

# Avian Influenza Sampling in Alaska: Shorebirds 2005–2007



Bob Gill, Lee Tibbitts, and Dan Ruthrauff

## Shorebird Priority Species—AIAIWG 2006

Pacific Golden-Plover

**Bar-tailed Godwit**

**Ruddy Turnstone**

Red Knot

Pectoral Sandpiper

**Sharp-tailed Sandpiper**

**Rock Sandpiper**

**Dunlin**

Buff-breasted Sandpiper

Long-billed Dowitcher



Sharp-tailed Sandpiper



# Sampling Locations



## Results: Cloacal and Pharyngeal Samples

Species	2005	2006	2007	Total
<i>BARG</i>		<b>14</b>	<b>1</b>	<b>15</b>
BLTU	3	1	3	7
BTCU		10	17	27
<i>DUNL</i>	<b>74</b>	<b>528</b>	<b>492</b>	<b>1094</b>
<i>LBDO</i>		<b>6</b>	<b>8</b>	<b>14</b>
<i>PAGP</i>		<b>1</b>	<b>3</b>	<b>4</b>
<i>PESA</i>		<b>12</b>		<b>12</b>
<i>REKN</i>		<b>18</b>	<b>4</b>	<b>22</b>
RNPH		5		5
<i>ROSA</i>	<b>23</b>	<b>166</b>	<b>262</b>	<b>451</b>
RUFF		1		1
<i>RUTU</i>		<b>1</b>	<b>3</b>	<b>4</b>
<i>SHAS</i>	<b>35</b>	<b>179</b>	<b>52</b>	<b>266</b>
WESA	6	38	4	48
WHIM		1	2	3
Total	141	981	851	1973

## Results: Fecal Samples (2006 only)

Species	Egegik	Tutakoke	Total
<b><i>BARG</i></b>	<b><i>88</i></b>	<b><i>91</i></b>	<b><i>179</i></b>
BBPL	113	2	115
<b><i>DUNL</i></b>	<b><i>100</i></b>	<b><i>116</i></b>	<b><i>216</i></b>
GLGU		1	1
LALO		1	1
<b><i>LBDO</i></b>		<b><i>1</i></b>	<b><i>1</i></b>
MEGU		5	5
<b><i>PAGP</i></b>	<b><i>29</i></b>		<b><i>29</i></b>
<b><i>REKN</i></b>	<b><i>58</i></b>	<b><i>47</i></b>	<b><i>105</i></b>
RNPH		3	3
<b><i>RUTU</i></b>		<b><i>1</i></b>	<b><i>1</i></b>
<b><i>SHAS</i></b>		<b><i>16</i></b>	<b><i>16</i></b>
Total	388	284	672



## Ancillary Data Collection

- >900 blood samples from 17 species total
- >750 feather samples from 13 species total
- >3,000 birds banded; > 50 recaptures / resights
- 52 PTTs deployed



## 2008 Objectives

- Continue sampling 'easy' species at previously successful sites (e.g., Sharp-tailed Sandpiper, Rock Sandpiper, Dunlin)
- Augment samples from under-represented species (e.g., Bar-tailed Godwit, Ruddy Turnstone)
- Collect samples to assess seasonal variation in AI prevalency (e.g., breeding vs. fall staging Bar-tailed Godwits)
- Collaborate with NWHC to conduct captive trials on Ruddy Turnstones
- Continue PTT deployment (e.g., N. Slope Bar-tailed Godwits)