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
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2006 – 2009 Wild Bird Surveillance

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2006 – 2009 Wild Bird Surveillance

- Live Bird
- Hunter Harvest
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- Environmental
2015 Wild Bird Surveillance

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

### Dabbling Ducks

<table>
<thead>
<tr>
<th><em>Mallard</em></th>
<th><em>American Green-winged Teal</em></th>
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</thead>
<tbody>
<tr>
<td>Northern Pintail</td>
<td><em>American Black Duck</em></td>
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<tr>
<td><em>Wood Duck</em></td>
<td><em>Blue-winged Teal</em></td>
</tr>
<tr>
<td>Cinnamon Teal</td>
<td>Northern Shoveler</td>
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<tr>
<td>Gadwall</td>
<td>American Wigeon</td>
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<tr>
<td>Mottled Duck</td>
<td>Fulvous Whistling Duck</td>
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</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>
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<tbody>
<tr>
<td>St. John</td>
<td>212</td>
<td>210</td>
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<tr>
<td>Penobscot</td>
<td>307</td>
<td>300</td>
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2015 Fall Sampling

• Live Bird
• Hunter Harvest
• Morbidity/Mortality

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