

Melinda Knutson/R3/FWS/DOI
04/25/2006 09:43 AM

To

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

cc

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Subject

adaptive management needs survey: due 10 May

The Biological Monitoring Team is working to identify the highest priority topics to focus a new adaptive management project, planned to start in FY2007. In February we asked field stations to submit their ideas for adaptive management and research needs. We summarized these ideas and discussed them in April with the Regional Refuge Supervisors in Regions 3 and 5. The list below was derived from our conversations with the Regional Refuge Supervisors. We plan to hold workshops on the highest priority topics during July and August to help refuges and interested scientists further clarify issues and identify possible solutions. After the workshops, a Request-for-Proposals (RFP) will be released to solicit multi-refuge adaptive management studies that address topics identified at the workshops. Refuges will have the opportunity to confirm if they wish to participate in a particular study at that time.

The purpose of this survey is to solicit your ratings of the importance of the topics. We will use this information to decide which topics warrant further development via workshops. 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. To facilitate discussion among refuge staff in making your response, we have attached a PDF file of the survey. This survey will take less than 10 minutes to complete. If you have trouble with the online survey, just fill out the paper version and mail to Melinda Knutson. If you have questions, contact Melinda or Todd Sutherland.

Please use the following link to complete the survey:

<http://www.zoomerang.com/recipient/survey-intro.zgi?p=WEB22597QHQRNK>

Please complete the survey by 10 May.

Thanks!

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Survey Results (Included Responses)

Adaptive Management Needs Survey

Report created on: Monday, May 15, 2006 11:41:00 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	04/25/2006 - 9:32 AM
Modified Date	
Close Date	05/12/2006 - 9:54 AM
Email Invites	0
Visits	198
Partials	11
Completes	130

Go to Individual Complete Responses:

Show respondent's emails.

INCLUDED RESPONSES

EXCLUDED RESPONSES

Included Respondents: 116
Excluded Respondents: 14

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

Responses: Completes only Partials only Completes & Partials

1. Enter your name:

VIEW 116 Responses

2. Identify your region:

	Number of Responses	Response Ratio
Region 3	60	52%
Region 5	56	48%
Total	116	100%

3. Choose your station name:

	Number of Responses	Response Ratio
52562-AMAGANSETT NATIONAL WILDLIFE REFUGE	1	2%
53630-AROOSTOOK NATIONAL WILDLIFE REFUGE	1	2%
53513-ASSABET RIVER NATIONAL WILDLIFE REFUGE	1	2%
51510-BACK BAY NATIONAL		

WILDLIFE REFUGE	1	2%
51531-BLACKWATER NATIONAL WILDLIFE REFUGE	1	2%
53541-BLOCK ISLAND NATIONAL WILDLIFE REFUGE	1	2%
51550-BOMBAY HOOK NATIONAL WILDLIFE REFUGE	0	0%
51630-CANAAN VALLEY NATIONAL WILDLIFE REFUGE	1	2%
52515-CAPE MAY NATIONAL WILDLIFE REFUGE	1	2%
53561-CARLTON POND WATERFOWL PRODUCTION AREA	1	2%
51570-CHINCOTEAGUE NATIONAL WILDLIFE REFUGE	1	2%
52564-CONSCIENCE POINT NATIONAL WILDLIFE REFUGE	0	0%
53535-CROSS ISLAND NATIONAL WILDLIFE REFUGE	1	2%
51590-EASTERN NECK NATIONAL WILDLIFE REFUGE	1	2%
51650-EASTERN SHORE OF VIRGINIA NWR	1	2%
52510-EDWIN B. FORSYTHE NATIONAL WILDLIFE REFUGE	1	2%
52566-ELIZABETH ALEXANDRA MORTON NWR	0	0%
52520-ERIE NATIONAL WILDLIFE REFUGE	1	2%
51612-FEATHERSTONE NATIONAL WILDLIFE REFUGE	0	0%
51651-FISHERMAN ISLAND NATIONAL WILDLIFE REFUGE	1	2%
53536-FRANKLIN ISLAND NATIONAL WILDLIFE REFUGE	1	2%
53570-GREAT BAY NATIONAL WILDLIFE REFUGE	0	0%
51580-GREAT DISMAL SWAMP NATIONAL WILDLIFE REFUGE	1	2%
53511-GREAT MEADOWS NATIONAL WILDLIFE REFUGE	1	2%
52530-GREAT SWAMP NATIONAL WILDLIFE REFUGE	1	2%
52540-IROQUOIS NATIONAL WILDLIFE REFUGE	1	2%
51621-JAMES RIVER NATIONAL WILDLIFE REFUGE	1	2%
53547-JOHN H. CHAFEE NATIONAL WILDLIFE REFUGE	1	2%

