

FWS/ARW-RF1

OCT 19 1987

Memorandum

To: Project Leader, Minnesota Valley NWR  
From: Regional Refuge Supervisor, RF1  
Subject: Disease Control and Contingency Plan

The plan has been approved as written. Please note the minor modifications that have been made within the text of the plan and the new title/approval page.

/s/ John W. Ellis

John W. Ellis

Attachment

RF2:RSchultz:mm:10/16/87:x3701

DISEASE CONTROL AND PREVENTION CHAPTER

Minnesota Valley National Wildlife Refuge  
Bloomington, Minnesota

Submitted by: Terry M. Schreiner Date: 9/29/87

Approved: Robert C. Foster Date: 10-6-87

## DISEASE CONTINGENCY PLAN

### Minnesota Valley National Wildlife Refuge

1987

#### I. Introduction

The affected environment chapter of the Minnesota Valley National Wildlife Refuge Master Plan contains a detailed description of the Refuge resources including soils, vegetation, geology and wildlife.

#### II. Disease Surveillance

Minnesota Valley National Wildlife Refuge does not have any known history of wildlife disease outbreaks. This may be due, to some degree, to the lack of major waterfowl concentrations using the refuge and the uniform interpersions of wetlands in the south central and southwest metro area. As management practices outlined in the Master Plan are implemented the migrating and breeding populations of waterfowl are expected to increase which will increase the possibility of disease outbreaks.

Early detection of disease outbreaks is an essential aspect of its control. Surveillance at all times while on patrol or on work projects is critical. Research conducted for the National Wildlife Health Center, Madison, Wisconsin indicates that the detection of even a few dead individuals should immediately raise concern that a large number of birds may have died.

When dead individuals have been found, contact will be made immediately with the Refuge Manager, who will then contact the following individuals:

- 1) National Wildlife Health Center  
Resource Health Team (608) 264-5422  
Madison, Wisconsin
- 2) Regional Disease Biologist  
(612) 725-~~3689~~ - Robert Foster  
3313
- 3) Regional Refuge Supervisor, RF-1  
(612) 725-4701 - John Ellis

While the refuge Manager is discussing the situation with the Health Center the collection of the birds will be done according to the instructions in Attachment 1. Shipment and destruction decisions will be implemented only with prior approval with the National Wildlife Health Center.

### III. Disease Response

#### A. Logistical Consideration

- 1) Personnel Sources (See attachment 2)
- 2) Equipment (See attachment 4)
- 3) Supply Sources (See attachment 5)
- 4) Lodging (See attachment 6)
- 5) Food - Many eating establishments are available in east Bloomington and the 494 Strip area. All are within an eight minute drive of the refuge headquarters. It is recommended that bag lunched be made or purchased and stored in the headquarters refridgerator to the lunch hour meal.
- 6) Identification of Work Areas
  - a. Clean Area - The refuge headquarters area will be considered a "clean" area. The office building has areas which con serve as command post, press/briefing room, eating areas, and staff congagation/rest areas. Parking is adequate for both private and government vehicles. The equipment is located in the shop yard which is within 100 yards of the office headquarters.
  - b. Transition Area - A decontamination site will be designated at an area near the major concentration site. A National Wildlife Health Center Van/trailer will be parked there, with facilities for washing employees, clothing, equipment and vehicles. This area will be closed to the public.
  - c. Contamination Area - The contamination area will also be near the disease center, between the main concentration area of dead wildlife and the transition area. This area will be the site of carcass disposal, laboratory investigations lab trailer, or animal holding (pens will need to be constructed).
  - d. Supplies - Supplies such as disinfectant, plastic bags, tubs, brushes, plastic gloves and other similar items can be purchased at outlets listed in attachment.

#### B. Biological Considerations

##### 1) Species Utilizing Refuge and Relative Abundance

Type	Species	Season and Abundance			
		Sp	Su	F	W
Endangered (US)	Peregrine Falcon	r		r	
Threatened (US)	Bald Eagle	u		u	o
	Double Crested Cormorant	c	c	c	
Waterfowl	Osprey	u		u	
	Tundra Swan	c		u	
	Canada Goose	c	c	c	u
	Snow Goose	c		c	
	White Fronted Goose	r		r	
	Ross' Goose				r
	Mallard	a	a	a	c
Blacks Duck	u	r	u		



Wood Duck	Mid April	Mid September
American Widgeon	Mid April	Early October
Pintail	Early April	Late September
Ring Necked Duck	Mid April	Late October
Lesser Scarp	Mid April	Late October
Bald Eagle	Mid March	Early November

### 3) Animal Movement Patterns

The only known movement pattern is early winter feeding patterns by mallards and Canada Geese from the open water of the Black Dog Plant toward the south southwest, mainly the corn fields between Jordan and Prior Lake.

