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04/24/2006 05:20 PM

To

FW5 RW Refuge Biologists, FW5 RW Refuge Managers, FW3 RW Biologists, FW3 FO RW Project Leaders

cc

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Subject

Landbird monitoring survey results

In March 2006 the Biological Monitoring Team asked refuges and wetland management districts in Regions 3 and 5 to rank their objectives for monitoring landbirds. This information will help the User Acceptance Team finalize a suggested protocol and a set of sampling designs for landbirds. Attached is a summary of the results of the landbird survey.

Highlights:

1. Ninety-eight stations completed the survey (42 in R3 and 56 in R5).
2. Nearly 70% of stations collected landbird data sometime between the years 2003 to 2005.
3. Eighty-five percent of stations reported that their landbird monitoring protocol is meeting their needs.
4. Sixty-five percent of stations reported that they plan to collect landbird data over the next 3 years.
5. Station objectives for monitoring landbirds, in rank order, from high to low:
 - a. Baseline inventory (44% of stations identified this as their highest priority)
 - b. Evaluation of management actions, local scale
 - c. Detecting trends, local scale
 - d. Evaluation of management actions, ecoregion or regional scale
 - e. Detecting trends, regional scale
 - f. Testing assumptions underlying biological models
 - g. Detecting trends, national scale
6. The top four habitats associated with planned landbird surveys:
 - a. All forest types
 - b. Grasslands
 - c. Shrublands
 - d. Marsh
7. Fifty-six percent of stations would welcome some guidance regarding landbird monitoring and help with data management and analysis.

Thanks to all the stations that participated in the survey! This information will be used to develop protocols and sampling designs.

The National Bird Point Count Database just released a new version customized for use by National Wildlife Refuges and Wetland Management Districts. This easy-to-use web-based interface provides a central repository for your point count data.

<http://www.pwrc.usgs.gov/point/main/mainPage.cfm?formName=88#>

If you have questions about landbird monitoring or the database, please contact your Regional Refuge Biologists, Todd Sutherland, or Melinda Knutson.

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Survey Results (Included Responses)



Landbird Monitoring Survey, Region 3 and Region 5

Report created on: Thursday, April 20, 2006 9:49:00 AM

The results of your survey are displayed below. If your survey includes text responses, click the "View" button to read individual results. To exclude a particular response, click the Included Responses button. You can then view the set of individual responses that are currently included and select those you wish to exclude. Results below contain only Included responses

EXCLUDE BLANK RESPONSES

| | |
|---------------|----------------------|
| Launch Date | 02/23/2006 - 1:37 PM |
| Modified Date | |
| Close Date | 04/19/2006 - 1:05 PM |
| Email Invites | 0 |
| Visits | 166 |
| Partials | 41 |
| Completes | 103 |

Go to Individual Complete Responses:

Show respondent's emails.

INCLUDED RESPONSES →

EXCLUDED RESPONSES →

Included Respondents: 98

Excluded Respondents: 5

- [Cross Tabulate](#)
Cross reference multiple questions
- [Download Results](#)
Receive results in spreadsheet format

Responses: Completes only Partials only Completes & Partials

The Biological Monitoring Team is reviewing protocols for monitoring landbirds on refuges. We've convened a user acceptance team (UAT) with representatives from Regions 3, 4, and 5 to review and recommend a protocol. Before we proceed, we'd like to know the reasons refuges and wetland management districts inventory or monitor landbirds and if they plan to monitor landbirds in the future. Landbirds include 448 North American species mainly associated with terrestrial habitats that are the focus of the Partners in Flight Landbird Conservation Plan (http://www.partnersinflight.org/cont_plan/default.htm).

We are requesting one response per refuge or wetland management district. If your station is part of a refuge complex, please complete a survey for each refuge within the complex. Project leaders should assign the most appropriate staff to complete the survey. This survey will take less than 10 minutes to complete.

1. Enter your name.

[VIEW](#) 98 Responses

2. Identify your Region

| | Number of Responses | Response Ratio |
|--|---------------------|----------------|
| Region 3  | 42 | 43% |
| Region 5  | 56 | 57% |
| Total | 98 | 100% |