53571-JOHN HAY NATIONAL WILDLIFE REFUGE	0	0%
52570-JOHN HEINZ NWR AT TINICUM	0	0%
53580-LAKE UMBAGOG NATIONAL WILDLIFE REFUGE	1	2%
51540-MARTIN NATIONAL WILDLIFE REFUGE	1	2%
53518-MASHPEE NATIONAL WILDLIFE REFUGE	1	2%
51610-MASON NECK NATIONAL WILDLIFE REFUGE	1	2%
53517-MASSASOIT NATIONAL WILDLIFE REFUGE	1	2%
53520-MISSISQUOI NATIONAL WILDLIFE REFUGE	1	2%
53514-MONOMOY NATIONAL WILDLIFE REFUGE	1	2%
52550-MONTEZUMA NATIONAL WILDLIFE REFUGE	1	2%
53530-MOOSEHORN NATIONAL WILDLIFE REFUGE	1	2%
51581-NANSEMOND NATIONAL WILDLIFE REFUGE	1	2%
53515-NANTUCKET NATIONAL WILDLIFE REFUGE	1	2%
53542-NINIGRET NATIONAL WILDLIFE REFUGE	1	2%
53516-NOMANS LAND ISLAND NATIONAL WILDLIFE REFUGE	1	2%
51611-OCOCOQUAN BAY NATIONAL WILDLIFE REFUGE	1	2%
51660-OHIO RIVER ISLANDS NATIONAL WILDLIFE REFUGE	0	0%
53512-OXBOW NATIONAL WILDLIFE REFUGE	1	2%
52563-OYSTER BAY NATIONAL WILDLIFE REFUGE	0	0%
53550-PARKER RIVER NATIONAL WILDLIFE REFUGE	1	2%
51640-PATUXENT RESEARCH REFUGE	0	0%
53533-PETIT MANAN NATIONAL WILDLIFE REFUGE	1	2%
51512-PLUM TREE ISLAND NATIONAL WILDLIFE REFUGE	0	0%
53537-POND ISLAND NATIONAL WILDLIFE REFUGE	1	2%
51623-PRESQUILE NATIONAL WILDLIFE REFUGE	1	2%

51560-PRIME HOOK NATIONAL WILDLIFE REFUGE	1	2%
53553-RACHEL CARSON NATIONAL WILDLIFE REFUGE	1	2%
51622-RAPPAHANNOCK RIVER VALLEY NWR	1	2%
53543-SACHUEST POINT NATIONAL WILDLIFE REFUGE	1	2%
53534-SEAL ISLAND NATIONAL WILDLIFE REFUGE	1	2%
52565-SEATUCK NATIONAL WILDLIFE REFUGE	0	0%
52611-SHAWANGUNK GRASSLANDS NWR	1	2%
53590-SILVIO O. CONTE NFWR 52650-ST. LAWRENCE WETLANDS & GRASSLAND MGMT DIST	1	2%
53546-STEWART B. MCKINNEY NATIONAL WILDLIFE REFUGE	1	2%
53560-SUNKHAZE MEADOWS NATIONAL WILDLIFE REFUGE	1	2%
52571-SUPAWNA MEADOWS NATIONAL WILDLIFE REFUGE	1	2%
51532-SUSQUEHANNA NATIONAL WILDLIFE REFUGE	0	0%
52568-TARGET ROCK NATIONAL WILDLIFE REFUGE	0	0%
53554-THACHER ISLAND NATIONAL WILDLIFE REFUGE	1	2%
53545-TRUSTOM POND NATIONAL WILDLIFE REFUGE	1	2%
52610-WALLKILL RIVER NATIONAL WILDLIFE REFUGE	1	2%
51571-WALLOPS ISLAND NATIONAL WILDLIFE REFUGE	0	0%
53572-WAPACK NATIONAL WILDLIFE REFUGE	0	0%
52561-WERTHEIM NATIONAL WILDLIFE REFUGE	0	0%
Total	56	100%