The nesting Great Blue Herons from the Blue Lake Colony feed in the Upgrala and Wilkie Units.

### 4) Weather Patterns

Freeze up on the refuge lake marshes is usually mid-November. Skim ice usually forms around early November with 2 to 4 inches of ice on most lake marshes by the end of the month. Temperature and precipitation as well as climatological data can be found at the refuge headquarters in file 720.30.

### 5) Habitat and Population Manipulation Potential

The refuge currently has full water level control on eight wetlands totalling 665 acres with partial control on two additional marshes totalling 340 acres. There are another eight major marshes of approximately 3000 acres that do not have water control. The Master Plan recommends facilities to control water on most of the marshes in the near future. The pools with water control would be dewatered in the event of a disease outbreak. The pools without water control would be patrolled and use of shell crackers, propane exploders and boats would be employed to discourage use.

### 6) Past History of Disease

There is no known history of disease within the wildlife refuge.

### C. Communications

See attachment 3.

## SPECIMEN SHIPMENT

## National Wildlife Health Center

1. Call the Resource Health Team (608-264-5422, FTS-364-5422) to determine type and number of specimens needed, preservation of specimens during shipment, and when they should be shipped.
2. Label each carcass, double-bag it, and place in a styrofoam cooler lined with a plastic bag. Frozen carcasses generally do not require ice; they will remain frozen for up to 24 hours if the volume is large enough (i.e., six frozen mallards in one cooler will not require ice, but one frozen mallard will). Always use refrigerant with fresh specimens, or intersperse with frozen carcasses.
3. Blue ice packs are usually the best refrigerant to use. Block ice or cubes must be properly bagged to prevent leakage. When ice packs are used, intersperse them among specimens and fill in empty space in cooler with newspaper.
4. Close the plastic bag lining the cooler and seal the lid with strapping tape.
5. Tape specimen data sheet and history, contained in an envelope within a plastic bag, to the top of the cooler.
6. Place the styrofoam cooler in a cardboard box and seal with strapping tape.
7. Address cardboard box to:

National Wildlife Health Center  
6006 Schroeder Road  
Madison, Wisconsin 53711

Include return address on outside of box.
8. Write "Diagnostic Specimens (Wildlife)" on outside of cardboard box.
9. Ship on a carrier that can get the package to National Wildlife Health Center within 24 hours. Air freight or United States Postal Service Express mail are usually preferred; check prices. Overnight delivery services (DHL, Federal Express, Purolator, or Emery) can also be used, but may be significantly more expensive. *Regional aircraft is available*
10. Call the Resource Health Team with an airbill number, carrier used, and estimated time of arrival in Madison.

## Personnel Sources to Assist Clean-up

Upper Mississippi River National Fish and Wildlife Refuge  
51 East 4th Street, Room 101  
Winona, Minnesota 55987 Phone 507-452-4232  
All four districts

Northern Prairie Wildlife Research Center  
LaCrosse Field Station  
Post Office Box 2226  
LaCrosse, Wisconsin 54601 Phone 608-783-6451

Sherburne National Wildlife Refuge  
Route 2  
Zimmerman, Minnesota 55398 Phone 612-389-3323

Rice Lake National Wildlife Refuge  
Route 2, Box 67  
McGregor, Minnesota 55760 Phone 218-768-2402

Minnesota Department of Natural Resources  
Office of Area Biologist  
223 Holmes Street  
Shakopee, Minnesota Phone 612-445-9393

Minnesota Department of Natural Resources  
Law Enforcement Division  
Lexington Avenue  
St. Paul, Minnesota

## Communications

State Agencies

## 1. Minnesota Department of Natural Resources

Shakopee Area Wildlife Manager  
Jon Parker 612-445-9393

Area Director  
Roger Johnson 464-2810

Wildlife Disease Specialist, St. Paul  
Dr. Joe Marcino 612-296-9103

Federal Agencies

## 1. Minneapolis Center for Microbiological Investigators 349-3900 ?

Media

## 1. Newspapers

Sun Current  
7401 Bush Lake Road  
Edina, Minnesota 55435

St. Paul Dispatch and Press  
55 East 4th Street  
St. Paul, Minnesota 55101

Jordan Independent  
109 Rice Street South  
Jordan, Minnesota 55352

Minneapolis Star and Tribune  
425 Portland Avenue  
Minneapolis, Minnesota 55488

