

QUARTERLY WILDLIFE MORTALITY REPORT

July 1990 to September 1990

LOCATION	STATE	DATES	SPECIES	MORTALITY	DIAGNOSIS	*REPORTED BY
<u>Atlantic Flyway</u>						
Baltimore County	MD	07/30/90-08/08/90	Mallard Mallard hybrid	100 (e)	Botulism type C	NW
Chestertown	MD	09/02/90-09/15/90	Muscovy Duck Mallard	16	Open	NW
Taylor's Island	MD	09/09/90-09/27/90	Mallard	1,800 (e)	Botulism type C	NW
Muscongus Bay	ME	08/02/90-08/04/90	Common Tern Spotted Sandpiper	3	Botulism type C	NW
Edwin B. Forsythe NWR	NJ	07/02/90-07/15/90	Laughing Gull	1,000 (e)	Open	NW
Dyer Island, Narragansett Bay	RI	07/30/90-08/20/90	Greater Black-backed Gull Herring Gull	100 (e)	Aspergillosis	NW
Moncks Corner	SC	06/09/90-06/30/90	Mallard	10 (e)	Toxicosis: ethylene glycol suspect	SEC
Gatlinburg	TN	09/13/90-09/13/90	Pine Siskin	250	Toxicosis suspect	SEC
Lake Champlain Islands	VT	07/10/90-08/15/90	Ring-billed Gull Herring Gull	3,500 (e)	Aspergillosis/salmonellosis	NW
<u>Mississippi Flyway</u>						
Salem	IA	07/07/90-07/08/90	Purple Martin Eastern Bluebird	30 (e)	Open; toxicosis suspect	NW
Tama Co.	IA	07/07/90-07/07/90	Common Grackle Downy Woodpecker Chipping Sparrow American Robin	4 (e)	Open; toxicosis suspect	NW
Waukegon	IL	07/23/90-08/14/90	Mallard	13	Botulism suspect	IL
Chicago	IL	08/15/90-08/27/90	Mallard	145 (e)	Botulism type C	NW
Chicago	IL	08/23/90-09/20/90	Mallard Wood Duck	40 (e)	Botulism type C	NW
Niles	IL	09/01/90-09/17/90	Mute Swan Mallard	20 (e)	Botulism type C	NW
Aurora, Fox Valley Park	IL	08/27/90-09/21/90	Mallard	36	Botulism type C	NW

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<u>Mississippi Flyway cont.</u>						
Kankakee	IL	09/20/90-10/14/90	Mallard Hybrid Duck	39 (e)	Botulism type C	NW
Downers Grove	IL	07/21/90-09/21/90	Mallard	9	Botulism suspect	IL
Des Plaines	IL	09/19/90-09/20/90	Mallard	3	Botulism suspect	IL
Des Plaines, Lake O'Peka	IL	08/27/90-08/31/90	Mallard	75	Botulism suspect	IL
Schaumburg	IL	08/16/90-08/27/90	Mallard Canada Goose	10	Botulism suspect	IL
Glenview, Glenbrook Hospital	IL	09/10/90-09/23/90	Mallard	33	Botulism suspect	IL
Chicago, Indian Boundary Park	IL	09/10/90-09/29/90	Mallard	15	Botulism suspect	IL
Hubbell, Torch Lake	MI	07/01/90-07/23/90	Herring Gull Ring-billed Gull	100 (e)	Botulism type C	NW
Minneapolis, Loring Park Lake	MN	07/19/90-07/25/90	Mallard	10	Botulism type C	NW
Lac qui Parle WMA	MN	08/28/90-10/19/90	American White Pelican Ruddy Turnstone	200	Open	NW
Yazoo NWR	MS	07/25/90-07/26/90	Cattle Egret Great Blue Heron Little Blue Heron	1,000 (e)	Toxicosis suspect	NW
Toledo	OH	07/12/90-07/15/90	Purple Martin House Sparrow	500 (e)	Toxicosis suspect	NW
Gallipolis	OH	08/04/90-08/05/90	Common Grackle Mourning Dove Unidentified Pigeon Unidentified Bat	200 (e)	Toxicosis: organophosphorus compd. suspect	NW
Lorain	OH	08/13/90-08/31/90	Mallard Mallard hybrid	40 (e)	Botulism type C	NW
Columbus	OH	08/23/90-09/12/90	Mourning Dove	12 (e)	Trichomoniasis suspect	NW
Independence, Elmwood Park	OH	08/12/90-08/15/90	Mallard Canada Goose	23	Botulism type C	IL
Chattanooga	TN	09/14/90-09/14/90	House Finch	4	Avian pox suspect	IL
Ashland	WI	07/10/90-07/10/90	Common Tern	300 (e)	Open	NW