3. Choose your station name

| | Number of Responses | Response Ratio |
|---|---------------------|----------------|
| 32510-AGASSIZ NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 52562-AMAGANSETT NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53630-AROOSTOOK NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53513-ASSABET RIVER NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51510-BACK BAY NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33590-BIG MUDDY NATIONAL FISH AND WILDLIFE REFUGE | 1 | 1% |
| 31531-BIG OAKS NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32640-BIG STONE NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32641-BIG STONE WETLAND MANAGEMENT DISTRICT | 1 | 1% |
| 51531-BLACKWATER NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53541-BLOCK ISLAND NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51550-BOMBAY HOOK NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 51630-CANAAN VALLEY NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 52515-CAPE MAY NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53561-CARLTON POND WATERFOWL PRODUCTION AREA | 1 | 1% |
| 31541-CEDAR POINT NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33650-CHAUTAUQUA NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51570-CHINCOTEAGUE | | |

| | | |
|------------------------------|---|----|
| NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33643-CLARENCE CANNON | | |
| NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 52564-CONSCIENCE POINT | | |
| NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33610-CRAB ORCHARD | | |
| NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32555-CRANE MEADOWS | | |
| NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53535-CROSS ISLAND NATIONAL | | |
| WILDLIFE REFUGE | 1 | 1% |
| 32630-CYPRESS CREEK | | |
| NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 33510-DESOTO NATIONAL | | |
| WILDLIFE REFUGE | 1 | 1% |
| 32586-DETROIT LAKES | | |
| WETLAND MANAGEMENT | | |
| DISTRICT | 1 | 1% |
| 31521-DETROIT RIVER | | |
| INTERNATIONAL WILDLIFE | | |
| REFUGE | 1 | 1% |
| 32596-DRIFTLESS AREA | | |
| NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 51590-EASTERN NECK | | |
| NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51650-EASTERN SHORE OF | | |
| VIRGINIA NWR | 1 | 1% |
| 52510-EDWIN B. FORSYTHE | | |
| NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 52566-ELIZABETH ALEXANDRA | | |
| MORTON NWR | 1 | 1% |
| 33654-EMQUON NATIONAL | | |
| WILDLIFE REFUGE | 0 | 0% |
| 52520-ERIE NATIONAL WILDLIFE | | |
| REFUGE | 1 | 1% |
| 51612-FEATHERSTONE | | |
| NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 32585-FERGUS FALLS WETLAND | | |
| MANAGEMENT DISTRICT | 1 | 1% |
| 51651-FISHERMAN ISLAND | | |
| NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 32524-FOX RIVER NATIONAL | | |
| WILDLIFE REFUGE | 1 | 1% |
| 53536-FRANKLIN ISLAND | | |
| NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32580-GLACIAL RIDGE | | |
| NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32521-GRAVEL ISLAND | | |
| NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 53570-GREAT BAY NATIONAL | | |
| WILDLIFE REFUGE | 0 | 0% |

| | | |
|--|---|----|
| 51580-GREAT DISMAL SWAMP NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 53511-GREAT MEADOWS NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33640-GREAT RIVER NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 52530-GREAT SWAMP NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32522-GREEN BAY NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32600-HAMDEN SLOUGH NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 31512-HARBOR ISLAND NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 32520-HORICON NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 31511-HURON NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 33581-IOWA WETLAND MANAGEMENT DISTRICT | 1 | 1% |
| 52540-IROQUOIS NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51621-JAMES RIVER NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53547-JOHN H. CHAFEE NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53571-JOHN HAY NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 52570-JOHN HEINZ NWR AT TINICUM | 0 | 0% |
| 31513-KIRTLANDS WARBLER WILDLIFE MANAGEMENT AREA | 0 | 0% |
| 53580-LAKE UMBAGOG NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32525-LEOPOLD WETLAND MANAGEMENT DISTRICT | 0 | 0% |
| 32588-LITCHFIELD WETLAND MANAGEMENT DISTRICT | 1 | 1% |
| 51540-MARTIN NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53518-MASHPEE NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51610-MASON NECK NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 53517-MASSASOIT NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33652-MEREDOSIA NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 31522-MICHIGAN ISLANDS NATIONAL WILDLIFE REFUGE | 0 | 0% |

| | | |
|--|---|----|
| 31731-MICHIGAN WETLAND MANAGEMENT DISTRICT | 0 | 0% |
| 33660-MIDDLE MISSISSIPPI RIVER NWR | 0 | 0% |
| 32541-MILLE LACS NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33540-MINGO NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32590-MINNESOTA VALLEY NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 32591-MINNESOTA VALLEY WETLAND MANAGEMENT DIST | 0 | 0% |
| 53520-MISSISQUOI NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 53514-MONOMOY NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 52550-MONTEZUMA NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 53530-MOOSEHORN NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32581-MORRIS WETLAND MANAGEMENT DISTRICT | 1 | 1% |
| 31530-MUSCATATUCK NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51581-NANSEMOND NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53515-NANTUCKET NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33670-NEAL SMITH NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 32530-NECEDAH NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53542-NINIGRET NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53516-NOMANS LAND ISLAND NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32645-NORTHERN TALLGRASS PRAIRIE NWR | 0 | 0% |
| 51611-OCOQUAN BAY NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 51660-OHIO RIVER ISLANDS NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 31540-OTTAWA NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53512-OSBOW NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 52563-OYSTER BAY NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33541-OZARK CAVEFISH NATIONAL WILDLIFE REFUGE | 0 | 0% |

