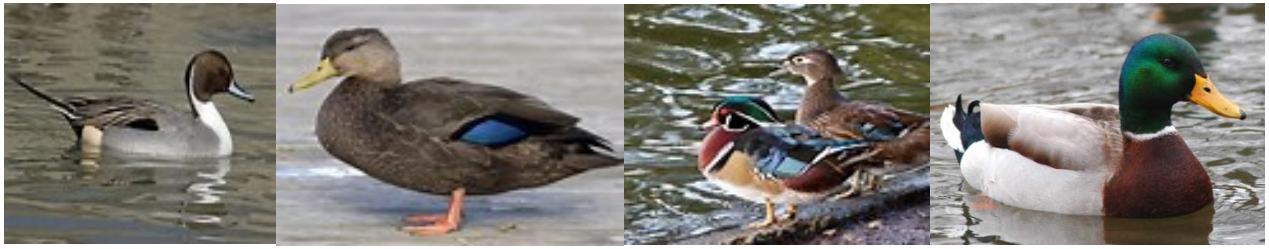
Wild Bird Surveillance

Avian Influenza



Robin Dyer

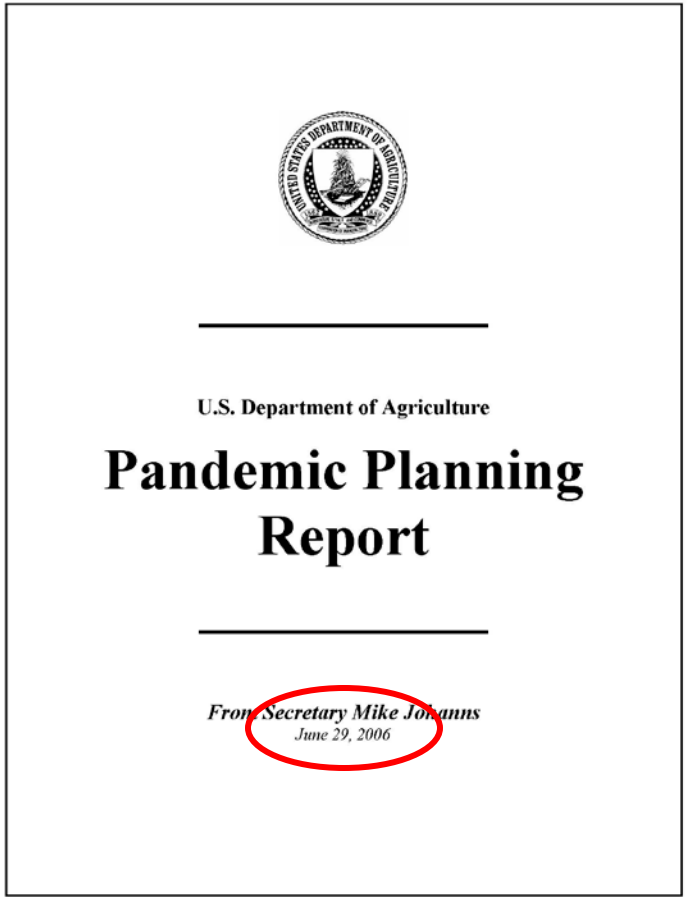
State Director

WS Wildlife Services

Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

Wild Bird Surveillance


U.S. Department of Agriculture

Pandemic Planning Report

From Secretary Mike Johanns
June 29, 2006

WS Wildlife Services

Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

2006 – 2009 Wild Bird Surveillance

- Live Bird
- Hunter Harvest
- Morbidity/Mortality
- Sentinel
- Environmental

Target Species
Waterfowl
• Ducks
• Geese
Shorebirds

2006 – 2009 Wild Bird Surveillance

- **Live Bird**
- Hunter Harvest
- Morbidity/Mortality
- Sentinel
- Environmental

WS Wildlife Services

Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

2006 – 2009 Wild Bird Surveillance

- Live Bird
- **Hunter Harvest**
- Morbidity/Mortality
- Sentinel
- Environmental

2006 – 2009 Wild Bird Surveillance

- Live Bird
- Hunter Harvest
- **Morbidity/Mortality**
- Sentinel
- Environmental