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<u>Mississippi Flyway cont.</u>						
Camp Douglas	WI	07/18/90-07/19/90	Canada Goose	15 (e)	Toxicosis: diazinon	WAHL
Fond du Lac	WI	08/15/90-09/07/90	Mallard	160 (e)	Botulism type C	NW
Madison	WI	08/22/90-08/22/90	Unidentified Warbler	60 (e)	Trauma: tower strike	NW
Beaver Dam	WI	08/22/90-08/30/90	Ring-billed Gull	15	Aspergillosis	NW
Manitowoc	WI	09/08/90-09/18/90	Double-crested Cormorant	200	Trauma: power plant intake pipes	NW
Horicon NWR	WI	09/21/90-10/09/90	Green-winged Teal Mallard Blue-winged Teal American Wigeon Wood Duck	263	Botulism type C	NW
<u>Central Flyway</u>						
Central Canadian Provinces	ALB SASK MAN	08/01/90-09/15/90	Double-crested Cormorant American White Pelican Ring-billed Gull California Gull	7,200 (e)	Newcastle Disease	SASK
Greeley, Latham Reservoir	CO	09/20/90-10/09/90	Mallard Northern Shoveler Green-winged Teal American Coot American Wigeon	7,000 (e)	Botulism type C	NW
Marais des Cygnes WMA	KS	07/11/90-07/18/90	Canada Goose	11	Open	NW
Bowdoin NWR	MT	07/09/90-10/04/90	Eared Grebe American Wigeon Mallard Green-winged Teal Blue-winged Teal	597	Botulism type C	NW
Malta	MT	06/21/90-06/21/90	American Robin Western Kingbird Western Meadowlark American Goldfinch Common Grackle	11	Open/trauma	NW
Devil's Lake WMD	ND	07/12/90-08/10/90	Mallard Green-winged Teal Blue-winged Teal Gadwall Unidentified Duckling	37	Botulism type C	NW

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<u>Central Flyway cont.</u>						
Long Lake NWR	ND	07/25/90-09/21/90	Blue-winged Teal Green-winged Teal Mallard Northern Shoveler Gadwall	500 (e)	Botulism type C	NW
Grand Forks	ND	09/13/90-09/17/90	Northern Shoveler Green-winged Teal Blue-winged Teal American Coot American Wigeon	172 (e)	Botulism type C	NW
Oklahoma City, Wood Lake	OK	07/15/90-08/07/90	Mallard Hybrid Duck Pekin Duck Wood Duck	30 (e)	Botulism type C	OK
Oklahoma City Municipal Park	OK	07/15/90-08/07/90	Mallard Hybrid Duck	30 (e)	Botulism type C	OK
LaCreek NWR	SD	07/23/90-08/01/90	Mallard Blue-winged Teal Northern Shoveler Canada Goose American White Pelican	49	Botulism type C	NW
Thompson Lake	SD	08/20/90-09/10/90	Green-winged Teal Blue-winged Teal Unidentified Duck Unidentified Shorebird	2,500 (e)	Botulism type C	SD
Spring Lake	SD	09/17/90-10/20/90	Green-winged Teal Mallard Unidentified Duck	12,500	Botulism type C	NW
Cheyenne	SD	09/10/90-09/10/90	House Sparrow	120 (e)	Open	NW
Lake Lewisville	TX	06/15/90-08/21/90	Mallard Hybrid Duck	15 (e)	Suspect botulism	NW
<u>Pacific Flyway</u>						
Cape Yakataga	AK	08/10/90-09/28/90	White-winged Scoter Surf Scoter	5,000 (e)	Emaciation	NW

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LOCATION	STATE	DATES	SPECIES	MORTALITY	DIAGNOSIS	*REPORTED BY
<u>Pacific Flyway cont.</u>						
Klamath Basin NWR	CA	08/03/90-09/30/90	Mallard Gadwall Northern Pintail Green-winged Teal	4,049	Botulism type C	NW
San Diego	CA	08/20/90-09/30/90	Western Gull Ring-billed Gull Black-necked Stilt Western Phalarope Western Sandpiper	25 (e)	Open	NW
Delevan NWR	CA	09/18/90-11/10/90	Mallard Northern Pintail Northern Shoveler American Wigeon Unidentified Duck	800 (e)	Botulism type C	NW
Kilauea Point NWR	HI	07/02/90-08/15/90	Koloa Duck Hawaiian Coot Hawaiian Stilt	40 (e)	Botulism type C	NW
Dover	ID	08/09/90-08/09/90	Pine Siskin	6 (e)	Salmonellosis	NW
Deer Flat NWR	ID	09/01/90-11/01/90	Mallard Northern Pintail Unidentified Gull	150 (e)	Aspergillosis	NW
Puerto Pinasco, Sea of Cortez	Mex	07/01/90-ongoing	Brown Pelican	1,500 (e)	Open	NW
Stillwater WMA	NV	07/15/90-09/27/90	Mallard Redhead American Avocet Northern Pintail California Gull	836	Botulism type C	NW
Provo Bay	UT	06/25/90-09/01/90	California Gull American White Pelican Green-winged Teal White-faced Ibis	300 (e)	Botulism type C	NW
Salt Lake City	UT	07/15/90-08/17/90	Mallard Unidentified Swan Unidentified Goose	135 (e)	Botulism type C	NW
Harold Crane WMA	UT	08/06/90-10/06/90	American Avocet Black-necked Stilt Green-winged Teal Northern Shoveler Northern Pintail	6,000 (e)	Botulism type C	NW

