

Arrowwood National Wildlife Refuge

Visitor Survey



Thank you for visiting Arrowwood National Wildlife Refuge and for agreeing to participate in this study. The US Fish and Wildlife Service and the US Geological Survey are conducting this survey to learn more about refuge visitors in order to improve the management of the area and enhance visitor opportunities.

The survey is completely confidential and your participation is entirely voluntary. You have been chosen to represent a typical visitor, so your participation is important to us. Your answers will be kept strictly confidential and your name will not be associated in anyway with your answers.

If you have any questions about this survey, please contact Lynne Caughlan at (970) 226-9384 or email lynne_caughlan@usgs.gov. Thanks again!

PAPERWORK REDUCTION ACT STATEMENT: A Federal agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Public burden for the collection of this information is estimated to average 15 minutes per response. Comments regarding this collection of information should be directed to: Desk Officer for the Interior Department, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503; and the Bureau Clearance Officer, U.S. Geological Survey, 208 National Center, Reston, Virginia 20192.

OMB Control Number : 1028-0077

Section 1 – Please tell us about your visit to Arrowwood National Wildlife Refuge.

1. Please check the activities you participated in during your **most recent trip** to Arrowwood National Wildlife Refuge. (*check all that apply*):

<input type="checkbox"/> Bird watching	<input type="checkbox"/> Bicycling/Mtn biking	<input type="checkbox"/> Fishing
<input type="checkbox"/> Picnicking	<input type="checkbox"/> Driving for pleasure	<input type="checkbox"/> Horseback riding
<input type="checkbox"/> Nature/Wildlife Viewing	<input type="checkbox"/> Wildlife Viewing Blind	<input type="checkbox"/> Environmental Education
<input type="checkbox"/> Photography	<input type="checkbox"/> Canoeing	<input type="checkbox"/> Deer Hunting
<input type="checkbox"/> Bison Viewing	<input type="checkbox"/> Hiking	<input type="checkbox"/> Upland Game Hunting
<input type="checkbox"/> Other, please describe _____		

- 1a. Which of the activities that you checked above was the most important reason for your visit?

Most Important Activity _____

2. When you visited Arrowwood National Wildlife Refuge was it:
(*check only one*):

- 2a. ☐ the primary purpose or sole destination of your trip?
2b. ☐ one of many equally important reasons or destinations for your trip?
2c. ☐ just an incidental or spur of the moment stop on a trip taken for other purposes or to other destinations?

3. What was your one way **travel time** and **travel distance** from home to Arrowwood National Wildlife Refuge on this most recent trip?

Travel time: _____ # hours _____ # minutes Distance: _____ # one-way miles

4. What was the amount of time you spent at Arrowwood National Wildlife Refuge on this most recent trip?

_____ # hours or _____ # days

5. Including yourself, what was the number of people in your group that traveled on this most recent trip?

_____ # of people in your group

6. How many times have you visited Arrowwood National Wildlife Refuge in the last 12 months? _____ # Trips

If you hunted on this most recent trip please answer the following questions, otherwise skip to Section 2.

7. How many years have you been hunting at Arrowwood National Wildlife Refuge? _____ # years
8. How many trips for the primary purpose of hunting are you planning on taking to Arrowwood National Wildlife Refuge during this hunting season?

_____ # Deer hunting trips this season _____ # Upland game hunting trips this season

9. What is the total number of hunting trips you plan to take to all other hunting sites this year?

_____ # Total trips to other sites this season

10. What was the primary type of weapon you used on this **most recent trip**?

(*check one*) ☐ Firearm ☐ Archery ☐ Muzzleloader

Section 2– Importance of Different Natural Resources for your Recreation at Arrowwood NWR

1. Please tell us how important the following activities are in terms of your decision to take recreation trips to Arrowwood National Wildlife Refuge during the year.

