Wild Bird Surveillance
Avian Influenza

Robin Dyer
State Director
Wild Bird Surveillance

U.S. Department of Agriculture

Pandemic Planning Report

From: Secretary Mike Johanns
June 29, 2006
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
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
2015 Wild Bird Surveillance

- Live Bird
- Hunter Harvest
- Morbidity/Mortality
- Sentinel
- Environmental
## Target Species

### Dabbling Ducks

<table>
<thead>
<tr>
<th>Species</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Mallard</td>
<td>*American Green-winged Teal</td>
</tr>
<tr>
<td>Northern Pintail</td>
<td>*American Black Duck</td>
</tr>
<tr>
<td>*Wood Duck</td>
<td>*Blue-winged Teal</td>
</tr>
<tr>
<td>Cinnamon Teal</td>
<td>Northern Shoveler</td>
</tr>
<tr>
<td>Gadwall</td>
<td>American Wigeon</td>
</tr>
<tr>
<td>Mottled Duck</td>
<td>Fulvous Whistling Duck</td>
</tr>
</tbody>
</table>
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
Maine Watersheds

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

Collection Periods
- Summer breeding season
  - May 1 – August 31
- Fall Migratory Season
  - September 1 – December 30
- Over-wintering Season
  - January 1 – February 29
2015 Summer Sampling

- Live Bird
- Hunter Harvest
- Morbidity/Mortality

<table>
<thead>
<tr>
<th></th>
<th>Collected</th>
<th>Target #</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. John</td>
<td>212</td>
<td>210</td>
</tr>
<tr>
<td>Penobscot</td>
<td>307</td>
<td>300</td>
</tr>
</tbody>
</table>
2015 Fall Sampling

- Live Bird
- Hunter Harvest
- Morbidity/Mortality

<table>
<thead>
<tr>
<th></th>
<th>Collected</th>
<th>Target #</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. John</td>
<td>181</td>
<td>170</td>
</tr>
<tr>
<td>Penobscot</td>
<td>111</td>
<td>110</td>
</tr>
<tr>
<td>Maine Coastal</td>
<td>189</td>
<td>70</td>
</tr>
<tr>
<td>Kennebec</td>
<td>167</td>
<td>200</td>
</tr>
<tr>
<td>Saco</td>
<td>0</td>
<td>40</td>
</tr>
</tbody>
</table>
ENTITY COLLABORATION