National Plant Diagnostic Network (NPDN)

Neil McRoberts, UC Davis
Jim Stack, Kansas State University

History of policy support for plant diagnostic activity

CSREES
EDUCATION
USDA
RESEARCH • EXTENSION

1994-2009

USDA

United States Department of Agriculture
National Institute of Food and Agriculture

NPDN
NATIONAL PLANT DIAGNOSTIC NETWORK

2002

Formed under the 1994 Department Reorganization Act (1994). Broad portfolio to direct and support programs broadly aligned with Land Grant research, extension and education mission.

Homeland Security Presidential Directive/HSPD–9—Defense of United States Agriculture and Food
January 30, 2004

Subject: Defense of United States Agriculture and Food

Purpose

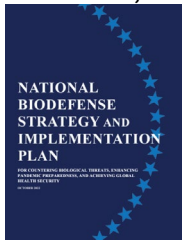
(1) This directive establishes a national policy to defend the agriculture and food system against terrorist attacks, major disasters, and other emergencies.

land Security; independent establishments as defined by 5 U.S.C. 104(1); Government corporations as defined by 5 U.S.C. 103(1); and the United States Postal Service.

(d) The terms "State," and "local government," when used in a geographical sense, have the same meanings given

Created by the Food, Conservation and Energy Act, 2008

Food & Agriculture Defense Initiative (FADI): $7-8M annually, *discretionary appropriation* under the Research Title of the Farm Bill. Provides $3M for NPDN, $3.6M for



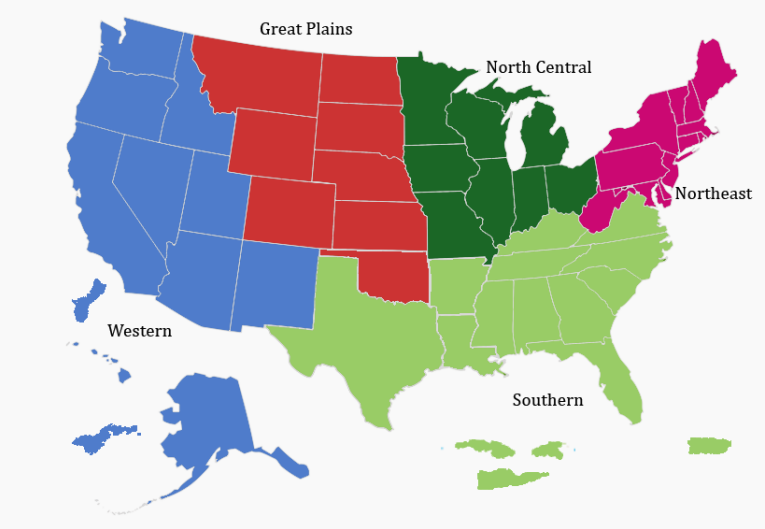

OCTOBER 18, 2022

National Security Memorandum on Countering Biological Threats, Enhancing Pandemic Preparedness, and Achieving Global Health Security

BRIEFING ROOM › PRESIDENTIAL ACTIONS

NATIONAL SECURITY MEMORANDUM/NSM-15

NPDN in 2023 (visit npdn.org for more information)



Goals

Quality diagnostics - Provide high quality diagnostics to support plant health communities through constant improvement and quality assurance.

Professional Development - Provide training opportunities and experiential learning that accelerate the learning curve and enhance diagnostic capabilities of current and future diagnosticians.

Communication - Ensure effective and timely communications and productive collaborations with regulatory partners, diagnostic labs, and the plant health communities. Curate and communicate quality diagnostic information that benefits plant health.

