2020 End of Culling Report

A. BACKGROUND / INTRODUCTION

Metroparks Toledo (Metroparks) submitted its 2019-2020 Deer Management Plan and Request for Deer Damage Control Permit to the Ohio Division of Wildlife (ODW) on 10/15/2019 to initiate the fifth season of its lethal deer culling program to continue addressing ongoing negative ecological impacts associated with overabundance of deer across the park district. This request was subsequently approved by the Ohio Division of Wildlife on 12/2/2019 under ODW deer damage control permit 5337, valid from December 2, 2019 until March 1, 2020. During this period of culling activities, Metroparks law enforcement staff (Ohio Peace Officer Training Academy Certified) served as marksmen. During this time, Metroparks also received assistance from marksmen with the U.S. Department of Agriculture, Animal and Plant Health Inspection Service – Wildlife Services (APHIS-WS) under Cooperative Services Agreement # 20-7239-5237-RA. Metroparks staff provided field support to marksmen and conducted all other deer management activities including removal of deer killed in the field, field dressing of deer, collection of biological data, transportation of deer carcasses to venison processing facilities, and disposal of remains not taken for venison processing. Each evening, culling activities commenced after Metroparks law enforcement personnel closed each park and determined that no park visitors remained after normal park hours.

B. ADHERENCE TO STIPULATIONS OF DEER MANAGEMENT CONTROL PERMIT

Metroparks strictly followed the permit conditions mandated by ODW, including:

1. Wildlife Office Michael Ohlrich was notified by phone prior to each night when culling operations were conducted.
2. Wildlife Management Supervisor Bob Ford was notified by phone after the conclusion of each night of culling operations and provided a summary of the results.
3. A copy of Permit # 5337 was in the possession of Metroparks and APHIS-WS marksmen during the course of operations.
4. Antlered deer made up fewer than 25% of all deer taken. All antlers were removed and destroyed by Metroparks staff following culling operation.
5. A deer damage carcass tag was attached immediately to each deer in the field.
6. Each deer damage carcass tag featured a unique ID number assigned by Metroparks to insure accurate record keeping.
7. Each deer killed was reported online and assigned a permanent ODW tag number.
8. All venison processed as a result of culling operations was donated to charity.

This written report fulfills Metroparks' final obligation under Permit # 5337 and formally concludes all actions under the Metroparks 2019-2020 Deer Management Plan. All future deer management activities to be conducted by Metroparks will occur under a new request for deer damage control permit.

C. DEER MANAGEMENT / RESULTS OF OPERATION

A total of 203 deer were culled over 13 separate nights between December 10th, 2019 and February 20th, 2020. A total of 173 deer culled were antlerless (85%) while 30 deer culled were antlered (15%). Table 1 provides a culling summary for each park area included in the 2019-20 deer management plan.

Table 1. **Culling summary by park area** for 203 deer culled by Metroparks from December 10, 2019 to February 20, 2020.

Park Area	Antlerless	Antlered	Total
Oak Openings Preserve	72	1	73
Swan Creek Preserve & Brookwood Area	33	7	40
Side Cut and associated parklands	31	15	46
Wildwood Preserve	7	3	10
Pearson	23	4	27
Toledo Botanical Garden	7	0	7
Middlegrounds	0	0	0
Total All Parklands	173	30	203

D. BIOLOGICAL AND DEMOGRAPHIC DATA

In addition to antlered status, biological data (weight, sex, reproductive status, general condition) were collected for all deer culled during the 2019-20 season. A summary of biological data collected by Metroparks staff during culling activities is provided as an appendix to this report.

Age and Sex Distribution

Out of 203 deer culled, 132 were females (65%) and 71 were males (35%). A total of 70 deer (34%) were fawns (<1 year of age), including 27% of all females culled and 49% of all males culled. A breakdown of the sex and age class of deer culled is shown in Table 2.

Table 2. **Sex and age distribution** of 203 deer culled by Metroparks from December 10, 2019 to February 20, 2020.

Age	Female	Male	Total
0.5	35	35	70
1.5	21	13	34
2.5	29	6	35
3.5	21	12	33
4.5	9	4	13
5.5	11	1	12
6.5	4	0	4
7.5	1	0	1
8.5	1	0	1
Total	132	71	203

Weight

Whole body weights of harvested deer ranged from 60 to 191 pounds for females (mean of 120 pounds) and 60 to 217 pounds for males (mean of 121 pounds). A breakdown of the mean weight by sex and age class of deer culled is shown in Table 3.

Table 3. **Mean whole body weights** (pounds) of 203 deer culled by Metroparks from December 10, 2019 to February 20, 2020.