4. Choose your station name:

	Number of Responses	Response Ratio
32510-AGASSIZ NATIONAL WILDLIFE REFUGE	1	2%
33590-BIG MUDDY NATIONAL FISH AND WILDLIFE REFUGE	1	2%
31531-BIG OAKS NATIONAL	1	2%

WILDLIFE REFUGE		
32640-BIG STONE NATIONAL WILDLIFE REFUGE	1	2%
32641-BIG STONE WETLAND MANAGEMENT DISTRICT	1	2%
31541-CEDAR POINT NATIONAL WILDLIFE REFUGE	1	2%
33650-CHAUTAUQUA NATIONAL WILDLIFE REFUGE	1	2%
33643-CLARENCE CANNON NATIONAL WILDLIFE REFUGE	0	0%
33610-CRAB ORCHARD NATIONAL WILDLIFE REFUGE	1	2%
32555-CRANE MEADOWS NATIONAL WILDLIFE REFUGE	1	2%
32630-CYPRESS CREEK NATIONAL WILDLIFE REFUGE	1	2%
33510-DESOTO NATIONAL WILDLIFE REFUGE	1	2%
32586-DETROIT LAKES WETLAND MANAGEMENT DISTRICT	0	0%
31521-DETROIT RIVER INTERNATIONAL WILDLIFE REFUGE	0	0%
32596-DRIFTLESS AREA NATIONAL WILDLIFE REFUGE	1	2%
33654-EMIQUON NATIONAL WILDLIFE REFUGE	0	0%
32585-FERGUS FALLS WETLAND MANAGEMENT DISTRICT	1	2%
32524-FOX RIVER NATIONAL WILDLIFE REFUGE	1	2%
32580-GLACIAL RIDGE NATIONAL WILDLIFE REFUGE	1	2%
32521-GRAVEL ISLAND NATIONAL WILDLIFE REFUGE	0	0%
33640-GREAT RIVER NATIONAL WILDLIFE REFUGE	1	2%
32522-GREEN BAY NATIONAL WILDLIFE REFUGE	1	2%
32600-HAMDEN SLOUGH NATIONAL WILDLIFE REFUGE	1	2%
31512-HARBOR ISLAND NATIONAL WILDLIFE REFUGE	1	2%
32520-HORICON NATIONAL WILDLIFE REFUGE	1	2%
31511-HURON NATIONAL WILDLIFE REFUGE	1	2%
33581-IOWA WETLAND MANAGEMENT DISTRICT	1	2%