Please circle one number for each item	Importance for your recreation at Arrowwood NWR				
	Not Important	Somewhat Important	Important	Very Important	No Opinion
Viewing bison	1	2	3	4	<input type="checkbox"/>
Bird watching: water birds	1	2	3	4	<input type="checkbox"/>
Bird watching: land birds	1	2	3	4	<input type="checkbox"/>
Viewing grouse	1	2	3	4	<input type="checkbox"/>
Viewing other wildlife	1	2	3	4	<input type="checkbox"/>
Viewing scenery	1	2	3	4	<input type="checkbox"/>
Hunting deer	1	2	3	4	<input type="checkbox"/>
Hunting upland game	1	2	3	4	<input type="checkbox"/>
Hiking	1	2	3	4	<input type="checkbox"/>
Canoeing	1	2	3	4	<input type="checkbox"/>
Fishing	1	2	3	4	<input type="checkbox"/>
Horseback riding	1	2	3	4	<input type="checkbox"/>
Biking/mountain biking	1	2	3	4	<input type="checkbox"/>
Environmental education opportunities	1	2	3	4	<input type="checkbox"/>
Self guided interpretive signs	1	2	3	4	<input type="checkbox"/>
Wildlife photography opportunities	1	2	3	4	<input type="checkbox"/>
Other activities-Please list	1	2	3	4	<input type="checkbox"/>

2. There are several different types of land management areas at Arrowwood National Wildlife Refuge including the James River system, wooded areas, grasslands, and croplands. These different areas provide many biological and recreational benefits.

- 2a. How important are the following areas for your **recreational activities** at Arrowwood National Wildlife Refuge?

	Not Important	Somewhat Important	Important	Very Important	No Opinion
James River/ Wetland Systems	1	2	3	4	<input type="checkbox"/>
Wooded areas	1	2	3	4	<input type="checkbox"/>
Native grasslands	1	2	3	4	<input type="checkbox"/>
Planted/tame grasslands (Kentucky Bluegrass, Brome)	1	2	3	4	<input type="checkbox"/>
Agricultural croplands	1	2	3	4	<input type="checkbox"/>

2b. How important do you feel the following areas are for the **biological importance** of Arrowwood National Wildlife Refuge?

	Not Important	Somewhat Important	Important	Very Important	No Opinion
James River/ Wetland Systems	1	2	3	4	<input type="checkbox"/>
Wooded areas	1	2	3	4	<input type="checkbox"/>
Native grasslands	1	2	3	4	<input type="checkbox"/>
Planted/tame grasslands (Kentucky Bluegrass, Brome)	1	2	3	4	<input type="checkbox"/>
Agricultural croplands	1	2	3	4	<input type="checkbox"/>

2c. How important do you feel the following areas at Arrowwood National Wildlife Refuge are for the **local community/economy**?

	Not Important	Somewhat Important	Important	Very Important	No Opinion
James River/ Wetland Systems	1	2	3	4	<input type="checkbox"/>
Wooded areas	1	2	3	4	<input type="checkbox"/>
Native grasslands	1	2	3	4	<input type="checkbox"/>
Planted/tame grasslands (Kentucky Bluegrass, Brome)	1	2	3	4	<input type="checkbox"/>
Agricultural croplands	1	2	3	4	<input type="checkbox"/>

Section 3 – Trip Expenditures

1. Please indicate the amount you and members of your group with whom you shared expenses (e.g., other family members, traveling companions) spent on your most recent visit to Arrowwood National Wildlife Refuge (*please enter the amount for each category*)

Category	Amount Spent in Jamestown or Carrington Area	Amount Spent Elsewhere in North Dakota En Route to Arrowwood NWR
Gasoline/related automobile costs	\$ _____	\$ _____
Hotels/motels	\$ _____	\$ _____
Campground fees	\$ _____	\$ _____
Food/drink: restaurants	\$ _____	\$ _____
Food/drink: groceries	\$ _____	\$ _____
Supplies/souvenirs/other retail	\$ _____	\$ _____
Equipment rental	\$ _____	\$ _____
Hunting license	\$ _____	\$ _____
Taxidermy	\$ _____	\$ _____
Game Processing	\$ _____	\$ _____
Rental car	\$ _____	\$ _____
Airline ticket	\$ _____	\$ _____
Other: _____	\$ _____	\$ _____

2. Including yourself, how many people in your group shared these expenses on this most recent trip?

_____ # of persons in your group

Section 4 – We would like to know about the types of experiences you seek to have when visiting Arrowwood NWR.