Age (years)	Female	Male
0.5	80.1	85.7
1.5	113.8	130.8
>2.5	140.0	167.8
All age classes	120.0	120.6

Reproductive Status

Across all age classes, 89 of 132 females evaluated (68%) from December 10, 2019 to February 20, 2020 were pregnant. However, this number is likely lower than the actual pregnancy rate because females culled during December may not have been impregnated yet and embryos in some pregnant females may have been too small to observe during this time. Across all age classes, 65 of 83 females evaluated (79%) from January 8 to February 20, 2020 were pregnant. For the entire 2019-20 season across all age classes, 22% of females carried a single fetus while 78% carried twins. A breakdown of additional reproductive characteristics of female deer culled by Metroparks from December 10, 2019 to February 20, 2020 is shown in Tables 4, 5 and 6.

Table 4. **Pregnancy rates** (%) among female deer culled by Metroparks from December 10, 2019 to February 20, 2020. For comparison, data shown in parentheses were collected by Tonkovich et al. (2004) and show overall pregnancy rates for female deer in the "Farmland" and "Hill" regions of Ohio from 1997 to 1999.

Age (years)	2019-20 Metroparks	2020 only* Metroparks	*1997-99 Farmland*	*Hill*
All	67.9	79.3		
0.5	2.9	5.9	*58.4*	*32.4*
1.5	85.7	93.3	*90.5*	*94.4*
>2.5	92.1	98.0	*95.2*	*97.2*

* Females culled during December 2019 were excluded to provide a more accurate estimate of the pregnancy rate for the entire population

Table 5. **Mean number of fetuses per pregnant female deer** culled by Metroparks from December 10, 2019 to February 20, 2020. For comparison, data shown in parentheses were collected by Tonkovich et al. (2004) and show number of fetuses per pregnant female in the "Farmland" and "Hill" regions of Ohio from 1997 to 1999.

Age (years)	2019-20 Metroparks	2020 only Metroparks	*1997-99 Farmland*	*Hill*
All	1.78	1.77		
0.5	1.00	1.00	*1.21*	*1.00*
1.5	1.61	1.64	*1.83*	*1.82*
>2.5	1.83	1.82	*1.93*	*1.82*

Table 6. **Mean number of fetuses per female deer** culled by Metroparks from December 2018 to January 2019. For comparison, data shown in parentheses were collected by Tonkovich et al. (2004) and show number of fetuses per female in the "Farmland" and "Hill" regions of Ohio from 1997 to 1999.

Age (years)	2018-19 Metroparks	2019 only Metroparks	*1997-99 Farmland*	*Hill*
All	1.20	1.39		
0.5	0.03	0.06	*0.71*	*0.32*
1.5	1.53	1.77	*1.66*	*1.72*
≥2.5	1.68	1.78	*1.84*	*1.77*

E. EVALUATION OF CULLING RESULTS / IDENTIFICATION OF FUTURE MANAGEMENT NEEDS

Culling results: Deer removed through Metroparks culling operations during the 2019-20 season appeared generally to be in good health with no obvious signs of biological stress (except for three deer that suffered from injuries likely sustained through car collisions). Of the 315 tags requested by Metroparks under permit #5337, 203 (64%) were filled. Overall annual reduction goals were considered achieved for Oak Openings Preserve (73 of 75 permits filled, 97%), Wildwood Preserve (10 of 10 permits filled, 100%), Pearson (27 of 25 permits filled, 108%; with 2 of 15 "extra" tags used as allowed under the permit), and Toledo Botanical Garden (7 of 10 permits filled, 70%). Due in large part to persistent wet and unfrozen ground conditions, periodic flooding, and limited access to remote floodplain areas, reduction goals were not achieved at Side Cut and associated parklands (46 of 100 permits filled, 46%), or at Swan Creek Preserve / Brookwood area (40 of 75 permits filled, 53%). No deer were culled at Middlegrounds during the 2019-20 season (0 of 5 permits filled). A summary of all culling results since Metroparks began its deer culling program in 2015 is shown in Table 7.

Table 7. **Summary of culling by park** carried out by Metroparks Toledo between 2015 and 2020.

Culling Summary by Park	2015-16	2016-17	2017-18	2018-19	2019-20	**Total**
Oak Openings Preserve	165	150	50	71	73	**509**
Swan Creek Preserve & Brookwood Area	-	50	64	58	40	**212**
Side Cut and associated parklands	-	-	106	54	46	**206**
Wildwood Preserve	30	-	19	13	10	**72**
Pearson	-	-	-	-	27	**27**
Toledo Botancal Garden	-	-	-	-	7	**7**
Middlegrounds	-	-	1	-	-	**1**
Total All Parklands	**195**	**200**	**240**	**196**	**203**	**1034**

