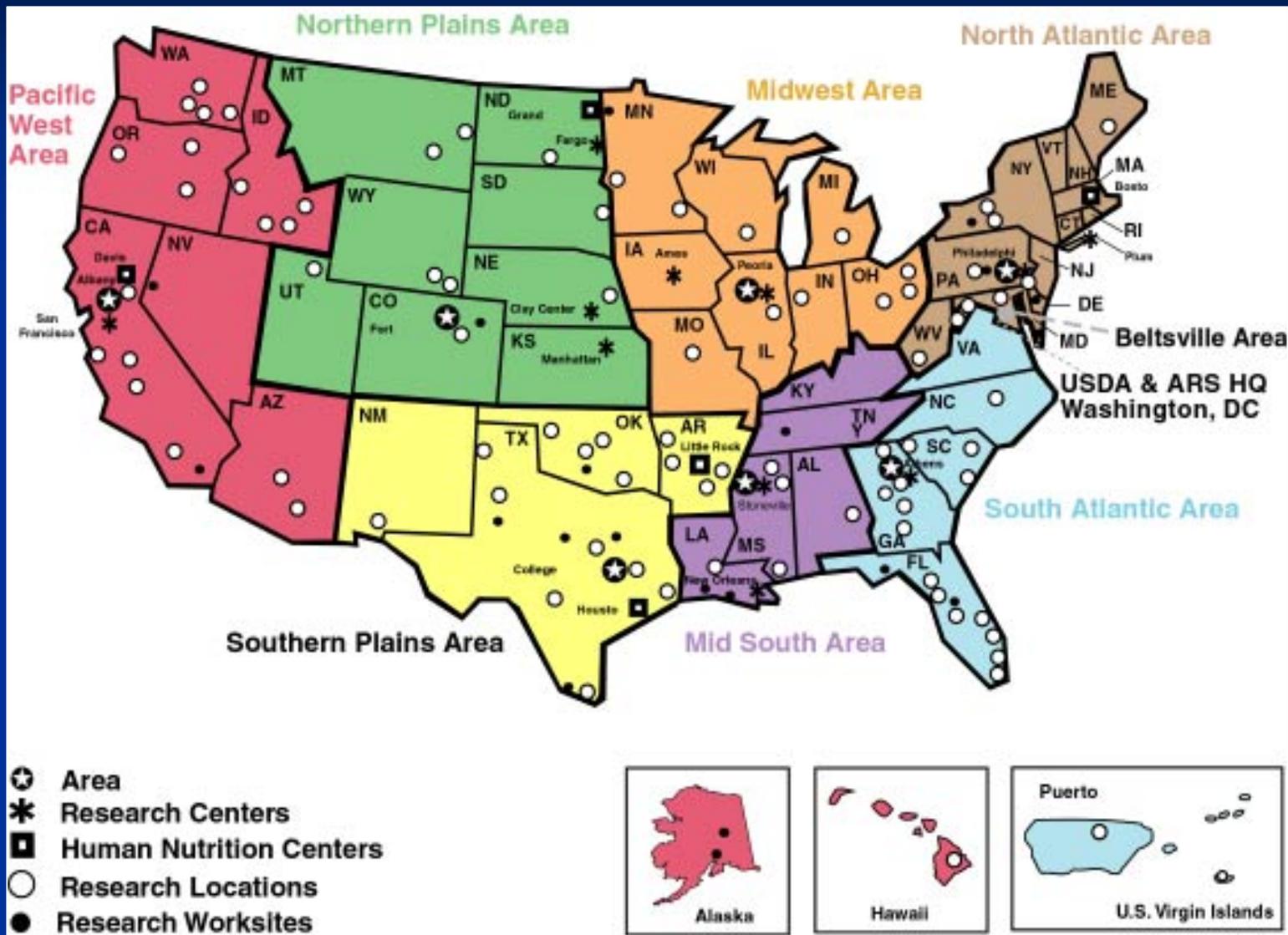
Research, Education, and Economics



Profile of ARS

- Intramural Research
- Farm-to-table research scope
- 22 National programs
- 1,100+ research projects
- Information & technology transfer
- 8,000+ employees
- 2,200+ scientists
- 100+ laboratory locations
- \$1.2 billion annual budget
- Partnerships with universities and industry

ARS Laboratory Locations



ARS is a Mission-Driven Organization

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
- Sustain a competitive agricultural economy
- Enhance the natural resource base and the environment
- Provide economic opportunities to rural citizens and society as a whole

How Do We Meet Our Mission?

Through National Programs!

A National Program is a set of research projects directed toward common goals to solve agricultural problems of high National priority.

