



# COUNTY DEER DATA

Version 4-17-2020



Indiana Department of Natural Resources Division of Fish & Wildlife

4/17/2020

Total Square Miles: 340 Square Miles of Deer Habitat: 30 Percent Deer Habitat: 9

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat		raken	Traveled	DVC	
2006	552		293		8.88	259		7.85	46.92		288.99		2
2007	643		333		10.09	310		9.39	48.21		290.74		2
2008	452		226		6.85	226		6.85	50.00		210.45		2
2009	431		253		7.67	178		5.39	41.30		290.56		2
2010	372	-1.79	189	-2.14	5.73	183	-1.20	5.55	49.19		319.81	1.36	2
2011	488	-0.02	256	-0.05	7.76	232	0.01	7.03	47.54		273.58	-0.16	2
2012	409	-0.67	204	-0.89	6.18	205	-0.39	6.21	50.12		241.49	-0.87	2
2013	466	0.81	251	0.86	7.61	215	0.42	6.52	46.14		255.48	-0.28	2
2014	495	1.35	256	0.80	7.76	239	1.62	7.24	48.28		291.01	0.48	2
2015	549	1.93	294	1.95	8.91	255	1.80	7.73	46.45		334.77	1.91	2
2016	553	1.41	282	0.93	9.40	271	2.12	9.03	49.01		268.02	-0.31	2
2017	517	0.38	266	0.25	8.87	251	0.51	8.37	48.55		349.20	1.95	2
2018	519	0.08	296	1.46	9.87	223	-1.11	7.43	42.97		386.68	2.12	1
2019	735	8.60	420	8.08	14.00	315	3.74	10.50	42.86		511.94	3.95	1

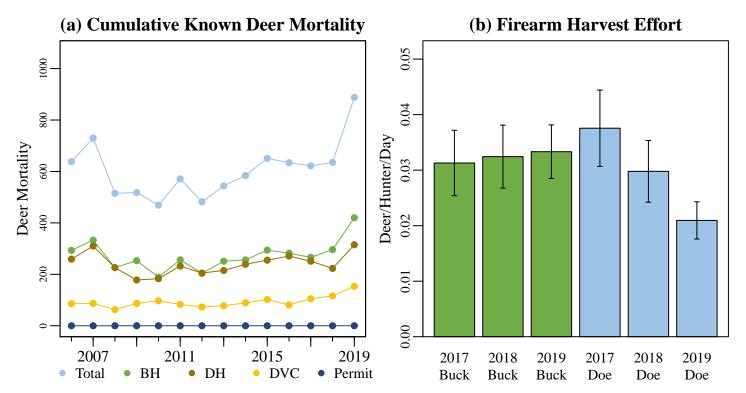


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 340 Square Miles of Deer Habitat: 30 Percent Deer Habitat: 9

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	471	256	214	1	0	181	246	41	3	0	0	0	0	0	0	0
2017	438	230	208	0	0	166	236	35	1	0	0	0	0	0	0	0
2018	461	240	221	0	0	182	262	15	2	0	0	0	0	0	0	0
2019	617	281	335	0	1	254	329	34	0	0	0	0	0	0	0	0

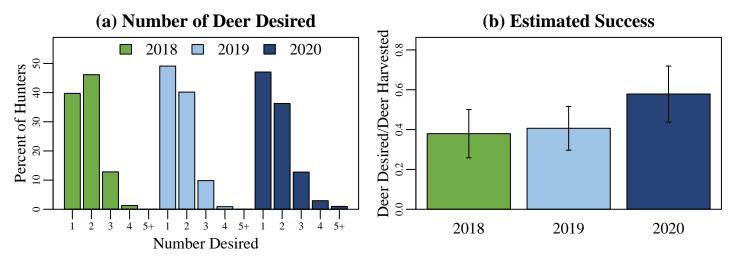


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Adams County Map



(b) Deer Habitat in Adams County

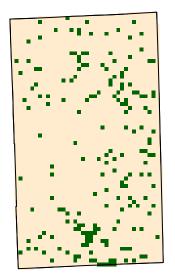


Figure 3. (a) Adams county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Adams county.

4/17/2020

#### **County Bonus Antlerless Quota**

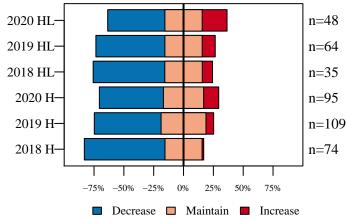


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

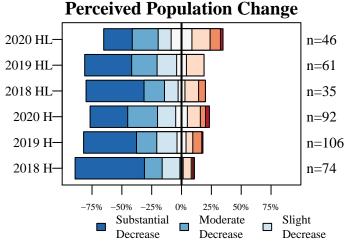


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

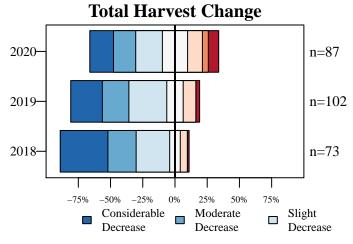
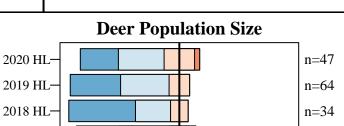


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



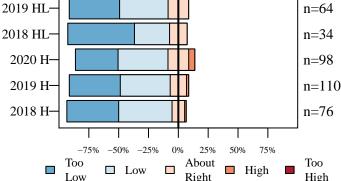
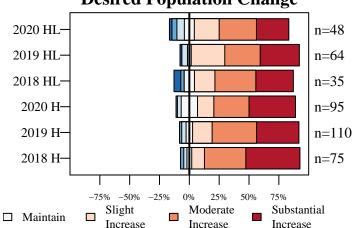


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

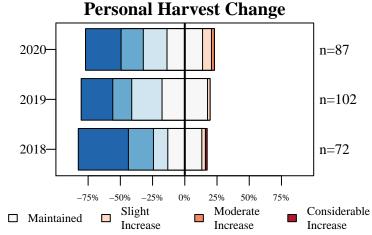


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020 **Buck Quality** 2020 HL n=16 2019 HLn=24 2018 HLn=12 2020 Hn=97 2019 Hn=109 2018 H· n=76 0% 25% 50% -75% -50%-25%75% Very Very Low High Average High Low

Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

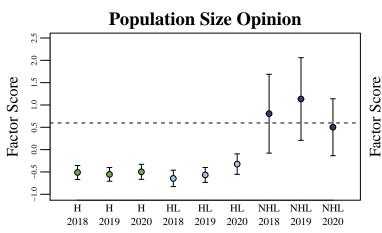


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

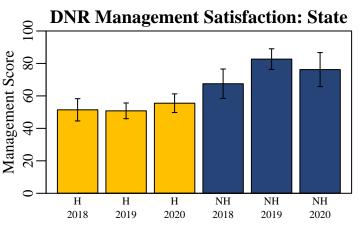


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

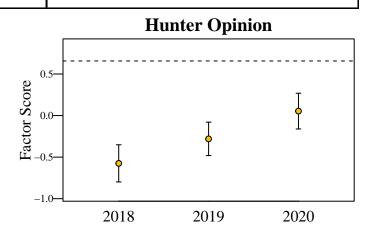


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

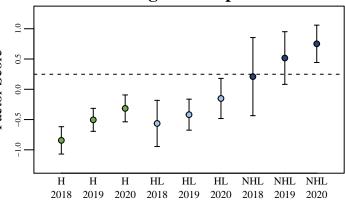


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

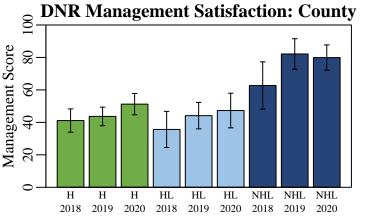


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 660 Square Miles of Deer Habitat: 115 Percent Deer Habitat: 17

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,562		807		9.38	755		8.78	48.34		129.11		3
2007	$1,\!844$		990		11.51	854		9.93	46.31		146.44		3
2008	1,357		673		7.83	684		7.95	50.41		148.48		4
2009	$1,\!481$		760		8.84	721		8.38	48.68		150.59		4
2010	1,575	0.18	853	0.28	9.92	722	-0.01	8.40	45.84		132.15	-0.67	8
2011	$1,\!674$	0.62	884	0.57	10.28	790	0.66	9.19	47.19		129.47	-1.19	8
2012	$1,\!461$	-0.67	638	-1.60	7.42	823	1.02	9.57	56.33		111.41	-3.05	8
2013	$1,\!459$	-0.42	714	-0.44	8.30	745	-0.05	8.66	51.06		107.38	-1.70	4
2014	$1,\!657$	1.36	841	0.71	9.78	816	1.24	9.49	49.25		110.29	-0.91	4
2015	$1,\!681$	1.12	816	0.29	9.49	865	1.94	10.06	51.46		109.16	-0.77	4
2016	$1,\!632$	0.39	846	0.67	7.36	786	-0.49	6.83	48.16		96.75	-1.86	4
2017	1,593	0.14	792	0.23	6.89	801	-0.13	6.97	50.28		106.03	-0.16	3
2018	1,555	-0.56	798	-0.07	6.94	757	-1.04	6.58	48.68		111.57	1.05	2
2019	1,716	1.84	935	4.76	8.13	781	-0.60	6.79	45.51	4	106.75	0.00	2

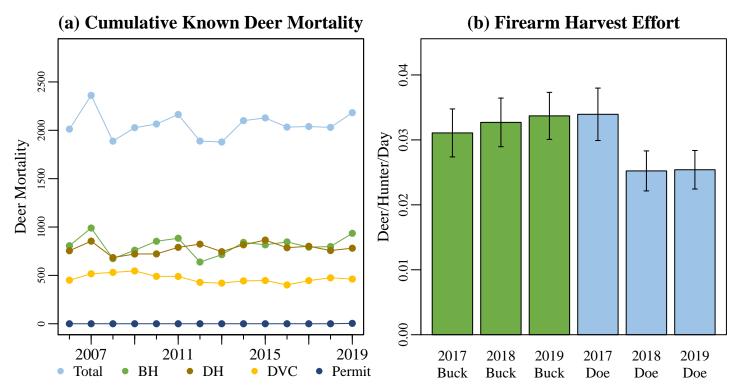


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Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,244	586	650	8	0	476	622	115	21	6	1	0	2	1	0	0
2017	$1,\!191$	574	599	18	0	434	595	135	18	6	3	0	0	0	0	0
2018	$1,\!191$	574	602	15	0	422	647	101	14	3	4	0	0	0	0	0
2019	$1,\!276$	519	735	22	0	517	628	110	10	4	3	3	0	0	0	1

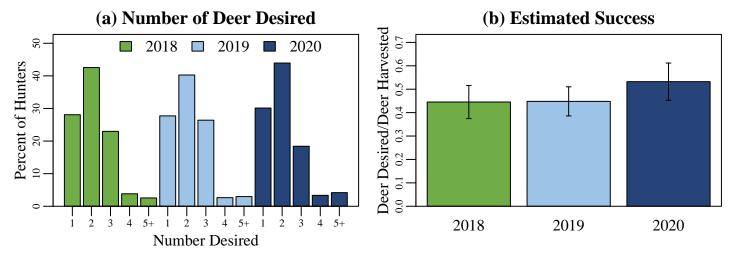


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Allen County Map



(b) Deer Habitat in Allen County

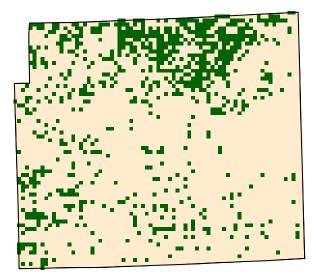


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4/17/2020

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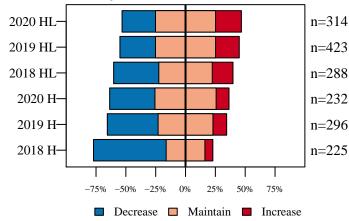


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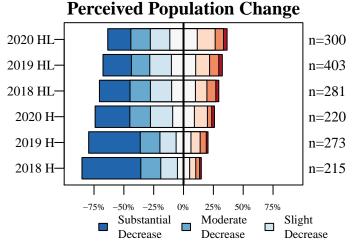


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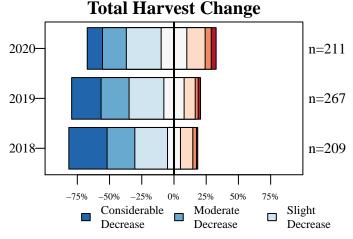


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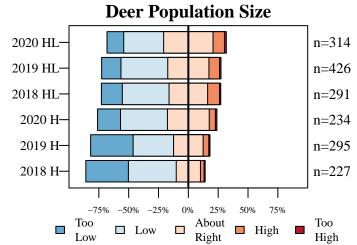
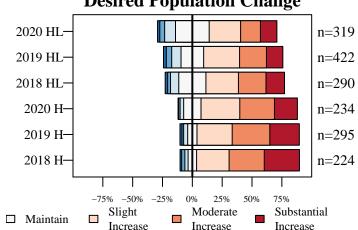
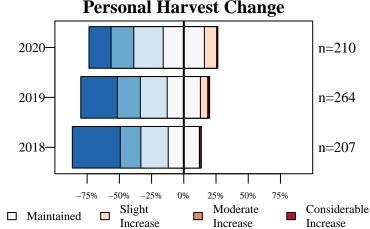


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4/17/2020



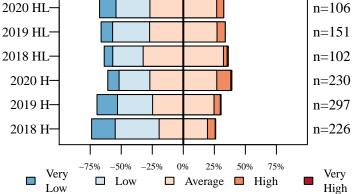


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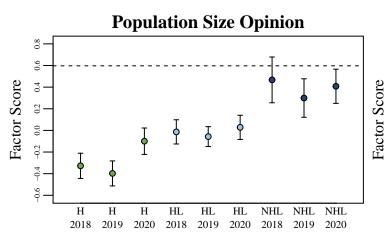


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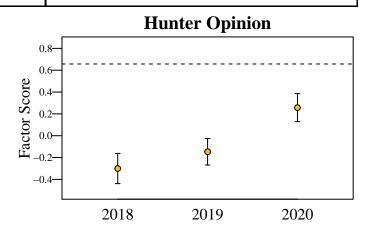


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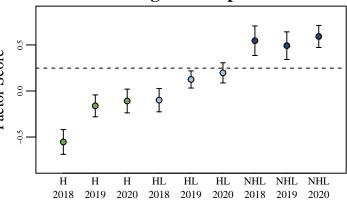


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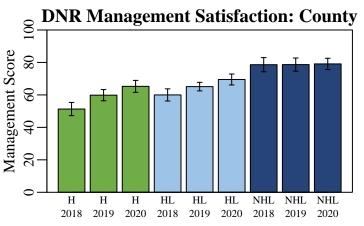


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4/17/2020

Total Square Miles: 409 Square Miles of Deer Habitat: 156 Percent Deer Habitat: 38

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					Habitat			Habitat			Traveled		
2006	1,183		641		4.36	542		3.69	45.82		173.37		3
2007	1,348		747		5.08	601		4.09	44.58		177.35		3
2008	1,058		546		3.71	512		3.48	48.39		205.43		4
2009	$1,\!110$		578		3.93	532		3.62	47.93		177.21		4
2010	690	-3.90	376	-3.15	2.56	314	-4.70	2.14	45.51		132.36	-3.43	4
2011	$1,\!119$	0.17	604	0.19	4.11	515	0.14	3.50	46.02		145.34	-1.06	4
2012	1,048	-0.07	499	-0.54	3.39	549	0.51	3.73	52.39		179.11	0.40	4
2013	1,217	1.19	590	0.77	4.01	627	1.48	4.27	51.52		158.60	-0.32	4
2014	1,227	0.94	641	1.18	4.36	586	0.68	3.99	47.76		173.76	0.75	8
2015	1,231	0.78	661	1.12	4.50	570	0.43	3.88	46.30		198.46	2.09	8
2016	1,070	-1.21	555	-0.70	3.56	515	-1.30	3.30	48.13	11	134.25	-1.82	8
2017	987	-1.88	535	-0.83	3.43	452	-2.81	2.90	45.80	10	166.82	-0.08	4
2018	1,041	-0.94	541	-1.02	3.47	500	-0.74	3.21	48.03	5	155.35	-0.47	4
2019	$1,\!094$	-0.15	618	0.53	3.96	476	-0.89	3.05	43.51	9	132.97	-1.39	2

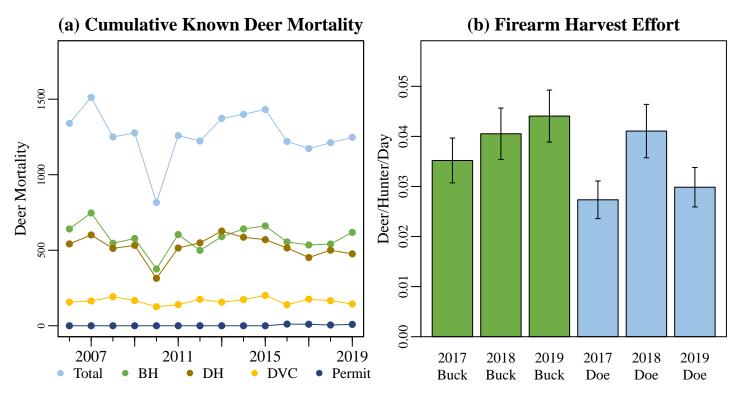


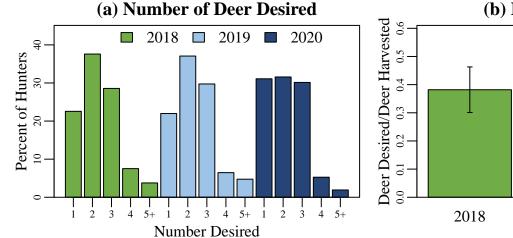
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Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	804	386	416	2	0	315	378	77	22	10	1	0	1	0	0	0
2017	793	379	412	2	0	321	388	72	9	3	0	0	0	0	0	0
2018	812	411	399	2	0	307	389	102	11	3	0	0	0	0	0	0
2019	872	400	464	7	1	365	412	86	7	2	0	0	0	0	0	0





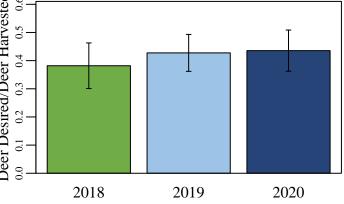


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(a) Bartholomew County Map



(b) Deer Habitat in Bartholomew County

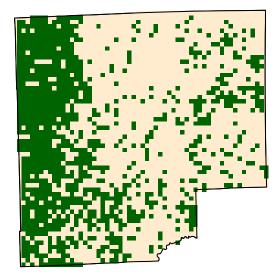


Figure 3. (a) Bartholomew county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Bartholomew county.

4/17/2020

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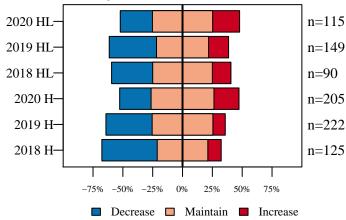


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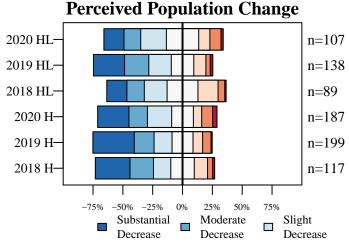


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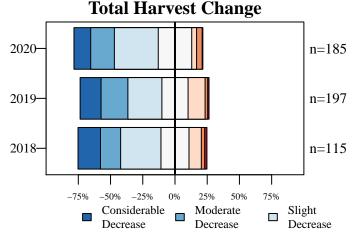
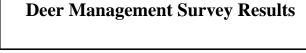


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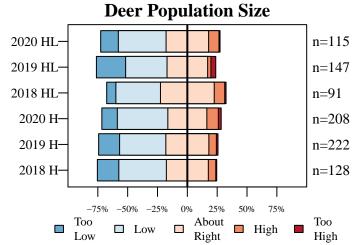
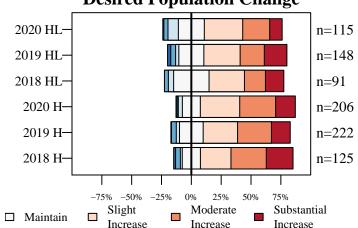
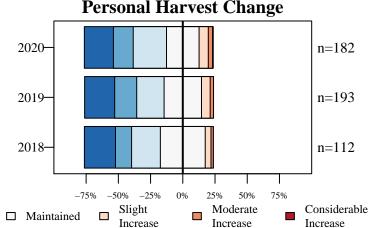


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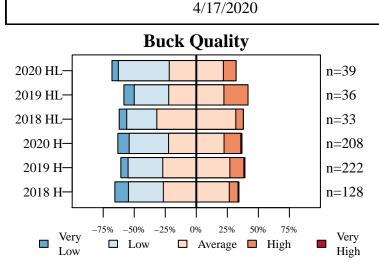


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

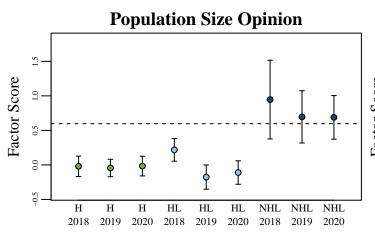


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

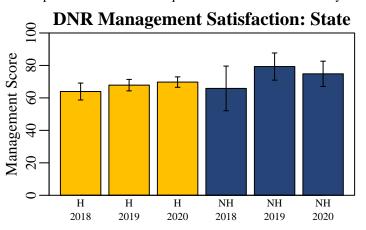


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

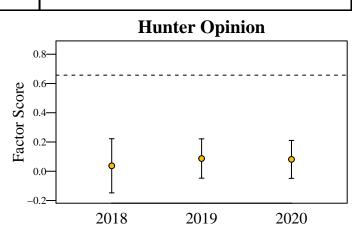
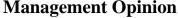


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



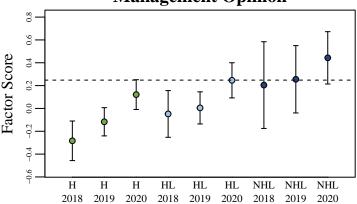


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

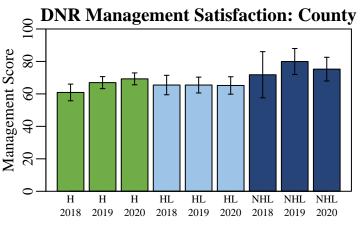


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

#### **Deer Management Survey Results**

4/17/2020

Total Square Miles: 406 Square Miles of Deer Habitat: 9 Percent Deer Habitat: 2

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	125		87		7.25	38		3.17	30.40		108.62		1
2007	157		111		9.25	46		3.83	29.30		125.50		1
2008	102		81		6.75	21		1.75	20.59		110.21		1
2009	90		54		4.50	36		3.00	40.00		145.61		1
2010	117	-0.22	79	-0.33	6.58	38	0.08	3.17	32.48		204.61	4.88	1
2011	144	1.01	101	0.91	8.42	43	0.79	3.58	29.86		173.33	0.87	2
2012	120	-0.07	65	-0.92	5.42	55	1.88	4.58	45.83		213.76	1.64	2
2013	112	-0.13	65	-0.62	5.42	47	0.68	3.92	41.96		155.68	-0.32	2
2014	88	-1.48	54	-1.04	4.50	34	-1.29	2.83	38.64		169.94	-0.29	1
2015	90	-1.31	67	-0.32	5.58	23	-2.51	1.92	25.56		197.06	0.55	А
2016	110	-0.03	84	0.76	9.33	26	-1.17	2.89	23.64	4	180.89	-0.05	Α
2017	87	-1.20	64	-0.28	7.11	23	-1.02	2.56	26.44	1	163.11	-0.90	А
2018	100	0.21	79	1.12	8.78	21	-0.94	2.33	21.00	2	157.88	-0.95	А
2019	102	0.71	81	0.95	9.00	21	-0.86	2.33	20.59		164.58	-0.59	А

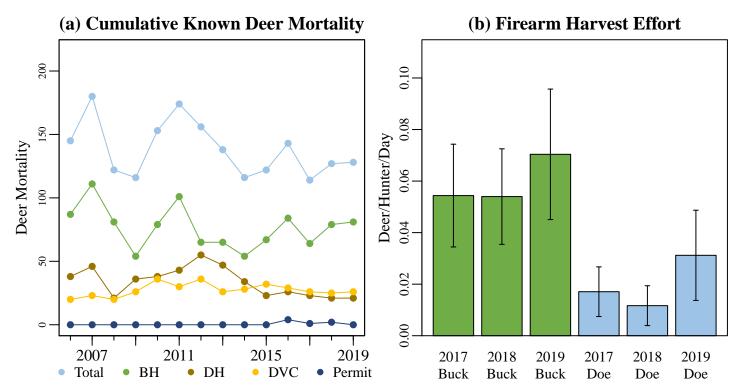


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 406 Square Miles of Deer Habitat: 9 Percent Deer Habitat: 2

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	102	23	79	0	0	74	25	3	0	0	0	0	0	0	0	0
2017	75	15	60	0	0	50	23	2	0	0	0	0	0	0	0	0
2018	93	19	74	0	0	67	26	0	0	0	0	0	0	0	0	0
2019	92	17	75	0	0	68	21	3	0	0	0	0	0	0	0	0

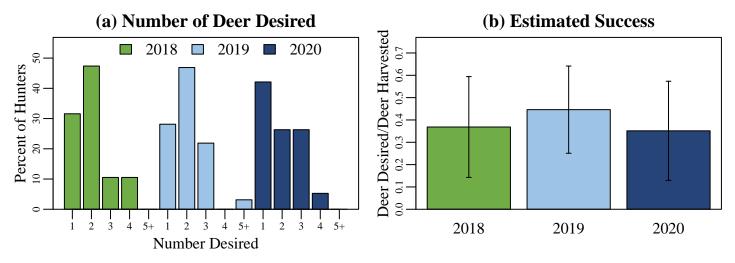
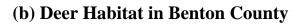


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Benton County Map





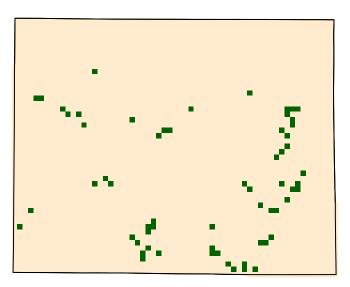


Figure 3. (a) Benton county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Benton county.