Deer population status: Annual population reduction goals for each park area (as described above) were set to maintain peak population densities for each park area at ~15 to 25 deer per square mile. Helicopter snow count surveys completed by Metroparks staff on February 8, 2020 provide additional insight into the current status of deer populations at each park area following completion 2020 culling operations (Figure 1). Snow counts completed at Oak Openings Preserve and Wildwood Preserve show current population densities to be within the targeted range (18 and 14 deer / mi^2, respectively) while densities at Pearson were just slightly above the targeted range (27 deer / mi^2). Population densities at Swan Creek Preserve / Brookwood Area remain above the targeted range (31 deer / mi^2) due to localized large herds observed during the February 2020 snow count along the east side of Swan Creek Preserve and within/adjacent to the Brookwood Area where ground access was limited during 2019-20 culling operations. Deer densities at Side Cut and associated parklands (Fallen Timbers Battlefield, Bluegrass Island, Audubon Island) remain at more than twice the desired population density (60 deer / mi^2), although the local population at Fallen Timbers Battlefield (when considered by itself) was within the targeted density. These count data, along with the deer browse survey data that follows, will be used to set reduction targets for the 2020-21 deer management season.
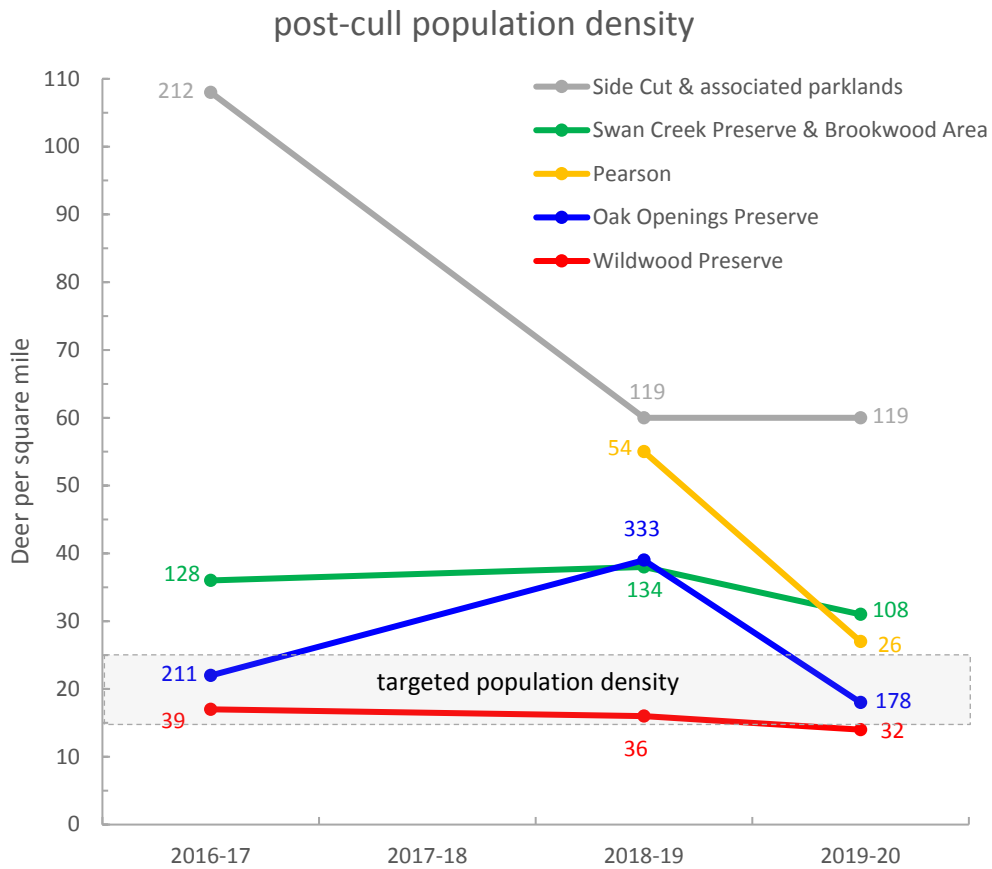
Figure 1. **Post-cull population densities** for five park areas based on population surveys completed between 2016 and 2020. Actual population counts for each park area are shown inside the figure. Deer culled from the population during the same season, but after counts were completed were subtracted from the count (for example, on 2/8/2020, 29 deer were counted at Pearson, however 3 additional deer were culled at Pearson on 2/20/2020, therefore the population count is shown as 26).

Deer browse damage assessment: Following 2019-20 culling operations, overwinter deer browse damage surveys were conducted between March 5 and March 18, 2020. A summary of browse survey results is shown in Figures 2 and 3 below. Overall trends in deer browse damage are consistent with population trends described above. For example, percent of survey plots experiencing heavy to severe browse damage for Sidecut / Bluegrass Island and the Brookwood area were roughly two times greater than other park areas, while percent of survey plots experiencing woody plant regeneration at Side Cut / Bluegrass Island were nearly half that observed for most other park areas (see Figure 2). These results are consistent with observations during the 2020 helicopter snow counts, with deer densities at Side Cut / Bluegrass Island and the Brookwood area considerably higher than most other park areas.

