

Appendix 1. Seasonal abundances of sea ducks estimated during aerial surveys (Lower Great Lakes Migrant Waterfowl Survey [LGLMWS], Mid-Winter Survey [MWS]; raw data with visual correction factors applied) or counted during ground-based surveys (Christmas Bird Count [CBC]; no visual correction factors applied) undertaken within the **Central Lake Erie, Long Point Bay** Key Site between 1997 and 2018.

Survey	Season	Year	Total	LTDU	BUFF	COGO	HOME	COME	RBME	BLSC	SUSC	WWSC
LGLMWS	Spring	1999	3,918	21	156	1,058	14	2,607	62	0	0	0
		2001	8,534	0	3,410	2,208	0	2,916	0	0	0	0
		2009	2,993	0	313	1,299	196	367	818	0	0	0
		2010	16,907	21	4,544	2,792	0	5,158	4,392	0	0	0
		Max:	16,907	21	4,544	2,792	196	5,158	4,392	0	0	0
		Avg:	8,088	10	2,106	1,839	53	2,762	1,318	0	0	0
		%:		0.00	0.26	0.23	0.01	0.34	0.16	0.00	0.00	0.00
CMMN - DET	Spring	1997	883	125	116	22	6	66	486	0	18	44
		1998	1,891	200	64	12	3	40	1,343	0	25	204
		1999	1,102	65	125	4	3	26	490	2	68	319
		2000	2,206	700	55	20	0	187	1,187	17	20	20
		2001	2,767	1200	80	35	10	62	1,297	5	3	75
		2002	788	38	25	3	5	14	152	26	86	438
		2003	1,199	46	18	3	8	17	1,063	5	8	31
		2004	2,040	36	12	4	0	52	1,833	4	93	6
		2005	2,886	216	17	30	9	112	2,309	14	108	72
		2006	4,346	110	40	19	2	23	4,086	10	35	21
		2007	16,503	1635	135	17	1	92	14,520	5	68	30
		2008	750	8	14	8	2	26	589	15	25	63
		2009	4,400	360	37	10	2	1,084	2,619	44	151	93
		2010	1,220	55	30	10	2	36	1,028	4	30	25
		2011	1,512	112	42	42	3	278	944	3	47	41
		2012	789	7	27	0	1	23	531	3	75	122
		2013	2,528	141	27	2	2	80	2,064	4	73	135
2014	4,728	1500	146	38	5	131	1,906	44	808	151		
2015	3,149	2131	88	79	5	80	479	38	128	121		
2016	1,007	79	48	13	5	70	528	1	63	200		
2017	3,050	136	40	7	6	50	2,347	19	168	277		
		Max:	16,503	2,131	146	79	10	1,084	14,520	44	808	438
		Avg:	2,845	424	56	18	4	121	1,991	13	100	118
		%:		0.15	0.02	0.01	0.00	0.04	0.70	0.00	0.04	0.04

Appendix 1 – Central Lake Erie, Long Point Bay (cont.)

Survey	Season	Year	Total	LTDU	BUFF	COGO	HOME	COME	RBME	BLSC	SUSC	WWSC		
LPWS	Spring	1998	11,738	89	2,872	1,958	110	2,205	4,307	0	47	150		
		1999	8,807	68	1,314	3,149	0	3,276	973	7	3	17		
		2000	9,844	137	2,546	3,306	0	2,951	871	0	0	33		
		2001	19,901	58	5,806	8,526	4	4,533	619	9	2	345		
		2002	17,632	68	2,595	4,443	20	10,044	402	47	3	9		
		2003	15,074	34	7,136	2,930	20	4,112	760	12	0	70		
		2004	13,553	0	3,762	3,170	2	5,762	841	3	0	12		
		2005	20,608	0	7,703	5,163	51	5,909	1,768	3	0	10		
		2006	11,952	10	3,394	1,507	15	6,528	486	12	0	0		
				Max:	20,608	137	7,703	8,526	110	10,044	4,307	47	47	345
		Avg:	14,345	52	4,125	3,795	25	5,036	1,225	10	6	72		
		%:		0.00	0.29	0.26	0.00	0.35	0.09	0.00	0.00	0.01		
LGLMWS	Fall	1999	1,281	0	33	504	293	441	10	0	0	0		
		2000	4,024	0	962	48	0	3,015	0	0	0	0		
		2009	3,281	0	440	1,467	209	1,012	152	0	0	0		
		2010	9,366	1,436	3,185	310	0	258	4,176	0	0	0		
				Max:	9,366	1,436	3,185	1,467	293	3,015	4,176	0	0	0
				Avg:	4,488	359	1,155	582	126	1,181	1,085	0	0	0
		%:		0.08	0.26	0.13	0.03	0.26	0.24	0.00	0.00	0.00		
CMMN - DET	Fall	1997	463	3	35	40	20	8	325	5	4	22		
		1998	1,035	24	60	70	1	28	742	2	56	52		
		1999	1,000	30	50	30	160	70	345	15	75	225		
		2000	719	10	40	74	0	29	544	0	12	10		
		2001	764	13	150	88	4	115	342	15	17	20		
		2002	3,211	18	23	74	1	3	501	740	1,028	824		
		2003	1,390	6	36	31	5	72	1,149	4	45	42		
		2004	2,790	66	28	24	0	1,678	864	19	71	40		
		2005	2,035	300	6	12	2	523	1,107	12	19	54		
		2006	9,895	30	20	14	6	175	9,570	18	28	34		
		2007	24,132	170	25	26	2	368	23,434	22	55	30		
		2008	4,347	50	40	48	1	64	4,094	12	12	26		
		2009	4,775	343	23	23	2	280	3,912	11	109	72		
		2010	11,037	255	111	53	1	136	10,273	16	56	136		
		2011	13,168	868	93	14	3	40	11,993	7	43	107		
		2012	13,543	1837	395	80	5	160	10,364	39	136	527		
		2013	19,047	279	46	38	7	52	18,390	26	37	172		
2014	7,520	94	48	26	11	194	7,013	18	40	76				
2015	6,921	272	75	43	26	179	6,013	22	74	217				
2016	20,740	181	88	20	16	18	20,169	10	46	192				
2017	2,321	444	138	74	61	51	1,400	10	46	97				
		Max:	24,132	1,837	395	88	160	1,678	23,434	740	1,028	824		
		Avg:	7,183	252	73	43	16	202	6,312	49	96	142		
		%:		0.04	0.01	0.01	0.00	0.03	0.88	0.01	0.01	0.02		