| | | |
|---|---|----|
| 53550-PARKER RIVER NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 31560-PATOKA RIVER NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 51640-PATUXENT RESEARCH REFUGE | 1 | 1% |
| 53533-PETIT MANAN NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33542-PILOT KNOB NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 51512-PLUM TREE ISLAND NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 53537-POND ISLAND NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33630-PORT LOUISA NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51623-PRESQUILE NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 51560-PRIME HOOK NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 53553-RACHEL CARSON NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51622-RAPPAHANNOCK RIVER VALLEY NWR | 1 | 1% |
| 32540-RICE LAKE NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32583-RYDELL NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53543-SACHUEST POINT NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53534-SEAL ISLAND NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 52565-SEATUCK NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 31510-SENEY NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 52611-SHAWANGUNK GRASSLANDS NWR | 1 | 1% |
| 32550-SHERBURNE NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 31520-SHIAWASSEE NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53590-SILVIO O. CONTE NFWR | 1 | 1% |
| 33560-SQUAW CREEK NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32577-ST. CROIX WETLAND MANAGEMENT DISTRICT | 1 | 1% |
| 52650-ST. LAWRENCE WETLANDS & GRASSLAND MGMT DIST | 0 | 0% |

| | | |
|---|----|------|
| 53546-STEWART B. MCKINNEY NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53560-SUNKHAZE MEADOWS NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 52571-SUPAWNA MEADOWS NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51532-SUSQUEHANNA NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33570-SWAN LAKE NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 32560-TAMARAC NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32561-TAMARAC WETLAND MANAGEMENT DISTRICT | 1 | 1% |
| 52568-TARGET ROCK NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53554-THACHER ISLAND NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 32578-TREMPEALEAU NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 53545-TRUSTOM POND NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33621-TWO RIVERS NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 33580-UNION SLOUGH NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32579-UPPER MISSISSIPPI RIVER NFWR | 1 | 1% |
| 32572-UPPER MISSISSIPPI RIVER NFWR-LA CROSSE DIST | 1 | 1% |
| 32595-UPPER MISSISSIPPI RIVER NFWR-MCGREGOR DIST | 0 | 0% |
| 32576-UPPER MISSISSIPPI RIVER NFWR-SAVANNA DIST | 0 | 0% |
| 32574-UPPER MISSISSIPPI RIVER NFWR-WINONA DISTRICT | 0 | 0% |
| 52610-WALLKILL RIVER NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 51571-WALLOPS ISLAND NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 53572-WAPACK NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 52561-WERTHEIM NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 31542-WEST SISTER ISLAND NATIONAL WILDLIFE REFUGE | 1 | 1% |
| 32620-WHITTLESEY CREEK NATIONAL WILDLIFE REFUGE | 0 | 0% |
| 32587-WINDOM WETLAND MANAGEMENT DISTRICT | 1 | 1% |
| Total | 98 | 100% |

4. Have landbird data been collected on your station in the last 3 years?

| | Number of Responses | Response Ratio |
|---|---------------------|----------------|
| Yes  | 68 | 69% |
| No  | 30 | 31% |
| Total | 98 | 100% |

5. If yes, is the protocol you are using meeting your specific station objectives?

| | Number of Responses | Response Ratio |
|---|---------------------|----------------|
| Yes  | 58 | 85% |
| No  | 10 | 15% |
| Total | 68 | 100% |

6. If not, why not?

[VIEW](#) 10 Responses

7. Does your station plan to collect landbird data in the next 3 years?

| | Number of Responses | Response Ratio |
|---|---------------------|----------------|
| Yes  | 64 | 65% |
| No  | 16 | 16% |
| Undecided  | 18 | 18% |
| Total | 98 | 100% |

8. If your station does not plan to collect landbird data in the next 3 years, please indicate why not? (check all that apply)

| | Number of Responses | Response Ratio |
|--|---------------------|----------------|
| We have not developed quantitative objectives that indicate a need to monitor landbirds at this time.  | 4 | 25% |
| We have other, higher priority resources that need attention.  | 7 | 44% |
| We've collected landbird data in the past. We achieved our objective and don't see a need to continue to monitor landbirds.  | 3 | 19% |
| We haven't used the data we've collected in the past.  | 1 | 6% |
| We're working on analysis and reporting of data we've collected in the past. Once that's done, we will evaluate whether or not we need to continue to collect landbird data.  | 2 | 13% |
| Monitoring landbirds is a high priority for our station, but we lack financial or other resources to conduct inventories or monitoring.  | 1 | 6% |
| VIEW Other, Please Specify  | 10 | 63% |

All questions after this point are only for stations that answered 'yes' or 'undecided' in the previous question.

Why are refuges collecting landbird data? We need to know what your major objectives are so that we can produce a protocol that meets your needs in the future. Below in **bold** are different types of objectives. An example follows each objective in plain font. Please rank the following objectives for collecting landbird data on your station in the future. Rank them from **9**.high priority (1) to low priority (7). Each rank can only be used once.