Outdoor News  
Post Office Box 27145  
Golden Valley, Minnesota 55427

Carver County Herald  
123 West 2nd Street  
Chaska, Minnesota 55318

Eden Prairie News  
8455 Flying Cloud Drive  
Eden Prairie, Minnesota 55344

2. Radio

KSMR Radio  
Post Office Box 66  
Shakopee, Minnesota 55379

HCHK Radio  
25821 Langford Aveune  
New Prague, Minnesota 56071

3. Television

WCCO - TV  
90 South 11th Street  
Minneapolis, Minnesota 55403

KARE - TV  
8811 Olson Memorial Highway  
Minneapolis, Minnesota 55427

KSTP - TV  
3415 University Aveune  
St. Paul, Minnesota 55114

KMSP - TV  
6975 York Avenue South  
Minneapolis, Minnesota 55435

## Logistical Requirements

## Equipment Sources

Item	Quantity	Location	Phone
<u>Vehicles</u>			
4 x 2 Pickup Truck	1	On Site	854-5900
4 x 4 Pickup Truck	2	On Site	854-5900
5 Ton Dump Truck	1	On Site	854-5900
Off Site		Carlos Avery Wildlife Area Roger Johnson	464-2810
Off Site		Sherburne National Wildlife Reguge Ron Papike	389-3323
Off Site		Litchfield Wetland Management District Kersel Baum ? <i>Matt Kerschbaum</i>	693-2849
<u>Heavy Equipment</u>			
John Deere 430A Dozer	1	On Site	854-5900
John Deere 230A Tractor	1	On Site	854-5900
Off Site	1	Sherburne National Wildlife Refuge	389-3323
450 John Deere Crawler Off Site Farm Tractor		Litchfield Wetland Management District	693-2849
<u>Boats</u>			
16' Canoe	3	On Site	854-5900
14' Jon Boat	1	On Site	854-5900
12' Jon Boat	1	On Site	854-5900
1 4hp Outboard	1	On Site	854-5900
Off Site Airboat	1	Rice Lake National Wildlife Refuge	768-2402
Off Site Airboat	1	Trempleau National Wildlife Refuge	539-2311
<u>Radios</u>			
Portables	5	On Site	854-5900
Mobiles High Band	5	On Site	854-5900
Off Site		Sherburne National Wildlife Refuge	389-3323
Off Site		Litchfield Wetland Management District	693-2849
<u>Incinerator</u>		City of St. Paul	
<u>Decontamination Sprayer</u>			



## Logistical Requirements - Supply Sources

Fluegel Elevator 14700 South Roberts Trail Box 4 Rosemount, Minnesota 55068	423-4212	
Hardware Hank 800 West 98th Street Bloomington, Minnesota 55420	888-1414	Blue Ice Packs Plastic Tubs Plastic Bags
Warner Industrial Supply, Inc. 2211 East Hennepin Avenue Minneapolis, Minnesota		Disinfectant Chemicals
Adams Products (Janitorial Supplies) 1107 East Cliff Road Burnsville, Minnesota	890-1191	Disinfectant Chemicals
On Site Shellcrackers		Survey Devices
Valley Oil (Carcass Burning) Highway 101 Shakopee, Minnesota		Fuel

## Hotels and Motels near the Headquarters and the Airport

Exel Inn 2701 East 78th Street	612/854-7200
Budgetel Motor Inn 7815 Nicollet Avenue South	612/881-7311
Rodeway Inn 1321 East 78th Street	612/854-3400
Marriott Hotel 1919 East 78th Street	612/854-7441
Ramada Inn 4200 West 78th Street	612/831-4200
Radisson Hotel South 7800 Normandale Boulevard	612/835-7800
The Inn 7640 Cedar Avenue South	612/861-4491
Holiday Inn - International Airport I-Hwy 494 and 34th Avenue South	612/854-9000
Holiday Inn - Airport South 1201 West 94th Street	612/884-8211
Sheraton Airport Inn 2525 East 78th Street	612/854-1771
Thunderbird Motel 2201 East 78th Street	612/854-3411
Radisson Hotel South 7800 Normandale Boulevard	612/835-7800