

The National Plant Disease Recovery System (NPDRS)

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USDA Office of Pest Management
Policy

HSPD-9

Homeland Security Presidential Directive
Number 9

The Defense of U. S. Agriculture and Food

Paragraph 18-B

- USDA Secretary in coordination with:
 - DHS, HHS, and EPA
- Working with:
 - State and Local Governments
 - Private Sector

Paragraph 18-B

- NPDRS capable of responding to high consequence plant diseases with:
 - Pest control measures
 - Resistant seed varieties
 - Within a single growing season
 - Sustain a reasonable level of production

Paragraph 18-B

- The NPDRS will use
 - Genetic resources of the National Plant Germplasm System
 - Scientific capabilities of Federal, State, and Industry research and extension
 - Emergency planning for the use of resistant seed varieties and pesticides
- Examples-Soybean Rust & “Wheat Smut” (AKA the Wheat Rusts)

What is a “SYSTEM”

- Infrastructure
- Communication among the Components
- Planning
- Disease Management Tools
- Detection and Monitoring
- Resistant Germplasm
- Research Priorities

In Other Words

- The right people on the same page at the right time.
- Bringing the best possible science to bear on the problem.

Soybean Rust—Infrastructure and Actors

- APHIS response and leadership through the Incident Command System
- Land-grant universities and State Ag. Depts.
 - NPDN
 - Section 18 emergency exemptions
 - Sentinel plots and scouting
 - Extension outreach
 - IPM Centers
- Grower organizations--ASA & USB

Soybean Rust—Infrastructure and Actors

- USDA Agencies
 - ARS, CSREES, ERS, RMA, FSA, FAS
- Crop Consultants
- CropLife and Member Companies
- EPA
- American Seed Trade Association

Continuing to build the “system”

- Work groups underway for all of the Select Agents plus the wheat rusts
- Product of the Work Groups-Recovery Plans
 - Existing Infrastructure
 - Status of disease management
 - Status of detection and monitoring
 - Status of resistant germplasm
 - Pesticide registration needs
 - Infrastructure needs
 - Research needs

Status of Work Groups

- Citrus Greening—final draft
- Wheat Rusts—final draft
- Corn Downy Mildews—draft
- Citrus Varigated Chlorosis—will follow Greening
- Plum Pox—underway
- Ralstonia—underway
- Rice Bacterial Leaf Streak—”soon”
- Potato Wart—underway

Infrastructure & Support

- Grants to Work Groups
 - Michigan State, Penn State, Florida
- Co-op Agreement with the APS
- Co-op Agreement with CropLife Foundation
- Experts from States, ARS, APHIS, and Land-grants

Where do we go from here

- Complete plans for remaining “Select Agents”
- Peer review of plans
- Monitor international pest outbreaks and movements (APHIS OPIS, and other sources)
- Identify next priorities
- Monitor pesticide and germplasm development
- Maintain the Infrastructure and Communications