The top percentage indicates total respondent ratio; the bottom number represents actual number of respondents selecting the option

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|-----|-----|-----|-----|-----|-----|-----|
| 1. Baseline inventory of station or specific management units | 44% | 11% | 11% | 10% | 6% | 7% | 11% |
| We need a list of all landbird species on our station or within a habitat type. | 36 | 9 | 9 | 8 | 5 | 6 | 9 |
| 2. Evaluation of management actions, local scale | 26% | 34% | 12% | 7% | 7% | 9% | 5% |
| If Henslow's Sparrow abundance falls below 2 pairs per ha on a management unit, we plan to burn or mow. | 21 | 28 | 10 | 6 | 6 | 7 | 4 |
| 3. Evaluation of management actions, ecoregion or regional scale | 4% | 9% | 15% | 27% | 24% | 17% | 5% |
| We're working with several other refuges to monitor the effects of burning in spring versus fall on three grassland bird species. | 3 | 7 | 12 | 22 | 20 | 14 | 4 |
| 4. Testing assumptions or parameters underlying biological models | 4% | 7% | 5% | 11% | 16% | 23% | 34% |
| We want our data to be used by the Joint Venture or Partners in Flight to estimate the number of Cerulean Warbler breeding pairs per ha in floodplain forests characterized by mature cottonwoods with large canopy gaps. | 3 | 6 | 4 | 9 | 13 | 19 | 28 |
| 5. Detecting trends, local scale | 21% | 26% | 24% | 16% | 7% | 1% | 5% |
| We want to monitor changes in the abundance of three focal species associated with different stages of forest succession to assess the progress of forest restoration on a management unit over a 20-year time scale. | 17 | 21 | 20 | 13 | 6 | 1 | 4 |
| 6. Detecting trends, regional scale | 1% | 9% | 21% | 23% | 21% | 24% | 1% |
| We're working with other refuges and a state agency to estimate the population trend of Golden-winged Warblers within the state. | 1 | 7 | 17 | 19 | 17 | 20 | 1 |
| 7. Detecting trends, national scale | 1% | 5% | 12% | 6% | 18% | 18% | 39% |
| We participate in the USGS Breeding Bird Survey by volunteering to run road surveys to assess national population trends. Some of these survey routes may transect refuge lands. | 1 | 4 | 10 | 5 | 15 | 15 | 32 |

If a major objective for monitoring landbirds at your station was not mentioned above, please **10**.indicate that objective:

[VIEW](#) 12 Responses

Select the major habitat types associated with the landbirds that you **11**.plan to survey in the future at your station: (choose all that apply)

Number of Responses **Response Ratio**

| | | | |
|--|--|----|-----|
| Coniferous Forest | | 19 | 23% |
| Deciduous Forest | | 46 | 56% |
| Mixed Forest | | 38 | 46% |
| Oak Savanna or Woodland Forest | | 18 | 22% |
| Grasslands | | 59 | 72% |
| Shrublands | | 42 | 51% |
| Freshwater Marsh | | 43 | 52% |
| Saltmarsh | | 19 | 23% |
| Coastal Zones (beaches, dunes, ocean habitats) | | 12 | 15% |
| Riverine (rivers and associated terrestrial habitats) | | 24 | 29% |
| Lacustrine (lakes and associated terrestrial habitats) | | 8 | 10% |
| Other, please specify (50 characters or less) | | 7 | 9% |

[VIEW](#)

12. Are you managing for any specific landbird species at your station?

| | | Number of Responses | Response Ratio |
|--------------|--|---------------------|----------------|
| Yes | | 26 | 32% |
| No | | 56 | 68% |
| Total | | 82 | 100% |

13. If yes, please list the species below. (Please exclude nest box programs.)

[VIEW](#) 26 Responses

14. How will you develop a monitoring plan and select a sampling design and protocol for monitoring landbirds at your station? (check all that apply)

| | | Number of Responses | Response Ratio |
|--|--|---------------------|----------------|
| Will continue with current standardized protocol | | 58 | 71% |
| Station biologist will consult with Regional Biologist(s), Refuge Supervisors, or Biological Monitoring Team | | 63 | 77% |
| Station biologist will consult other refuge biologists | | 46 | 56% |
| Contract with a university or college (not affiliated with USGS) | | 12 | 15% |
| Contract with USGS Science Center or Coop Unit | | 8 | 10% |
| Contract with a private individual or business | | 6 | 7% |
| Contract with a non-profit organization | | 7 | 9% |

VIEW Other - Please specify (50 characters or less)  19 23%

Are you likely to use a standardized landbird monitoring protocol and companion data analysis and management system in the future, if your Regional Biologist recommends it? (We know that some refuges **15** are already using a standardized protocol.)

| | Number of Responses | Response Ratio |
|--|---------------------|----------------|
| Yes, we'll continue to use our current standardized protocol until notified to do otherwise.  | 26 | 32% |
| Yes, we'd welcome some guidance and a system for managing and analyzing our data.  | 46 | 56% |
| Yes, but only if we are required to do so. | 1 | 1% |
| No, we have specific reasons for not using a standardized protocol and we can justify alternate methods. | 3 | 4% |
| VIEW Other? Please indicate  | 6 | 7% |
| Total | 82 | 100% |

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Cross Tabulation Results



LandBirds(Final)

Completes only

Report created on: 4/20/2006 7:56 AM

The table below shows the results from comparing the following selected questions.