31513-KIRTLANDS WARBLER WILDLIFE MANAGEMENT AREA	1	2%
32525-LEOPOLD WETLAND MANAGEMENT DISTRICT	1	2%
32588-LITCHFIELD WETLAND MANAGEMENT DISTRICT	1	2%
33652-MEREDOSIA NATIONAL WILDLIFE REFUGE	0	0%
31522-MICHIGAN ISLANDS NATIONAL WILDLIFE REFUGE	0	0%
31731-MICHIGAN WETLAND MANAGEMENT DISTRICT	1	2%
33660-MIDDLE MISSISSIPPI RIVER NWR	1	2%
32541-MILLE LACS NATIONAL WILDLIFE REFUGE	1	2%
33540-MINGO NATIONAL WILDLIFE REFUGE	1	2%
32590-MINNESOTA VALLEY NATIONAL WILDLIFE REFUGE	1	2%
32591-MINNESOTA VALLEY WETLAND MANAGEMENT DIST	1	2%
32581-MORRIS WETLAND MANAGEMENT DISTRICT	0	0%
31530-MUSCATATUCK NATIONAL WILDLIFE REFUGE	1	2%
33670-NEAL SMITH NATIONAL WILDLIFE REFUGE	1	2%
32530-NECEDAH NATIONAL WILDLIFE REFUGE	0	0%
32645-NORTHERN TALLGRASS PRAIRIE NWR	1	2%
31540-OTTAWA NATIONAL WILDLIFE REFUGE	1	2%
33541-OZARK CAVEFISH NATIONAL WILDLIFE REFUGE	1	2%
31560-PATOKA RIVER NATIONAL WILDLIFE REFUGE	1	2%
33542-PILOT KNOB NATIONAL WILDLIFE REFUGE	1	2%
33630-PORT LOUISA NATIONAL WILDLIFE REFUGE	1	2%
32540-RICE LAKE NATIONAL WILDLIFE REFUGE	1	2%
32583-RYDELL NATIONAL WILDLIFE REFUGE	1	2%
31510-SENEY NATIONAL WILDLIFE REFUGE	1	2%
32550-SHERBURNE NATIONAL WILDLIFE REFUGE	1	2%

31520-SHIAWASSEE NATIONAL WILDLIFE REFUGE	1	2%
33560-SQUAW CREEK NATIONAL WILDLIFE REFUGE	1	2%
32577-ST. CROIX WETLAND MANAGEMENT DISTRICT	1	2%
33570-SWAN LAKE NATIONAL WILDLIFE REFUGE	0	0%
32560-TAMARAC NATIONAL WILDLIFE REFUGE	1	2%
32561-TAMARAC WETLAND MANAGEMENT DISTRICT	1	2%
32578-TREMPEALEAU NATIONAL WILDLIFE REFUGE	1	2%
33621-TWO RIVERS NATIONAL WILDLIFE REFUGE	1	2%
33580-UNION SLOUGH NATIONAL WILDLIFE REFUGE	1	2%
32579-UPPER MISSISSIPPI RIVER NFWR	1	2%
32572-UPPER MISSISSIPPI RIVER NFWR-LA CROSSE DIST	1	2%
32595-UPPER MISSISSIPPI RIVER NFWR-MCGREGOR DIST	1	2%
32576-UPPER MISSISSIPPI RIVER NFWR-SAVANNA DIST	1	2%
32574-UPPER MISSISSIPPI RIVER NFWR-WINONA DISTRICT	1	2%
31542-WEST SISTER ISLAND NATIONAL WILDLIFE REFUGE	1	2%
32620-WHITTLESEY CREEK NATIONAL WILDLIFE REFUGE	1	2%
32587-WINDOM WETLAND MANAGEMENT DISTRICT	1	2%
Total	59	100%

Please rate the importance of each of the following adaptive management topics to the
5. management of your station.

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

	1 Very high priority	2 High priority	3 Medium priority	4 Low priority	5 Not Applicable
1. Mitigating human disturbance: What refuge management practices can be employed to mitigate the negative effects of refuge visitors and refuge management presence on wildlife?	19% 22	20% 23	26% 30	24% 28	11% 13
2. Grasslands and ground-nesting birds: Test grassland management practices to determine their impact on the reproductive success of ground-nesting birds.	16% 18	16% 19	22% 25	22% 26	24% 28
3. Saltmarsh management: Explore best management practices for the conservation and restoration of salt marshes, including	5%	7%	5%	3%	79%