1. This question has two parts. **First** rate how important the item is in contributing to your recreation satisfaction while at Arrowwood National Wildlife Refuge. **Then** rate how satisfied you are with the management of the refuge in providing each item.

	Importance					Satisfaction with Conditions					
	Not Important	Somewhat Important	Important	Very Important	Does not apply	Poor	Adequate	Average	Good	Outstanding	Does not apply
Access for people with disabilities	1	2	3	4	DA	1	2	3	4	5	DA
Trail information	1	2	3	4	DA	1	2	3	4	5	DA
Trailhead parking areas	1	2	3	4	DA	1	2	3	4	5	DA
New trail construction	1	2	3	4	DA	1	2	3	4	5	DA
Environmental education materials and programs	1	2	3	4	DA	1	2	3	4	5	DA
Presence of wildlife	1	2	3	4	DA	1	2	3	4	5	DA
Protection of wildlife	1	2	3	4	DA	1	2	3	4	5	DA
Presence of Livestock Grazing	1	2	3	4	DA	1	2	3	4	5	DA
Availability of maps	1	2	3	4	DA	1	2	3	4	5	DA
Limits on total number of visitors	1	2	3	4	DA	1	2	3	4	5	DA
Limits on types of visitor uses	1	2	3	4	DA	1	2	3	4	5	DA
Prescribed Burning	1	2	3	4	DA	1	2	3	4	5	DA

2. Please indicate how you feel the features listed below should be managed to maximize your experience at Arrowwood National Wildlife Refuge. *(Please check one answer for each feature)*

1. Naturalness	___ restore more natural conditions	___ leave as is	___ allow more landscape alterations
2. Facilities	___ remove some facilities	___ leave as is	___ develop additional facilities
3. Services	___ provide less visitor info & staff	___ leave as is	___ provide more visitor info & staff
4. Education	___ reduce programs and interpretation	___ leave as is	___ more programs & interpretation
5. Auto tour route	___ provide fewer roads	___ leave as is	___ increase the number of roads
6. Nature trails	___ provide fewer trails	___ leave as is	___ provide more trails
6. Hunting	___ provide fewer hunting areas	___ leave as is	___ provide more hunting areas
7. Fishing	___ provide fewer fishing areas	___ leave as is	___ provide more fishing areas
8. Visitor impacts	___ need a stronger "leave no trace" ethic	___ leave as is	___ evidence of other users not bothersome
9. Visitor numbers	___ restrict number of users in area	___ leave as is	___ encourage more use and interactions

3. Please indicate the extent to which each statement below describes your general feelings about Arrowwood National Wildlife Refuge (*circle the number that best describes how you feel about each statement*).

<i>Opinions about Arrowwood National Wildlife Refuge</i>	Strongly Agree	Agree	Not Sure	Disagree	Strongly Disagree
The value of the recreation opportunities and services I experienced here was what I expected them to be	1	2	3	4	5
Because of my experiences at this refuge I will definitely come back	1	2	3	4	5
I would consider paying a fee to visit this refuge	1	2	3	4	5
I get more satisfaction out of visiting this refuge than from visiting any other refuge	1	2	3	4	5
I would make personal sacrifices to protect this place	1	2	3	4	5
Next time I want a similar experience I would not come here	1	2	3	4	5
I should <i>not</i> have to pay a fee to visit this or any wildlife refuge	1	2	3	4	5

4. What would enhance your experience at Arrowwood National Wildlife Refuge? _____

5. What experience did you have at Arrowwood National Wildlife Refuge that would bring you back? _____

Section 5 - Citizen Participation

1. We are interested in the types of activities that refuge visitors participate in related to all types of natural resources. Please indicate which of these activities, if any, you have participated in within the past 12 months.