Have landbird data been collected on your station in the last 3 years?:

| | Total | Identify your Region : | |
|--------------|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 98 | 42 | 56 |
| Yes | 68 | 29 | 39 |
| No | 30 | 13 | 17 |

If yes, is the protocol you are using meeting your specific station objectives?:

| | Total | Identify your Region : | |
|--------------|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 68 | 29 | 39 |
| Yes | 58 | 23 | 35 |
| No | 10 | 6 | 4 |

Does your station plan to collect landbird data in the next 3 years? :

| | Total | Identify your Region : | |
|------------------|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 98 | 42 | 56 |
| Yes | 64 | 29 | 35 |
| No | 16 | 4 | 12 |
| Undecided | 18 | 9 | 9 |

If your station does not plan to collect landbird data in the next 3 years, please indicate why not? (check all that apply)

| | Total | Identify your Region : | |
|--|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 16 | 4 | 12 |
| We have not developed quantitative objectives that indicate a need to monitor landbirds at this time. | 4 | 3 | 1 |
| We have other, higher priority resources that need attention. | 7 | 2 | 5 |
| We've collected landbird data in the past. We achieved our objective and don't see a need to continue to monitor landbirds. | 3 | 1 | 2 |
| We haven't used the data we've collected in the past. | 1 | 0 | 1 |
| We're working on analysis and reporting of data we've collected in the | | | |

| | | | |
|--|----|---|---|
| past. Once that's done, we will evaluate whether or not we need to continue to collect landbird data. | 2 | 1 | 1 |
| Monitoring landbirds is a high priority for our station, but we lack financial or other resources to conduct inventories or monitoring. | 1 | 0 | 1 |
| Other, Please Specify | 10 | 2 | 8 |

Why are refuges collecting landbird data? We need to know what your major objectives are so that we can produce a protocol that meets your needs in the future. Below in bold are different types of objectives. An example follows each objective in plain font. Please rank the following objectives for collecting landbird data on your station in the future. Rank them from high priority (1) to low priority (7). Each rank can only be used once.: Baseline inventory of station or specific management units
We need a list of all landbird species on our station or within a habitat type.

| | Total | Identify your Region : | |
|--------------|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 82 | 38 | 44 |
| 1 | 36 | 13 | 23 |
| 2 | 9 | 5 | 4 |
| 3 | 9 | 5 | 4 |
| 4 | 8 | 3 | 5 |
| 5 | 5 | 1 | 4 |
| 6 | 6 | 4 | 2 |
| 7 | 9 | 7 | 2 |

Why are refuges collecting landbird data? We need to know what your major objectives are so that we can produce a protocol that meets your needs in the future. Below in bold are different types of objectives. An example follows each objective in plain font. Please rank the following objectives for collecting landbird data on your station in the future. Rank them from high priority (1) to low priority (7). Each rank can only be used once.: Evaluation of management actions, local scale
If Henslow's Sparrow abundance falls below 2 pairs per ha on a management unit, we plan to burn or mow.

| | Total | Identify your Region : | |
|--------------|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 82 | 38 | 44 |
| 1 | 21 | 9 | 12 |
| 2 | 28 | 11 | 17 |
| 3 | 10 | 5 | 5 |
| 4 | 6 | 3 | 3 |
| 5 | 6 | 3 | 3 |
| 6 | 7 | 4 | 3 |
| 7 | 4 | 3 | 1 |

Why are refuges collecting landbird data? We need to know what your major objectives are so that we can produce a protocol that meets your needs in the future. Below in bold are different types of objectives. An example follows each objective in plain font. Please rank the following objectives for collecting landbird data on your station in the future. Rank them from high priority (1) to low priority (7). Each rank can only be used once.: Evaluation of management actions, ecoregion or regional scale
We're working with several other refuges to monitor the effects of burning in spring versus fall on three grassland bird species.

| Total | Identify your Region : | |
|-------|------------------------|----------|
| | Region 3 | Region 5 |

| Total | 82 | 38 | 44 |
|-------|----|----|----|
| 1 | 3 | 2 | 1 |
| 2 | 7 | 4 | 3 |
| 3 | 12 | 5 | 7 |
| 4 | 22 | 9 | 13 |
| 5 | 20 | 10 | 10 |
| 6 | 14 | 8 | 6 |
| 7 | 4 | 0 | 4 |