4/17/2020

#### **County Bonus Antlerless Quota**

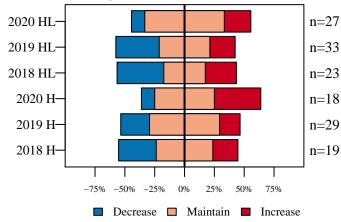
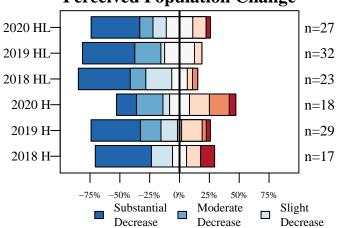
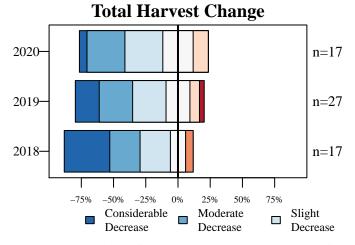


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Perceived Population Change** 

Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



### Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

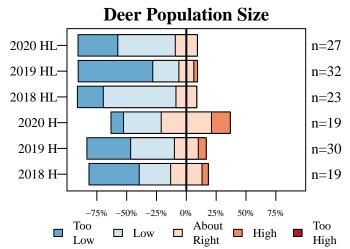
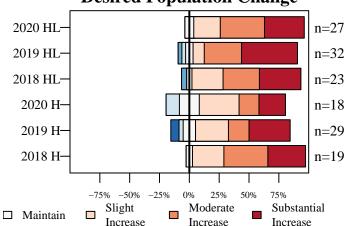
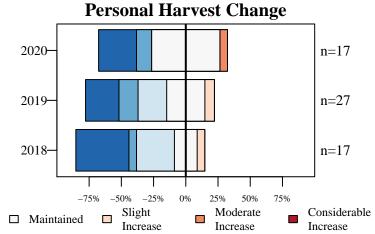


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

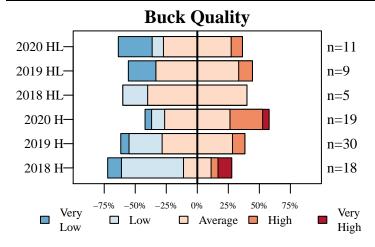
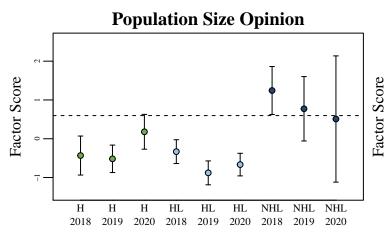


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



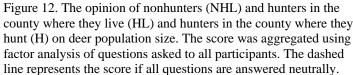




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

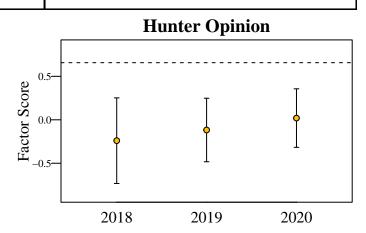
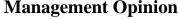


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



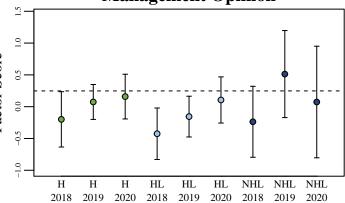


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

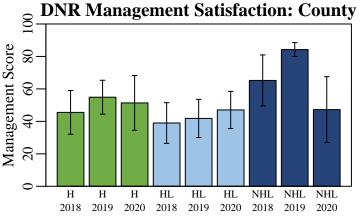


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 166 Square Miles of Deer Habitat: 20 Percent Deer Habitat: 12

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	288		165		9.17	123		6.83	42.71		361.71		1
2000 2007	$\frac{288}{385}$		$103 \\ 217$		9.17 12.06	$123 \\ 168$		9.33	42.71 43.64		358.22		1
2001	$\frac{360}{272}$		148		8.22	100		6.89	45.59		391.58		1
2000	237		140		7.00	111		6.17	46.84		335.53		1
2000	223	-1.39	126	-1.19	7.00	97	-1.64	5.39	43.50		338.46	-0.97	1
2010	334	0.83	176	0.52	9.78	158	$1.01 \\ 1.25$	8.78	47.31		291.00	-2.94	1
2012	214	-1.12	94	-1.67	5.22	120	-0.38	6.67	56.07		289.83	-1.45	1
2013	259	0.06	150	0.53	8.33	109	-0.57	6.06	42.08		308.87	-0.49	1
2014	309	1.15	166	1.03	9.22	143	1.03	7.94	46.28		315.65	0.12	1
2015	310	0.80	165	0.68	9.17	145	0.79	8.06	46.77		269.25	-1.97	1
2016	342	1.18	187	1.12	9.35	155	1.00	7.75	45.32		207.63	-4.80	1
2017	333	0.92	191	1.10	9.55	142	0.40	7.10	42.64		260.76	-0.40	1
2018	394	2.59	211	2.31	10.55	183	2.53	9.15	46.45		361.81	2.06	1
2019	459	3.50	245	3.18	12.25	214	3.51	10.70	46.62		406.40	2.11	1

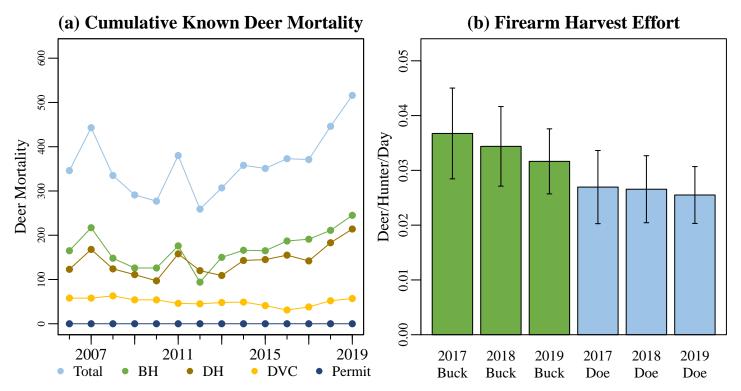


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 166 Square Miles of Deer Habitat: 20 Percent Deer Habitat: 12

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	284	137	147	0	0	113	149	20	2	0	0	0	0	0	0	0
2017	257	119	137	1	0	93	140	19	4	1	0	0	0	0	0	0
2018	309	150	158	1	0	109	171	24	5	0	0	0	0	0	0	0
2019	358	162	196	0	0	126	204	25	3	0	0	0	0	0	0	0

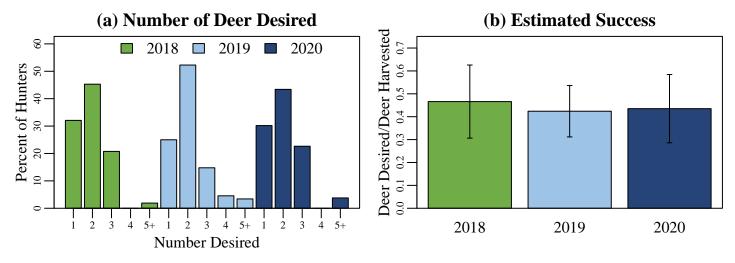


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Blackford County Map



(b) Deer Habitat in Blackford County

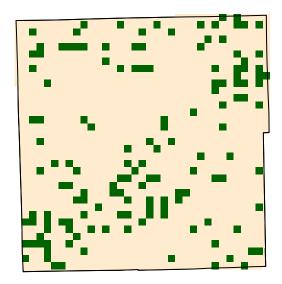


Figure 3. (a) Blackford county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Blackford county.

4/17/2020

#### **County Bonus Antlerless Quota**

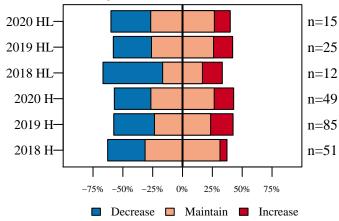


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

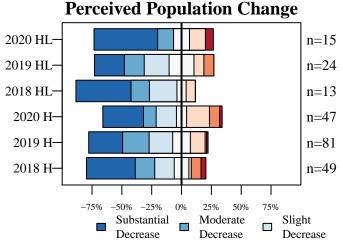


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

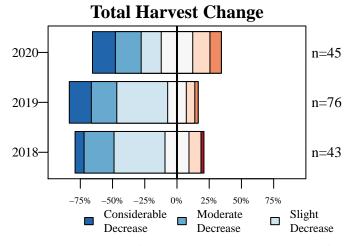
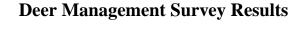


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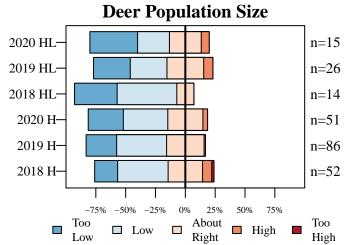
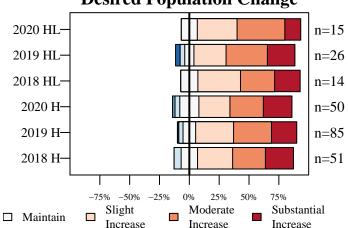
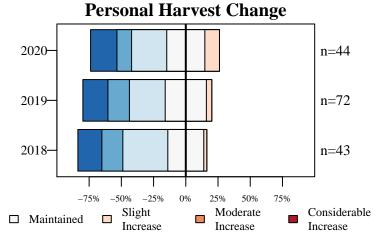


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



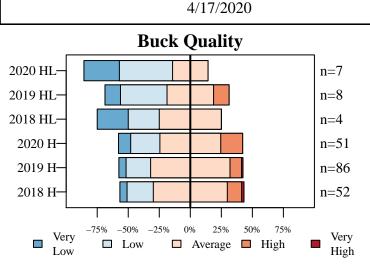
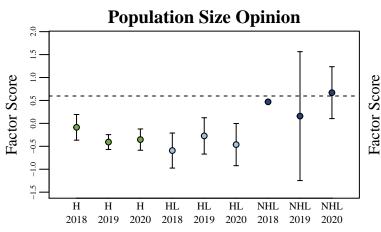
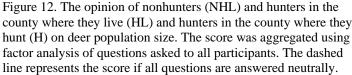


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





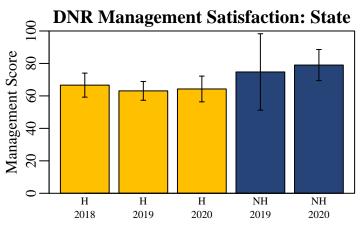


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

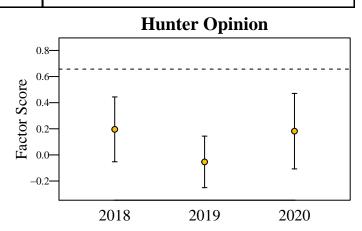


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**Management Opinion** 

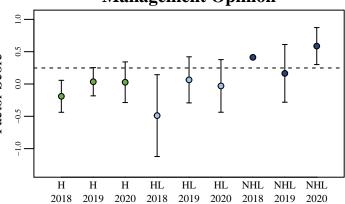


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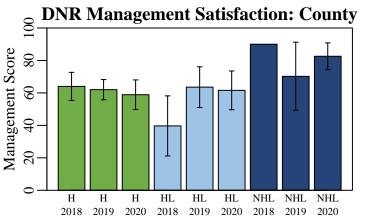


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 423 Square Miles of Deer Habitat: 39 Percent Deer Habitat: 9

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	353		205		5.54	148		4.00	41.93		150.23		2
2007	473		285		7.70	188		5.08	39.75		143.32		2
2008	305		184		4.97	121		3.27	39.67		132.06		3
2009	314		156		4.22	158		4.27	50.32		134.12		3
2010	311	-0.55	166	-0.70	4.49	145	-0.15	3.92	46.62		155.18	1.11	4
2011	460	1.54	259	1.16	7.00	201	2.02	5.43	43.70		133.77	-0.92	4
2012	453	0.94	199	-0.19	5.38	254	2.83	6.86	56.07		120.75	-1.95	4
2013	432	0.79	207	0.35	5.59	225	0.94	6.08	52.08		120.60	-1.17	4
2014	457	0.84	243	1.12	6.57	214	0.38	5.78	46.83		120.71	-0.86	4
2015	426	0.05	214	-0.02	5.78	212	0.10	5.73	49.77		133.66	0.23	4
2016	453	0.48	241	0.65	6.18	212	-0.46	5.44	46.80		129.67	0.53	4
2017	370	-5.25	209	-0.59	5.36	161	-3.48	4.13	43.51		96.20	-4.68	4
2018	396	-0.91	208	-0.83	5.33	188	-0.67	4.82	47.47		119.45	-0.05	2
2019	441	0.55	221	-0.11	5.67	220	0.98	5.64	49.89		126.01	0.42	2

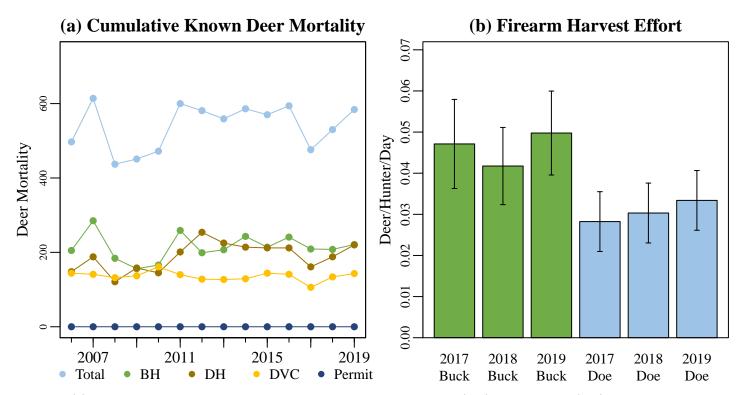


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 423 Square Miles of Deer Habitat: 39 Percent Deer Habitat: 9

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	353	159	190	4	0	146	174	24	5	3	0	1	0	0	0	0
2017	288	120	167	1	0	130	124	28	4	1	1	0	0	0	0	0
2018	309	142	165	2	0	128	142	35	3	0	0	1	0	0	0	0
2019	335	164	170	1	0	121	165	44	4	1	0	0	0	0	0	0

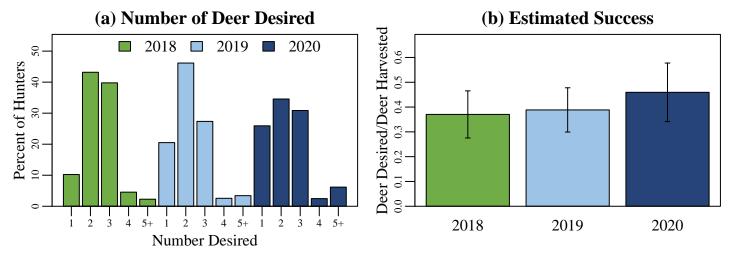


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Boone County Map

(b) Deer Habitat in Boone County

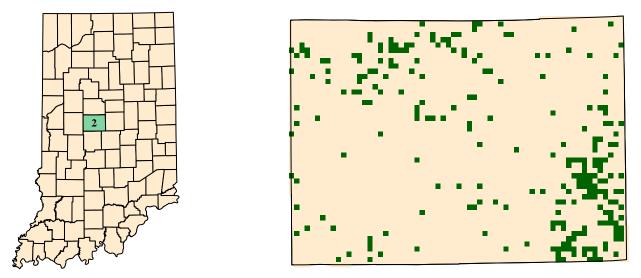


Figure 3. (a) Boone county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Boone county.

4/17/2020

#### **County Bonus Antlerless Quota**

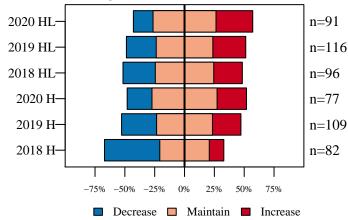


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

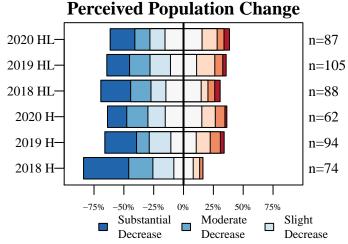


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

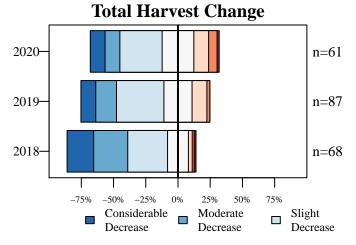
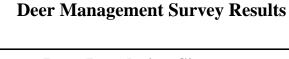


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



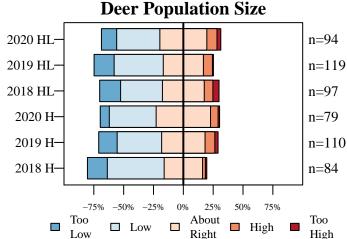
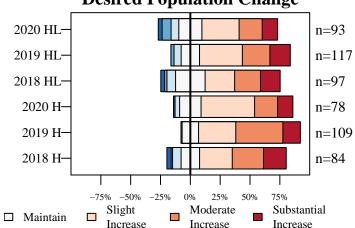
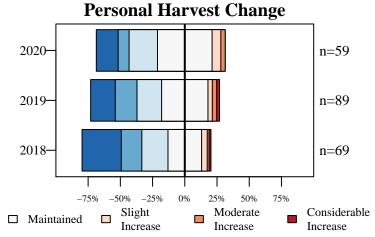


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### **Buck Quality**

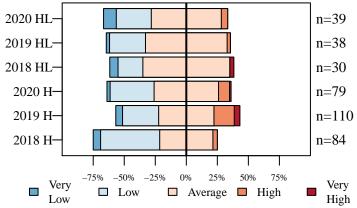
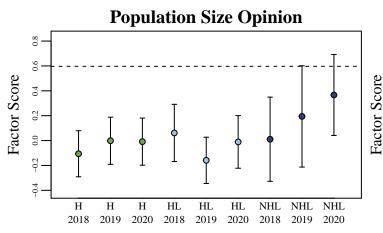


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



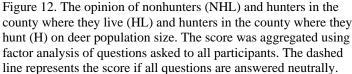




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

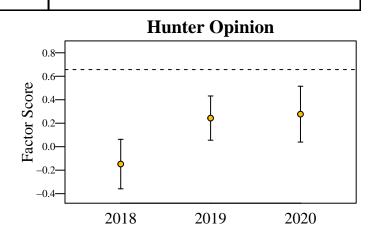


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



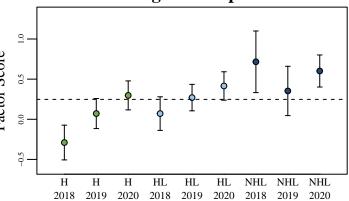


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

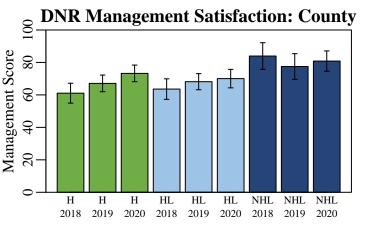


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 316 Square Miles of Deer Habitat: 287 Percent Deer Habitat: 91

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
					Habitat			Habitat			Haveled		
2006	$1,\!656$		858		2.86	798		2.66	48.19		487.56		3
2007	2,016		1,041		3.47	975		3.25	48.36		687.20		3
2008	$1,\!601$		772		2.57	829		2.76	51.78		690.29		3
2009	$1,\!632$		743		2.48	889		2.96	54.47		817.00		4
2010	1,517	-1.31	782	-0.73	2.61	735	-2.03	2.45	48.45		512.52	-0.36	4
2011	1,833	0.77	942	0.85	3.14	891	0.50	2.97	48.61		568.51	-0.51	4
2012	1,807	0.43	827	-0.22	2.76	980	1.31	3.27	54.23		772.85	0.99	4
2013	2,048	2.71	959	1.87	3.20	1,089	2.48	3.63	53.17		957.22	2.19	4
2014	1,574	-0.95	741	-1.14	2.47	833	-0.64	2.78	52.92		678.05	-0.26	4
2015	1,765	0.04	894	0.45	2.98	871	-0.25	2.90	49.35		895.36	1.12	4
2016	1,520	-1.68	794	-0.88	2.77	726	-2.01	2.53	47.76	117	635.94	-0.88	4
2017	1,455	-1.37	688	-1.82	2.40	767	-0.95	2.67	52.71	98	838.29	0.37	4
2018	1,454	-0.91	727	-0.80	2.53	727	-0.92	2.53	50.00	107	735.03	-0.48	4
2019	$1,\!624$	0.55	841	0.91	2.93	783	-0.03	2.73	48.21	97	912.72	1.44	2

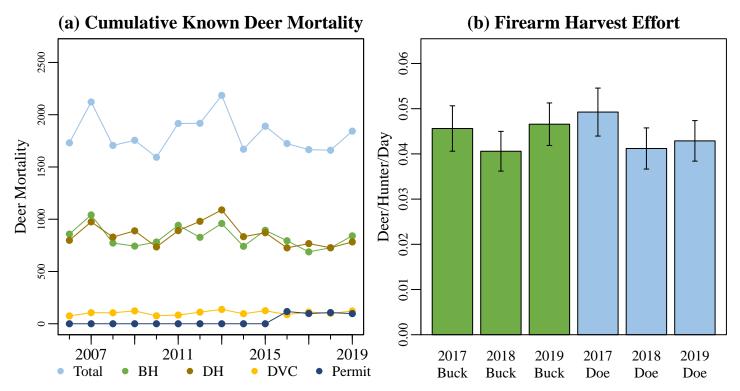


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 316 Square Miles of Deer Habitat: 287 Percent Deer Habitat: 91

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,207	614	591	2	0	460	605	111	26	5	0	0	0	0	0	0
2017	$1,\!091$	592	496	2	1	359	561	134	25	12	0	0	0	0	0	0
2018	$1,\!094$	575	509	9	1	384	556	118	27	4	4	0	0	0	0	0
2019	$1,\!227$	604	615	8	0	455	592	157	16	3	3	0	0	0	0	0

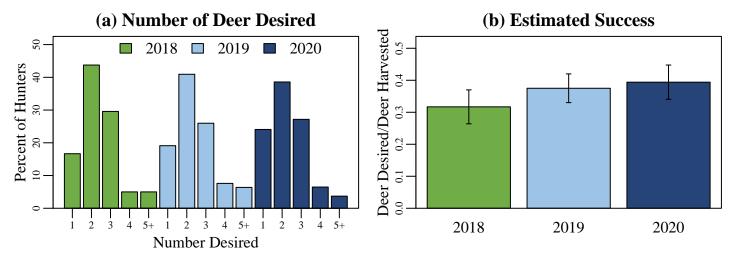


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Brown County Map



(b) Deer Habitat in Brown County

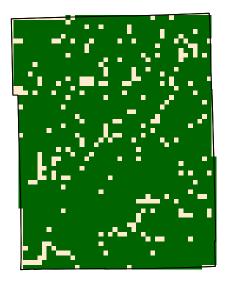


Figure 3. (a) Brown county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Brown county.