use of a Saltmarsh Condition Index and associated Index of Biological Integrity.	6	8	6	4	92
4. Cropland management: Evaluate effectiveness, efficiency, and contribution of cropland management programs to the FWS Refuge mission.	4%	4%	13%	16%	63%
	5	5	15	18	73
5. Invasive species management: How can refuges work together to identify the impacts of invasive species on native communities of plants and animals and identify priorities for invasive species control?	41%	33%	15%	6%	6%
	47	38	17	7	7
6. Piping plovers and terns and predators: Explore best management practices for predator management within tern and piping plover nesting areas.	9%	5%	9%	16%	61%
	10	6	11	18	71
7. Forest management for focal species: Identify best forest management and restoration practices to benefit high priority forest wildlife, including land birds.	31%	17%	11%	14%	27%
	36	20	13	16	31
8. Reed canary grass control and management: Develop effective management practices to achieve long-term control of reed canary grass.	20%	13%	11%	13%	43%
	23	15	13	15	50
9. Scrub/shrub habitat management: What are the best methods of managing early successional habitats for high priority species?	15%	23%	23%	21%	18%
	17	27	27	24	21
10. Savanna restoration: Identify savanna management practices that best meet refuge objectives.	7%	4%	17%	9%	63%
	8	5	20	10	73

Please select any adaptive management topics from the list below that your station would be willing to participate in, if we convene a workshop or a study to address it. Participation will include sending a representative to one or more workshops with USGS and other scientists to clearly define the problem such that a FWS/USGS cooperative study can be developed. Funding is available to support travel to such a meeting. Participation will also mean that your field station will be considered for inclusion in the study and your biology

6. staff may be asked to coordinate or participate in data collection.

		Number of Responses	Response Ratio
Mitigating human disturbance: What refuge management practices can be employed to mitigate the negative effects of refuge visitors and refuge management presence on wildlife?		22	24%
Grasslands and ground-nesting birds: Test grassland management practices to determine their impact on the reproductive success of ground-nesting birds.		33	36%
Saltmarsh management: Explore best management practices for the conservation and restoration of salt marshes, including use of a Saltmarsh Condition Index and associated Index of Biological Integrity.		11	12%
Cropland management: Evaluate effectiveness, efficiency, and contribution of cropland			

management programs to the FWS Refuge mission.		12	13%
Invasive species management: How can refuges work together to identify the impacts of invasive species on native communities of plants and animals and identify priorities for invasive species control?		54	59%
Piping plovers and terns and predators: Explore best management practices for predator management within tern and piping plover nesting areas.		15	16%
Forest management for focal species: Identify best forest management and restoration practices to benefit high priority forest wildlife, including land birds.		49	54%
Reed canary grass control and management: Develop effective management practices to achieve long-term control of reed canary grass.		27	30%
Scrub/shrub habitat management: What are the best methods of managing early successional habitats for high priority species?		33	36%
Savanna restoration: Identify savanna management practices that best meet refuge objectives.		14	15%

You did not select any topics for your station to participate in, please **7.** indicate your concerns below.

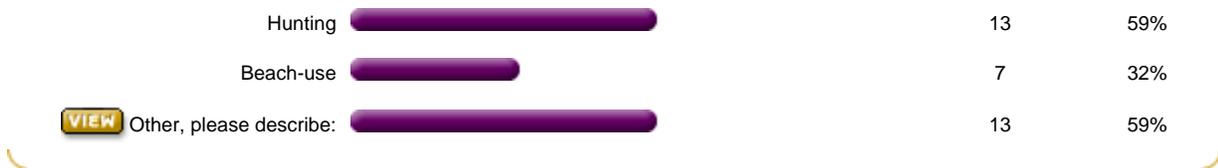
		Number of Responses	Response Ratio
None of the listed topics are important to the management of my station.		2	8%
My station lacks the time to participate in workshops, coordination, or data collection on any topic this year or next year.		7	28%
VIEW Other, please describe:		16	64%
Total		25	100%

8. Please describe a topic that would be more useful to you.

VIEW 1 Responses

Identify categories of human disturbance that may be appropriate for **9.** multi-refuge studies at your refuge:

		Number of Responses	Response Ratio
Auto-tour route disturbance		9	41%
Hiking trails		12	55%
Boating		10	45%



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Cross Tabulation Results



AM_Needs_Final_2

Completes only

Report created on: 5/15/2006 9:51 AM

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

Please rate the importance of each of the following adaptive management topics to the management of your station.: Mitigating human disturbance: What refuge management practices can be employed to mitigate the negative effects of refuge visitors and refuge management presence on wildlife?