For Oak Openings Preserve and Wildwood Preserve, where oaks are the dominant woodland species, response of understory oaks to reductions in browsing pressure over the past five years is especially pronounced (see Figure 3).   Percent of survey plots experiencing heavy to severe browse damage of oaks decreased from a high of 66% and 100% (for Oak Openings Preserve and Wildwood Preserve, respectively) in 2015 down to 4% and 0% (for Oak Openings Preserve and Wildwood Preserve, respectively) in 2020.   Percent of survey plots experiencing no oak browse damage increased from a low of 13% and 0% (for Oak Openings Preserve and Wildwood Preserve, respectively) in 2015 up to 75% and 91% (for Oak Openings Preserve and Wildwood Preserve, respectively) in 2020.   Finally, percent of survey plots experiencing oak regeneration increased from a low of 20% and 1% (for Oak Openings Preserve and Wildwood Preserve, respectively) in 2015 up to 34% and 71% (for Oak Openings Preserve and Wildwood Preserve, respectively) in 2020. While the pronounced increase in oak regeneration in 2020, especially at Wildwood Preserve, is almost certainly related to reductions in browse pressure following 5 years of targeted population reductions, the observed increase in oak regeneration in 2020 is also likely related to heavy mast production observed in the fall of 2018.

Future management needs: The Metroparks long term goal is to maintain deer populations at or below levels that ensure the protection of native plant and animal diversity and the development of high quality habitat for a variety of native wildlife species. As a general rule, Metroparks managers intend to keep deer population densities at no greater than 15 to 25 deer per square mile for parklands throughout the park district wherever possible. However, future population reduction goals will take into account actual browse damage (in established woodlands as well as newly planted sites) along with estimates of population recruitment during the spring fawning season.

F. VENISON DONATION

A total of 203 deer culled by Metroparks during the 2018-19 season were processed into 10,332 pounds of ground venison donated to two charities in the Toledo region who distributed this venison to those in need.   Table 8 provides a summary of venison donations over the five-year period since Metroparks initiated its deer culling program.

Table 8. **Pounds of venison donated** by Metroparks Toledo between 2015 and 2020.

Year	2015-16	2016-17	2017-18	2018-19	2019-20	Total
Pounds	6,744	9,940	11,284	9,598	10,332	47,898