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<u>Pacific Flyway cont.</u>						
Howard Slough WMA	UT	08/17/90-10/06/90	Green-winged Teal Northern Pintail Cinnamon Teal Northern Shoveler Unidentified Duck	4,500 (e)	Botulism type C	UT
Ogden Bay WMA	UT	08/17/90-10/06/90	Green-winged Teal Northern Pintail Cinnamon Teal Northern Shoveler Unidentified Shorebird	15,000 (e)	Botulism type C	UT
Bear River MBR	UT	08/10/90-10/10/90	Green-winged Teal Unidentified Duck Unidentified Goose	24,000 (e)	Botulism type C	NW

(e) = estimated mortality

*National Wildlife Health Research Center (NW); Southeastern Cooperative Wildlife Disease Study (SEC); Illinois Department of Conservation (IL); Wisconsin Animal Health Laboratory (WAHL); University of Saskatchewan Department of Veterinary Pathology (SASK); Oklahoma Animal Disease Diagnostic Laboratory (OK); South Dakota State University Animal Disease Research and Diagnostic Laboratory (SD); Utah Division of Wildlife Resources (UT).

Compiled and prepared by Gregory Kidd, NWHRC. For specific information on these mortalities contact the following NWHRC Resource Health Team Members: Pacific Flyway, Charlotte Quist; Central Flyway, Linda Glaser; Mississippi and Atlantic Flyways, Kathryn Converse; Endangered Species and Legal Cases, Ron Windingstad. 608-271-4640 FTS-364-5411 National Wildlife Health Research Center, 6006 Schroeder Rd., Madison, WI 53711

Quarterly Wildlife Mortality Report. The following highlights wildlife mortality reported to the National Wildlife Health Research Center (NWHRC) for July to September 1990.

Of the 70 reports NWHRC received, botulism accounted for 60%. In Hawaii, Koloa ducks, Hawaiian coots and a Hawaiian stilt (all endangered species) were found dead on Kilauea Point NWR. This is the first confirmed outbreak of botulism on the Islands. In northern California, the Klamath Basin reported losses of 4,049 ducks out of a population of 800,000. In Utah, 50,000 birds were lost to botulism in the Great Salt Lake Basin including 24,000 at Bear River Migratory Bird Refuge as the Salt Lake receded off the marshes for the first time in five years. Colorado experienced their first outbreak of botulism in the wild at the Latham Reservoir near Greeley where they lost an estimated 7,000 ducks. Spring Lake, South Dakota lost an estimated 12,500 birds in the state's largest botulism outbreak in recent history. Although North Dakota was still experiencing the drought, the state had relatively low botulism mortality this year, the largest die-off occurred near Long Lake NWR and involved only 500 birds. Maryland continued to have botulism problems causing small numbers of losses, the largest of which involved 1,800 pen-reared mallards near Taylor's Island.

Aspergillosis and Salmonellosis were diagnosed in gulls from Lake Champlain, Vermont. Although these two disease agents were isolated, it is uncertain whether they are responsible for the death of the entire 3,000. Originally thought to be botulism, aspergillosis was also the cause of death for 75 birds, mostly mallards, at Deer Flats NWR, Idaho.

Losses of birds were reported on three nesting colonies. For the second year in a row, a laughing gull colony at Edwin J. Forsythe NWR, New Jersey has lost an estimated 1,000 gulls. The carcasses were too decomposed for a diagnostic workup. Approximately 300 banded common tern chicks died on a nesting colony island off Ashland, Wisconsin and Yazoo NWR, Mississippi, reported mortality of an estimated 1,000 birds, primarily nestlings, in a colony of Cattle egrets and Great and Little Blue Herons. Unfortunately, carcasses were also unsuitable for diagnostic evaluation.

A die-off of 5,000 scoters was reported off the coast of Alaska between Cape Yakataga and Cape Suckling. Preliminary findings indicate emaciation but contaminant analysis is being pursued.

Two epizootics have been reported to the Center that occurred outside the United States. Newcastle disease killed an estimated 6,500 cormorants and 300 white pelicans and gulls in central Canada. Agriculture Canada confirmed the identity of the virus. The other international epizootic involved an estimated 2,000 brown pelicans along the west coast of Mexico. No birds have been submitted for diagnostics.

An estimated 1,000 teal died on Thompson Lake in South Dakota. Tests have been inconclusive thus far and although no large accumulations of algae were noted, algal toxicosis is now being considered.

Over 200 double-crested cormorants were sucked into intake pipes for the Two Rivers Wisconsin Electric power plant in Manitowoc. Efforts to haze the increased population of cormorants from the area have not been successful.

Since late August, Lac Qui Parle Refuge in Minnesota has lost over 200 pelicans (all young of the year) from a population of 7,000. No cause of death has yet been determined.