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	22	11	11
High priority	23	12	11
Medium priority	30	15	15
Low priority	28	15	13
Not Applicable	13	7	6

Please rate the importance of each of the following adaptive management topics to the management of your station.: Grasslands and ground-nesting birds: Test grassland management practices to determine their impact on the reproductive success of ground-nesting birds.

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	18	12	6
High priority	19	11	8
Medium priority	25	14	11
Low priority	26	13	13
Not Applicable	28	10	18

Please rate the importance of each of the following adaptive management topics to the management of your station.: Saltmarsh management: Explore best management practices for the conservation and restoration of salt marshes, including use of a Saltmarsh Condition Index and associated Index of Biological Integrity.

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	6	0	6
High priority	8	0	8
Medium priority	6	0	6
Low priority	4	1	3
Not Applicable	92	59	33

Please rate the importance of each of the following adaptive management topics to the management of your station.: Cropland management: Evaluate effectiveness, efficiency, and contribution of cropland management programs to the FWS Refuge mission.

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	5	2	3
High priority	5	3	2
Medium priority	15	11	4
Low priority	18	15	3
Not Applicable	73	29	44

Please rate the importance of each of the following adaptive management topics to the management of your station.: Invasive species management: How can refuges work together to identify the impacts of invasive species on native communities of plants and animals and identify priorities for invasive species control?

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	47	27	20
High priority	38	20	18
Medium priority	17	9	8
Low priority	7	0	7
Not Applicable	7	4	3

Please rate the importance of each of the following adaptive management topics to the management of your station.: Piping plovers and terns and predators: Explore best management practices for predator management within tern and piping plover nesting areas.

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	10	1	9
High priority	6	0	6
Medium priority	11	7	4
Low priority	18	14	4
Not Applicable	71	38	33

Please rate the importance of each of the following adaptive management topics to the management of your station.: Forest management for focal species: Identify best forest management and restoration practices to benefit high priority forest wildlife, including land birds.

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	36	22	14
High priority	20	5	15

Medium priority	13	7	6
Low priority	16	8	8
Not Applicable	31	18	13

Please rate the importance of each of the following adaptive management topics to the management of your station.: Reed canary grass control and management: Develop effective management practices to achieve long-term control of reed canary grass.

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	23	21	2
High priority	15	12	3
Medium priority	13	9	4
Low priority	15	8	7
Not Applicable	50	10	40

Please rate the importance of each of the following adaptive management topics to the management of your station.: Scrub/shrub habitat management: What are the best methods of managing early successional habitats for high priority species?

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	17	7	10
High priority	27	11	16
Medium priority	27	12	15
Low priority	24	19	5
Not Applicable	21	11	10

Please rate the importance of each of the following adaptive management topics to the management of your station.: Savanna restoration: Identify savanna management practices that best meet refuge objectives.

	Total	Identify your region::	
		Region 3	Region 5
Total	116	60	56
Very high priority	8	8	0
High priority	5	4	1
Medium priority	20	18	2
Low priority	10	7	3
Not Applicable	73	23	50

Please select any adaptive management topics from the list below that your station would be willing to participate in, if we convene a workshop or a study to address it. Participation will include sending a representative to one or more workshops with USGS and other scientists to clearly define the problem such that a FWS/USGS cooperative study can be developed. Funding is available to support travel to such a meeting. Participation will also mean that your field station will be considered for inclusion in the study and your biology staff may be asked to coordinate or participate in data collection.