4/17/2020

#### **County Bonus Antlerless Quota**

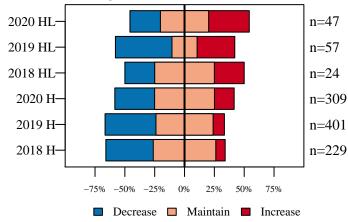


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

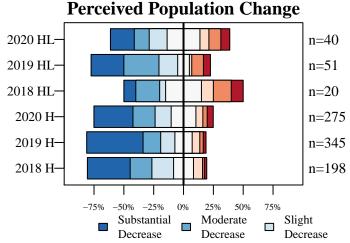


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

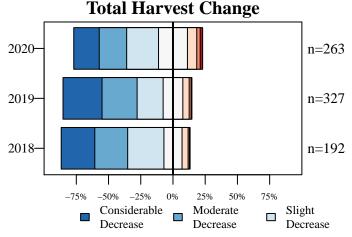
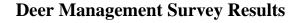


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



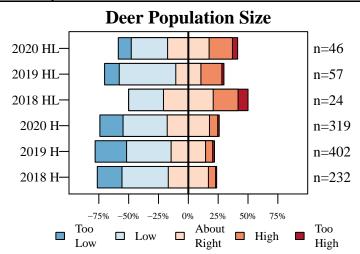


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

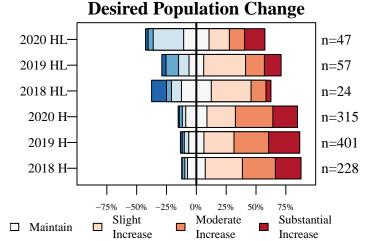
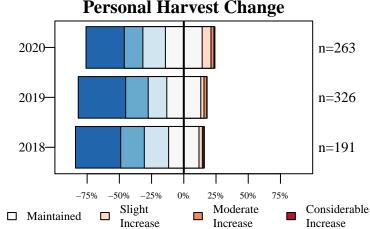


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### **Buck Quality**

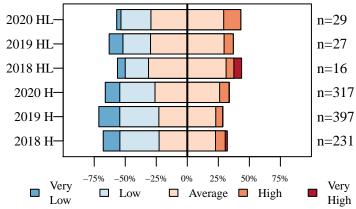
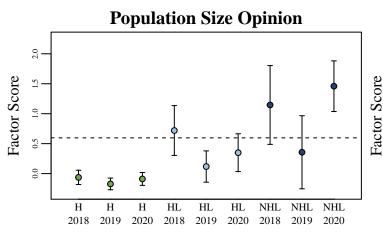


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



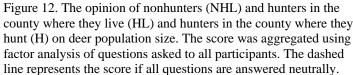




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

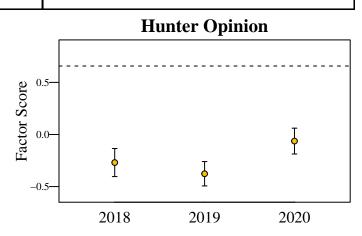


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

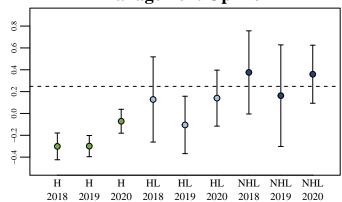


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

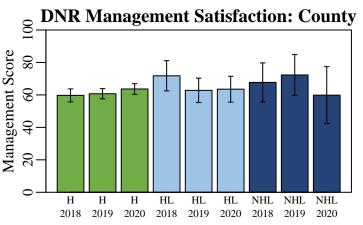


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 375 Square Miles of Deer Habitat: 51 Percent Deer Habitat: 14

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat		Taken	Traveled	DVC	
2006	869		436		8.23	433		8.17	49.83		476.89		2
2007	938		510		9.62	428		8.08	45.63		584.98		2
2008	774		412		7.77	362		6.83	46.77		542.58		2
2009	684		348		6.57	336		6.34	49.12		517.38		3
2010	705	-1.18	393	-0.67	7.42	312	-1.70	5.89	44.26		495.83	-0.17	3
2011	915	1.12	467	0.79	8.81	448	1.36	8.45	48.96		468.92	-1.29	3
2012	761	-0.36	371	-0.87	7.00	390	0.22	7.36	51.25		333.11	-4.25	3
2013	722	-0.51	346	-1.15	6.53	376	0.12	7.09	52.08		492.77	0.26	3
2014	871	1.23	449	1.29	8.47	422	0.95	7.96	48.45		472.03	0.14	3
2015	828	0.36	421	0.31	7.94	407	0.34	7.68	49.15		366.59	-1.27	3
2016	793	-0.34	437	0.51	8.57	356	-1.88	6.98	44.89		331.18	-1.33	3
2017	689	-1.83	372	-0.74	7.29	317	-2.84	6.22	46.01		447.67	0.63	2
2018	814	0.45	460	1.25	9.02	354	-0.52	6.94	43.49		495.62	1.05	2
2019	862	0.93	495	1.95	9.71	367	-0.10	7.20	42.58		470.59	0.68	2

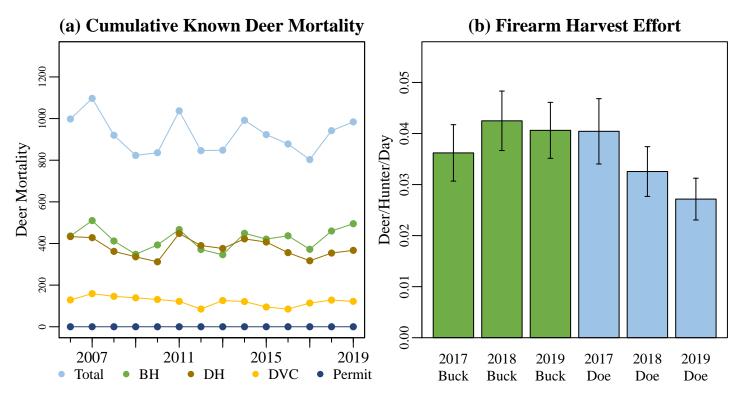


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 375 Square Miles of Deer Habitat: 51 Percent Deer Habitat: 14

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	633	267	364	2	0	285	280	61	5	2	0	0	0	0	0	0
2017	556	256	300	0	0	239	249	64	4	0	0	0	0	0	0	0
2018	650	272	378	0	0	286	295	66	3	0	0	0	0	0	0	0
2019	668	256	412	0	0	301	293	65	9	0	0	0	0	0	0	0

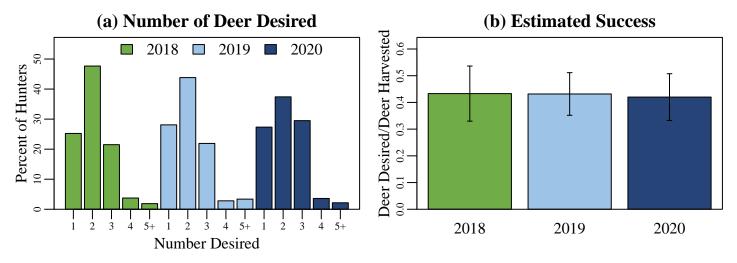


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Carroll County Map



(b) Deer Habitat in Carroll County

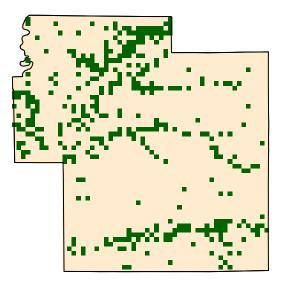


Figure 3. (a) Carroll county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Carroll county.

4/17/2020

#### **County Bonus Antlerless Quota**

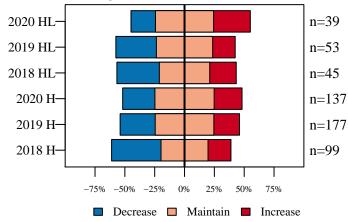


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

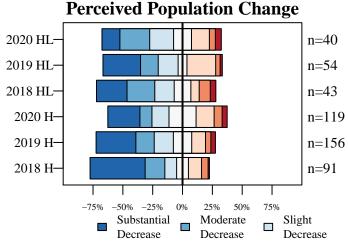


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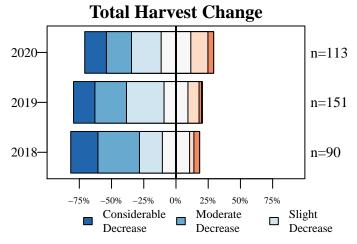
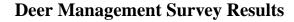


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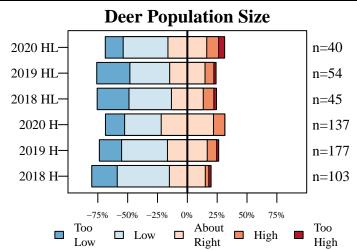
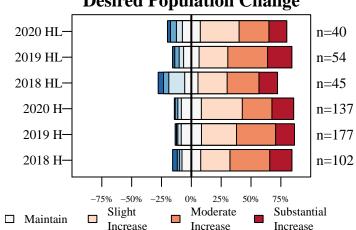
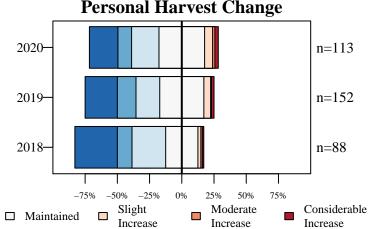


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### **Buck Quality**

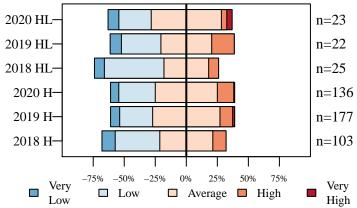
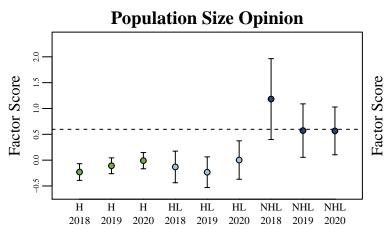
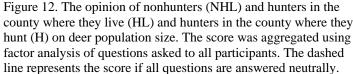


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





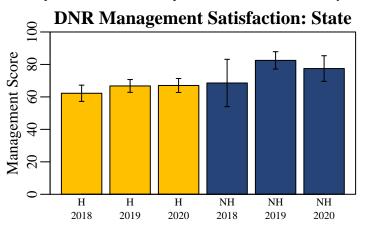


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

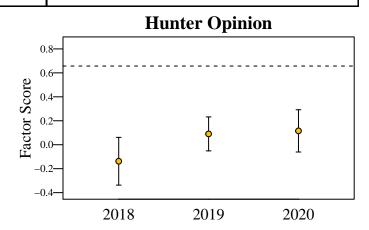


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**Management Opinion** 

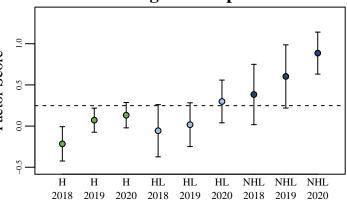


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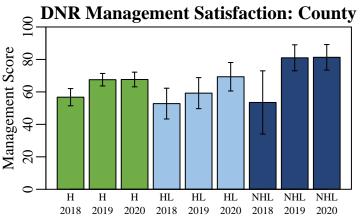


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

### **Cass County**

4/17/2020

Total Square Miles: 415 Square Miles of Deer Habitat: 66 Percent Deer Habitat: 16

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,353		694		10.21	659		9.69	48.71		677.23		2
2000 2007	1,535 1,549		853		10.21 12.54	696		10.24	44.93		516.63		$\frac{2}{2}$
2008	1,010 1.235		587		8.63	648		9.53	52.47		529.52		3
2009	1,145		580		8.53	565		8.31	49.34		477.21		3
2010	1,061	-1.62	542	-1.20	7.97	519	-2.25	7.63	48.92		531.84	-0.32	4
2011	1,349	0.42	693	0.33	10.19	656	0.53	9.65	48.63		503.12	-0.57	4
2012	$1,\!122$	-0.77	555	-0.76	8.16	567	-0.69	8.34	50.53		473.25	-1.71	4
2013	1,006	-1.57	461	-2.19	6.78	545	-0.78	8.01	54.17		471.86	-1.12	4
2014	$1,\!148$	0.09	597	0.37	8.78	551	-0.38	8.10	48.00		476.84	-0.56	3
2015	1,161	0.18	627	0.68	9.22	534	-0.64	7.85	45.99		401.96	-3.44	3
2016	$1,\!130$	-0.22	629	0.49	9.53	501	-1.41	7.59	44.34	4	349.92	-3.06	3
2017	974	-2.25	514	-0.86	7.79	460	-3.23	6.97	47.23		525.37	1.60	2
2018	1,043	-0.47	574	0.11	8.70	469	-1.30	7.11	44.97		400.92	-0.64	2
2019	$1,\!150$	0.73	659	1.50	9.98	491	-0.30	7.44	42.70	2	476.61	0.66	2

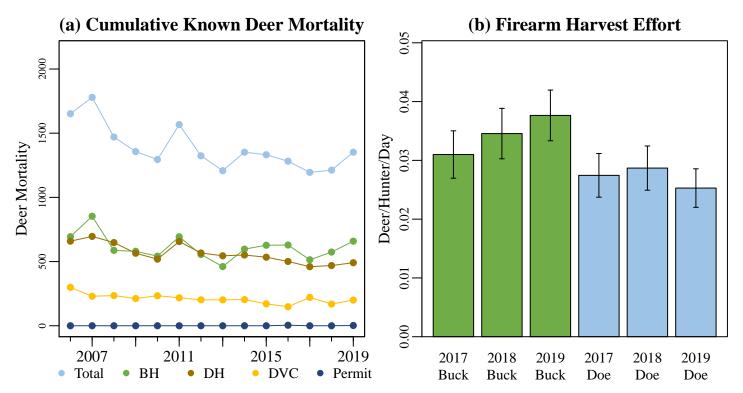


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

### **Cass County**

4/17/2020

Total Square Miles: 415 Square Miles of Deer Habitat: 66 Percent Deer Habitat: 16

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	864	350	512	2	0	382	372	92	15	2	1	0	0	0	0	0
2017	767	345	421	1	0	320	355	81	10	1	0	0	0	0	0	0
2018	816	326	489	1	0	355	378	75	8	0	0	0	0	0	0	0
2019	911	344	567	0	0	431	382	93	5	0	0	0	0	0	0	0

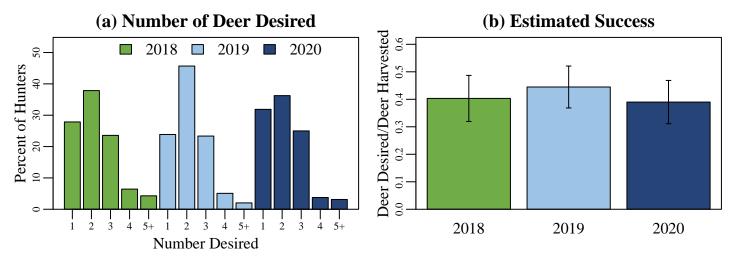


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Cass County Map



(b) Deer Habitat in Cass County

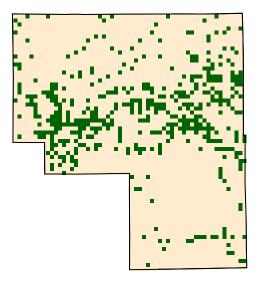


Figure 3. (a) Cass county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Cass county.

## **Cass County**

4/17/2020

#### **County Bonus Antlerless Quota**

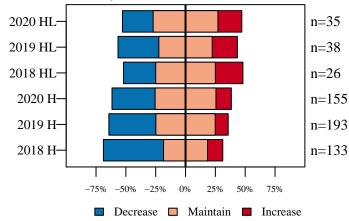


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

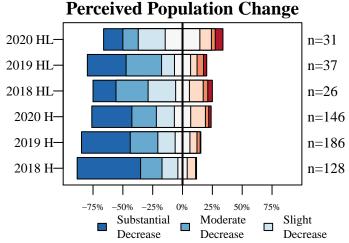


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

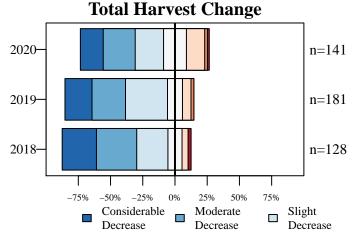
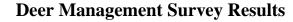


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



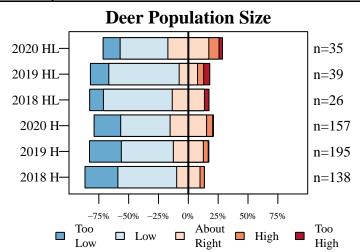
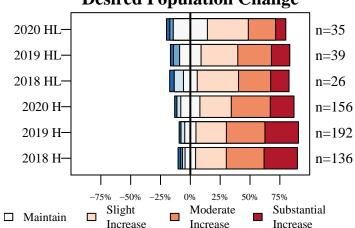
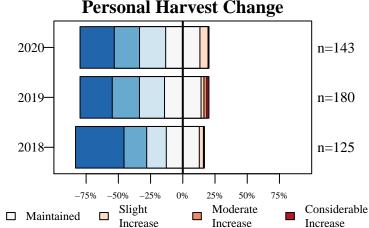


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



### **Cass County**

4/17/2020

### **Buck Quality**

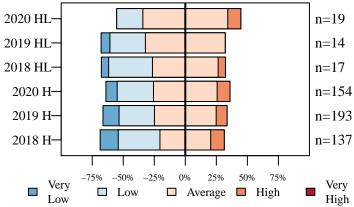


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

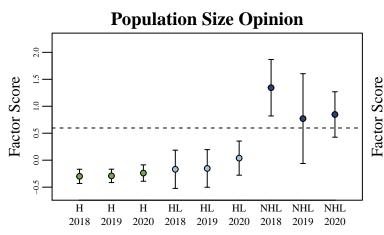


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

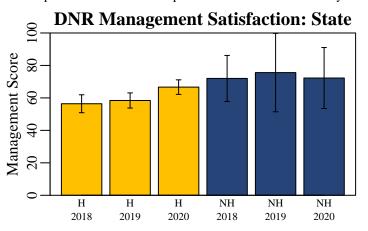


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

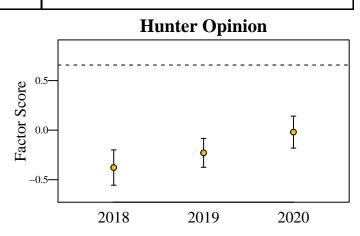


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

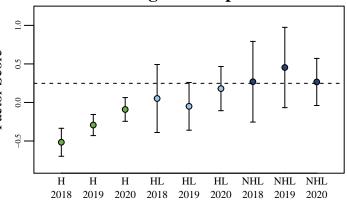


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

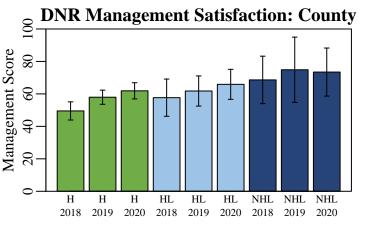


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 376 Square Miles of Deer Habitat: 242 Percent Deer Habitat: 64

Year	Total	Total Trand	Buck	Buck	Buck	Doe	Doe Trop d	Doe	% Doe	Damage Damait	DVC	Total Trond	CBAQ
		Trend in SD	Harvest	Trend in SD	Harvest per SQ	Harvest	Trend in SD	Harvest per SQ	in Harvest	Permit Deer	per Billion	Trend in	
		III SD		III SD	•		III SD	•	narvest				
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	$1,\!954$		989		3.88	965		3.78	49.39		197.86		8
2007	1,728		861		3.38	867		3.40	50.17		186.51		8
2008	1,827		881		3.45	946		3.71	51.78		183.36		8
2009	$1,\!698$		873		3.42	825		3.24	48.59		185.26		8
2010	1,784	-0.40	873	-0.69	3.42	911	0.17	3.57	51.07		175.42	-2.15	8
2011	1,792	-0.06	889	-0.12	3.49	903	0.00	3.54	50.39		185.53	-0.02	8
2012	2,042	5.32	961	8.21	3.77	1,081	4.13	4.24	52.94		177.99	-1.16	8
2013	2,021	1.50	894	-0.04	3.51	1,127	2.07	4.42	55.76		201.19	4.32	8
2014	1,915	0.31	927	0.80	3.64	988	0.14	3.87	51.59		178.37	-0.67	8
2015	1,960	0.40	932	0.66	3.65	1,028	0.26	4.03	52.45		178.40	-0.51	8
2016	1,933	-0.13	1,013	3.12	4.19	920	-1.22	3.80	47.59	35	165.58	-1.88	8
2017	1,813	-2.92	885	-1.35	3.66	928	-1.25	3.83	51.19	45	164.14	-1.25	4
2018	1,514	-5.45	771	-3.15	3.19	743	-3.02	3.07	49.08	45	137.59	-2.69	8
2019	1,278	-2.99	698	-2.35	2.88	580	-3.13	2.40	45.38	55	109.82	-3.30	2

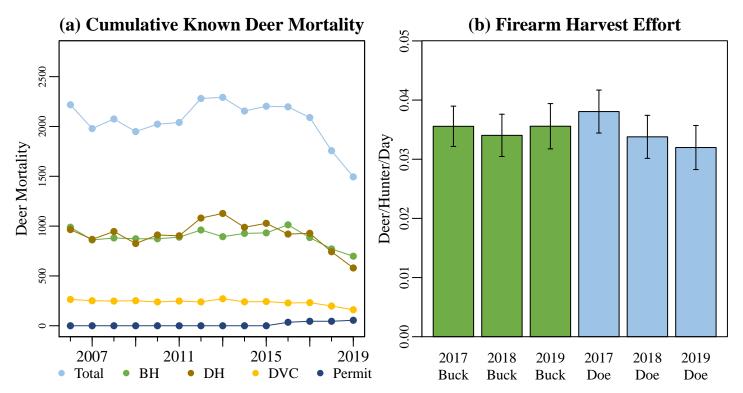


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 376 Square Miles of Deer Habitat: 242 Percent Deer Habitat: 64

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 ·s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,369	548	813	8	0	575	575	166	30	14	4	4	1	0	0	0
2017	$1,\!294$	590	699	5	0	497	564	177	42	11	2	1	0	0	0	0
2018	$1,\!086$	485	597	4	0	443	458	138	26	12	6	2	1	0	0	0
2019	997	444	550	3	0	408	475	100	10	3	1	0	0	0	0	0

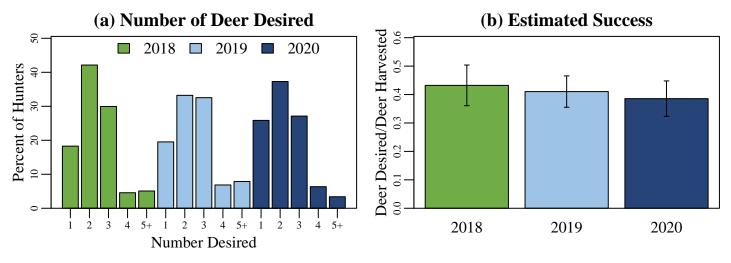


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Clark County Map

(b) Deer Habitat in Clark County

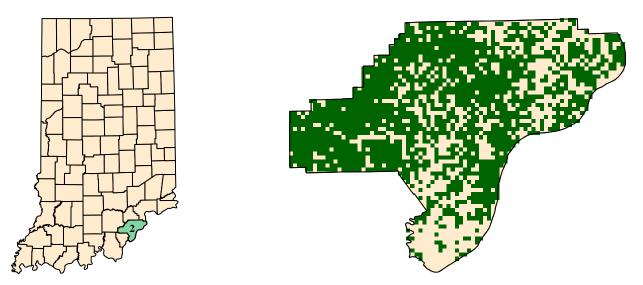


Figure 3. (a) Clark county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Clark county.