National Programs are outcome driven, e.g., a safer food supply.

ARS National Programs

Animal Production & Protection

Food Animal Production

Animal Health

Veterinary, Medical & Urban Entomology

Aquaculture

Natural Resources & Sustainable Ag Systems

Soil Resource Management

Air Quality

Global Change

Rangeland, Pasture & Forages

Water Availability & Watershed Management

Agricultural System Competitiveness & Sustainability

Manure & Byproduct Utilization

Bioenergy & Energy Alternatives

Crop Production & Protection

Plant Genetic Resources, Genomics & Genetic Improvement

Plant Biological & Molecular Processes

Plant Diseases

Crop Protection & Quarantine

Crop Production

Methyl Bromide Alternatives

Nutrition, Food Safety & Quality

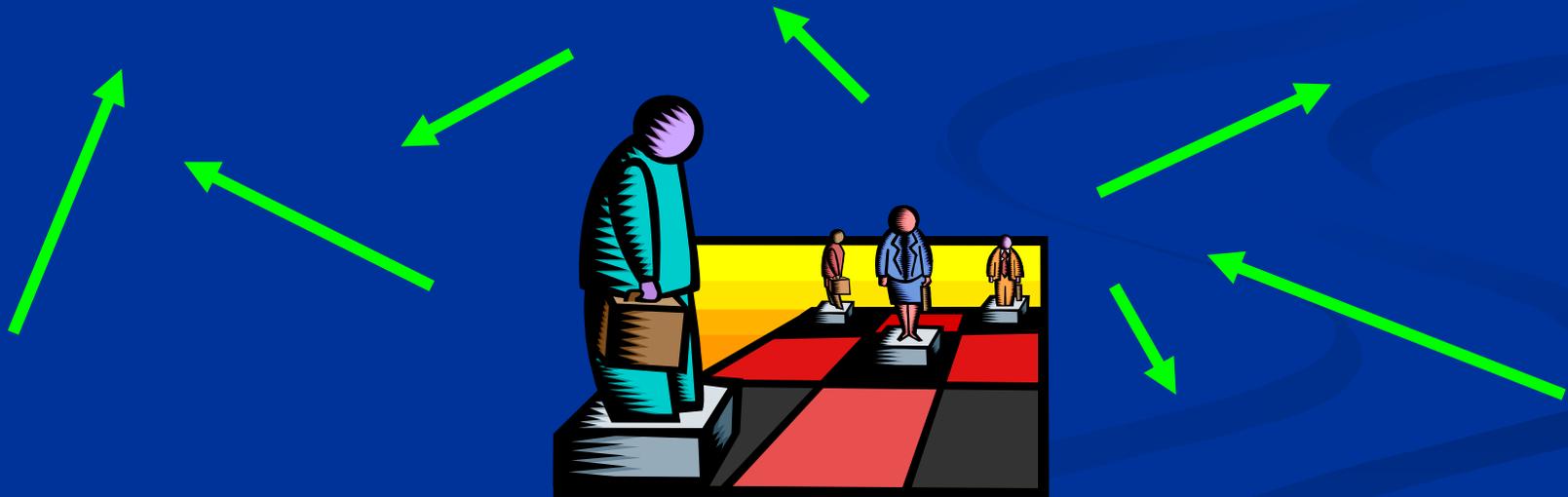
Human Nutrition

Food Safety (animal & plant products)