Total Identify your region::

		Region 3	Region 5
Total	91	51	40
Mitigating human disturbance: What refuge management practices can be employed to mitigate the negative effects of refuge visitors and refuge management presence on wildlife?	22	13	9
Grasslands and ground-nesting birds: Test grassland management practices to determine their impact on the reproductive success of ground-nesting birds.	33	18	15
Saltmarsh management: Explore best management practices for the conservation and restoration of salt marshes, including use of a Saltmarsh Condition Index and associated Index of Biological Integrity.	11	0	11
Cropland management: Evaluate effectiveness, efficiency, and contribution of cropland management programs to the FWS Refuge mission.	12	5	7
Invasive species management: How can refuges work together to identify the impacts of invasive species on native communities of plants and animals and identify priorities for invasive species control?	54	36	18
Piping plovers and terns and predators: Explore best management practices for predator management within tern and piping plover nesting areas.	15	0	15
Forest management for focal species: Identify best forest management and restoration practices to benefit high priority forest wildlife, including land birds.	49	25	24
Reed canary grass control and management: Develop effective management practices to achieve long-term control of reed canary grass.	27	24	3
Scrub/shrub habitat management: What are the best methods of managing early successional habitats for high priority species?	33	8	25
Savanna restoration: Identify savanna management practices that best meet refuge objectives.	14	12	2

You did not select any topics for your station to participate in, please indicate your concerns below.:

	Total	Identify your region::	
		Region 3	Region 5
Total	25	9	16
None of the listed topics are important to the management of my station.	2	1	1
My station lacks the time to participate in workshops, coordination, or data collection on any topic this year or next year.	7	3	4
Other, please describe:	16	5	11

Identify categories of human disturbance that may be appropriate for multi-refuge studies at your refuge:

	Total	Identify your region::	
		Region 3	Region 5
Total	22	13	9
Auto-tour route disturbance	9	5	4
Hiking trails	12	7	5
Boating	10	5	5
Hunting	13	8	5
Beach-use	7	4	3
Other, please describe:	13	4	9

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Survey Results (Included Responses)

[REPORT OVERVIEW](#)

Adaptive Management Needs Survey

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.

You did not select any topics for your station to participate in, please indicate your concerns
7. below.

#	Response
1	Regional Supervisor indicating my preferences
2	Carlton Pond WPA is unstaffed.
3	Sunkhaze Meadows NWR has only one staff person.
4	Satellite Refuge not actively managed.
5	Big Stone NWR is better suited for AM Projects.
6	NTGP NWR units are covered under MN&IA WMDs.
7	Station lacks biologist,so no staff to lead effort
8	We own no fee title land within the Tamarac WMD.
9	small staff; interest in disturbance and predators
10	Mashpee is small, topics are not high priority
11	Refuge is small and difficult to access
12	Funding and time MAY be limiting
13	Time and funding MAY be limiting
14	Possibly interested; time and staff may be limited
15	interested, but staff and time may be limiting
16	interested, but staff and time may be limiting

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Survey Results (Included Responses)

[REPORT OVERVIEW](#)

Adaptive Management Needs Survey

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.

8. Please describe a topic that would be more useful to you.

#	Response
1	The topics are important. However, NTGP NWR has no staff except for me. The units are managed by WMDs in MN and IA and would be included in their WMD surveys.

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Adaptive Management Needs Survey

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Identify categories of human disturbance that may be appropriate for multi-refuge studies at
9. your refuge:

#	Response
1	vehicle use on beach
2	Day to day operations of the Refuge
3	dogs, cross country skiing
4	off road vehicle ravel
5	Fishing
6	reral residential development, urbanization
7	1. Residential development near the refuge 2. Impacts of increases in impervious surfaces on water quality and quantity
8	recreational use of coastal islands
9	Fishing
10	snowmobiles, atv's
11	horseback riding, biking and jogging trails
12	wildlife observation, educational requests
13	birding, wildlife observation

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