4/17/2020

#### **County Bonus Antlerless Quota**

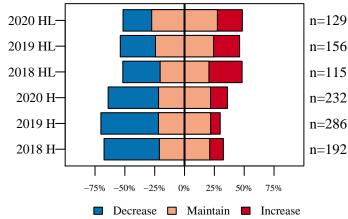


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

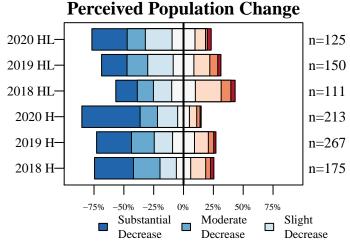


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

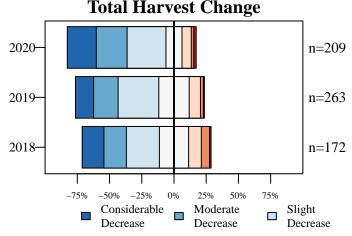


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

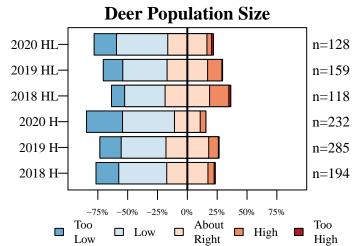
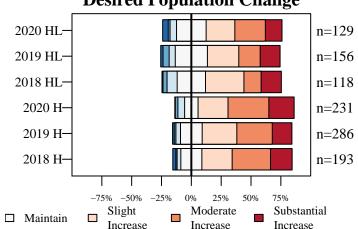
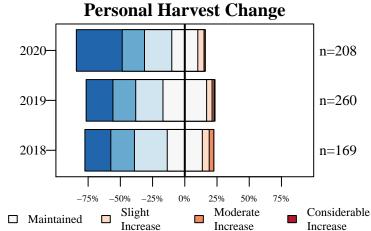


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

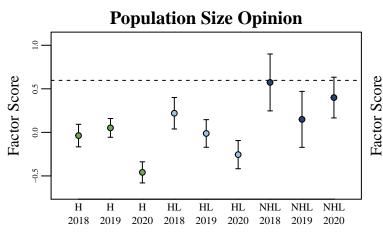
Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

**Buck Quality** 2020 HL n=58 2019 HLn=70 2018 HLn=42 2020 Hn=231 2019 Hn=287 n=193 2018 H· -50% 0% 25% 50% 75% -25%-75%Very Very Low High Average High Low

Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



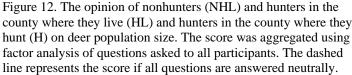




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

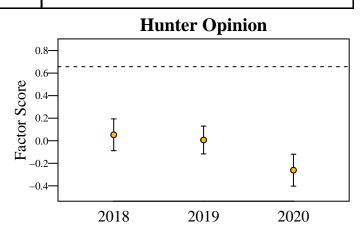


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

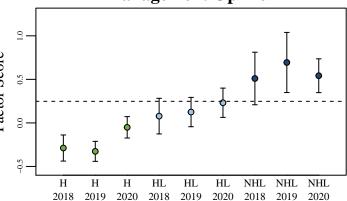


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

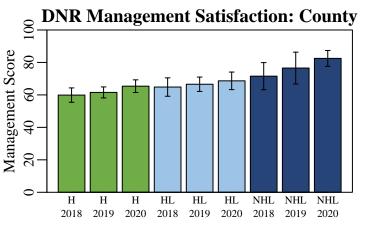


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 360 Square Miles of Deer Habitat: 134 Percent Deer Habitat: 37

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,193		539		4.02	654		4.88	54.82		285.98		8
2007	$1,\!108$		598		4.46	510		3.81	46.03		284.98		4
2008	986		538		4.01	448		3.34	45.44		246.68		4
2009	1,036		574		4.28	462		3.45	44.59		256.23		4
2010	1,111	-0.17	600	0.08	4.48	511	-0.32	3.81	45.99		247.16	-1.27	4
2011	$1,\!104$	0.22	623	1.75	4.65	481	-0.44	3.59	43.57		270.46	0.32	4
2012	$1,\!240$	3.06	597	0.32	4.46	643	5.69	4.80	51.85		254.72	-0.39	8
2013	1,052	-0.45	520	-2.07	3.88	532	0.29	3.97	50.57		334.37	8.23	4
2014	1,054	-0.68	532	-1.30	3.97	522	-0.05	3.90	49.53		283.50	0.31	4
2015	$1,\!176$	0.83	617	0.94	4.60	559	0.34	4.17	47.53		267.30	-0.31	4
2016	1,205	0.98	673	1.97	5.02	532	-0.26	3.97	44.15	1	326.36	1.43	4
2017	$1,\!194$	0.56	609	0.34	4.54	585	0.55	4.37	48.99		257.60	-1.00	4
2018	1,165	0.38	662	1.13	4.94	503	-1.67	3.75	43.18		268.38	-0.73	3
2019	1,132	-0.44	615	-0.06	4.59	517	-0.72	3.86	45.67		182.86	-3.60	2

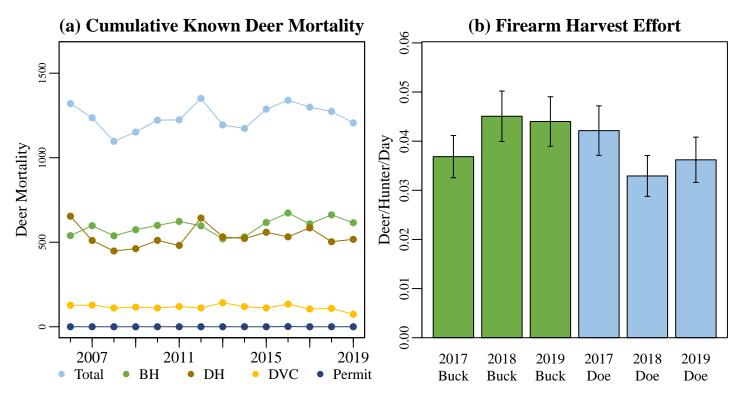


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 360 Square Miles of Deer Habitat: 134 Percent Deer Habitat: 37

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	967	427	540	0	0	430	428	92	15	2	0	0	0	0	0	0
2017	910	424	486	0	0	382	382	120	18	8	0	0	0	0	0	0
2018	909	368	540	1	0	415	381	98	14	1	0	0	0	0	0	0
2019	902	404	498	0	0	384	415	93	8	1	1	0	0	0	0	0

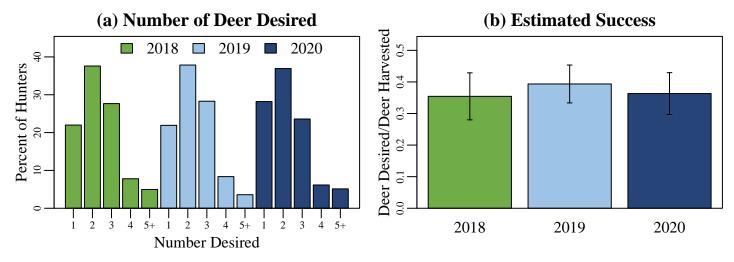


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Clay County Map



(b) Deer Habitat in Clay County

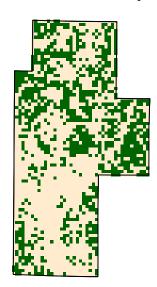


Figure 3. (a) Clay county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Clay county.

4/17/2020

#### **County Bonus Antlerless Quota**

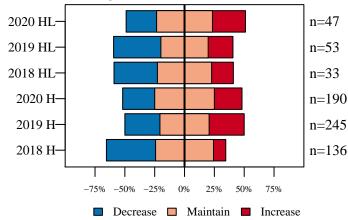


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

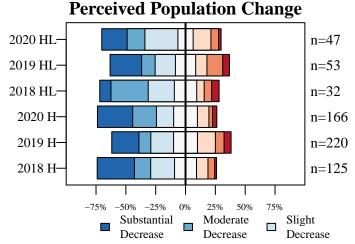


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

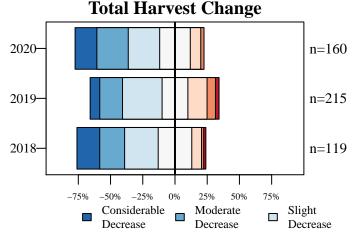


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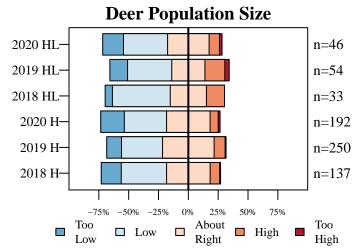
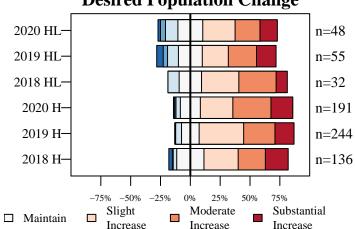
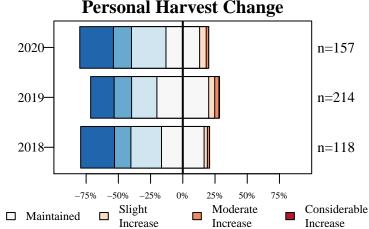


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

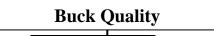


#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020



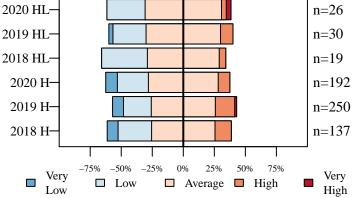
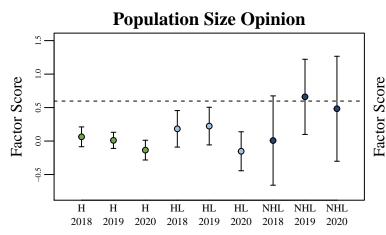


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



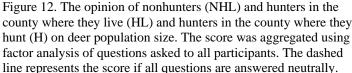




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

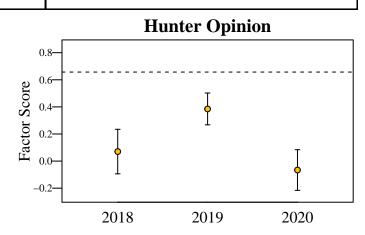


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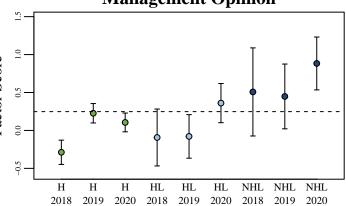


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

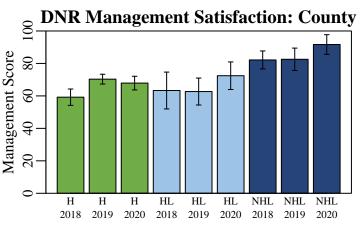


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 405 Square Miles of Deer Habitat: 25 Percent Deer Habitat: 6

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	328		174		6.69	154		5.92	46.95		241.00		2
2007	355		206		7.92	149		5.73	41.97		243.21		2
2008	344		190		7.31	154		5.92	44.77		190.68		2
2009	341		194		7.46	147		5.65	43.11		252.13		2
2010	355	1.14	203	0.89	7.81	152	0.50	5.85	42.82		225.27	-0.40	2
2011	364	1.73	201	0.60	7.73	163	3.79	6.27	44.78		201.84	-1.18	2
2012	383	3.35	201	0.33	7.73	182	4.67	7.00	47.52		184.92	-1.44	2
2013	386	1.68	214	2.92	8.23	172	0.90	6.62	44.56		180.44	-1.10	2
2014	339	-1.41	184	-2.57	7.08	155	-0.57	5.96	45.72		237.69	0.96	2
2015	336	-1.50	180	-1.92	6.92	156	-0.71	6.00	46.43		180.15	-1.04	2
2016	334	-1.17	194	-0.14	7.76	140	-2.24	5.60	41.92		158.46	-1.58	2
2017	315	-1.53	177	-1.29	7.08	138	-1.41	5.52	43.81		234.30	1.56	2
2018	314	-1.06	196	0.41	7.84	118	-2.47	4.72	37.58		156.43	-1.17	2
2019	381	4.41	239	6.26	9.56	142	0.04	5.68	37.27		230.42	0.93	2

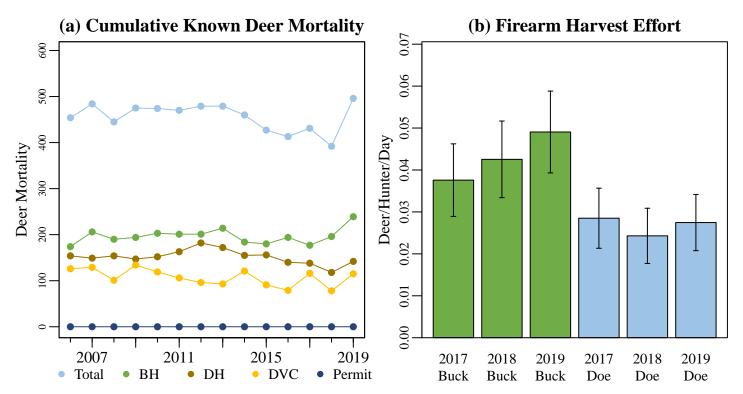


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 405 Square Miles of Deer Habitat: 25 Percent Deer Habitat: 6

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	3 AL	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	279	117	162	0	0	135	120	20	4	0	0	0	0	0	0	0
2017	256	114	141	1	0	108	124	24	0	0	0	0	0	0	0	0
2018	258	90	168	0	0	135	105	14	3	1	0	0	0	0	0	0
2019	316	109	207	0	0	166	127	22	1	0	0	0	0	0	0	0

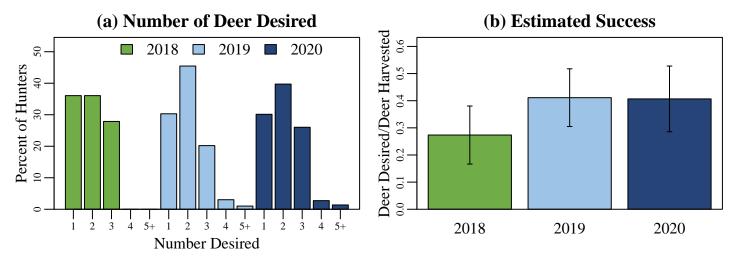


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).





### (b) Deer Habitat in Clinton County

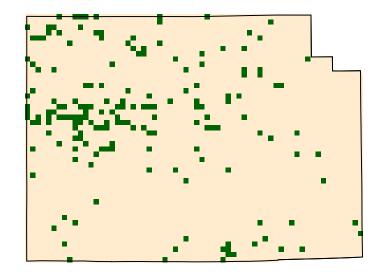


Figure 3. (a) Clinton county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Clinton county.

4/17/2020

#### **County Bonus Antlerless Quota**

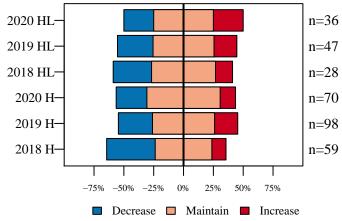


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

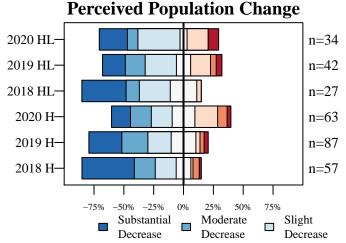


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

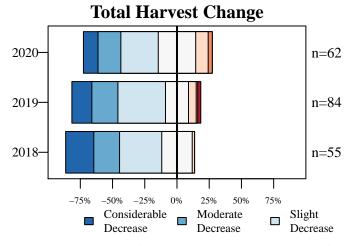
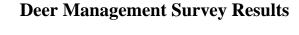


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



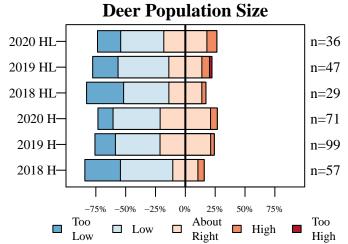
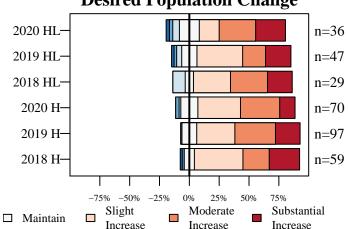
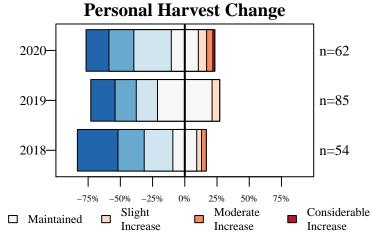


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

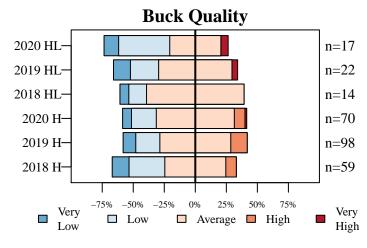


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

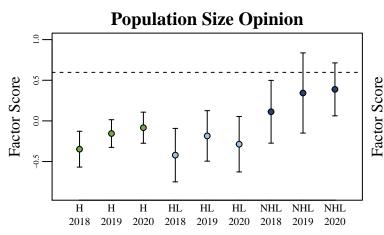


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

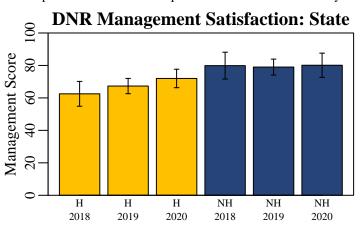


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

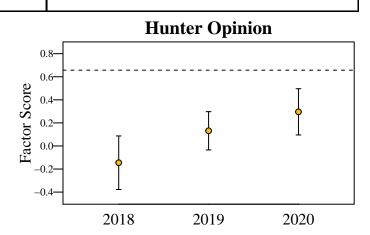


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



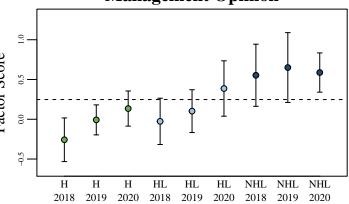


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

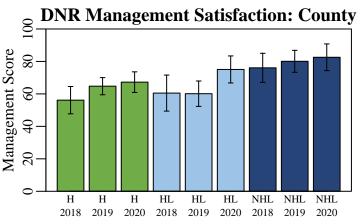


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 309 Square Miles of Deer Habitat: 273 Percent Deer Habitat: 89

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,650		905		3.19	745		2.62	45.15		539.97		2
2007	$1,\!471$		742		2.61	729		2.57	49.56		478.16		4
2008	1,739		855		3.01	884		3.11	50.83		411.69		4
2009	1,790		923		3.25	867		3.05	48.44		447.67		4
2010	$1,\!680$	0.23	784	-0.89	2.76	896	1.33	3.15	53.33		331.01	-1.99	8
2011	1,925	2.13	926	1.09	3.26	999	2.17	3.52	51.90		361.34	-1.03	8
2012	2,169	2.69	982	1.65	3.46	$1,\!187$	3.23	4.18	54.73		326.40	-1.32	8
2013	2,348	2.50	1,062	2.20	3.74	1,286	2.39	4.53	54.77		354.98	-0.39	8
2014	$2,\!174$	0.70	964	0.28	3.39	1,210	0.89	4.26	55.66		336.52	-0.57	8
2015	$2,\!370$	1.20	$1,\!185$	2.36	4.17	$1,\!185$	0.43	4.17	50.00		528.59	12.19	8
2016	2,031	-0.93	1,053	0.28	3.86	978	-1.85	3.58	48.15	5	466.23	1.02	8
2017	2,236	0.12	$1,\!117$	0.78	4.09	1,119	-0.44	4.10	50.04	1	555.98	1.71	8
2018	1,878	-2.56	937	-1.70	3.43	941	-1.85	3.45	50.11	11	537.61	0.90	4
2019	1,788	-1.85	929	-1.18	3.40	859	-1.87	3.15	48.04	3	403.20	-0.91	2

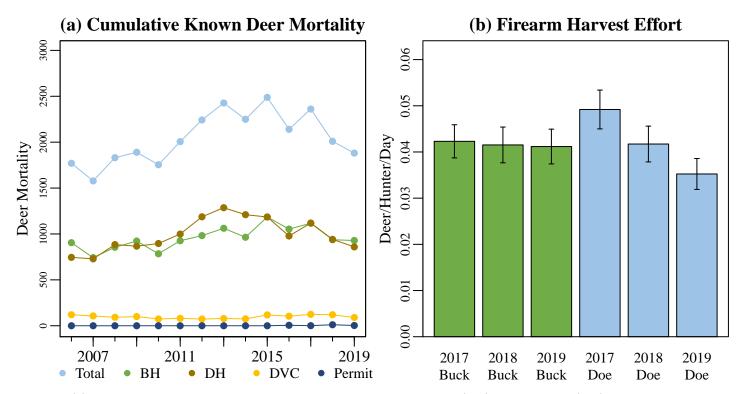


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 309 Square Miles of Deer Habitat: 273 Percent Deer Habitat: 89

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,514	663	850	1	0	640	666	146	39	16	4	2	0	1	0	0
2017	1,574	692	882	0	0	613	684	202	47	19	7	1	0	1	0	0
2018	$1,\!413$	653	760	0	0	558	642	170	36	7	0	0	0	0	0	0
2019	$1,\!394$	645	744	5	0	557	652	174	10	1	0	0	0	0	0	0

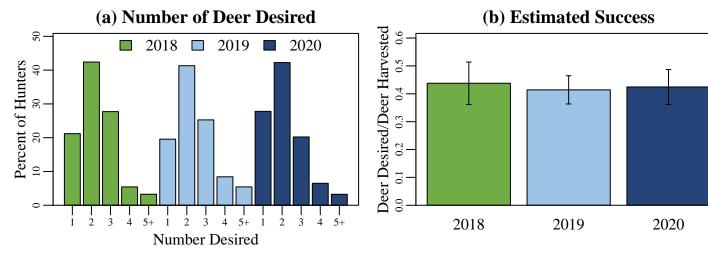


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Crawford County Map



(b) Deer Habitat in Crawford County

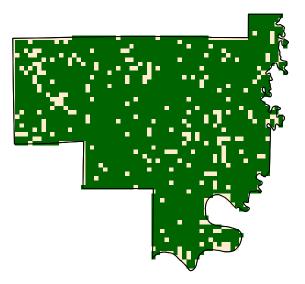


Figure 3. (a) Crawford county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Crawford county.