Quality & Utilization of Agricultural Products

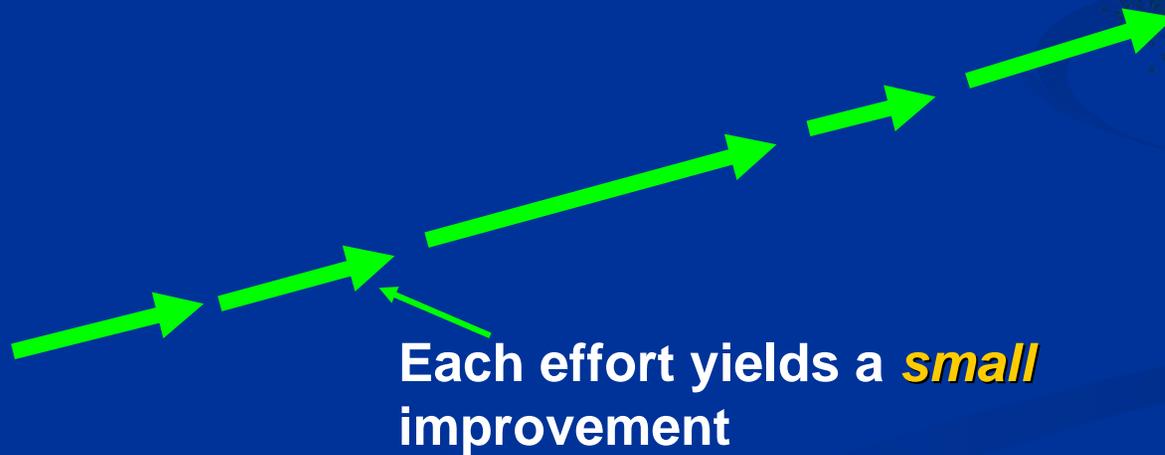
National Program Rationale

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



National Program Rationale

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



Combined effort yields *significant* improvement

OMB Research & Development Investment Criteria

ARS National Program Cycle



OMB Research & Development Investment Criteria

ARS National Program Cycle



Relevance

- Each National Program conducts a national planning workshop
 - Stakeholder input
- Develops action plan
 - 5 year plan
 - Plans now follow specified format
 - Defines program objectives and directions
 - Set the outcomes for the retrospective reviews

OMB Research & Development Investment Criteria

ARS National Program Cycle



OMB Research & Development Investment Criteria

ARS National Program Cycle



OMB Research & Development Investment Criteria

ARS National Program Cycle



Quality

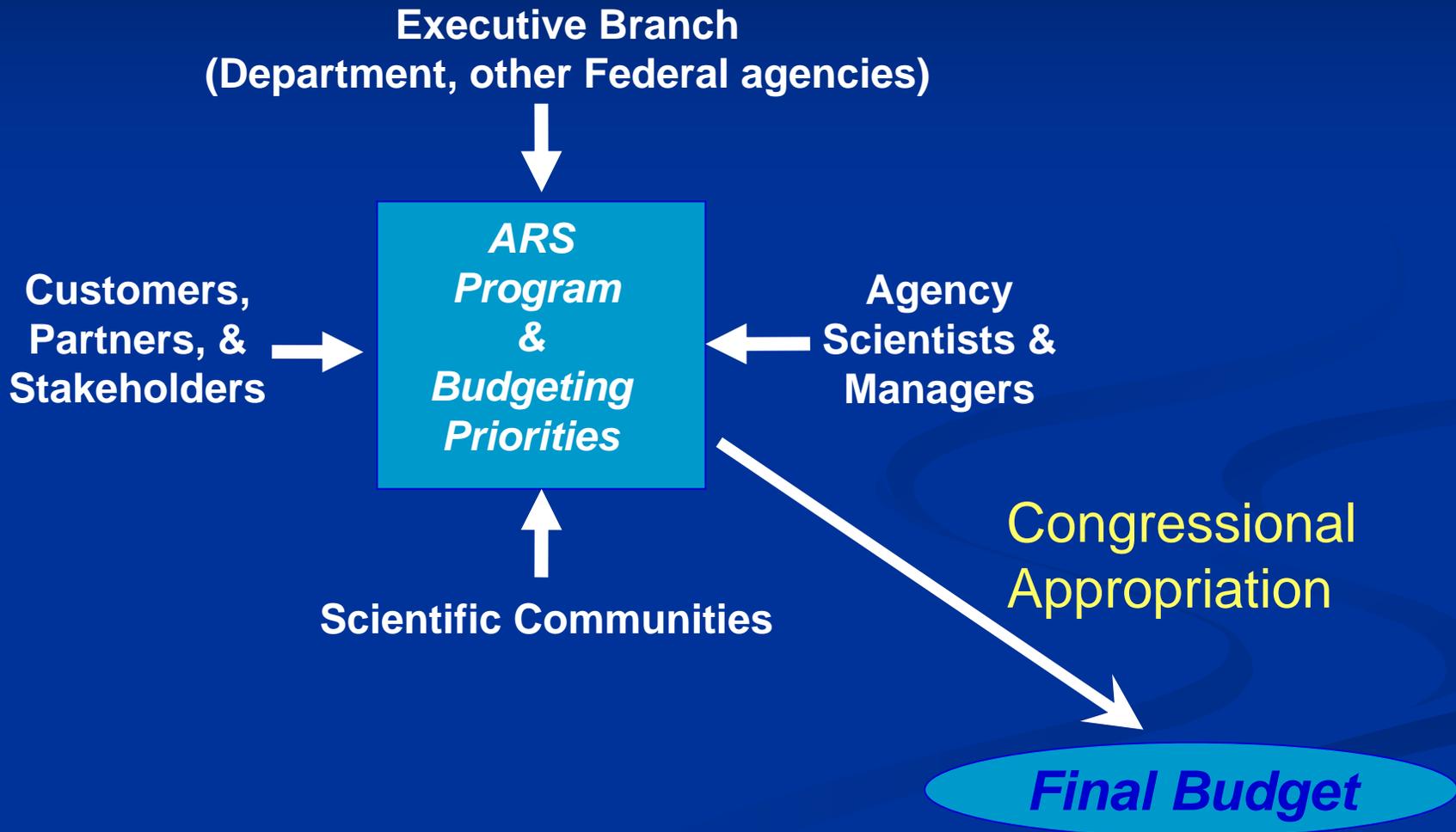
(retrospective)