Figure 3. **Overall overwinter deer browse damage** observed between 2015 and 2020 for six park areas. Browse damage surveys were conducted in March/April each year prior to leaf-out. Note that in 2017 persistent overwinter snow cover protected many seedlings from direct browse damage.
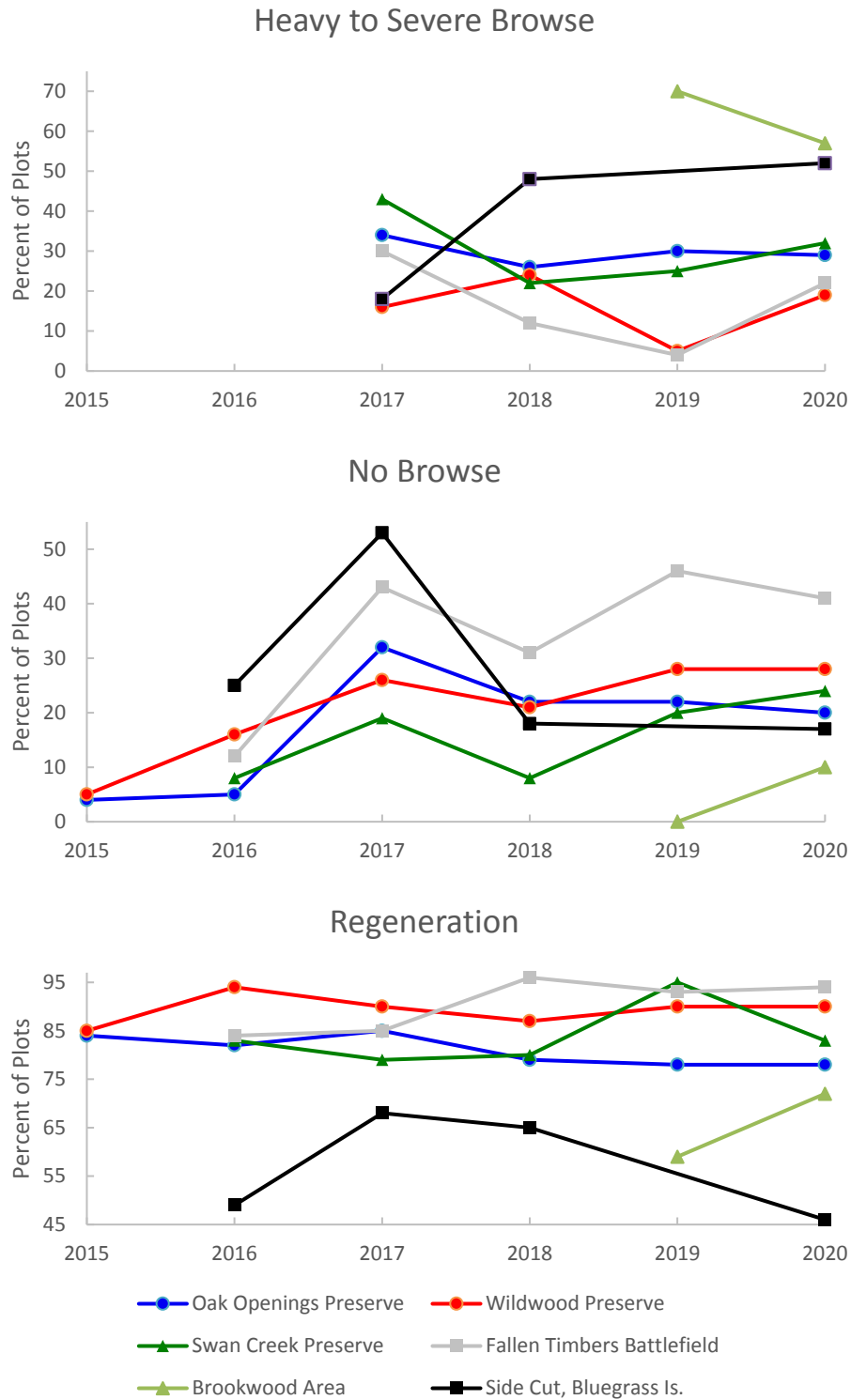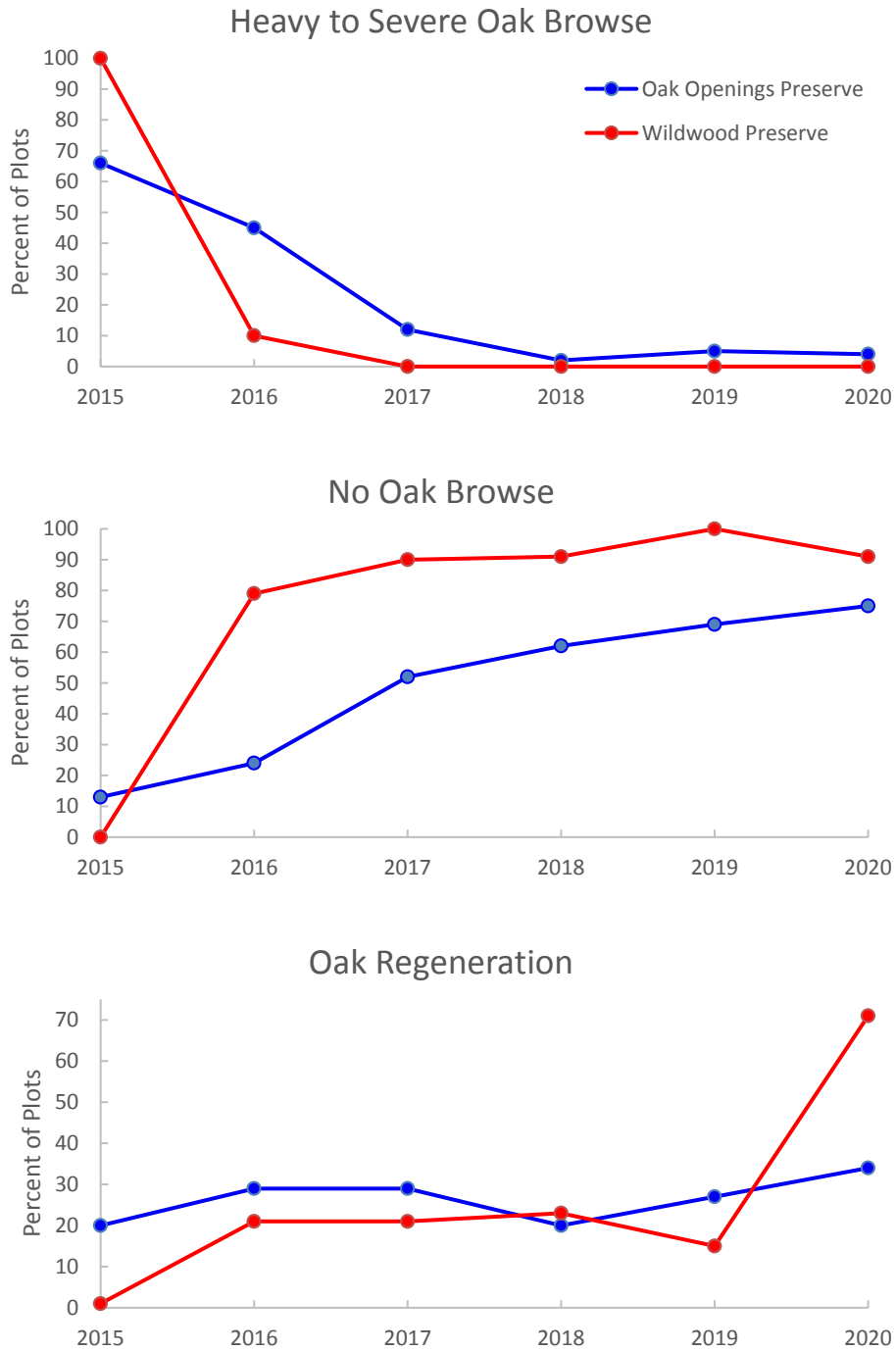
Figure 4. **Overwinter deer browse damage of oak seedlings** observed between 2015 and 2020 for two park areas. Browse damage surveys were conducted in March/April each year prior to leaf-out. Note that heavy acorn production was observed in fall of 2018, likely contributing to increased oak regeneration observed in 2020.