2006 – 2009 Wild Bird Surveillance

- Live Bird
- Hunter Harvest
- Morbidity/Mortality
- **Sentinel**
- Environmental

2006 – 2009 Wild Bird Surveillance

- Live Bird
- Hunter Harvest
- Morbidity/Mortality
- Sentinel
- **Environmental**

Wildlife Services

Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

2015 Wild Bird Surveillance

- **Live Bird**
- **Hunter Harvest**
- **Morbidity/Mortality**
- ~~Sentinel~~
- ~~Environmental~~

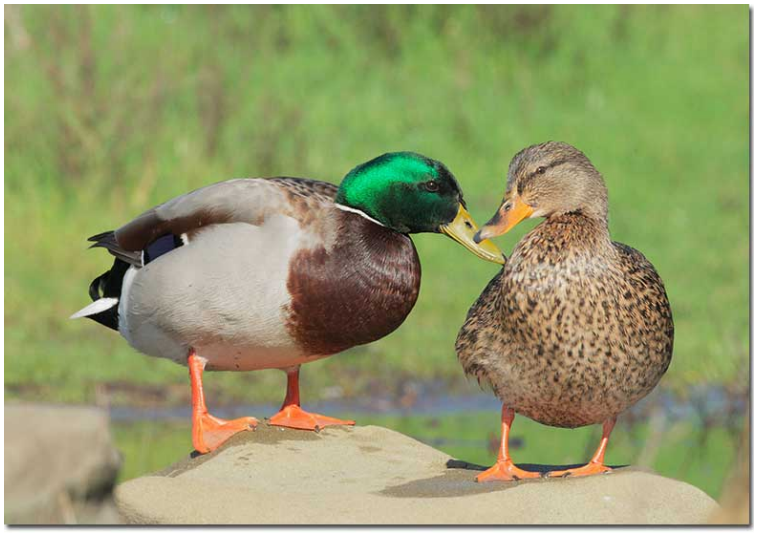
Wildlife Services

Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

Target Species

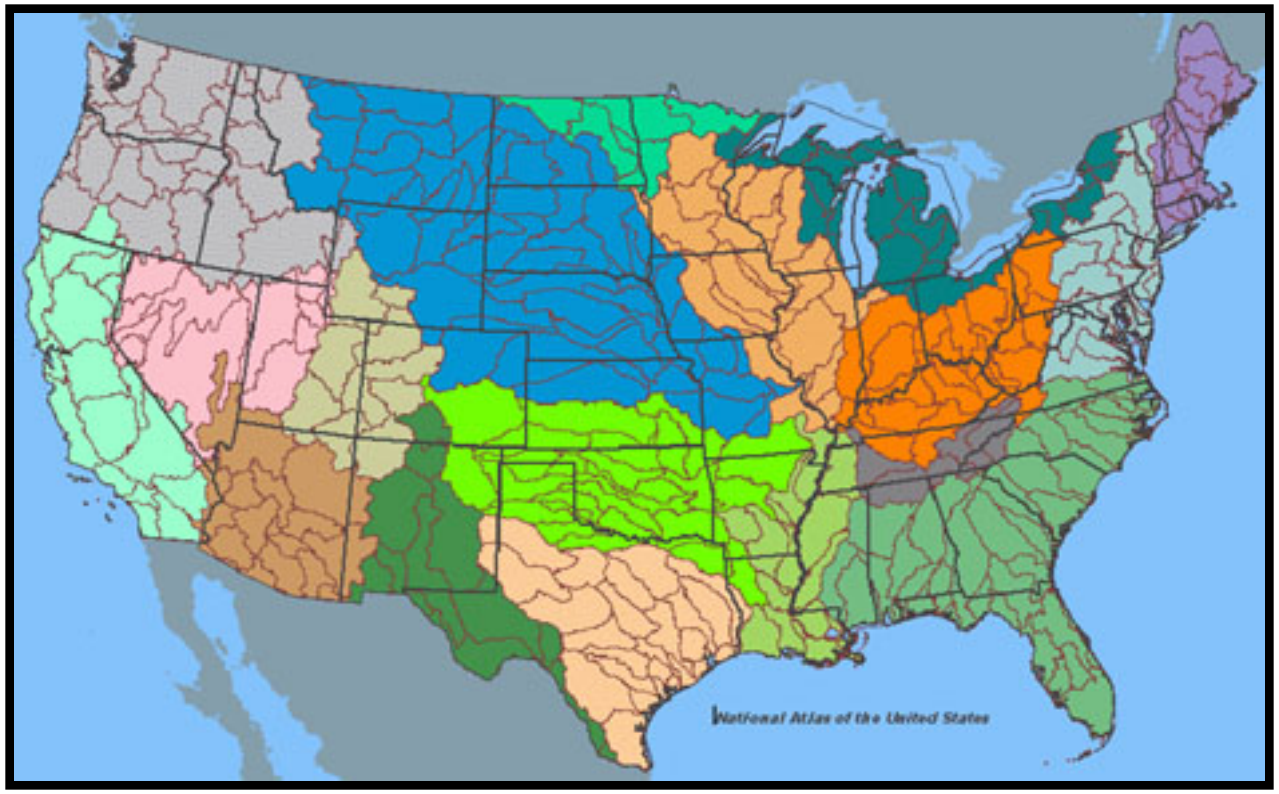
Dabbling Ducks	
*Mallard	*American Green-winged Teal
Northern Pintail	*American Black Duck
*Wood Duck	*Blue-winged Teal
Cinnamon Teal	Northern Shoveler
Gadwall	American Wigeon
Mottled Duck	Fulvous Whistling Duck