- External panels of scientific experts and stakeholders
- Did the program component achieve the goals of the action plan?
- Was the program relevant?
- Was the work of high quality?
- Program evaluation; *not* project evaluation

Matrix Management

- National Program Staff
 - Overall program coordination
 - Sets program direction and objectives
- Area Offices
 - Ensures excellence of the program as defined by NPS
 - Handles day to day issues
- Both must work together!

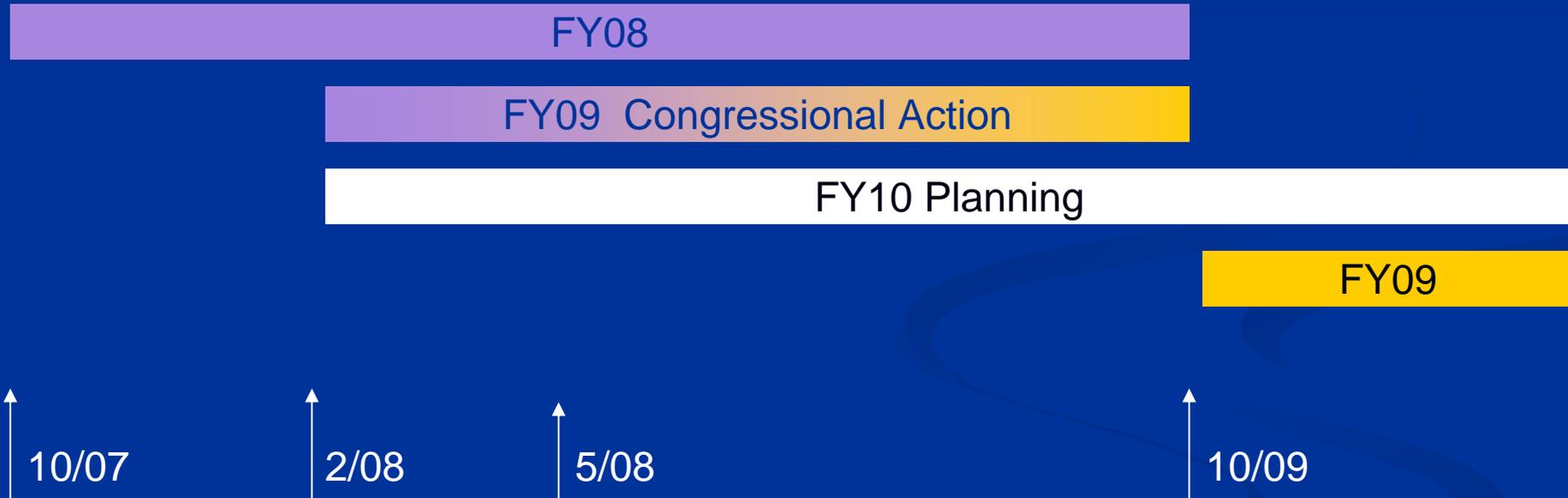
ARS Budget



Budget Initiatives

- Emerging Diseases
 - SBR, wheat rust, BSE, AI, FMD, Colony Collapse Disorder
- Bioenergy & Biobased Products
- Obesity prevention
- Genomics
- Specialty Crops
- Drought mitigation
- Climate change
- Air and Water quality
- Homeland security
 - Food safety, NPDRS

Budget Cycle



Food, Conservation, and Energy Act of 2008

- Specialty Crops
 - \$100M over five years
 - Breeding, genetics, genomics and production techniques
- Agricultural Bioenergy and Biobased Products Research Initiative
 - \$250M over five years
 - Fundamental research about production of renewal fuels and biobased products
- Organic Farming Research
 - \$180M over five years
- Colony Collapse Disorder
 - \$14M over five years

Farm Bill (cont)

- National Institute of Food and Agriculture
 - Agriculture and Food Research Initiative
 - Plant health and production and plant products
 - Animal health and production and animal products
 - Food safety, nutrition, and health
 - Renewable energy, natural resources, and environment
 - Agriculture systems and technology
 - Agriculture, economics, and rural communities