4/17/2020

#### **County Bonus Antlerless Quota**

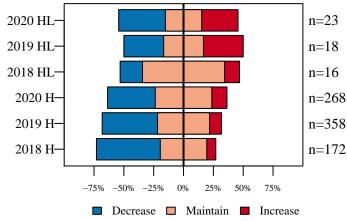


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

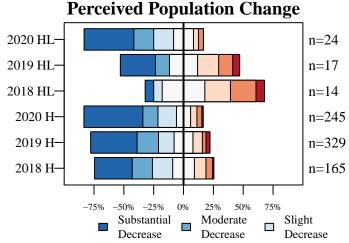


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

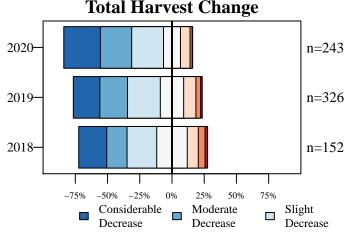


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



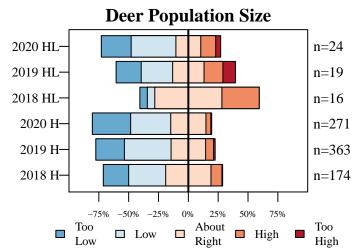
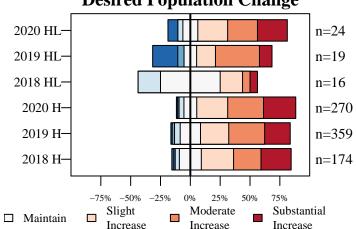
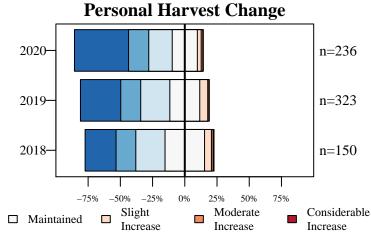


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

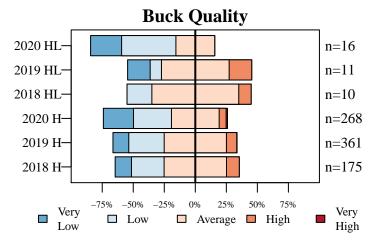


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

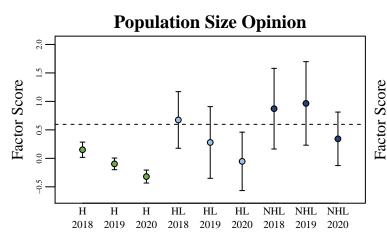


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

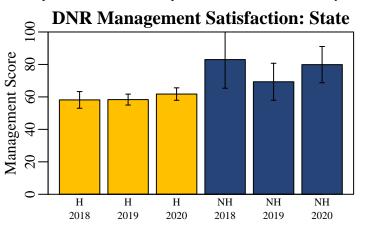


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).



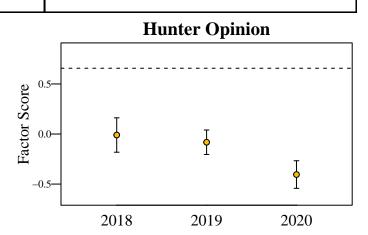


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

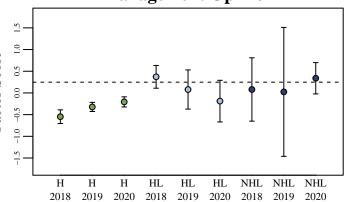


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

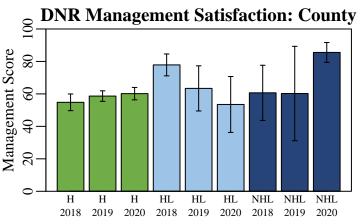


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 436 Square Miles of Deer Habitat: 132 Percent Deer Habitat: 30

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
			0 = 0						<b>F</b> O.04				
2006	$1,\!459$		672		5.60	787		6.56	53.94		111.54		4
2007	1,163		545		4.54	618		5.15	53.14		102.30		4
2008	$1,\!143$		541		4.51	602		5.02	52.67		66.51		4
2009	1,027		529		4.41	498		4.15	48.49		90.63		4
2010	1,065	-0.94	504	-1.08	4.20	561	-0.74	4.67	52.68		51.74	-1.16	4
2011	1,112	-0.35	528	-0.46	4.40	584	-0.27	4.87	52.52		52.30	-1.29	3
2012	1,164	1.11	530	0.04	4.42	634	1.31	5.28	54.47		96.82	1.05	3
2013	1,081	-0.38	507	-1.43	4.22	574	-0.04	4.78	53.10		144.09	3.43	3
2014	1,061	-0.56	509	-0.82	4.24	552	-0.37	4.60	52.03		105.32	0.48	2
2015	981	-2.71	506	-0.78	4.22	475	-3.31	3.96	48.42		89.09	-0.02	2
2016	883	-2.91	522	0.50	3.95	361	-3.50	2.73	40.88	12	100.29	0.08	1
2017	955	-0.74	512	-0.26	3.88	443	-0.72	3.36	46.39	7	123.33	0.75	1
2018	916	-0.94	511	-0.03	3.87	405	-0.88	3.07	44.21	5	92.45	-0.93	1
2019	967	0.11	550	6.29	4.17	417	-0.42	3.16	43.12	5	88.66	-1.00	1

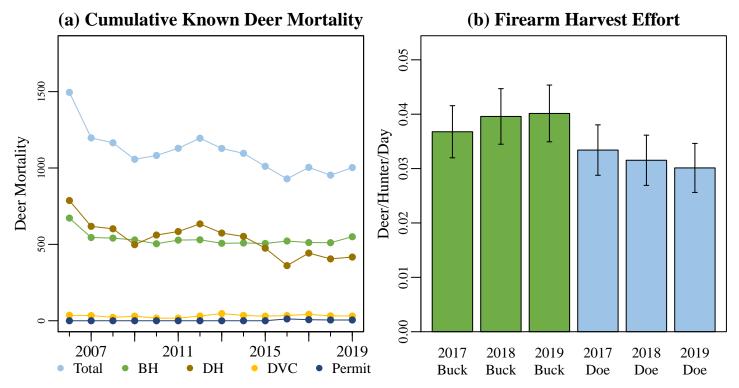


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 436 Square Miles of Deer Habitat: 132 Percent Deer Habitat: 30

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	770	342	426	1	0	354	384	29	3	0	0	0	0	0	0	0
2017	803	404	397	2	0	313	431	54	5	0	0	0	0	0	0	0
2018	790	376	413	1	0	335	415	34	6	0	0	0	0	0	0	0
2019	822	367	453	2	0	356	427	35	3	1	0	0	0	0	0	0

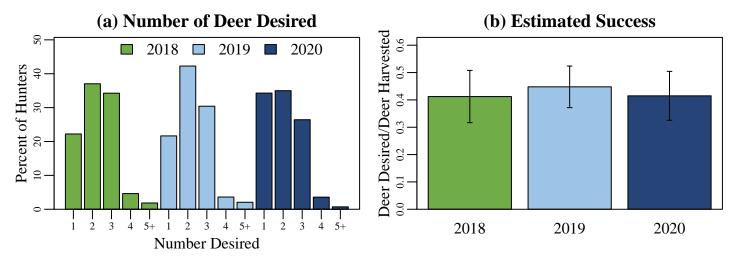


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Daviess County Map



(b) Deer Habitat in Daviess County

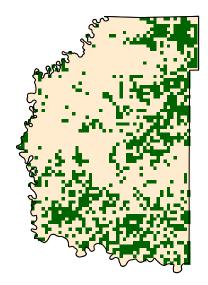


Figure 3. (a) Daviess county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Daviess county.

4/17/2020

#### **County Bonus Antlerless Quota**

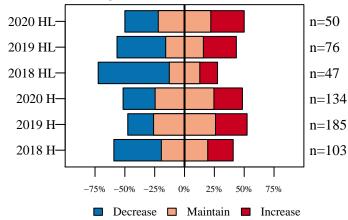


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

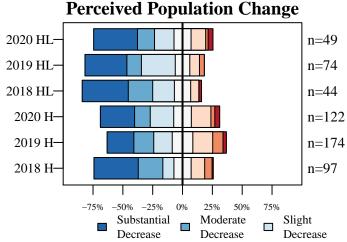


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

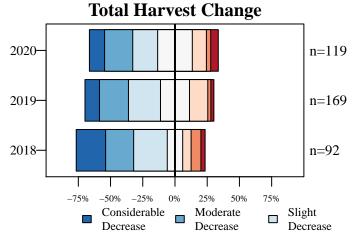
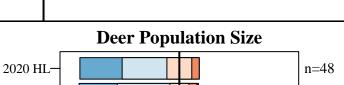


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

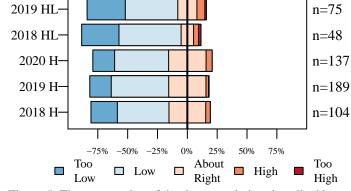
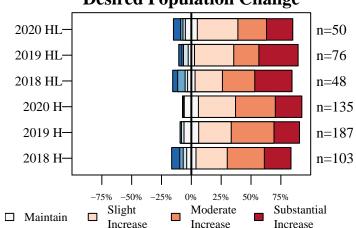
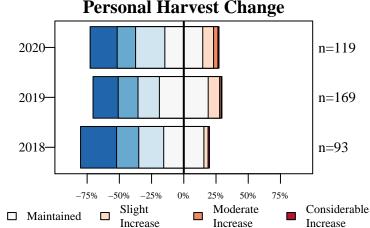


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

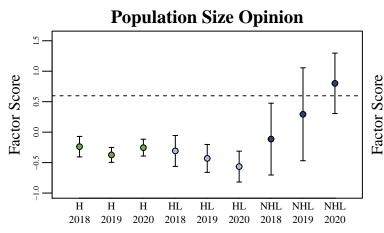
Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

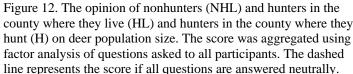


4/17/2020

#### **Buck Quality** 2020 HL n=12 2019 HLn=26 2018 HLn=18 2020 Hn=136 n=189 2019 Hn=106 2018 H· 25% 50% -50%-25%0% 75% -75%Very Very Low High Average High Low

Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





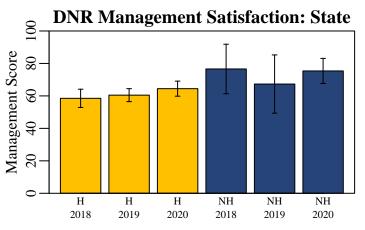


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

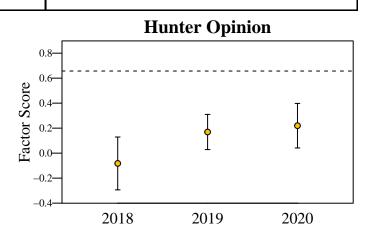


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



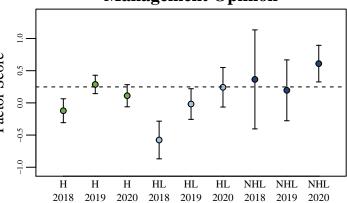


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

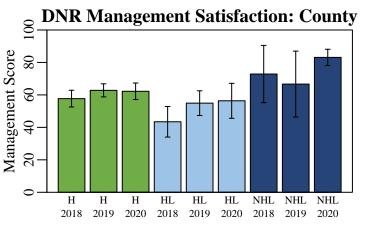


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 307 Square Miles of Deer Habitat: 249 Percent Deer Habitat: 81

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	2,542		1,112		4.34	1,430		5.59	56.25		565.41		8
2007	2,622		1,188		4.64	1,434		5.60	54.69		564.13		8
2008	2,527		1,138		4.45	1,389		5.43	54.97		496.49		8
2009	2,958		1,421		5.55	1,537		6.00	51.96		481.06		8
2010	2,833	0.88	1,317	0.68	5.14	1,516	1.28	5.92	53.51		550.27	0.60	8
2011	2,885	0.99	1,352	0.90	5.28	1,533	1.15	5.99	53.14		470.37	-1.54	8
2012	$3,\!167$	2.20	1,328	0.38	5.19	1,839	5.36	7.18	58.07		448.93	-1.51	8
2013	2,224	-2.80	1,004	-2.93	3.92	1,220	-2.06	4.77	54.86		478.39	-0.29	8
2014	2,534	-0.79	$1,\!135$	-0.92	4.43	1,399	-0.59	5.46	55.21		517.62	0.83	4
2015	2,560	-0.47	1,324	0.64	5.17	1,236	-1.17	4.83	48.28		504.06	0.27	4
2016	2,365	-0.85	1,287	0.38	5.17	1,078	-1.44	4.33	45.58	51	414.43	-2.54	4
2017	$2,\!297$	-0.76	$1,\!113$	-0.72	4.47	$1,\!184$	-0.58	4.76	51.55	69	435.67	-0.89	4
2018	2,313	-0.57	1,090	-0.63	4.38	1,223	0.00	4.91	52.88	83	393.07	-1.75	4
2019	$2,\!314$	-0.80	1,268	0.73	5.09	1,046	-1.54	4.20	45.20	51	477.22	0.44	2

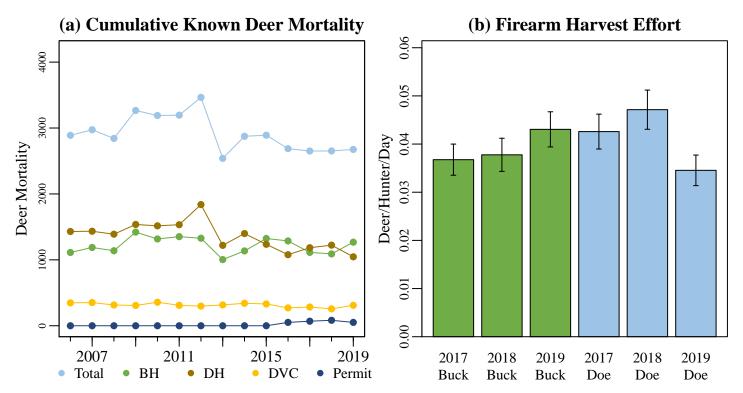


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 307 Square Miles of Deer Habitat: 249 Percent Deer Habitat: 81

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,775	734	1,007	34	0	797	743	173	48	13	1	0	0	0	0	0
2017	$1,\!663$	805	855	3	0	636	728	213	66	16	4	0	0	0	0	0
2018	$1,\!606$	755	845	6	0	595	691	225	72	20	2	0	0	0	1	0
2019	1,720	660	$1,\!053$	7	0	757	733	195	21	11	2	0	1	0	0	0

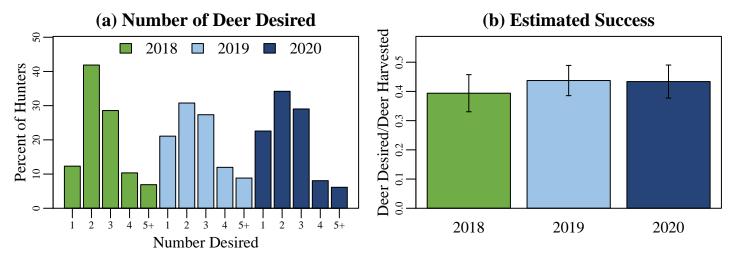


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Dearborn County Map



(b) Deer Habitat in Dearborn County

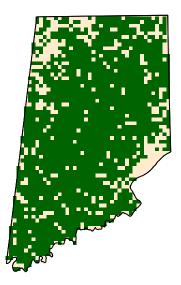


Figure 3. (a) Dearborn county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Dearborn county.

4/17/2020

#### **County Bonus Antlerless Quota**

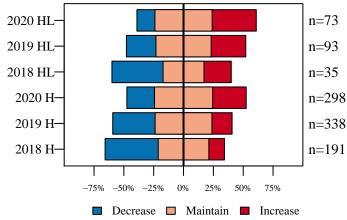


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

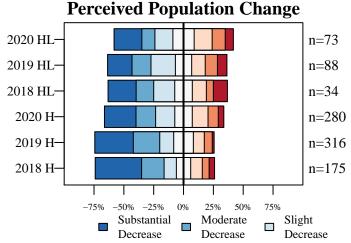


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

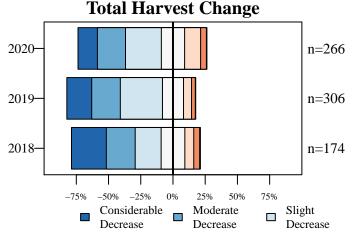
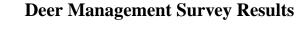


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



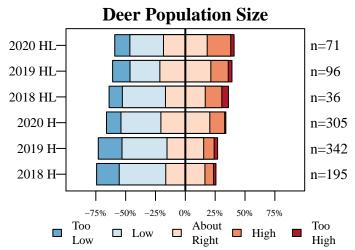


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

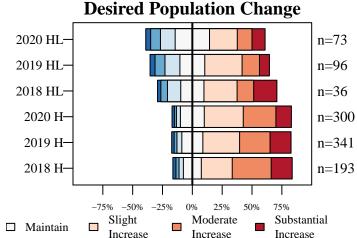
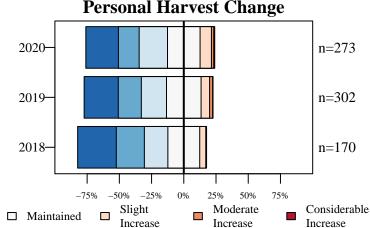


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



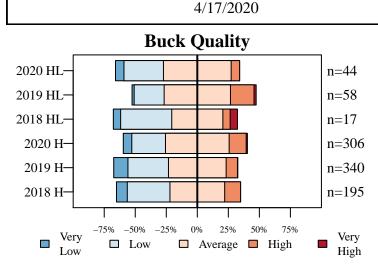


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

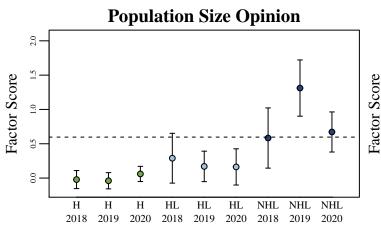


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

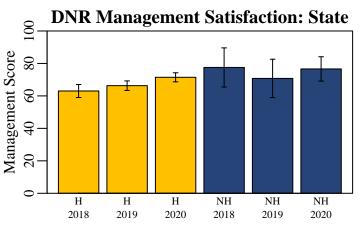


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

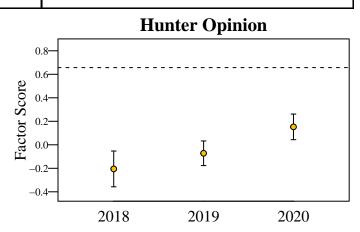


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

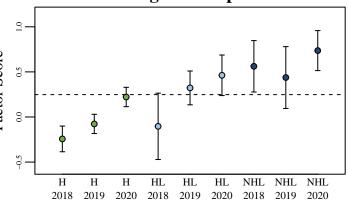


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

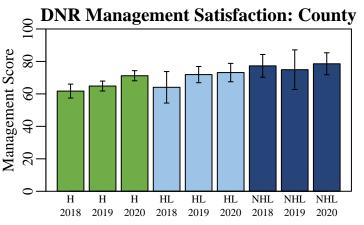


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 373 Square Miles of Deer Habitat: 97 Percent Deer Habitat: 26

Year	Total	Total Trend	Buck Harvest	Buck Trend	Buck Harvest	Doe Harvest	Doe Trend	Doe Harvest	% Doe in	Damage Permit	DVC per	Total Trend	CBAQ
		in $SD$		in SD	per SQ		in SD	per SQ	Harvest	Deer Teleer	Billion	in DVC	
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	446		265		2.98	181		2.03	40.58		130.37		1
2007	536		320		3.60	216		2.43	40.30		97.76		1
2008	653		345		3.88	308		3.46	47.17		115.02		2
2009	716		364		4.09	352		3.96	49.16		140.93		2
2010	680	0.96	362	1.09	4.07	318	0.87	3.57	46.76		176.18	3.40	2
2011	727	1.08	383	1.26	4.30	344	0.95	3.87	47.32		210.10	2.64	3
2012	793	1.71	385	1.28	4.33	408	1.85	4.58	51.45		171.82	0.52	3
2013	787	1.38	402	2.07	4.52	385	1.00	4.33	48.92		183.59	0.57	3
2014	832	1.89	427	2.89	4.80	405	1.23	4.55	48.68		210.05	1.35	3
2015	772	0.14	429	1.53	4.82	343	-0.73	3.85	44.43		227.53	2.01	3
2016	766	-0.43	435	1.35	4.48	331	-1.44	3.41	43.21	1	179.64	-0.93	3
2017	722	-2.63	379	-1.72	3.91	343	-0.88	3.54	47.51	3	211.25	0.72	3
2018	732	-1.10	395	-0.83	4.07	337	-0.77	3.47	46.04		187.58	-0.73	3
2019	809	1.02	448	1.42	4.62	361	0.31	3.72	44.62		214.40	0.58	2

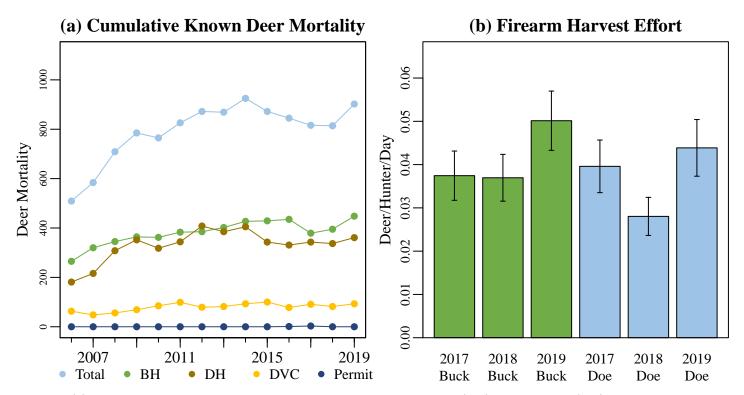


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 373 Square Miles of Deer Habitat: 97 Percent Deer Habitat: 26

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	617	278	338	1	0	273	272	62	10	0	0	0	0	0	0	0
2017	570	279	291	0	0	228	263	69	10	0	0	0	0	0	0	0
2018	581	291	289	1	0	222	281	74	4	0	0	0	0	0	0	0
2019	648	298	349	1	0	268	304	74	2	0	0	0	0	0	0	0

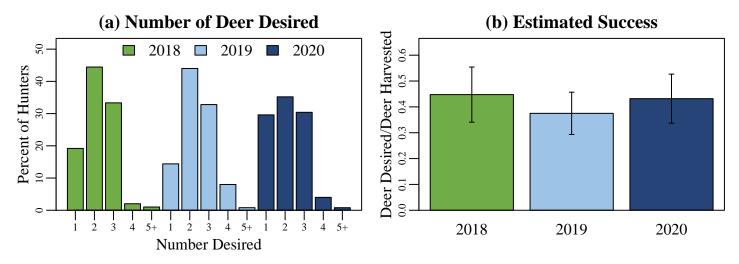


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Decatur County Map



(b) Deer Habitat in Decatur County

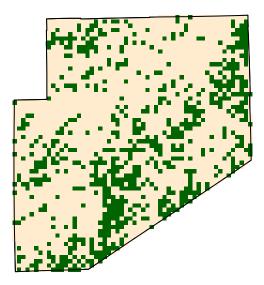


Figure 3. (a) Decatur county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Decatur county.