2015 Sampling Size Determinations

- Population estimates of dabbling ducks at the watershed scale
  - Banding data
  - Annual estimated dabbler population
  - Breeding bird survey data
- Watershed selection partially based on lessons learned during the last AI wild bird sampling effort
  - Influenza clusters
  - High intra- and inter-flyway mixing of dabbling ducks
  - Temperature constraints and virus survival

2015 Surveillance Focus
Sub-Regional Watersheds



WS Wildlife Services

Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

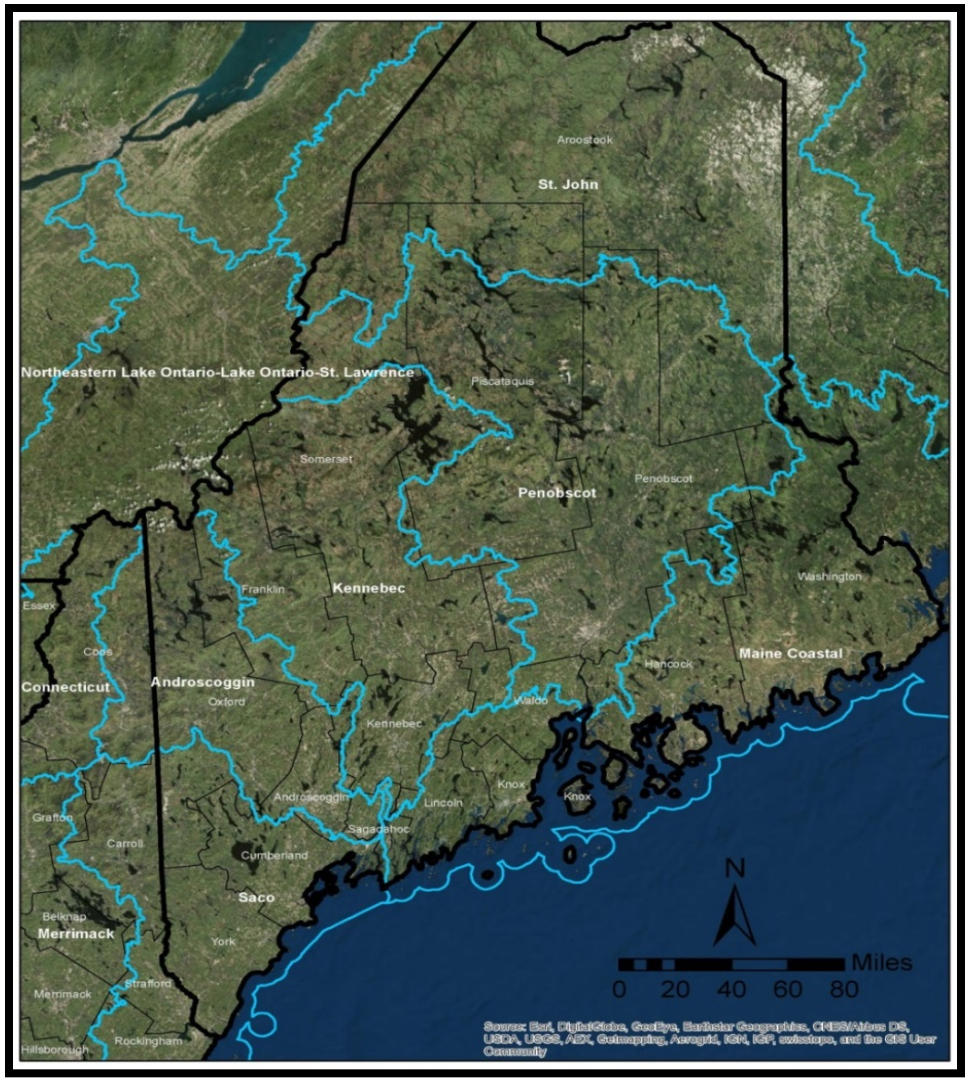
Maine Watersheds

Six Watersheds

- St. John
- Penobscot
- Kennebec
- Maine Coastal
- Androscoggin
- Saco

Collection Periods

- Summer breeding season
  - **May1 –August 31**
- Fall Migratory Season
  - **September 1 – December 30**
- Over-wintering Season
  - **January 1 – February 29**



Wildlife Services

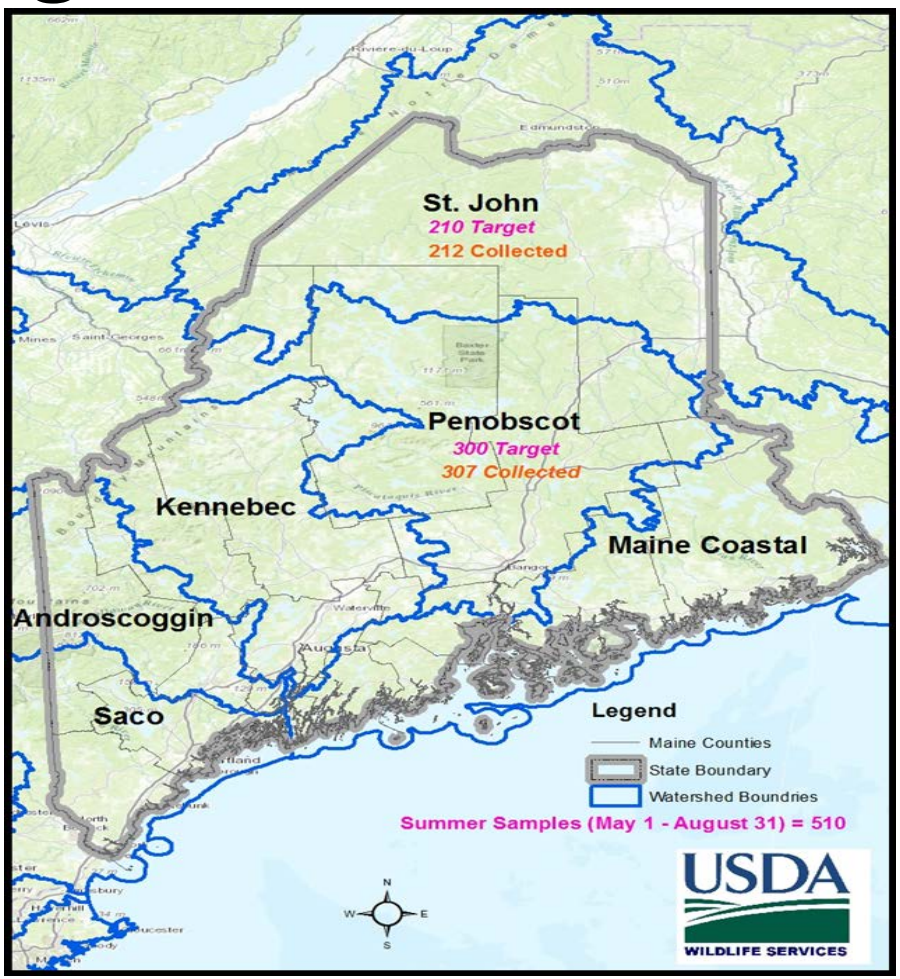
Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