Why are refuges collecting landbird data? We need to know what your major objectives are so that we can produce a protocol that meets your needs in the future. Below in bold are different types of objectives. An example follows each objective in plain font. Please rank the following objectives for collecting landbird data on your station in the future. Rank them from high priority (1) to low priority (7). Each rank can only be used once.: Testing assumptions or parameters underlying biological models We want our data to be used by the Joint Venture or Partners in Flight to estimate the number of Cerulean Warbler breeding pairs per ha in floodplain forests characterized by mature cottonwoods with large canopy gaps.

| Total | 82 | Identify your Region : | |
|-------|----|------------------------|----------|
| | | Region 3 | Region 5 |
| 1 | 3 | 2 | 1 |
| 2 | 6 | 4 | 2 |
| 3 | 4 | 2 | 2 |
| 4 | 9 | 1 | 8 |
| 5 | 13 | 3 | 10 |
| 6 | 19 | 9 | 10 |
| 7 | 28 | 17 | 11 |

Why are refuges collecting landbird data? We need to know what your major objectives are so that we can produce a protocol that meets your needs in the future. Below in bold are different types of objectives. An example follows each objective in plain font. Please rank the following objectives for collecting landbird data on your station in the future. Rank them from high priority (1) to low priority (7). Each rank can only be used once.: Detecting trends, local scale We want to monitor changes in the abundance of three focal species associated with different stages of forest succession to assess the progress of forest restoration on a management unit over a 20-year time scale.

| Total | 82 | Identify your Region : | |
|-------|----|------------------------|----------|
| | | Region 3 | Region 5 |
| 1 | 17 | 10 | 7 |
| 2 | 21 | 7 | 14 |
| 3 | 20 | 7 | 13 |
| 4 | 13 | 9 | 4 |
| 5 | 6 | 4 | 2 |
| 6 | 1 | 0 | 1 |
| 7 | 4 | 1 | 3 |

Why are refuges collecting landbird data? We need to know what your major objectives are so that we can produce a protocol that meets your needs in the future. Below in bold are different types of objectives. An example follows each objective in plain font. Please rank the following objectives for

collecting landbird data on your station in the future. Rank them from high priority (1) to low priority (7). Each rank can only be used once.: Detecting trends, regional scale
We're working with other refuges and a state agency to estimate the population trend of Golden-winged Warblers within the state.

| | Total | Identify your Region : | |
|--------------|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 82 | 38 | 44 |
| 1 | 1 | 1 | 0 |
| 2 | 7 | 5 | 2 |
| 3 | 17 | 8 | 9 |
| 4 | 19 | 10 | 9 |
| 5 | 17 | 8 | 9 |
| 6 | 20 | 5 | 15 |
| 7 | 1 | 1 | 0 |

Why are refuges collecting landbird data? We need to know what your major objectives are so that we can produce a protocol that meets your needs in the future. Below in bold are different types of objectives. An example follows each objective in plain font. Please rank the following objectives for collecting landbird data on your station in the future. Rank them from high priority (1) to low priority (7). Each rank can only be used once.: Detecting trends, national scale
We participate in the USGS Breeding Bird Survey by volunteering to run road surveys to assess national population trends. Some of these survey routes may transect refuge lands.

| | Total | Identify your Region : | |
|--------------|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 82 | 38 | 44 |
| 1 | 1 | 1 | 0 |
| 2 | 4 | 2 | 2 |
| 3 | 10 | 6 | 4 |
| 4 | 5 | 3 | 2 |
| 5 | 15 | 9 | 6 |
| 6 | 15 | 8 | 7 |
| 7 | 32 | 9 | 23 |

Select the major habitat types associated with the landbirds that you plan to survey in the future at your station: (choose all that apply)

| | Total | Identify your Region : | |
|---|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 82 | 38 | 44 |
| Coniferous Forest | 19 | 4 | 15 |
| Deciduous Forest | 46 | 27 | 19 |
| Mixed Forest | 38 | 6 | 32 |
| Oak Savanna or Woodland Forest | 18 | 16 | 2 |
| Grasslands | 59 | 29 | 30 |
| Shrublands | 42 | 15 | 27 |
| Freshwater Marsh | 43 | 21 | 22 |
| Saltmarsh | 19 | 1 | 18 |
| Coastal Zones (beaches, dunes, ocean habitats) | 12 | 1 | 11 |

| | | | |
|--|----|----|----|
| Riverine (rivers and associated terrestrial habitats) | 24 | 13 | 11 |
| Lacustrine (lakes and associated terrestrial habitats) | 8 | 5 | 3 |
| Other, please specify (50 characters or less) | 8 | 4 | 4 |