APPENDIX – SUMMARY OF BIOLOGICAL DATA

ODW Tag #	Date Culled	Time (A or P)	Location[1]	Sex	Weight (lbs)	Age (years)	Antlers (N=no)	Fetus Count (#)
1	12/10/2019	P	SiC	M	132	1.5	3	
2	12/10/2019	P	SiC	M	189	3.5	8	
3	12/10/2019	P	FTB	M	149	2.5	4	
4	12/10/2019	P	FTB	F	119	1.5		1
5	12/10/2019	P	FTB	F	83	0.5		0
6	12/10/2019	P	FTB	M	90	0.5	N	
7	12/10/2019	P	SiC	F	138	2.5		2
8	12/10/2019	P	SiC	M	191	3.5	8	
9	12/10/2019	P	BGI	F	139	3.5		2
10	12/10/2019	P	BGI	F	152	4.5		0
11	12/10/2019	P	BGI	M	194	3.5	8	
12	12/10/2019	P	FTB	F	100	0.5		0
13	12/10/2019	P	FTB	F	115	1.5		1
14	12/10/2019	P	FTB	F	136	1.5		0
15	12/11/2019	P	SCPM	F	129	2.5		1
16	12/11/2019	P	SCPM	F	92	0.5		0
17	12/11/2019	P	SCPM	F	137	3.5		2
18	12/11/2019	P	SCPM	F	81	0.5		0
19	12/11/2019	P	SCPM	F	68	0.5		0
20	12/11/2019	P	SCPM	F	123	2.5		0
21	12/11/2019	P	SCPM	M	85	0.5	N	
22	12/11/2019	P	BW	F	69	0.5		0
23	12/11/2019	P	BW	M	87	0.5	N	
24	12/11/2019	P	BW	F	148	3.5		0
25	12/11/2019	P	BW	M	110	0.5	N	
26	12/11/2019	P	BW	F	148	3.5		2
27	12/11/2019	P	SCPM	M	95	0.5	N	
28	12/12/2019	P	SCPM	M	217	4.5	8	
29	12/12/2019	P	SCPM	M	170	3.5	8	
30	12/12/2019	P	SCPM	F	146	3.5		2
31	12/12/2019	P	SCPM	F	140	5.5		2
32	12/12/2019	P	SCPM	F	159	6.5		2
33	12/12/2019	P	SCPM	M	176	4.5	8	
34	12/12/2019	P	SCPM	F	136	3.5		0
35	12/12/2019	P	SCPM	F	77	0.5		0
36	12/12/2019	P	FTB	F	139	2.5		0
37	12/12/2019	P	SiC	M	163	4.5	10	
38	12/12/2019	P	SiC	F	81	0.5		0
39	12/12/2019	P	SiC	F	131	3.5		2
40	12/12/2019	P	SiC	M	128	1.5	5	

ODW Tag #	Date Culled	Time (A or P)	Location[1]	Sex	Weight (lbs)	Age (years)	Antlers (N=no)	Fetus Count (#)
41	12/12/2019	P	SiC	F	83	0.5		0
42	12/18/2019	P	SCPM	M	188	3.5	6	
43	12/18/2019	P	SCPM	F	80	0.5		0
44	12/18/2019	P	SCPM	F	69	0.5		0
45	12/18/2019	P	SCPM	F	121	1.5		2
46	12/18/2019	P	SCPM	F	69	0.5		0
47	12/18/2019	P	SCPM	F	128	4.5		2
48	12/18/2019	P	SCPM	M	146	3.5	8	
49	12/18/2019	P	WWPM	F	129	2.5		2
50	12/18/2019	P	WWPM	M	145	3.5	8	
51	12/18/2019	P	WWPM	F	96	0.5		0
52	12/18/2019	P	WWPM	F	125	1.5		2
53	12/18/2019	P	WWPM	M	81	0.5	N	
54	12/18/2019	P	WWPM	M	130	1.5	5	
55	12/18/2019	P	WWPM	F	146	3.5		2
56	12/18/2019	P	WWPM	M	97	0.5	N	
57	12/18/2019	P	WWPM	M	153	2.5	5	
58	12/18/2019	P	WWPM	F	145	2.5		1
59	12/19/2019	P	PM	F	161	3.5		2
60	12/19/2019	P	PM	F	128	2.5		2
61	12/19/2019	P	PM	F	96	0.5		0
62	12/19/2019	P	PM	F	168	4.5		2
63	12/19/2019	P	PM	F	92	0.5		0
64	12/19/2019	P	PM	F	153	3.5		2
65	12/19/2019	P	PM	F	155	3.5		1
66	12/19/2019	P	PM	M	149	1.5	4	
67	12/19/2019	P	PM	M	203	3.5	8	
68	12/19/2019	P	PM	M	158	1.5	6	
69	12/19/2019	P	PM	F	79	0.5		0
70	12/19/2019	P	PM	M	114	0.5	N	
71	12/19/2019	P	PM	F	191	5.5		2
72	12/19/2019	P	FTB	M	110	0.5	N	
73	12/19/2019	P	FTB	M	147	2.5	3	
74	12/20/2019	A	SiC	M	148	3.5	10	
75	12/20/2019	A	SiC	F	87	0.5		0
76	12/20/2019	A	SiC	F	126	1.5		0
77	12/20/2019	A	SiC	F	75	0.5		0
78	12/20/2019	A	SiC	F	130	2.5		2
79	12/20/2019	A	SiC	M	115	1.5	4	
80	12/20/2019	A	SiC	M	142	1.5	6	
81	1/8/2020	P	SCPM	M	155	3.5	6	