Appendix 1 – Central Lake Erie, Long Point Bay (cont.)

Survey	Season	Year	Total	LTDU	BUFF	COGO	HOME	COME	RBME	BLSC	SUSC	WWSC		
LPWS	Fall	1998	12,763	366	5,852	938	130	46	5,284	77	37	35		
		1999	4,216	17	3,143	494	7	171	323	5	30	26		
		2000	9,341	51	3,022	1,830	0	20	4,346	31	28	12		
		2001	4,588	7	3,462	267	104	55	661	9	0	23		
		2002	5,524	3	2,201	634	2	1,531	1,080	12	40	21		
		2003	14,861	0	7,459	976	28	899	5,197	90	3	209		
		2004	7,771	130	3,589	854	2	184	2,901	84	0	26		
		2005	3,808	51	1,314	1,069	0	29	1,324	17	0	3		
				Max	14,861	366	7,459	1,830	130	1,531	5,284	90	40	209
				Avg	7,859	78	3,755	883	34	367	2,640	41	17	44
		%:		0.01	0.48	0.11	0.00	0.05	0.34	0.01	0.00	0.01		
MWS	Winter	2002	2,048	0	851	445	0	747	6	0	0	0		
		2003	2,780	41	447	334	0	1,591	367	0	0	0		
		2004	2,026	0	486	866	0	621	54	0	0	0		
		2005	2,005	0	303	208	0	347	1,130	0	0	17		
		2006	5,508	0	479	646	0	2,952	1,430	0	0	0		
		2007	32,381	17	267	566	0	780	30,750	0	0	0		
		2008	1,582	0	166	1,037	0	75	303	0	0	0		
		2009	1,381	0	196	437	0	315	434	0	0	0		
		2010	1,955	0	326	1,243	0	216	170	0	0	0		
		2011	352	27	0	166	0	4	154	0	0	0		
		2012	2,397	96	231	296	0	148	1,625	0	0	0		
		2013	3,320	571	1,369	1,051	0	33	293	0	0	2		
		2014	955	0	20	360	32	38	492	0	0	14		
		2015	175	0	0	160	0	15	0	0	0	0		
		2016	3,020	0	156	1,886	0	250	708	0	0	19		
		2017	9,803	0	3,368	589	0	811	4,191	70	0	774		
		2018	0	0	0	0	0	0	0	0	0	0		
				Max:	32,381	571	3,368	1,886	32	2,952	30,750	70	0	774
		Avg:	4,217	44	510	605	2	526	2,477	4	0	49		
		%:		0.01	0.12	0.14	0.00	0.12	0.59	0.00	0.00	0.01		

Appendix 1 – Central Lake Erie, Long Point Bay (cont.)

Survey	Season	Year	Total	LTDU	BUFF	COGO	HOME	COME	RBME	BLSC	SUSC	WWSC
CBC	Winter	1997	2,210	0	390	304	122	1,338	56	0	0	0
		1998	941	0	564	109	99	146	23	0	0	0
		1999	2,925	0	634	168	61	1,883	179	0	0	0
		2000	4,039	0	282	194	9	1,399	2,154	0	1	0
		2001	1,227	25	516	186	112	119	269	0	0	0
		2002	1,151	1	312	110	12	539	177	0	0	0
		2003	1,584	1	265	106	64	929	218	0	1	0
		2004	2,338	2	372	217	31	1,345	367	0	0	4
		2005	5,147	3	338	238	14	2,231	2,323	0	0	0
		2006	11,542	12	287	174	36	1,633	9,399	0	1	0
		2007	3,073	1	127	239	22	2,482	202	0	0	0
		2008	4,129	7	255	201	16	2,434	1,216	0	0	0
		2009	1,343	9	280	414	9	388	243	0	0	0
		2010	6,446	0	145	142	9	5,938	212	0	0	0
		2011	4,493	20	626	206	63	533	3,037	0	0	8
		2012	7,932	0	1,284	77	76	181	6,308	0	0	6
		2013	2,869	8	333	880	36	1,298	314	0	0	0
		2014	3,626	6	605	699	87	1,983	246	0	0	0
		2015	1,297	11	687	190	100	93	216	0	0	0
		Max:	11,542	25	1,284	880	122	5,938	9,399	0	1	8
		Avg:	3,595	6	437	255	51	1,415	1,429	0	0	1
		%:		0.00	0.12	0.07	0.01	0.39	0.40	0.00	0.00	0.00