

6-MONTH DIE-OFF REPORT  
 October 1981 - March 1982  
 National Wildlife Health Laboratory

Location	Date	Principal species	Mortality*	Principal cause of mortality
San Francisco Bay area, CA	7/12-10/26	Waterfowl, shorebirds	800 (m)	Botulism C
Horicon NWR, WI	7/21-10/15	Ducks, coots	4,100 (m)	Botulism C
Klamath Basin NWRs, CA	7/28-10/02	Waterfowl, shorebirds	11,685 (m)	Botulism C
Sacramento NWR, CA	8/10-11/14	Waterfowl, shorebirds	175 (m)	Botulism C
Stillwater WMA, NY	8/24-10/10	Waterfowl, shorebirds	350 (m)	Botulism C
Delavan NWR, CA	9/09-11/02	Waterfowl, shorebirds	45 (m)	Botulism C
Sutter NWR, CA	9/22-10/23	Waterfowl	15 (m)	Botulism C
Columbus, OH	10/13	Canada geese, ducks mourning doves, passerines	152 (m)	Dasanit (Carbamate) poisoning
Bosque del Apache NWR, NM	10/20	Ducks, coots	50 (m)	Botulism C
Colusa NWR, CA	10/21	Waterfowl	10 (m)	Botulism C
Klamath Basin NWRs, CA	10/20-cont.	Waterfowl	1,850 (m)	Avian cholera
Avoca Island, LA	10/23-11/05	Ducks, shorebirds	1,200-1,500 (m)	Botulism C
Walla Walla, WA	10/26	Mallard crosses	25 (m)	Aspergillosis
Hagerman NWR, TX	10/26-11/04	Franklin's gulls	300 (m)	Suspect aflatoxicosis
Cook County, IL	11/03-11/05	Common loons, gulls	71 (m)	Botulism E and C
Delavan NWR, CA	11/17-02/18	Waterfowl	730 (m)	Avian cholera
Sutter NWR, CA	11/22-11/23	Waterfowl	225 (m)	Unknown
Sacramento NWR, CA	11/24-02/18	Waterfowl	670 (m)	Avian cholera
Squaw Creek NWR, MO	11/30-12/03	Snow geese	100 (m)	Lead poisoning
Plattsmouth, NE	12/01-12/14	Snow geese	150 (e)	Lead poisoning
			25 (e)	Avian cholera
Savannah, GA	12/03	Ducks, gulls, shorebirds	50 (m)	Pending
Hunter, AR	12/10	Ducks	300 (m)	Lead poisoning
Bitter Lake NWR, NM	12/24-12/31	Sandhill cranes	60 (m)	Pending
Okanogan Co., WA	Dec - Jan	Coots	Unknown	Undetermined
Sacramento-San Joaquin Delta, CA	12/01-02/07	Waterfowl	650 (m)	Avian cholera <sup>a</sup>
Padre Island, TX	12/03 <sup>b</sup>	Common loons	10 (m)	Pending
Butte Sink, CA	12/07-02/18	Waterfowl	25 (m)	Avian cholera
Colusa NWR, CA	12/08-02/18	Waterfowl	125 (m)	Avian cholera

## 6-MONTH DIE-OFF REPORT (cont.)

Location	Date	Principal species	Mortality*	Principal cause of mortality
Sacramento San Joaquin Valley	12/11-01/11	Whistling swans	60 (m)	Lead poisoning <sup>a</sup>
Upper Mississippi NWR, WI	12/17 <sup>b</sup>	Canada geese	6 (m)	Lead poisoning
Bitter Lake NWR, NM	12/24-12/31 <sup>b</sup>	Sandhill cranes	60 (m)	Undetermined
Back Bay NWR, VA	12/29-01/02	Snow geese	6 (m)	Visceral gout
Milwaukee, WI	Jan	House sparrows	Unknown	Salmonellosis
Glasgow, MT	Jan	Mallards	500-1,000 (e)	Starvation
Playa Lakes, TX	Jan-Mar	Waterfowl	1,500 (e)	Avian cholera
Bosque del Apache NWR, NM	1/12-02/12	Snow geese	225 (m)	Avian cholera
Southport, NC	1/17-01/26	Brown pelicans	8 (m)	Pending
New Bern, NC	1/25-02/09	Brown pelicans	20 (m)	Pending
Sutter NWR, CA	2/01-02/18	Waterfowl	550 (m)	Avian cholera
Lewiston, ID	2/01-02/09	Mallards	200-250 (e)	Pesticide poisoning (Baytex)
Monte Vista NWR, CO	2/02	Mallards, Canada geese	5 (m)	Avian cholera
Great Salt Lake, UT	2/05	Shovelers	300 (m)	Starvation
Boardman, OR	2/13	Mallards	725 (m)	Lead poisoning
Gaines Co., TX	2/17	Sandhill cranes	450 (m)	Suspect mycotoxicosis
Rainwater Basin, NE	3/01-04/06	Waterfowl	11,977 (m)	Avian cholera
Southeast CO	3/01-04/05	Snow geese, ducks	170 (m)	Avian cholera <sup>c</sup>
Newport, OR	3/27-04/06	Herring gulls	200 (e)	Pending

\*m = minimum mortality

e = estimated mortality

<sup>a</sup> Source of information: California Dept. of Fish and Game, Sacramento, CA.<sup>b</sup> Reported during Jan-Mar interval<sup>c</sup> Source of information: Colorado Div. of Wildlife, Ft. Collins.