



National Program 305 Crop Production Where Are We Going?



NP 305

- Where We Have Been
- Where Are We Going?

NP 305

- What research belongs here that isn't in other National Research Programs?
 - Research conducted to address crop production issues
 - Integrate information from other NPs
 - Research conducted to address gaps not covered in other NPs
 - Research should complement, not duplicate other NPs

ARS National Programs

Natural Resources

Water Quality & Management (201)

Soil Resource Management (202)

Air Quality (203)

Global Change (204)

Rangeland, Pasture & Forages (205)

Manure & Byproduct Utilization (206)

Integrated Agricultural Systems (207)

Bioenergy & Energy Alternatives (307)

Crop Production

Genetic Resources, Genomics and Genetic Improvement (301)

Plant Biological & Molecular Processes (302)

Plant Diseases (303)

Crop Protection & Quarantine (304)

Crop Production (305)

Methyl Bromide Alternatives (308)

Human Nutrition

Human Nutrition (107)

Food Safety (Animal & Plant Products) (108)

Quality and Utilization of Agricultural Products (306)

Characteristics of NP 305

- Focus on Crop Production Problems from the Perspective of Growers
- Integrated
- Collaborations with Researchers and Partnerships with Producers are Critical

Structure of NP 305

- Last 5 years
 - 3 Components
 - Crop Production
 - Engineering
 - Bees
- Next 5 years
 - ?????

Breakouts

- Annual Crop Production Systems
- Perennial Crop Production Systems
- Greenhouse & Containerized Production Systems

Breakouts

- Each has both Production and Engineering/ Automation Issues
- Each Production System Type has Different Challenges
- Each could be divided into smaller categories
- Some Issues are common across all Production Systems

Breakout Sessions

- Session 1
 - Identify High Priority Problems
 - Identify Potential Benefits & Impacts from Solving these Problems
- Session 2
 - Identify the appropriate Research Areas to address the High Priority Problems
 - Identify the Products and Tools that would result from these Research Areas

Breakout Sessions

- Session 3
 - Identify Specific Research Actions
 - Identify Collaborations with ARS, University, and Private Sector Researchers
 - Identify Partnerships with Producers
- Thursday - Session 4 – ARS Scientists
 - Begin Development of Action Plan using all the Input received from Breakout Sessions 1, 2, and 3.

Caveat

- We can't do Everything!
 - Some needs will be identified that we do not have the expertise and/or resources to address
 - These will be kept for future consideration or referred to other National Programs or Research Collaborators

Dream Big!

- Envision the Ideal Production System
- What Research is Needed to move toward that Ideal?
- How can NP 305 research build on new knowledge generated by other National Programs?
- What collaborations and partnerships are critical to successful completion of the proposed research?

Go Forth and Brainstorm!

And Thank You, Very, Very Much!



Thank you!