4/17/2020

#### **County Bonus Antlerless Quota**

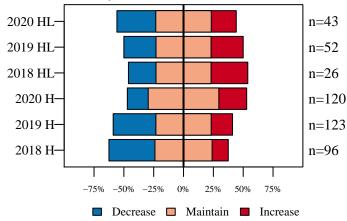


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

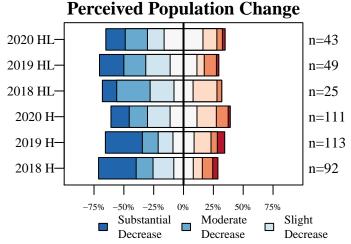


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

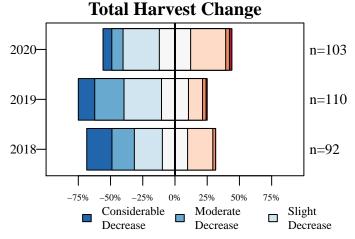


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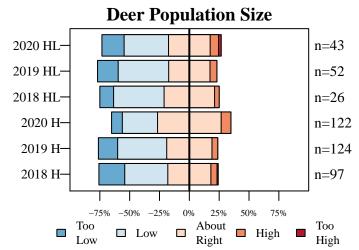
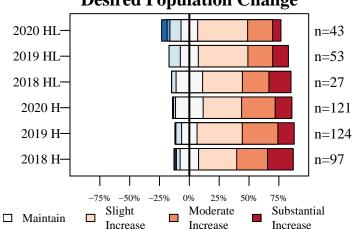
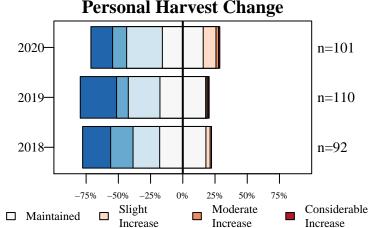


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### Buck Quality

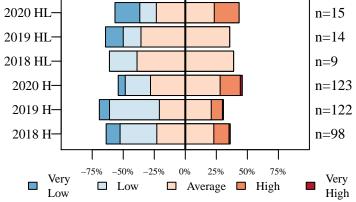
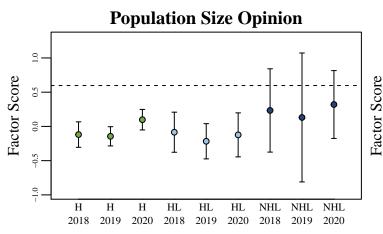
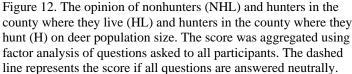


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





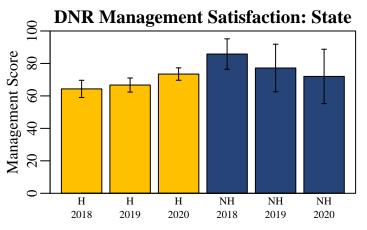


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

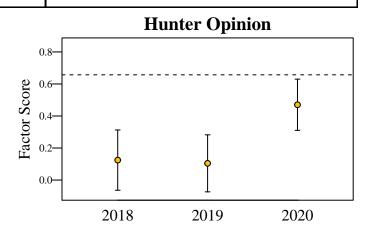


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#### **Management Opinion**

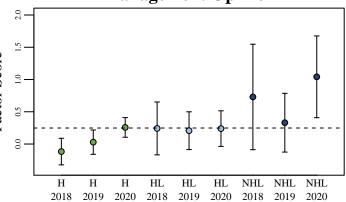


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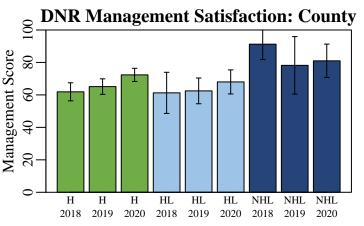


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4/17/2020

Total Square Miles: 364 Square Miles of Deer Habitat: 101 Percent Deer Habitat: 28

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,917		950		9.79	967		9.97	50.44		462.91		2
2007	$2,\!179$		$1,\!117$		11.52	1,062		10.95	48.74		463.01		2
2008	2,399		$1,\!178$		12.14	1,221		12.59	50.90		539.42		3
2009	$2,\!437$		1,231		12.69	1,206		12.43	49.49		504.53		4
2010	$2,\!434$	1.06	1,220	0.98	12.58	1,214	1.04	12.52	49.88		503.66	0.57	4
2011	2,308	0.15	$1,\!173$	0.29	12.09	1,135	0.01	11.70	49.18		467.45	-0.84	8
2012	2,408	0.52	1,083	-2.23	11.16	1,325	2.30	13.66	55.02		471.56	-0.77	8
2013	2,083	-5.99	998	-3.07	10.29	1,085	-1.99	11.19	52.09		507.28	0.34	8
2014	$1,\!665$	-4.47	886	-2.58	9.13	779	-4.55	8.03	46.79		453.55	-1.90	4
2015	1,976	-0.64	1,039	-0.25	10.71	937	-0.83	9.66	47.42		409.88	-3.00	4
2016	1,957	-0.45	1,034	-0.02	10.24	923	-0.63	9.14	47.16	29	438.40	-0.67	4
2017	1,745	-1.02	923	-1.14	9.14	822	-0.91	8.14	47.11	28	427.57	-0.78	3
2018	1,935	0.29	1,058	1.20	10.48	877	-0.27	8.68	45.32	36	479.89	0.88	2
2019	$2,\!121$	1.88	$1,\!130$	1.82	11.19	991	1.84	9.81	46.72	13	541.99	3.77	2

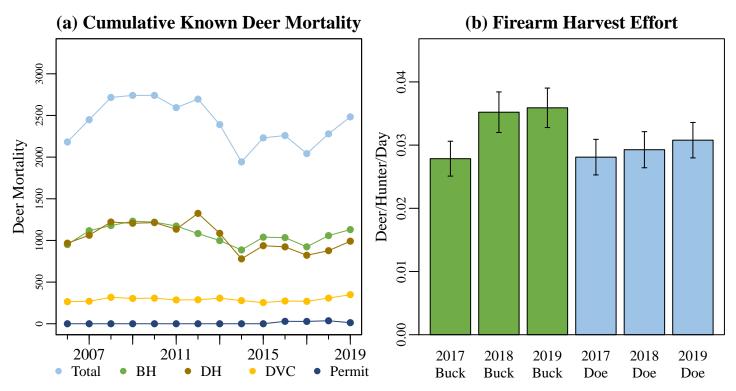


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

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Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	$1,\!461$	649	812	0	0	581	678	155	32	14	1	0	0	0	0	0
2017	$1,\!347$	616	731	0	0	541	627	152	25	2	0	0	0	0	0	0
2018	1,521	657	857	7	0	639	721	142	17	2	0	0	0	0	0	0
2019	$1,\!628$	684	934	10	0	663	784	163	16	1	1	0	0	0	0	0

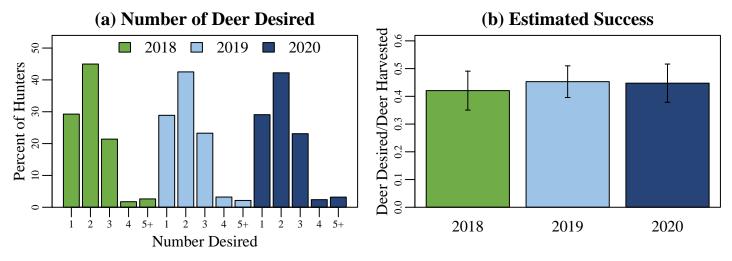


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Dekalb County Map



(b) Deer Habitat in Dekalb County

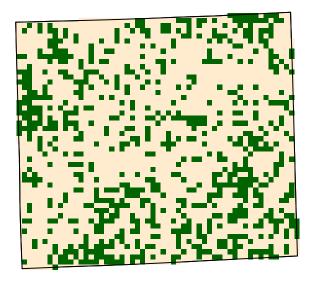


Figure 3. (a) Dekalb county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Dekalb county.

4/17/2020

#### **County Bonus Antlerless Quota**

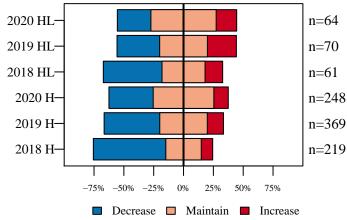


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

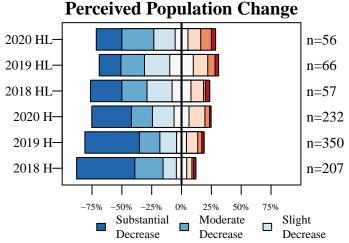


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

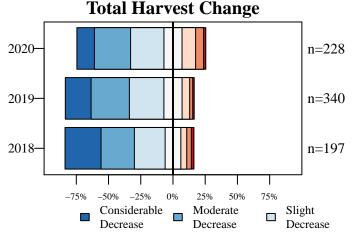
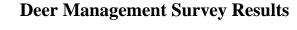


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



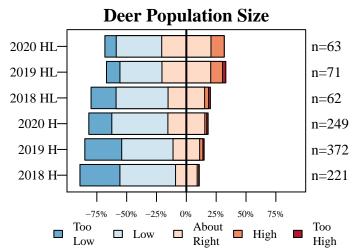
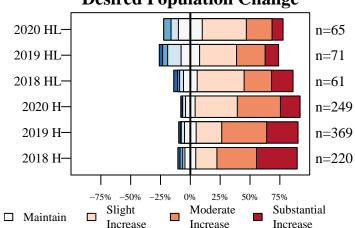
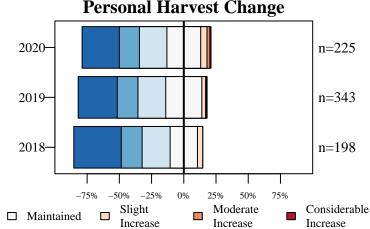


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### **Buck Quality**

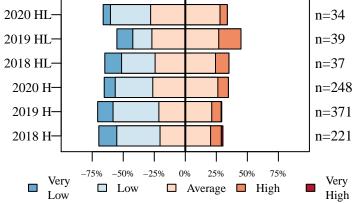


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

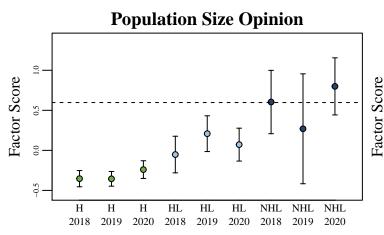


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

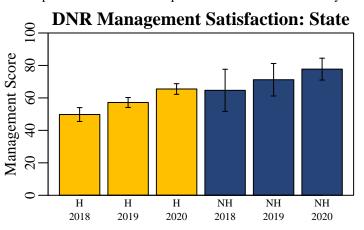


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).



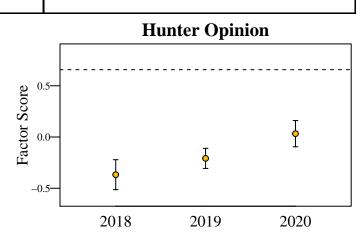


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

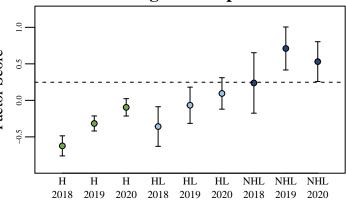


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

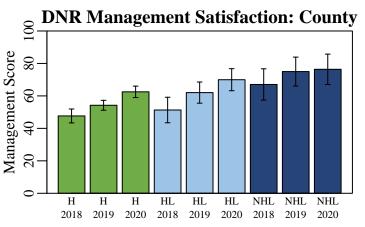


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

### **Delaware County**

4/17/2020

Total Square Miles: 396 Square Miles of Deer Habitat: 60 Percent Deer Habitat: 15

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	694		354		6.94	340		6.67	48.99		148.86		3
2007	679		367		7.20	312		6.12	45.95		142.48		3
2008	744		407		7.98	337		6.61	45.30		123.24		4
2009	835		422		8.27	413		8.10	49.46		128.68		4
2010	808	1.23	427	1.48	8.37	381	0.91	7.47	47.15		126.89	-0.27	4
2011	745	-0.10	396	0.02	7.76	349	-0.19	6.84	46.85		128.82	-0.47	4
2012	746	-0.27	363	-1.70	7.12	383	0.63	7.51	51.34		125.16	-0.66	4
2013	707	-1.60	350	-2.08	6.86	357	-0.52	7.00	50.50		130.72	1.75	4
2014	695	-1.41	361	-0.89	7.08	334	-1.69	6.55	48.06		107.83	-9.58	4
2015	772	0.72	417	1.19	8.18	355	-0.28	6.96	45.98		118.08	-0.63	4
2016	764	0.99	414	1.31	6.90	350	-0.32	5.83	45.81	3	116.64	-0.59	4
2017	758	0.62	390	0.28	6.50	368	0.69	6.13	48.55	1	135.11	1.77	4
2018	648	-2.57	380	-0.21	6.33	268	-6.84	4.47	41.36	3	151.03	2.65	2
2019	726	-0.03	417	1.04	6.95	309	-0.66	5.15	42.56	1	132.66	0.40	2

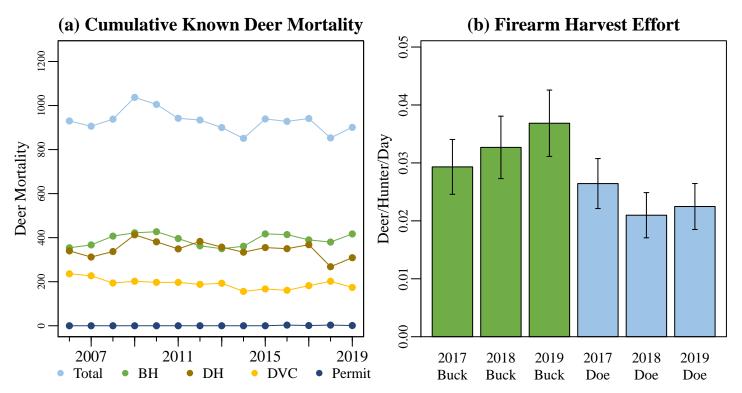


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

### **Delaware County**

4/17/2020

Total Square Miles: 396 Square Miles of Deer Habitat: 60 Percent Deer Habitat: 15

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	597	273	324	0	0	242	287	56	9	2	0	1	0	0	0	0
2017	561	283	275	3	0	194	284	63	14	5	1	0	0	0	0	0
2018	532	236	295	1	0	236	247	45	2	2	0	0	0	0	0	0
2019	580	252	326	2	0	240	289	47	3	1	0	0	0	0	0	0

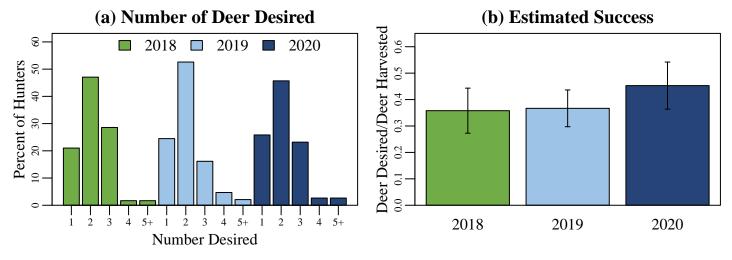


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Delaware County Map



(b) Deer Habitat in Delaware County

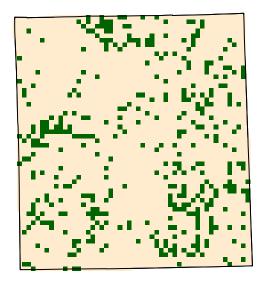


Figure 3. (a) Delaware county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Delaware county.

### **Delaware County**

4/17/2020

#### **County Bonus Antlerless Quota**

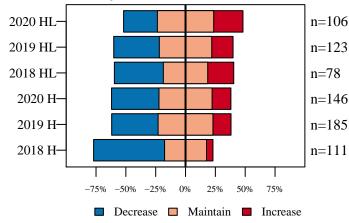


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

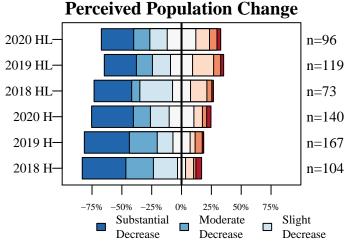


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

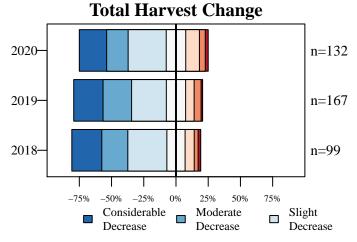
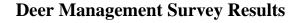


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



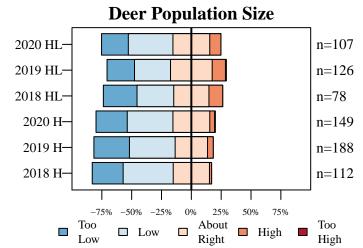
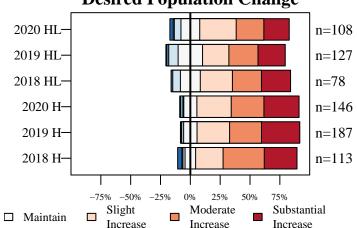
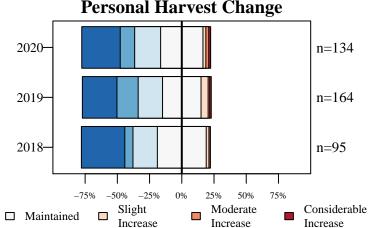


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



### **Delaware County**



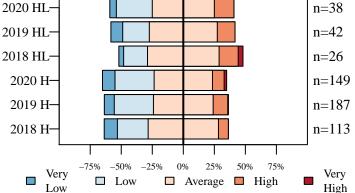
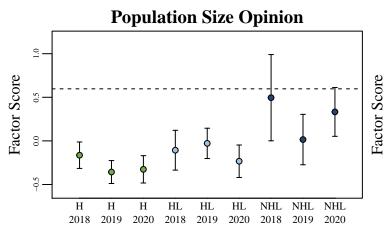
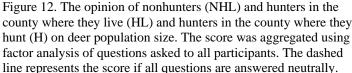


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





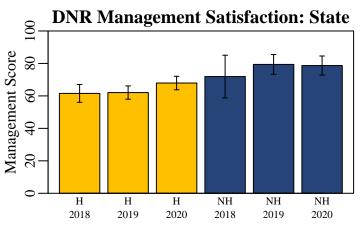


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

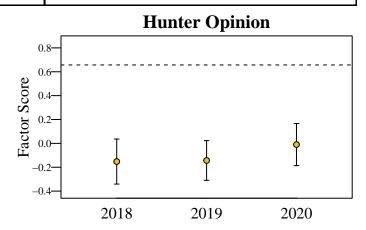


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

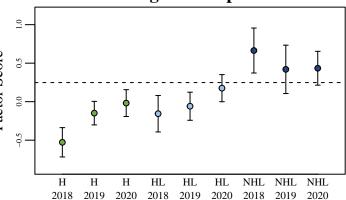


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

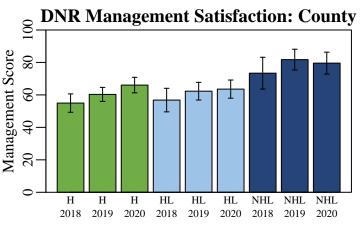


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 435 Square Miles of Deer Habitat: 241 Percent Deer Habitat: 55

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,885		906		3.84	979		4.15	51.94		241.35		3
2007	1,527		706		2.99	821		3.48	53.77		227.23		4
2008	1,736		787		3.33	949		4.02	54.67		181.79		4
2009	1,848		842		3.57	1,006		4.26	54.44		228.42		4
2010	1,763	-0.03	851	0.38	3.61	912	-0.47	3.86	51.73		144.95	-3.34	4
2011	$1,\!871$	0.85	911	1.22	3.86	960	0.37	4.07	51.31		228.53	0.59	4
2012	1,983	1.72	886	0.86	3.75	$1,\!097$	2.41	4.65	55.32		296.48	2.50	4
2013	$1,\!980$	1.43	873	0.37	3.70	$1,\!107$	1.72	4.69	55.91		513.95	5.22	4
2014	$1,\!957$	0.73	914	1.50	3.87	1,043	0.31	4.42	53.30		562.07	2.00	4
2015	$2,\!040$	1.37	989	3.86	4.19	1,051	0.32	4.45	51.52		622.58	1.51	4
2016	1,867	-1.62	912	-0.06	3.78	955	-1.66	3.96	51.15		470.50	0.15	4
2017	1,748	-3.45	861	-1.20	3.57	887	-2.71	3.68	50.74	10	494.26	0.01	3
2018	1,725	-1.70	889	-0.42	3.69	836	-1.98	3.47	48.46		445.32	-1.44	3
2019	1,739	-0.95	870	-0.90	3.61	869	-0.90	3.61	49.97	1	505.66	-0.18	2

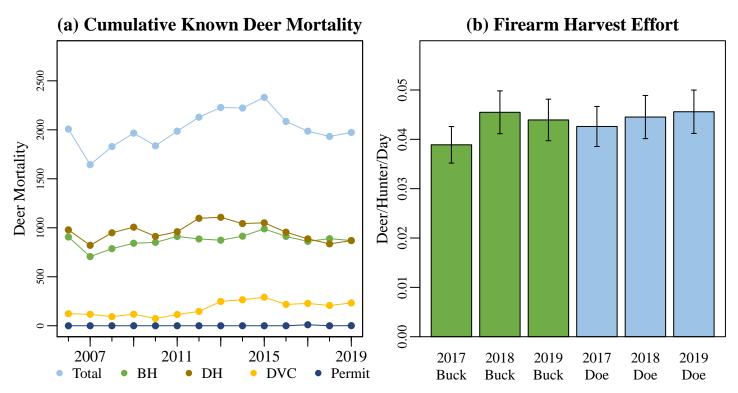


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 435 Square Miles of Deer Habitat: 241 Percent Deer Habitat: 55

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	$1,\!392$	679	710	3	0	528	643	172	34	13	2	0	0	0	0	0
2017	1,326	664	661	1	0	468	666	161	27	4	0	0	0	0	0	0
2018	$1,\!314$	610	702	2	0	513	616	153	31	1	0	0	0	0	0	0
2019	$1,\!295$	608	687	0	0	457	642	180	14	2	0	0	0	0	0	0

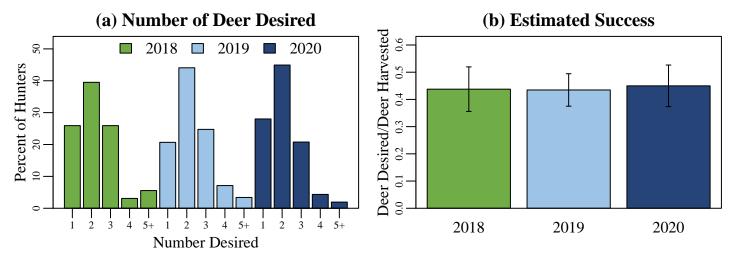


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Dubois County Map



(b) Deer Habitat in Dubois County

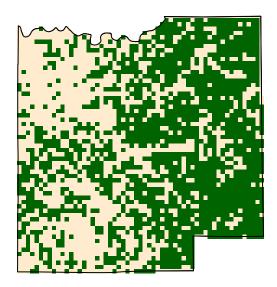


Figure 3. (a) Dubois county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Dubois county.

