

QUARTERLY DIE-OFF REPORT  
January-March 1984  
National Wildlife Health Laboratory

Location	Date	Principal Species	Mortality*	Principal cause of mortality
Klamath Basin NWRs, CA	9/02-3/31	Waterfowl	1,950(e)	Avian cholera
Sacramento NWR, CA	Sep - Mar	Waterfowl	15,489(m)	Lead poisoning Botulism C Avian cholera
Monte Vista NWR, CO	12/01-3/05	Waterfowl	500(m)	Avian cholera
		Sandhill cranes	65(m)	
S. San Joaquin Valley, CA	12/02-3/31	Waterfowl	16,715(m)	Avian cholera
Delevan NWR, CA	12/15-3/31	Waterfowl	736(m)	Avian cholera
Mattamuskeet NWR, NC	Dec - Feb	Whistling swans	200(e)	Lead poisoning
Playa Lakes, TX	1/01-3/31	Waterfowl	1,000(e)	Avian cholera
Lake Charles, LA	1/04	Snow geese	25(m)	Visceral gout
Raleigh, NC	1/05-2/17	Gulls	70(e)	Suspect fertilizer toxicity
Eel River, CA	1/07-1/10	Whistling swans	130(m)	Unknown
Westmont, IL	1/09	Mallards	60(m)	Unknown <sup>1</sup>
Sabine NWR, LA	1/09-1/15	Snow geese	30(m)	Lead poisoning
Cedar Run, PA	1/10	Mallards	60(m)	Unknown
Morehouse Parish, LA	1/07	Ruddy ducks	25(m)	Emaciation
Apalachicola Bay, FL	1/11	Brown pelicans	200 affected	Frostbite/ Starvation
St. Augustine, FL	1/12	Brown pelicans	38(m)	Unknown <sup>1</sup>
Sutter NWR, CA	1/12	Waterfowl	6,532(m)	Avian cholera Botulism C Lead poisoning
Sequoyah NWR, OK	1/14	Snow geese	30(m)	Suspect toxicity
Essexville, MI	1/16	Waterfowl	9(m)	Unknown
Kansas City, KS	1/16	Waterfowl	135(m)	Unknown <sup>1</sup>
Mapes Ranch, CA	1/17	Waterfowl	174(m)	Avian cholera
Chesapeake Bay, MD	1/18	Whistling swans	50(m)	Hemorrhagic enteritis
Milan, IL	1/20	Mallards	190(m)	Diazinon (Organophosphate)
Nason, IL	1/24	Passerines	200-300(e)	Organophosphate
San Luis NWR complex, CA	1/26	Waterfowl	15,683(m)	Avian cholera
Wertheim NWR, NY	1/27	Brant	15(m)	Unknown <sup>1</sup>
Hagerman NWR, ID	2/02	Mallards	24(e)	Unknown <sup>1</sup>
Laguna Madre, TX	2/10	Waterfowl	137(m)	Unknown <sup>1</sup>
Kilauea NWR, HI	2/11-2/12	Laysan albatross	6(m)	Pneumonia, Suspect enterotoxemia
Rainwater Basin, NE	2/14-4/17	Waterfowl	1,769(m) 8,800(e)	Avian cholera
Kern NWR, CA	2/21-3/01	Waterfowl	100(e)	Avian cholera
Malheur NWR, OR	2/27-3/31	Waterfowl	375(m)	Avian cholera
Ruby Lake NWR, NV	2/23-3/15	Waterfowl	24(m)	Starvation
Stillwater WMA, NV	Feb - Mar	Muskrats	150-250(e)	Tularemia
Graylodge WMA, CA	Feb - Mar	Waterfowl	250(m)	Avian cholera <sup>2</sup>
Bellevue, IA	3/20-4/03	Bald eagles	5(m)	Fenthion (Organophosphate)
Coastal WA	3/27	Seabirds	unk.	Oil spill

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<u>Additions:</u>				
Chestnut Lake, OH	9/26/83	Canada geese	14(m)	Hemorrhagic enteritis <sup>3</sup>
Bellevue, WA	10/29/83	Waterfowl	30(m)	Diazinon (Organophosphate)
National Elk Refuge, WY	Dec - Mar	Elk	200(m)	Suspect starvation
Elkins, WV	12/26/83	Mourning doves	17(m)	Starvation

\*m = minimum mortality  
e = estimated mortality

<sup>1</sup> Carcasses not examined.

<sup>2</sup> Source of information: California Dept. of Fish and Game.

<sup>3</sup> Source of information: Ohio Division of Wildlife.

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