Participation	Yes	No
1. Attended a public hearing or meeting	<input type="checkbox"/>	<input type="checkbox"/>
2. Contacted or written a state/federal agency	<input type="checkbox"/>	<input type="checkbox"/>
3. Contacted or written a U.S. senator, member of congress, or state legislator	<input type="checkbox"/>	<input type="checkbox"/>
4. Written a letter to the editor of a newspaper	<input type="checkbox"/>	<input type="checkbox"/>
5. Joined a citizen advisory group	<input type="checkbox"/>	<input type="checkbox"/>
6. Volunteered for a federal or state land management agency	<input type="checkbox"/>	<input type="checkbox"/>
7. Signed a petition concerning natural resources or the environment	<input type="checkbox"/>	<input type="checkbox"/>
8. Volunteered for a special interest group (such as an environmental, sportsman's, animal rights, agriculture, or resource use organization)	<input type="checkbox"/>	<input type="checkbox"/>
9. Joined a special interest group (such as an environmental, sportsman's, animal rights, agriculture, or resource use organization)	<input type="checkbox"/>	<input type="checkbox"/>
10. ➡ If YES, Please list organization(s) _____		

2. Which of the following sources have you used to learn more about Arrowwood National Wildlife Refuge?

- | | |
|---|--|
| <input type="checkbox"/> Informational Kiosks | <input type="checkbox"/> Road signs |
| <input type="checkbox"/> Previous visits | <input type="checkbox"/> Television |
| <input type="checkbox"/> Friends/neighbors/relatives | <input type="checkbox"/> Books and articles |
| <input type="checkbox"/> Organizational meetings | <input type="checkbox"/> Local Chamber of Commerce |
| <input type="checkbox"/> Government/ Refuge Brochures | <input type="checkbox"/> Radio |
| <input type="checkbox"/> Newspapers | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> WWW or Internet | |

➤ If you answered yes to the newspaper source above, please list the single newspaper source you used the most: _____

➤ If you answered yes to the WWW or Internet source above, please list the single website source you used the most: _____

SECTION 6 – Please tell us something about yourself.

These last few questions will help us in evaluating how well our sample represents visitors to the area. **Your answers will be kept strictly confidential and will not be passed onto anyone. You will not be identified in anyway.**

1. Are you? _____ Male _____ Female

2. Age _____ Years

3. Are you employed? _____ Yes→ (check one) __ Full time __ Part time
_____ No→ Are you retired? __ Yes __ No

4. What is your zip code? _____

5. Your highest level of formal education? (Please circle one)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
(elementary)						(jr. high or middle)			(high school)			(college or technical school)			(graduate or professional school)				

6. How many members are in your household? _____ persons

7. Including these people, what was your approximate household income from all sources (before taxes) last year?

_____ less than \$10,000	_____ \$25,000-\$34,999	_____ \$75,000-\$99,999
_____ \$10,000-\$14,999	_____ \$35,000-\$49,999	_____ \$100,000-\$149,999
_____ \$15,000-\$24,999	_____ \$50,000-\$74,999	_____ over \$150,000

Comments?

Please write any comments you have about your visit to Arrowwood National Wildlife Refuge

The U.S. Fish and Wildlife Service manages National Wildlife Refuges on behalf of the American people. The Refuge provides habitat for waterfowl, migratory bird populations, and other resident wildlife and protects biodiversity and endangered/threatened species through restoration and maintenance of native vegetation. The Refuge also provides wildlife-oriented opportunities including hunting, wildlife observation and photography, interpretation, and environmental education.



U.S. Geological Survey
Fort Collins Science Center
2150 Centre Avenue, Bldg C
Fort Collins, CO 80526-8118