4/17/2020

#### **County Bonus Antlerless Quota**

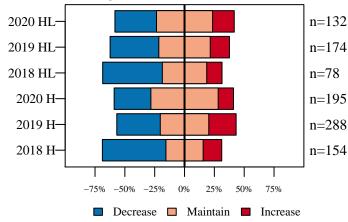


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

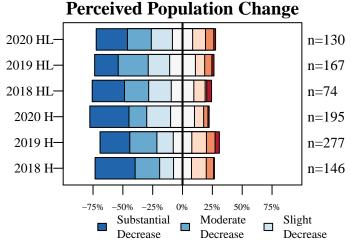


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

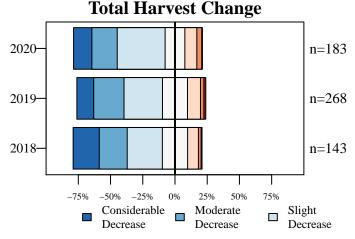


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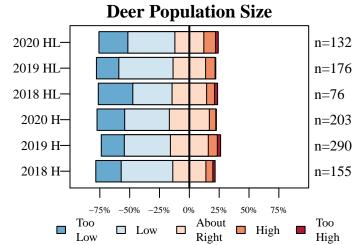
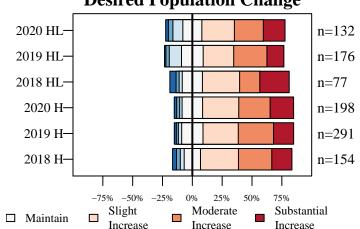
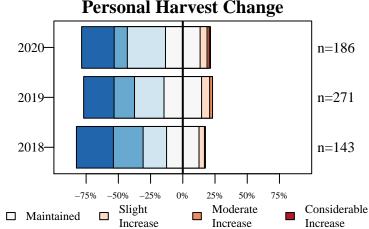


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

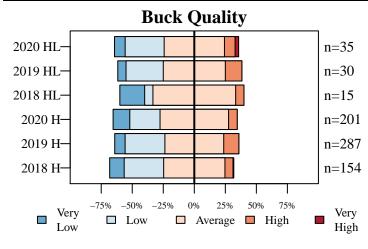
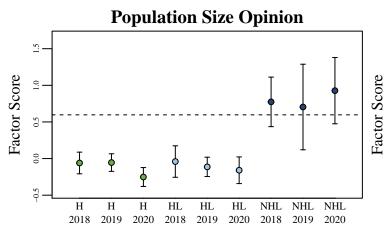


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



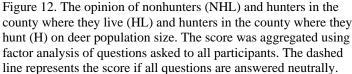




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

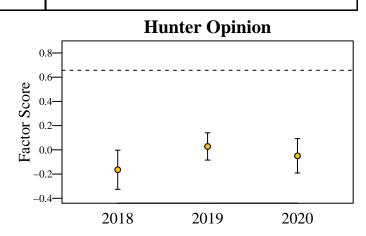


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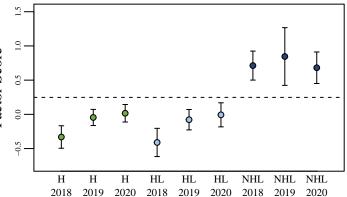


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

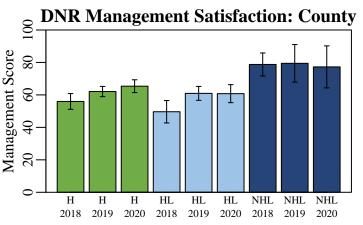


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 468 Square Miles of Deer Habitat: 118 Percent Deer Habitat: 25

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	1,324		706		5.08	618		4.45	46.68		225.96		2
2007	$1,\!337$		696		5.01	641		4.61	47.94		230.98		2
2008	1,522		766		5.51	756		5.44	49.67		226.09		3
2009	1,538		750		5.40	788		5.67	51.24		212.51		8
2010	$1,\!604$	1.75	781	1.73	5.62	823	1.63	5.92	51.31		245.89	1.63	8
2011	1,511	0.36	732	-0.21	5.27	779	0.59	5.60	51.56		210.81	-1.46	8
2012	1,552	0.50	706	-1.19	5.08	846	1.28	6.09	54.51		210.67	-1.01	8
2013	1,343	-5.58	656	-3.11	4.72	687	-3.10	4.94	51.15		213.30	-0.52	4
2014	1,314	-1.97	647	-1.65	4.65	667	-1.93	4.80	50.76		203.03	-1.02	4
2015	1,308	-1.21	655	-0.89	4.71	653	-1.34	4.70	49.92		204.03	-0.76	4
2016	1,291	-0.98	692	0.34	5.86	599	-1.54	5.08	46.40		165.45	-9.42	4
2017	1,229	-1.23	590	-3.11	5.00	639	-0.55	5.42	51.99	1	187.63	-0.60	4
2018	$1,\!324$	0.64	678	0.82	5.75	646	-0.09	5.47	48.79		175.84	-1.00	3
2019	1,522	6.05	820	4.27	6.95	702	2.39	5.95	46.12	1	188.31	0.07	2

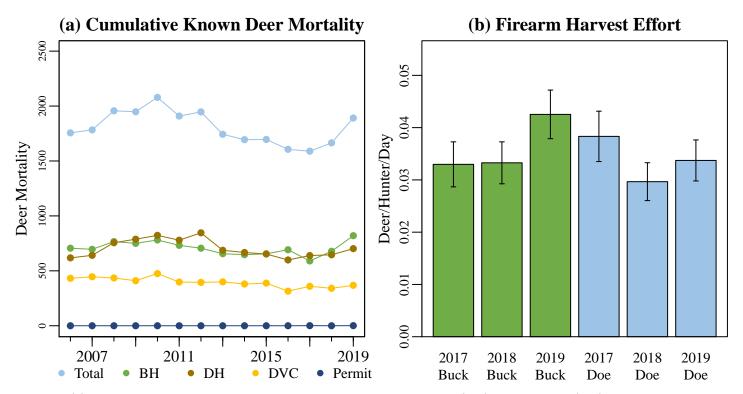


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 468 Square Miles of Deer Habitat: 118 Percent Deer Habitat: 25

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,001	454	544	3	0	423	446	106	22	3	1	0	0	0	0	0
2017	924	481	439	4	0	322	469	105	16	7	4	0	1	0	0	0
2018	991	451	536	4	0	373	491	97	26	3	1	0	0	0	0	0
2019	$1,\!162$	499	656	7	0	479	546	110	22	5	0	0	0	0	0	0

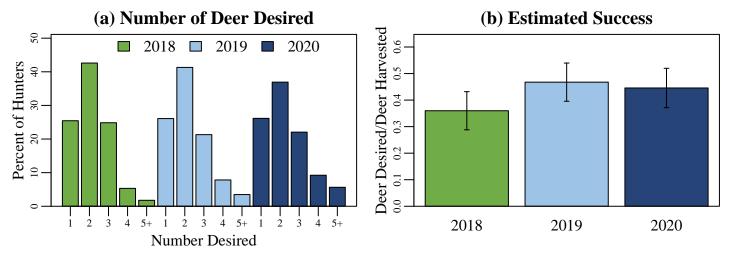


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Elkhart County Map



(b) Deer Habitat in Elkhart County

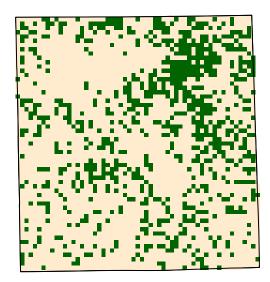


Figure 3. (a) Elkhart county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Elkhart county.

4/17/2020

#### **County Bonus Antlerless Quota**

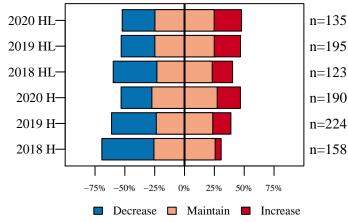


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

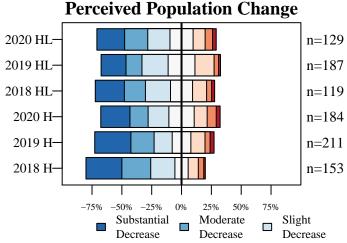


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

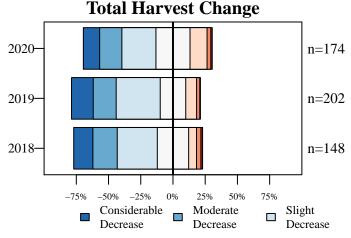
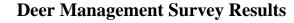


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



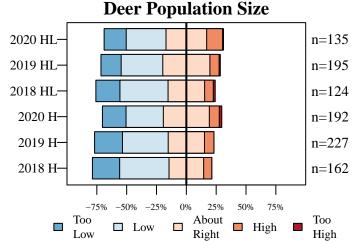
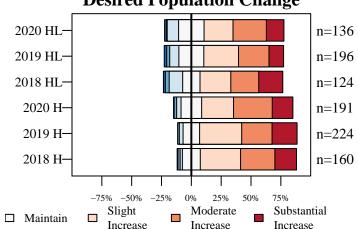
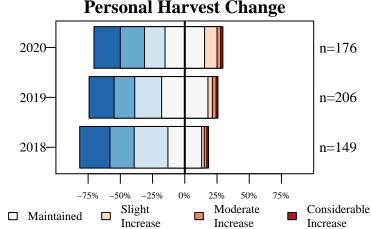


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

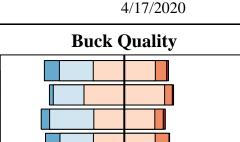
Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



n=66

n=97

n=59



2020 HL

2019 HL-

2018 HL-

2020 Hn=189 2019 Hn=227 2018 H· n=162 0% 25% 50% 75% -75% -50%-25%Very Very Low High Average High Low

Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

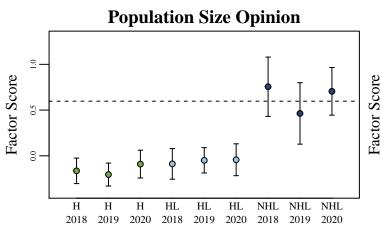


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

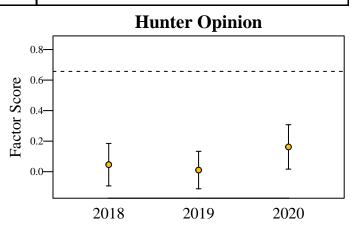


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

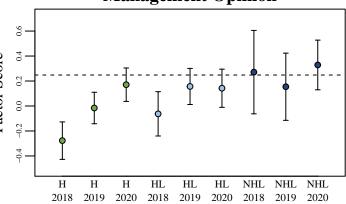


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

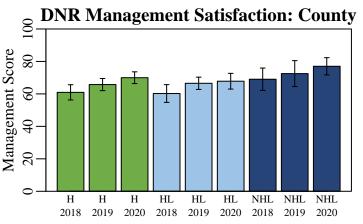


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 215 Square Miles of Deer Habitat: 74 Percent Deer Habitat: 34

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	645		331		3.99	314		3.78	48.68		341.16		2
2000	630		355		4.28	275		3.31	43.65		322.59		2
2008	701		356		4.29	345		4.16	49.22		331.05		3
2009	854		445		5.36	409		4.93	47.89		235.19		3
2010	845	1.60	427	1.35	5.14	418	1.68	5.04	49.47		317.72	0.37	4
2011	855	1.11	451	1.36	5.43	404	0.85	4.87	47.25		298.07	-0.27	4
2012	973	1.87	466	1.24	5.61	507	2.26	6.11	52.11		292.85	-0.21	4
2013	920	0.77	405	-0.56	4.88	515	1.69	6.20	55.98		318.91	0.65	4
2014	1,052	2.93	513	3.16	6.18	539	1.59	6.49	51.24		228.39	-1.88	4
2015	1,090	1.87	576	3.01	6.94	514	0.61	6.19	47.16		313.45	0.60	4
2016	$1,\!135$	1.64	600	1.81	8.11	535	0.74	7.23	47.14	8	255.61	-0.96	4
2017	902	-1.51	431	-1.02	5.82	471	-3.62	6.36	52.22	10	236.21	-1.17	4
2018	898	-1.17	448	-0.66	6.05	450	-2.40	6.08	50.11	17	275.09	0.11	3
2019	933	-0.75	488	-0.34	6.59	445	-1.44	6.01	47.70	25	306.68	1.32	2

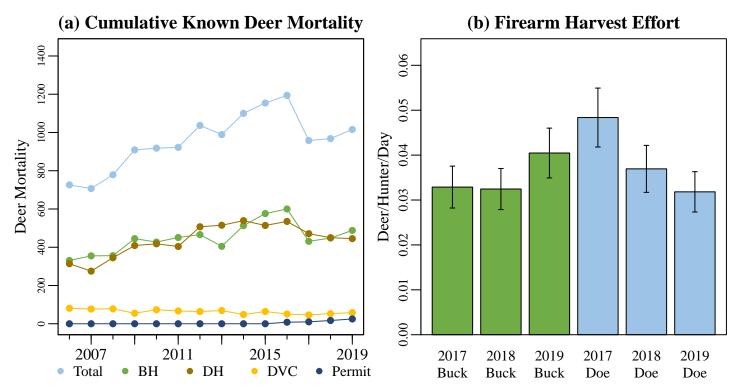


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 215 Square Miles of Deer Habitat: 74 Percent Deer Habitat: 34

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	814	365	424	24	1	322	365	99	19	6	2	1	0	0	0	0
2017	659	332	327	0	0	232	311	90	21	4	1	0	0	0	0	0
2018	697	341	354	2	0	268	339	72	15	3	0	0	0	0	0	0
2019	700	307	393	0	0	275	317	102	5	1	0	0	0	0	0	0

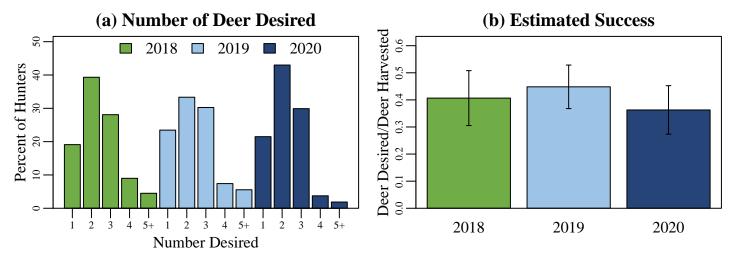


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Fayette County Map



(b) Deer Habitat in Fayette County

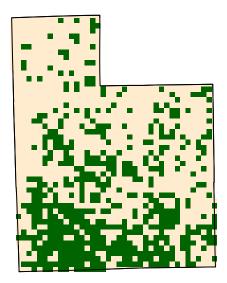


Figure 3. (a) Fayette county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Fayette county.

4/17/2020

#### **County Bonus Antlerless Quota**

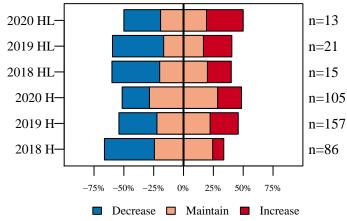


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

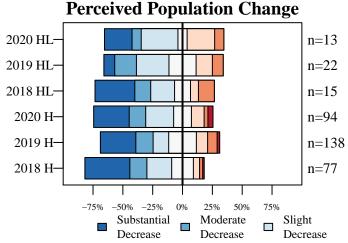


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

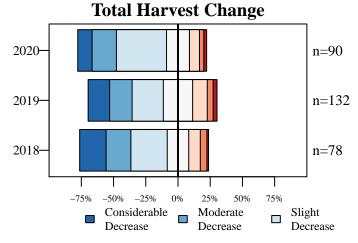


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

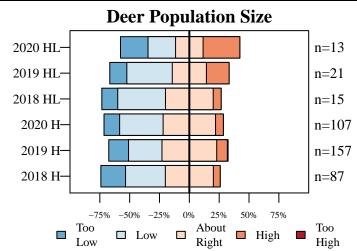
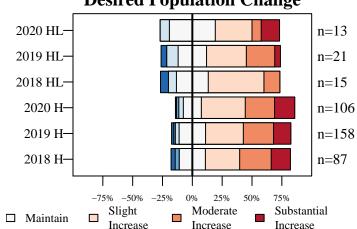
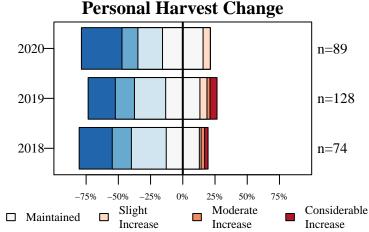


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### Buck Quality

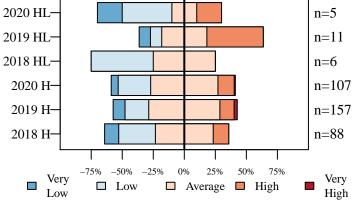


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

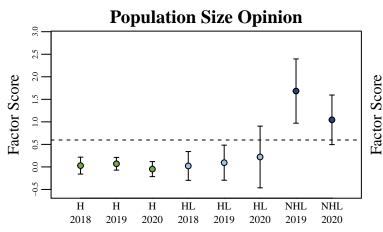


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

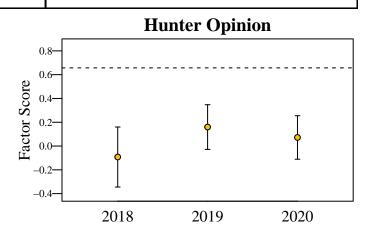


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

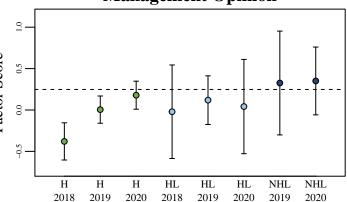


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

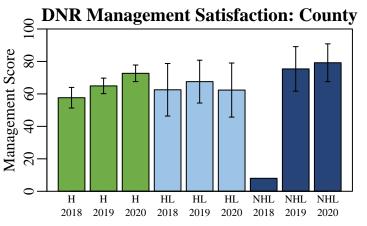


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 149 Square Miles of Deer Habitat: 113 Percent Deer Habitat: 76

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in DVC	CBAQ
					MI Habitat			Habitat		Taken	Miles Traveled	DVC	
2006	494		249		2.06	245		2.02	49.60		150.66		8
2007	470		261		2.16	209		1.73	44.47		154.39		8
2008	611		300		2.48	311		2.57	50.90		142.59		8
2009	566		300		2.48	266		2.20	47.00		133.01		8
2010	580	0.72	304	1.21	2.51	276	0.33	2.28	47.59		134.11	-0.99	8
2011	712	2.81	357	2.88	2.95	355	2.48	2.93	49.86		124.05	-1.97	8
2012	722	1.54	323	0.54	2.67	399	2.13	3.30	55.26		154.34	1.46	8
2013	773	1.83	360	1.77	2.98	413	1.65	3.41	53.43		137.19	-0.04	8
2014	821	1.63	389	2.11	3.21	432	1.32	3.57	52.62		156.33	1.78	8
2015	821	1.10	429	2.47	3.55	392	0.27	3.24	47.75		170.20	2.10	8
2016	737	-0.63	391	0.49	3.46	346	-1.83	3.06	46.95	11	153.76	0.30	8
2017	800	0.55	391	0.32	3.46	409	0.39	3.62	51.12	13	165.05	0.91	8
2018	657	-3.73	332	-2.45	2.94	325	-2.25	2.88	49.47	16	169.74	1.05	8
2019	632	-1.92	327	-1.71	2.89	305	-1.71	2.70	48.26	13	159.73	-0.43	2

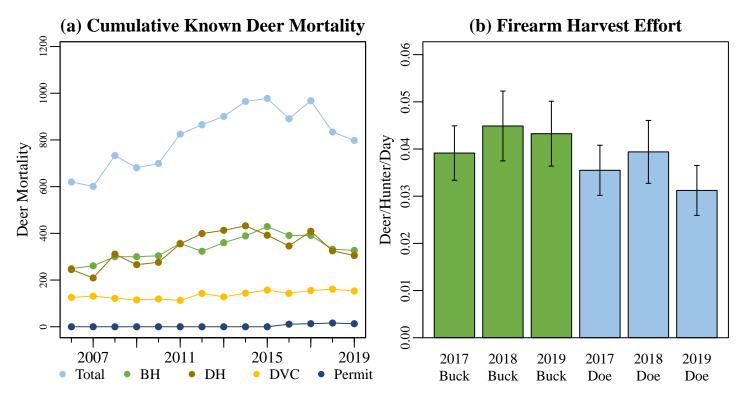


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 149 Square Miles of Deer Habitat: 113 Percent Deer Habitat: 76

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$2 \\ AL$	3 AL	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\mathrm{AL}}^{6}$	7 AL	${}^{8}_{ m AL}$	9 AL	10 AL
2016	542	231	309	2	0	233	231	55	15	3	4	1	0	0	0	0
2017	593	290	303	0	0	223	272	80	13	2	1	1	1	0	0	0
2018	499	226	270	3	0	213	211	66	4	2	1	1	1	0	0	0
2019	493	231	261	1	0	195	233	61	3	0	1	0	0	0	0	0

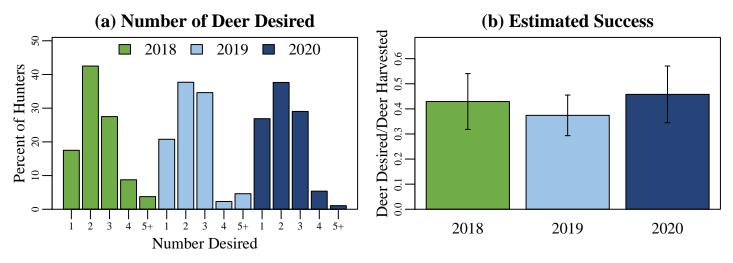


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Floyd County Map



(b) Deer Habitat in Floyd County

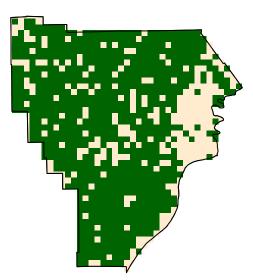


Figure 3. (a) Floyd county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Floyd county.