2015 Summer Sampling

- **Live Bird**
- Hunter Harvest
- Morbidity/Mortality

	Collected	Target #
St. John	212	210
Penobscot	307	300



Wildlife Services

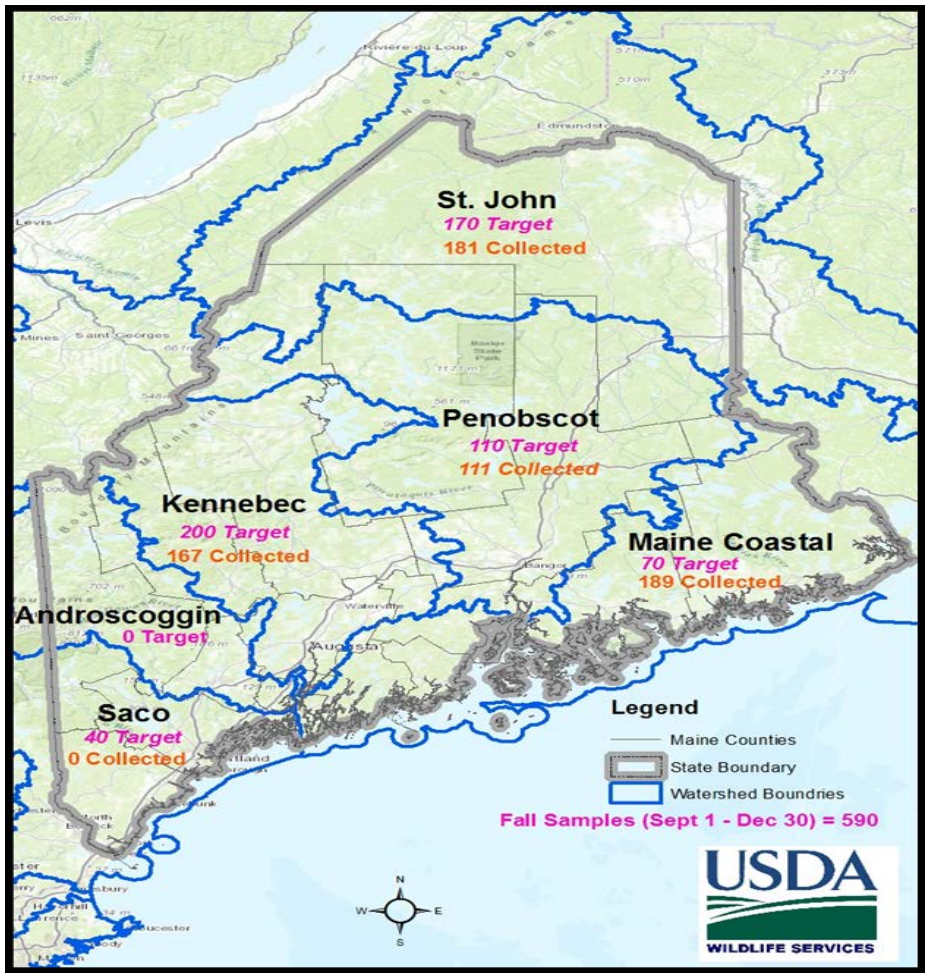
Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

2015 Fall Sampling

- **Live Bird**
- **Hunter Harvest**
- Morbidity/Mortality

	Collected	Target #
St. John	181	170
Penobscot	111	110
Maine Coastal	189	70
Kennebec	167	200
Saco	0	40



Wildlife Services

Protecting People | Protecting Agriculture | Protecting Wildlife

USDA APHIS

ENTITY COLLABORATION