ODW Tag #	Date Culled	Time (A or P)	Location[1]	Sex	Weight (lbs)	Age (years)	Antlers (N=no)	Fetus Count (#)
82	1/8/2020	P	SCPM	M	133	2.5	6	
83	1/8/2020	P	SCPM	M	66	0.5	N	
84	1/8/2020	P	SCPM	F	130	1.5		2
85	1/8/2020	P	SCPM	F	132	3.5		2
86	1/8/2020	P	OOPM	F	124	2.5		2
87	1/8/2020	P	OOPM	M	133	2.5	N	
88	1/8/2020	P	OOPM	F	107	1.5		0
89	1/9/2020	P	PM	F	154	2.5		2
90	1/9/2020	P	PM	F	163	6.5		1
91	1/9/2020	P	PM	F	153	5.5		1
92	1/9/2020	P	PM	F	86	0.5		0
93	1/9/2020	P	PM	M	79	0.5	N	
94	1/9/2020	P	PM	F	169	3.5		2
95	1/9/2020	P	PM	M	178	1.5	9	
96	1/9/2020	P	PM	F	113	0.5		0
97	1/9/2020	P	PM	F	173	2.5		2
98	1/9/2020	P	PM	F	136	2.5		2
99	1/9/2020	P	PM	M	79	0.5	N	
100	1/15/2020	P	OOPM	M	76	0.5	N	
101	1/15/2020	P	OOPM	F	105	1.5		2
102	1/15/2020	P	OOPM	M	88	0.5	N	
103	1/15/2020	P	OOPM	F	142	2.5		2
104	1/15/2020	P	OOPM	M	92	0.5	N	
105	1/15/2020	P	OOPM	F	132	7.5		0
106	1/15/2020	P	OOPM	M	114	1.5	N	
107	1/15/2020	P	OOPM	F	154	5.5		2
108	1/15/2020	P	OOPM	F	150	2.5		2
109	1/15/2020	P	OOPM	F	156	5.5		2
110	1/15/2020	P	OOPM	M	84	0.5	N	
111	1/15/2020	P	OOPM	F	72	0.5		0
112	1/15/2020	P	OOPM	F	106	1.5		1
113	1/15/2020	P	OOPM	F	136	2.5		2
114	1/15/2020	P	OOPM	F	79	0.5		0
115	1/15/2020	P	OOPM	F	112	1.5		2
116	1/15/2020	P	SiC	M	81	0.5	N	
117	1/15/2020	P	SiC	F	104	1.5		2
118	1/15/2020	P	SiC	M	80	0.5	N	
119	1/15/2020	P	SiC	F	143	5.5		2
120	1/15/2020	P	SiC	M	86	0.5	N	
121	1/15/2020	P	SiC	M	98	0.5	N	
122	1/15/2020	P	SiC	M	180	4.5	4	