Five regions

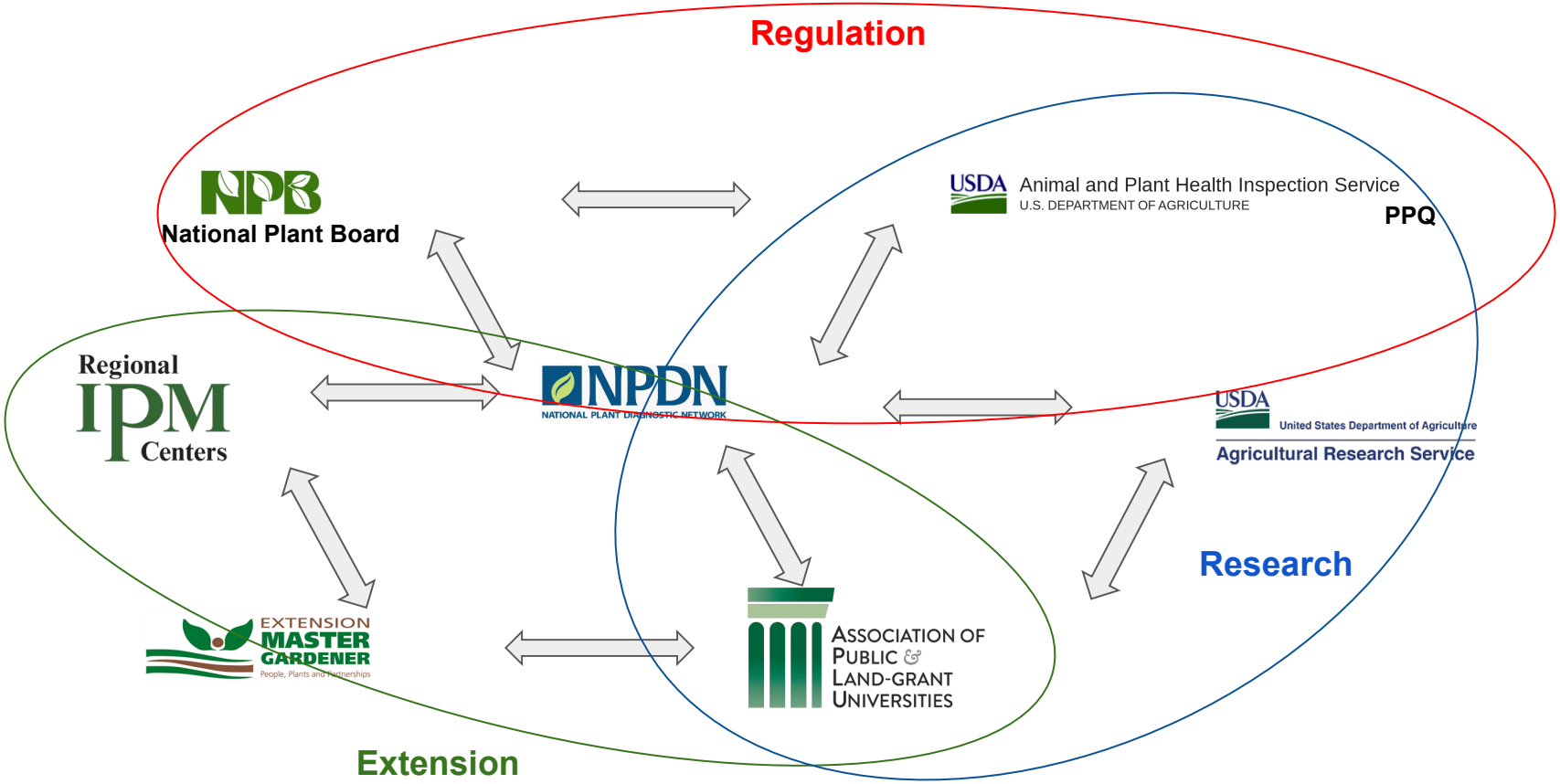
70+ diagnostic laboratories
Every US State, plus several territories has one, or more, NPDN lab

~200 Active individual members

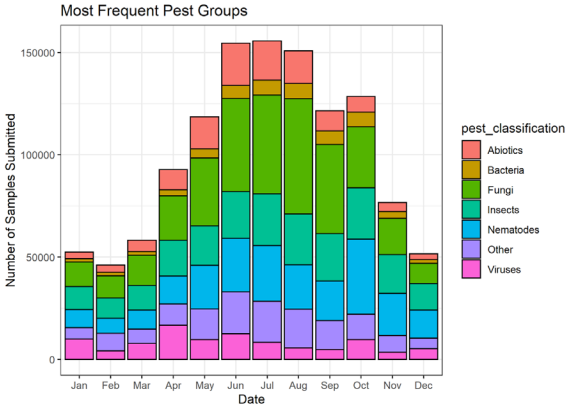
Regional Centers hold competitively awarded cooperative agreements with USDA-NIFA:

NEPDN: University of Maine
NCPDN: Michigan State University
SPDN: University of Florida
GPDN: Kansas State University
WPDN: University of California, Davis
National Data Repository: Purdue University, IN

NPDN: activities and collaborations

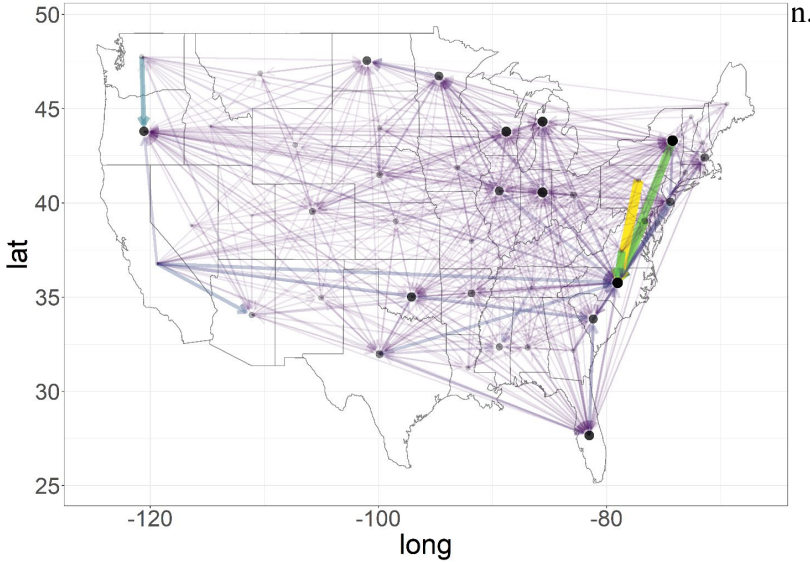


The network does network things



Summary of the number of samples of major (>5%) pest classes submitted and processed by NPDN labs between 2010-2019, grouped by month

Between January 1st, 2010 and December 31st, 2019, approximately 1.73 million records of samples processed by NPDN. 12.5% of all samples moved between states n.



In spite of having no capacity for active surveillance, NPDN has received samples from >90% of counties in continental USA