Are you managing for any specific landbird species at your station? :

| | Total | Identify your Region : | |
|--------------|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 82 | 38 | 44 |
| Yes | 26 | 12 | 14 |
| No | 56 | 26 | 30 |

How will you develop a monitoring plan and select a sampling design and protocol for monitoring landbirds at your station? (check all that apply)

| | Total | Identify your Region : | |
|---|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 82 | 38 | 44 |
| Will continue with current standardized protocol | 58 | 23 | 35 |
| Station biologist will consult with Regional Biologist(s), Refuge Supervisors, or Biological Monitoring Team | 63 | 27 | 36 |
| Station biologist will consult other refuge biologists | 46 | 21 | 25 |
| Contract with a university or college (not affiliated with USGS) | 12 | 8 | 4 |
| Contract with USGS Science Center or Coop Unit | 8 | 5 | 3 |
| Contract with a private individual or business | 6 | 4 | 2 |
| Contract with a non-profit organization | 7 | 6 | 1 |
| Other - Please specify (50 characters or less) | 20 | 8 | 12 |

Are you likely to use a standardized landbird monitoring protocol and companion data analysis and management system in the future, if your Regional Biologist recommends it? (We know that some refuges are already using a standardized protocol.) :

| | Total | Identify your Region : | |
|---|-----------|------------------------|----------|
| | | Region 3 | Region 5 |
| Total | 82 | 38 | 44 |
| Yes, we'll continue to use our current standardized protocol until notified to do otherwise. | 26 | 6 | 20 |
| Yes, we'd welcome some guidance and a system for managing and analyzing our data. | 46 | 27 | 19 |
| Yes, but only if we are required to do so. | 1 | 0 | 1 |
| No, we have specific reasons for not using a standardized protocol and we can justify alternate methods. | 3 | 1 | 2 |
| Other? Please indicate | 6 | 4 | 2 |



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Questions that required written responses are displayed by individual query. The "Report Overview" button or "Back" button will return you to your survey results.

Each individual respondent is referenced under the # column.

6. If not, why not?

| # | Response |
|----|---|
| 1 | no biologist, lack of staffing |
| 2 | Don't have monitoring objectives, Glacial Ridge is a new refuge and don't have a biologist. Would like help, Un. of Mn-Crookston has completed some baseline data. |
| 3 | Statistically, the data is not often sound, although this is not always important for us, sometimes it is. Also, we are finding that some of the methods used in the past yielded data that is virtually worthless. |
| 4 | For sharptailed sparrows, yes we are meeting our refuge objectives. For other landbirds, we need to determine what our objectives are, our routes were set up in a way which is not representative of total habitat, but instead placed in particular habitat types, we are likely oversampling some habitats and undersampling others. We also need to move towards management oriented sampling, for example, if we manage shrublands, how should we monitor to ensure we meet objectives. Also, we need to determine if it is important for us to conduct population level monitoring, like we do for sharptails, or do management unit monitoring. At some point we need to determine this and re-tool the old landbird routes to meet these needs. |
| 5 | This survey does not address nesting success, sound population estimates, including all refuge habitat types and the influence of birds flushing to next point. |
| 6 | No clear Objectives |
| 7 | We are collecting data during the breeding season and it is very useful, but I also wish we had better information on use by migrants since we have a lot of shrub dominated coastal habitats that could potentially support priority species from the northern forest during their fall migration. |
| 8 | We are currently only conducting one BBS route which covers small portions of the refuge. For Natl population trends. |
| 9 | Need to address monitoring for landbirds during migration. Breeding protocols are meeting station objectives. |
| 10 | Station objectives have not been set- CCP is in draft |

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Landbird Monitoring Survey, Region 3 and Region 5

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If your station does not plan to collect landbird data in the next 3 years, please indicate why **8**.not? (check all that apply)

| # | Response |
|----|--|
| 1 | Vegetative Survey data for points is not available |
| 2 | No appropriate habitat |
| 3 | Refuge is offshore island, difficult to survey |
| 4 | Refuge is offshore island, difficult to survey |
| 5 | Refuge is offshore, seabird nesting island |
| 6 | Refuge is seabird nesting island |
| 7 | No fee title land present within the WMD |
| 8 | accessibility |
| 9 | Oyster Bay NWR does not have any land. It's all ba |
| 10 | CCP priority is colonial waterbird colonies |

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If a major objective for monitoring landbirds at your station was not mentioned above, please **10.** indicate that objective:

| # | Response |
|----|---|
| 1 | Baseline inventory is the highest need at Carlton Pond WPA. |
| 2 | N/A |
| 3 | Collect, analyse, and publish landbird data to demonstrate effective land management techniques and opportunities. |
| 4 | Monitoring will be a major objective, but help is needed. |
| 5 | Environmental Education and Outreach, this is the main reason we participate in and get the community involved with the Christmas Bird Count. |
| 6 | We are trying to determine the local trends of sharptailed sparrows, identify important areas for them. |
| 7 | n/a |
| 8 | Piping plovers and nesting birds |
| 9 | If we had the staff I would want to have a better data (e.g. productivity) of the salt marsh sharp tailed sparrows |
| 10 | Detect important habitats used by particular species |
| 11 | We want to look at process (migration) in relation to habitat (floodplain forest) |
| 12 | use during migration |