ODW Tag #	Date Culled	Time (A or P)	Location[1]	Sex	Weight (lbs)	Age (years)	Antlers (N=no)	Fetus Count (#)
123	1/15/2020	P	SiC	F	92	1.5		1
124	1/15/2020	P	SiC	M	168	3.5	9	
125	1/15/2020	P	SiC	F	125	2.5		2
126	1/15/2020	P	SiC	M	200	5.5	10	
127	1/15/2020	P	SCPM	F	148	4.5		1
128	1/15/2020	P	SCPM	M	86	0.5	N	
129	1/15/2020	P	SCPM	F	134	2.5		2
130	1/15/2020	P	SCPM	F	128	2.5		1
131	1/15/2020	P	OOPM	F	116	1.5		2
132	1/15/2020	P	OOPM	F	70	0.5		0
133	1/15/2020	P	OOPM	M	70	0.5	N	
134	1/21/2020	P	OOPM	F	140	4.5		1
135	1/21/2020	P	OOPM	M	82	0.5	N	
136	1/21/2020	P	OOPM	F	66	0.5		0
137	1/21/2020	P	OOPM	F	76	0.5		0
138	1/21/2020	P	OOPM	F	129	3.5		1
139	1/21/2020	P	OOPM	F	77	0.5		0
140	1/21/2020	P	OOPM	M	69	0.5	N	
141	1/21/2020	P	OOPM	F	144	4.5		2
142	1/21/2020	P	OOPM	F	85	0.5		0
143	1/21/2020	P	OOPM	F	118	2.5		2
144	1/21/2020	P	OOPM	F	60	0.5		0
145	1/21/2020	P	OOPM	F	68	0.5		0
146	1/21/2020	P	OOPM	F	150	4.5		2
147	1/21/2020	P	OOPM	F	82	0.5		1
148	1/21/2020	P	OOPM	F	143	5.5		2
149	1/21/2020	P	OOPM	F	119	2.5		1
150	1/21/2020	P	OOPM	F	120	2.5		2
151	1/21/2020	P	OOPM	M	88	0.5	N	
152	1/21/2020	P	OOPM	M	166	3.5	N	
153	1/22/2020	A	OOPM	F	130	8.5		2
154	1/22/2020	A	OOPM	M	95	0.5	N	
155	1/22/2020	A	OOPM	F	140	3.5		2
156	1/27/2020	P	SCPM	F	81	0.5		0
157	1/27/2020	P	SCPM	M	83	0.5	N	
158	1/27/2020	P	SCPM	F	122	1.5		1
159	1/27/2020	P	SiC	F	125	6.5		2
160	1/27/2020	P	SiC	F	137	3.5		2
161	1/27/2020	P	SiC	M	146	2.5	8	
162	1/27/2020	P	SiC	F	76	0.5		0
163	1/27/2020	P	SiC	F	142	3.5		2

ODW Tag #	Date Culled	Time (A or P)	Location[1]	Sex	Weight (lbs)	Age (years)	Antlers (N=no)	Fetus Count (#)
164	1/27/2020	P	OOPM	M	60	0.5	N	
165	1/27/2020	P	OOPM	M	118	1.5	N	
166	1/27/2020	P	OOPM	F	137	5.5		2
167	1/27/2020	P	OOPM	F	118	1.5		2
168	1/27/2020	P	OOPM	F	65	0.5		0
169	1/27/2020	P	OOPM	M	117	1.5	8	
170	1/28/2020	A	OOPM	F	114	2.5		2
171	1/28/2020	A	OOPM	M	86	0.5	N	
172	1/28/2020	A	OOPM	F	121	3.5		1
173	1/28/2020	A	OOPM	F	67	0.5		0
174	1/28/2020	A	OOPM	F	110	1.5		2
175	1/28/2020	A	OOPM	M	76	0.5	N	
176	1/28/2020	A	OOPM	F	103	2.5		2
177	1/28/2020	A	OOPM	M	107	1.5	N	
178	1/28/2020	A	OOPM	M	68	0.5	N	
179	1/28/2020	A	OOPM	F	130	5.5		2
180	1/28/2020	P	OOPM	F	143	5.5		2
181	1/28/2020	P	OOPM	F	143	6.5		2
182	1/28/2020	P	OOPM	M	86	0.5	N	
183	1/28/2020	P	OOPM	F	123	2.5		2
184	1/28/2020	P	OOPM	M	81	0.5	N	
185	1/28/2020	P	OOPM	F	143	4.5		2
186	1/28/2020	P	OOPM	F	120	2.5		2
187	1/29/2020	P	OOPM	F	119	2.5		2
188	1/29/2020	A	OOPM	F	109	1.5		1
189	1/29/2020	A	OOPM	F	111	1.5		1
190	1/29/2020	A	OOPM	F	165	4.5		2
191	1/29/2020	A	OOPM	F	102	1.5		2
192	1/29/2020	A	OOPM	F	103	1.5		2
193	2/18/2020	P	SiC	M	112	1.5	N	
194	2/18/2020	P	TBG	F	141	3.5		1
195	2/18/2020	P	TBG	F	158	3.5		2
196	2/18/2020	P	TBG	M	97	0.5	N	
197	2/18/2020	P	TBG	M	96	0.5	N	
198	2/18/2020	P	TBG	F	118	2.5		2
199	2/18/2020	P	TBG	F	149	2.5		2
200	2/18/2020	P	TBG	F	103	0.5		0
201	2/20/2020	P	PM	F	135	2.5		2
202	2/20/2020	P	PM	F	150	5.5		2
203	2/20/2020	P	PM	F	143	3.5		2

[1] BGI = Bluegrass Island, BW = Brookwood area, FTB = Fallen Timbers Battlefield, OOPM = Oak Openings Preserve, SCPM = Swan Creek Preserve, SiC = Side Cut, PM = Pearson, TBG = Toledo Botanical Garden, WWPM = Wildwood Preserve