

QUARTERLY DIE-OFF REPORT
 January 1987 - March 1987
 National Wildlife Health Center

Location	Date	Principal species	Mortality	Principal cause of mortality
Merced NWR, CA	01/26/87 - 03/17/87	Goose: Snow, Ross', White-fronted Pintail	104	Avian cholera
Layfayette Park, DC	- 12/26/86	Squirrel: gray	5	Trauma-intraspecies Secondary Septicemia
Sequoia NWR, OK	11/26/86 - 12/08/86	Goose: Snow	16	Toxin:suspect
Colusa NWR, CA	12/02/86 - 01/09/87	Goose: Snow, Ross'	138	Avian cholera
Sac Wilcox WMA, NE	12/04/86 - 12/25/86	Goose: Snow	58	Avian Cholera
Lee Co., FL	12/31/86 - 01/08/87	Tern, Gull, Cormorant	12	Emaciation (many causes)
Kesterson Reservoir, CA	01/04/87 - 01/28/87	Coot Ruddy duck	75	Avian cholera Selenium suspect
Lakin, KS	01/08/87 - 01/12/87	Sparrow: Vesper	275 (e)	Trauma
Mallard Haven, NE	01/09/87 - 01/15/87	Goose: Snow	153	Avian cholera
Kern NWR area, CA	01/09/87 - 01/31/87	Shoveler, Ruddy duck Coot	150	Avian cholera
Modesto, CA	01/12/87 - 01/31/87	Ruddy duck, Coot Goose: Aleutian Canada	650 (e)	Avian cholera
Union County, Horseshoe Lake, IL	01/13/87 - 02/20/87	Goose: Canada	373	Avian cholera
Delta County, CO	- 01/14/87	Blackbird: Red-winged Junco, Sparrow Hawk: Cooper's	41	Toxin: suspect
Salton Sea NWR, CA	01/20/87 - 03/10/87	Ruddy duck Grebe: Eared	500 (e)	Avian cholera ¹

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San Bernard NWR, TX	01/20/87 - 01/27/87	Goose: Snow	145	Avian cholera
Kesterson, NWR, CA	01/04/87 - 02/05/87	Coot Ruddy duck	3	Avian cholera
Near Marblehead, OH	01/28/87 - 02/18/87	Mallard, Black duck	40 (e)	Toxin: suspect
Winous Point, OH Sandusky Bay, OH	01/28/87 - 02/15/87	Mallard, Black duck	150 (e)	Lead Poisoning
Ottawa River, OH	02/05/87 - 02/20/87	Mallard, Black duck	40 (e)	Toxin: suspect
Grasslands, CA	02/07/87 - 02/14/87	Goose: Snow, Aleutian Canada Coot, Pintail	94	Avian Cholera Lead Poisoning
Riverton WMA, IA	02/11/87 - 02/20/87	Goose: Snow	17	Avian cholera suspect ¹
Doctor's Pond, CA	02/13/87 - 02/21/87	Goose: Aleutian Canada, Canada, Cackling Canada Ruddy duck	7	Avian cholera Lead Poisoning
Cedar Key, FL	02/17/87 - ongoing	Loon: common	55 (e)	Toxin: suspect
National Elk NWR, WY	02/15/87 - 04/07/87	Elk	12	Pasteurellosis
Mud Lake, MN	02/18/87 - 03/06/87	Mallard, Goose: Canada	100 (e)	Lead Poisoning
West Salem, OR	- 02/20/87	Goose: Canada	12	Toxin: suspect
Rainwater Basin, NE	02/25/87 - ongoing	Goose: Snow, Canada, White-fronted Mallard, Pintail	1100	Avian cholera Lead poisoning Toxin: suspect, Storms
Alamosa NWR, CO	01/29/87 - 02/03/87	Mallard, Goose: Canada	27	Avian cholera
Tulelake NWR, CA	03/04/87 - ongoing	Goose: Snow Gull: Ring-billed	759	Avian cholera Aspergillosis
Davis, CA	03/04/87 - 03/12/87	Muscovy	10	Duck virus enteritis

Location	Date	Principal species	Mortality	Principal cause of mortality
Frito, CO	- 03/04/87	Blackbird: Red-winged	5	Toxin: suspect
Wheeler, AL	- 03/17/87	Heron: Great blue	13	Enteritis, verminous peritonitis
Market Lake WMA, ID	03/17/87 - 03/19/87	Goose: Snow	12	Avian cholera
Arden, NC	- 03/14/87	Finch, Grosbeak	25	Salmonella: suspect ¹
Malheur NWR, OR	03/10/87 - 04/10/87	Goose: white, Swan: Tundra	30	Avian cholera ¹
Millers Island WMA, CA	- 02/01/87	Goose: Cackling Canada, White-fronted	3	Avian cholera
<u>Update*</u>				
Sacramento NWR, CA	11/17/86 - 02/28/87	Goose: Snow, Ross', White-fronted, Pintail	1262	Avian cholera

(e) = estimated mortality

1/ = no carcasses submitted

* = final mortality information, from cases ongoing last quarter

For specific information, contact the following Resource Health Team members: Pacific Flyway - Kathryn Converse, Central Flyway - Ronald Windingstad, Mississippi Flyway - Chris Franson, Atlantic Flyway - Tom Roffe.

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National Wildlife Health Center Quarterly Mortality Report. The following summarizes bird mortalities reported by NWHC for January-March 1987.

NWHC received reports of 36 wildlife disease die-offs; primary causes of mortality were avian cholera (56%), and known or suspected exposure to toxic agents (25%).

A total of 200 mallards and black ducks died at three locations in Ohio's Sandusky Bay during January and February. Lead poisoning was responsible for mortality at one location; no diagnosis has been reached for the other cases. FWS Environmental Contaminants staff are conducting analyses on tissues in an effort to determine if any toxins are present.

An unprecedented loss of 43 Aleutian Canada geese to avian cholera occurred in the San Joaquin Valley of California during February. An initial mortality of 28 geese occurred on Modesto oxidation ponds; following hazing of Aleutians from these ponds, an additional 15 geese were picked up in the north grasslands and at a private pond in Modesto. It is not known if avian cholera losses were occurring on these areas prior to use by these geese. Other causes of mortality in Aleutian geese picked up during this epizootic were lead poisoning (4), and traumatic injuries (4).

Ten of 150 park ducks (muscovies, pekings, and domestic mallards) that reside on a creek on the University of California campus at Davis, died of Duck Plague during early March. Because this creek is used by migrating populations of ducks the remaining resident ducks were euthanized and the site decontaminated.

Sudden loss of 1500 waterbirds on the Carson Sink area of Stillwater WMA, Fallon Nevada, concurrent with loss of seven million Lahontan Tui Chub, sparked a lengthy investigation of this area. Avian cholera and traumatic injuries were the causes of death in the birds; the first record of avian cholera mortality at Stillwater. Investigation into the cause of mortality in the fish is continuing; intolerance to increasing salinity levels in receding water is suspected.