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Select the major habitat types associated with the landbirds that you plan to survey in the
11. future at your station: (choose all that apply)

| # | Response |
|---|--|
| 1 | Peat Bog |
| 2 | forested wetland |
| 3 | tall-grass prairie (native and restored) 35,000 ac |
| 4 | Open bog/sedge meadow |
| 5 | Bottomland Hardwoods |
| 6 | created habitats -- impoundments, fields |
| 7 | coastal pondshores, red maple swamps |

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Each individual respondent is referenced under the # column.

13. If yes, please list the species below. (Please exclude nest box programs.)

| # | Response |
|----|--|
| 1 | Species 1 Henslow's sparrow Species 2 Bobolink |
| 2 | Species 1 Henslow's Sparrow |
| 3 | Species 1 Red-headed Woodpecker Species 2 Henslow's Sparrow |
| 4 | Species 1 Black Terns |
| 5 | Species 1 Bald Eagles Species 2 American Woodcock |
| 6 | Species 1 red-headed woodpecker Species 2 vesper sparrow |
| 7 | Species 1 greater prairie chicken |
| 8 | Species 1 Henslow's sparrow Species 2 Swainsons warbler |
| 9 | Species 1 grasshopper sparrow Species 2 henslows sparrow |
| 10 | Species 1 bald eagle |
| 11 | Species 1 Grassland Birds Species 2 Waterfowl |
| 12 | Species 1 Henslow's Sparrow |
| 13 | Species 1 Sharptailed sparrows Species 2 Shrubland bird sps |
| 14 | Species 1 Grassland Birds (Henslow's, Grasshopper, etc.) Species 2 Floodplain Forest Warblers/ Vireos & BB Cuckoo |
| 15 | Species 1 American Woodcock Species 2 Upland Sandpiper |
| 16 | Species 1 bay-breasted warbler Species 2 woodcock |
| 17 | Species 1 Golden-winged warbler |
| 18 | Species 1 scarlet tanager Species 2 Eastern towhee |
| 19 | Species 1 Piping plovers Species 2 Least Terns |

| | | |
|----|-----------|---|
| 20 | Species 1 | grassland birds |
| 21 | Species 1 | bobolink, meadowlark, grasshopper sparrow |
| | Species 2 | American woodcock, Wilson's snipe |
| 22 | Species 1 | Grasshopper Sparrows |
| | Species 2 | Meadow Larks |
| 23 | Species 1 | Blackburnian warbler |
| | Species 2 | Canada warbler |
| 24 | Species 1 | Grassland Birds |
| 25 | Species 1 | stopover habitat for all neotropical migrants |
| 26 | Species 1 | stopover habitat for all neotropical migrants |

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Each individual respondent is referenced under the # column.

How will you develop a monitoring plan and select a sampling design and protocol for
14. monitoring landbirds at your station? (check all that apply)

| # | Response |
|----|--|
| 1 | literature search, consult Audubon |
| 2 | volunteers and weekly surveys |
| 3 | Don't know. Work with HAPET, other biologists. |
| 4 | Our protocol has been in place for 10+ years |
| 5 | HAPET |
| 6 | Use Biologists from other refuges (need biologist) |
| 7 | Research conducted by Refuge personnel |
| 8 | Contract with COE |
| 9 | Consult with peers (nt necc. fws) or working grps |
| 10 | Consult w/ IBA, IA DNR, & coop unit ornithologists |
| 11 | Landbird Monitoring Team |
| 12 | Contacts with USGS; decide based on CCP objective |
| 13 | Will consult with USGS biometricians at PWRC |
| 14 | We are finishing our HMP now and will address this |
| 15 | Will address this in our HMP |
| 16 | Hope to address this in the HMP |
| 17 | Will collect baseline data with Region 5 protocol |
| 18 | will continue with Region 5 protocol for now |
| 19 | Consult w/ USGS, State, Univ, and/or NGO biologist |

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Each individual respondent is referenced under the # column.

Are you likely to use a standardized landbird monitoring protocol and companion data analysis and management system in the future, if your Regional Biologist recommends it?

15. (We know that some refuges are already using a standardized protocol.)

| # | Response |
|---|--|
| 1 | Will use current sandarized protocol; can justify. |
| 2 | Yes but we need a biologist to do more |
| 3 | It depends what the new protocol looks like. |
| 4 | Yes, we'll likely use the Region 5 protocol |
| 5 | will cont w/std protocol, would like help w/analys |
| 6 | continue w/std protoco, would like help w/analysis |

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