4/17/2020

#### **County Bonus Antlerless Quota**

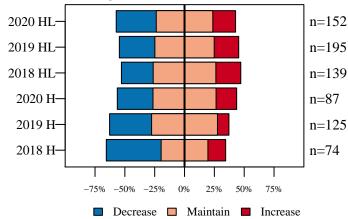


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

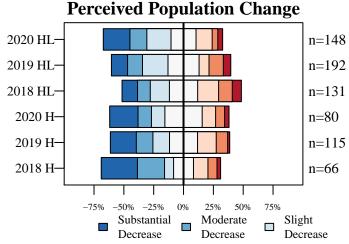


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

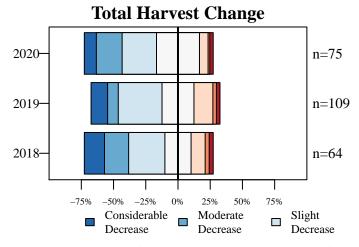


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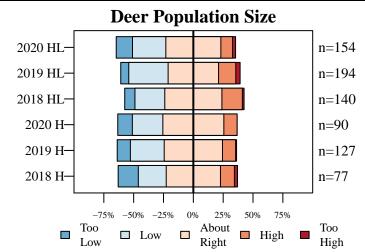
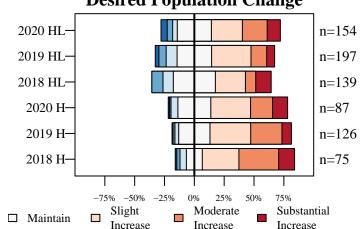
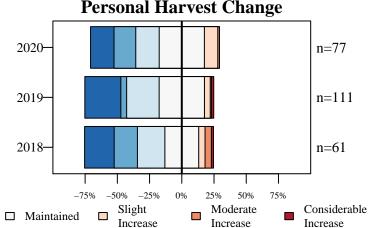


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### **Buck Quality**

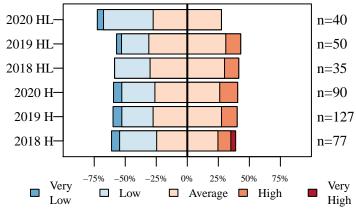
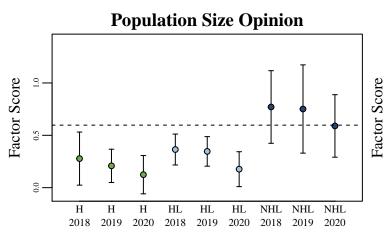


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



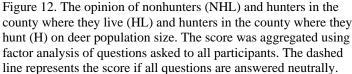




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

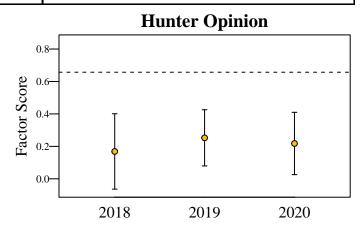


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

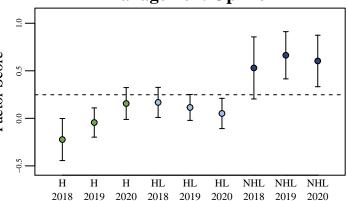


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

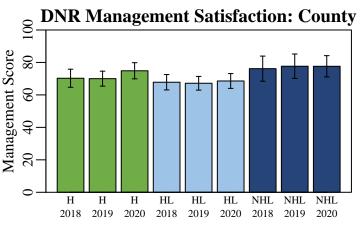


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 398 Square Miles of Deer Habitat: 87 Percent Deer Habitat: 22

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,428		689		6.96	739		7.46	51.75		323.05		8
2007	$1,\!431$		740		7.47	691		6.98	48.29		369.47		4
2008	1,382		682		6.89	700		7.07	50.65		270.45		8
2009	1,312		694		7.01	618		6.24	47.10		297.08		8
2010	1,593	3.03	806	2.49	8.14	787	2.13	7.95	49.40		279.56	-1.07	8
2011	$1,\!534$	1.01	779	1.09	7.87	755	0.77	7.63	49.22		201.29	-2.68	8
2012	$1,\!677$	2.00	782	0.78	7.90	895	2.84	9.04	53.37		180.15	-1.72	8
2013	1,418	-0.54	663	-1.52	6.70	755	0.04	7.63	53.24		414.45	3.27	8
2014	1,268	-1.66	624	-1.94	6.30	644	-1.19	6.51	50.79		446.69	1.86	8
2015	1,243	-1.60	656	-0.92	6.63	587	-2.01	5.93	47.22		448.24	1.18	8
2016	1,218	-1.15	687	-0.19	7.90	531	-1.65	6.10	43.60	27	399.72	0.45	8
2017	1,043	-1.68	548	-2.24	6.30	495	-1.29	5.69	47.46	3	337.34	-0.36	4
2018	1,020	-1.63	564	-1.33	6.48	456	-1.43	5.24	44.71		472.79	1.40	2
2019	$1,\!219$	0.52	700	1.42	8.05	519	-0.32	5.97	42.58	5	403.65	-0.32	2

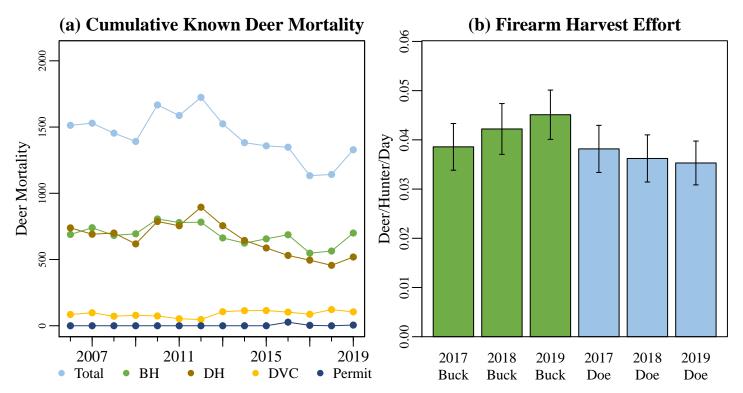


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 398 Square Miles of Deer Habitat: 87 Percent Deer Habitat: 22

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	923	340	582	1	0	451	344	106	14	5	2	1	0	0	0	0
2017	795	364	431	0	0	342	331	95	17	10	0	0	0	0	0	0
2018	783	323	459	1	0	338	343	90	12	0	0	0	0	0	0	0
2019	915	341	572	2	0	410	380	115	7	3	0	0	0	0	0	0

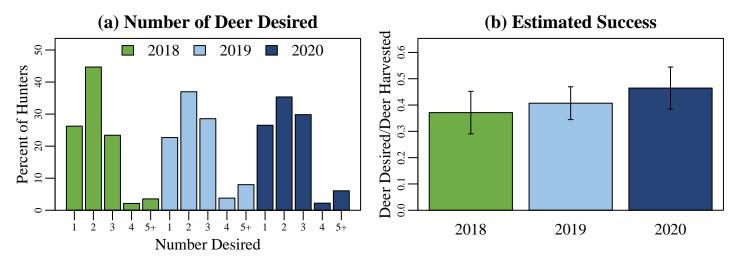


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Fountain County Map



(b) Deer Habitat in Fountain County

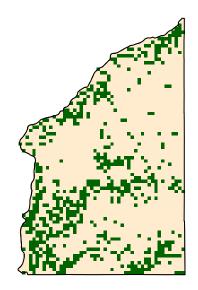


Figure 3. (a) Fountain county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Fountain county.

4/17/2020

### **County Bonus Antlerless Quota**

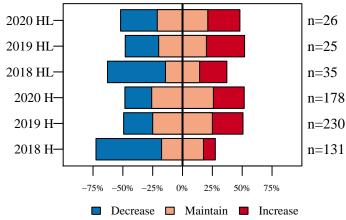


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

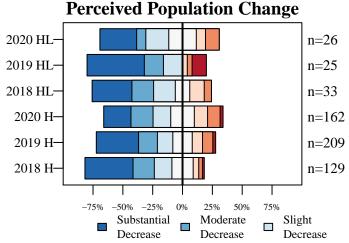


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

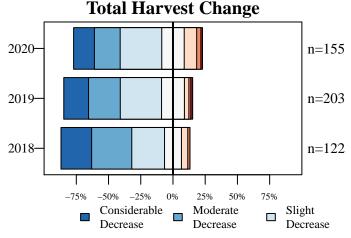
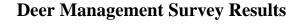


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



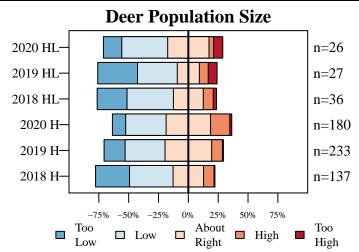
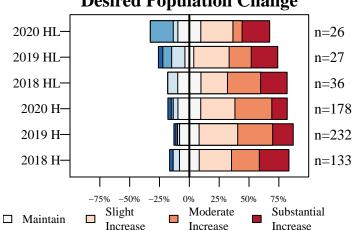
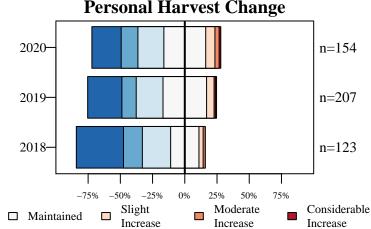


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### **Buck Quality**

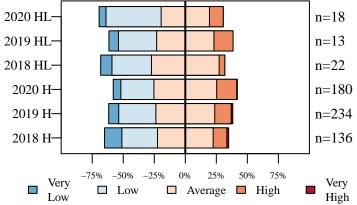


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

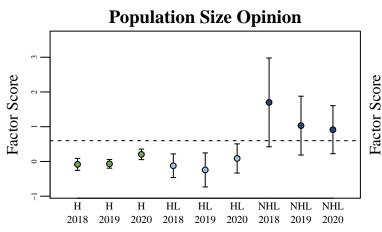


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

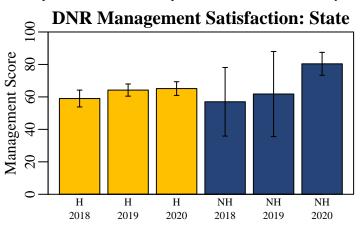


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

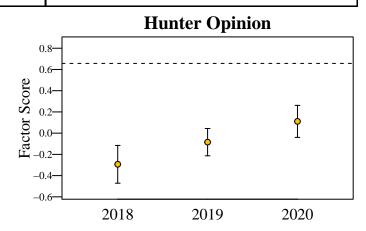


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



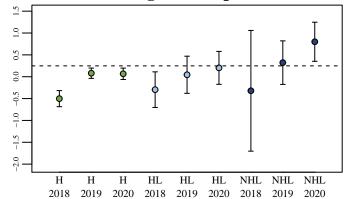


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

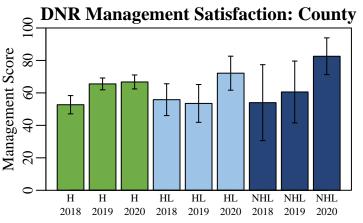


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 391 Square Miles of Deer Habitat: 247 Percent Deer Habitat: 63

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	2,719		1,283		5.01	1,436		5.61	52.81		217.03		8
2007	$2,\!451$		1,058		4.13	1,393		5.44	56.83		255.59		8
2008	$2,\!807$		1,227		4.79	1,580		6.17	56.29		248.03		8
2009	3,041		$1,\!411$		5.51	$1,\!630$		6.37	53.60		237.69		8
2010	3,021	1.03	$1,\!407$	0.99	5.50	$1,\!614$	0.95	6.30	53.43		271.03	1.26	8
2011	2,876	0.28	1,328	0.35	5.19	1,548	0.16	6.05	53.82		303.74	2.87	8
2012	$3,\!071$	0.97	$1,\!344$	0.39	5.25	1,727	1.83	6.75	56.24		310.88	1.85	8
2013	2,743	-1.91	1,251	-1.23	4.89	$1,\!492$	-1.89	5.83	54.39		281.49	0.22	8
2014	$2,\!620$	-2.39	1,215	-2.03	4.75	1,405	-2.22	5.49	53.63		277.81	-0.11	8
2015	$2,\!890$	0.13	$1,\!456$	1.92	5.69	$1,\!434$	-1.01	5.60	49.62		283.23	-0.33	8
2016	2,709	-0.77	$1,\!472$	1.64	5.96	1,237	-2.23	5.01	45.66	35	301.74	0.69	8
2017	$2,\!497$	-1.75	1,244	-0.89	5.04	1,253	-1.16	5.07	50.18	53	392.10	6.99	8
2018	$2,\!434$	-1.77	1,182	-1.16	4.79	1,252	-0.99	5.07	51.44	45	465.92	3.28	4
2019	$2,\!636$	0.03	$1,\!410$	0.69	5.71	$1,\!226$	-0.95	4.96	46.51	126	558.16	2.60	2

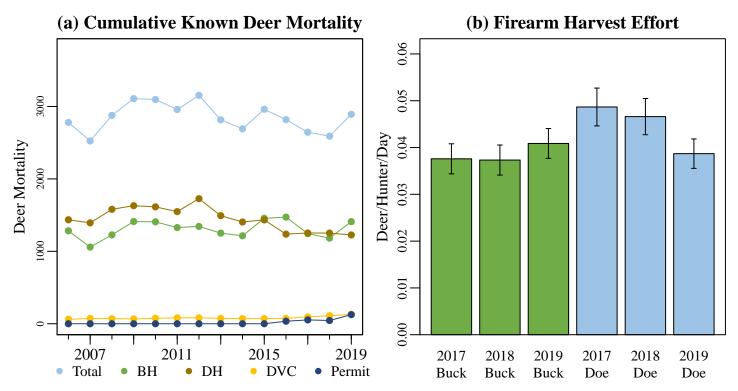


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 391 Square Miles of Deer Habitat: 247 Percent Deer Habitat: 63

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{ m AL}^{ m 3}$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	${}^{8}_{ m AL}$	9 AL	10 AL
2016	1,889	772	$1,\!057$	60	0	819	749	226	73	10	8	1	1	0	1	1
2017	1,733	816	916	1	0	676	734	209	67	25	13	5	2	1	1	0
2018	1,714	811	902	1	0	632	757	231	71	17	6	0	0	0	0	0
2019	$1,\!978$	849	$1,\!127$	2	0	811	879	248	30	10	0	0	0	0	0	0

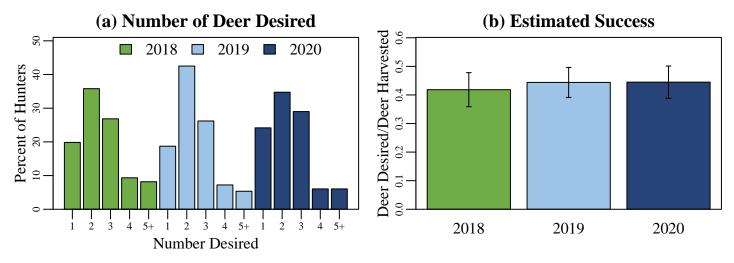


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).





### (b) Deer Habitat in Franklin County

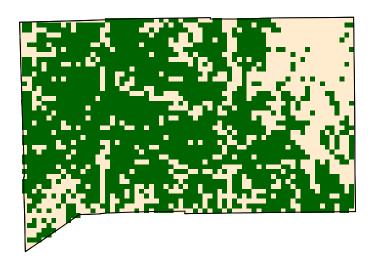


Figure 3. (a) Franklin county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Franklin county.

4/17/2020

### **County Bonus Antlerless Quota**

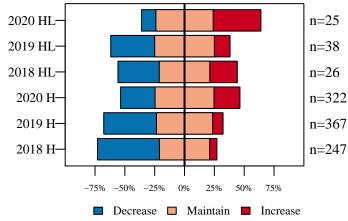


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

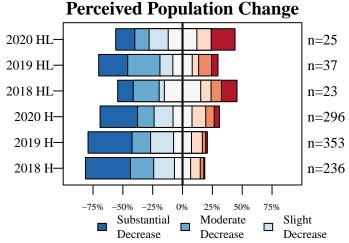


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

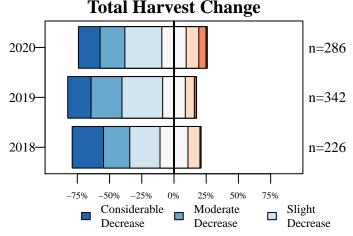
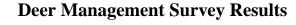


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



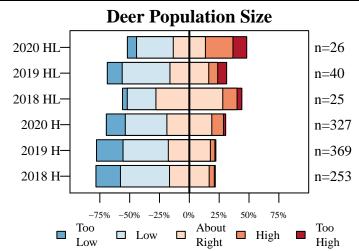
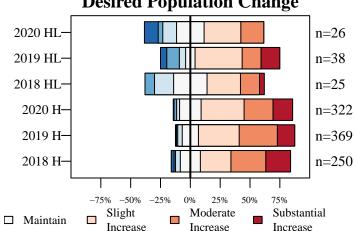
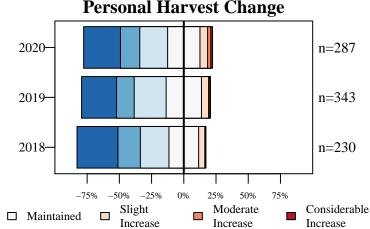


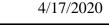
Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).





### **Buck Quality**

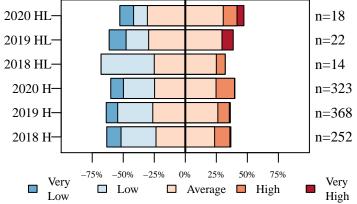
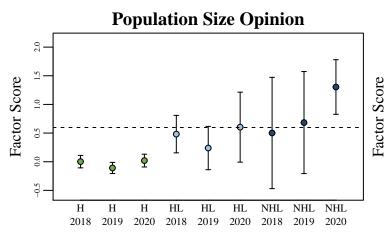


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



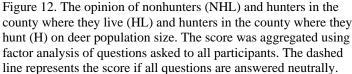




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

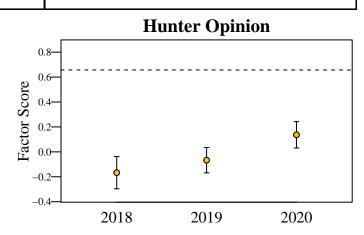


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



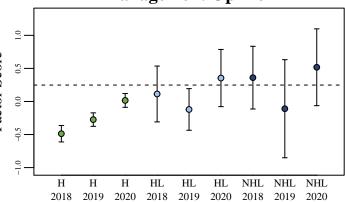


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

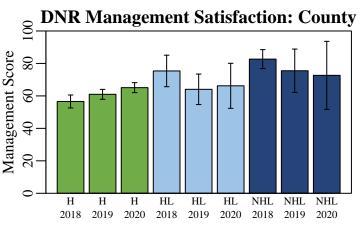


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 371 Square Miles of Deer Habitat: 44 Percent Deer Habitat: 12

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,722		821		16.10	901		17.67	52.32		712.25		2
2007	2,011		919		18.02	1,092		21.41	54.30		656.43		4
2008	2,023		926		18.16	1,097		21.51	54.23		725.97		4
2009	2,114		952		18.67	1,162		22.78	54.97		738.69		8
2010	2,078	0.85	949	0.96	18.61	1,129	0.80	22.14	54.33		730.31	0.81	8
2011	1,828	-1.04	863	-0.94	16.92	965	-1.09	18.92	52.79		759.67	1.43	8
2012	$1,\!890$	-1.09	818	-2.90	16.04	1,072	-0.23	21.02	56.72		658.12	-1.64	8
2013	1,524	-3.76	725	-3.00	14.22	799	-3.81	15.67	52.43		651.81	-1.85	8
2014	$1,\!546$	-1.44	727	-1.41	14.25	819	-1.40	16.06	52.98		581.87	-2.55	4
2015	1,501	-1.15	754	-0.66	14.78	747	-1.42	14.65	49.77		607.56	-0.98	4
2016	1,532	-0.68	807	0.49	18.34	725	-1.16	16.48	47.32	13	623.43	-0.42	4
2017	$1,\!192$	-2.48	593	-3.94	13.48	599	-1.68	13.61	50.25	26	593.38	-0.99	3
2018	1,236	-1.49	673	-0.61	15.30	563	-2.02	12.80	45.55	14	633.86	0.81	2
2019	$1,\!330$	-0.41	738	0.33	16.77	592	-0.92	13.45	44.51	10	688.29	3.78	2

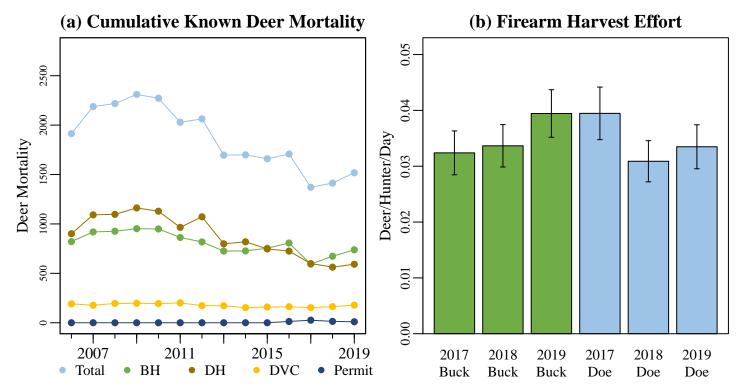


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 371 Square Miles of Deer Habitat: 44 Percent Deer Habitat: 12

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	$1,\!135$	504	630	1	0	464	496	131	36	6	2	0	0	0	0	0
2017	902	420	481	1	0	353	415	110	22	2	0	0	0	0	0	0
2018	976	426	544	6	0	409	458	105	4	0	0	0	0	0	0	0
2019	1,028	400	625	3	0	450	470	98	7	3	0	0	0	0	0	0

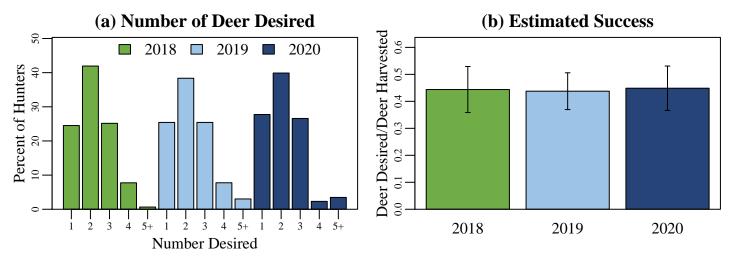


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Fulton County Map

(b) Deer Habitat in Fulton County

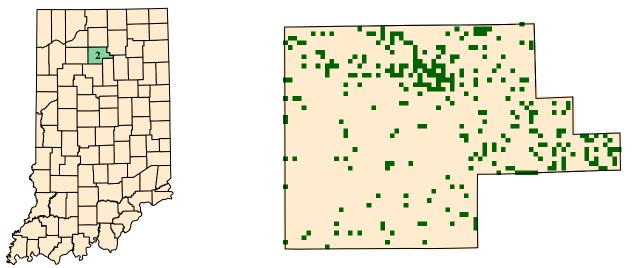


Figure 3. (a) Fulton county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Fulton county.

4/17/2020

#### **County Bonus Antlerless Quota**

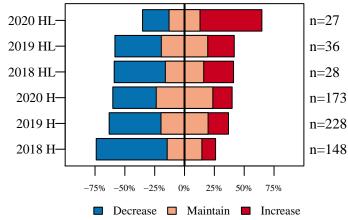


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

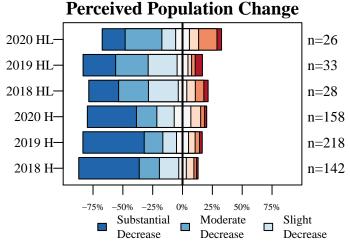


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

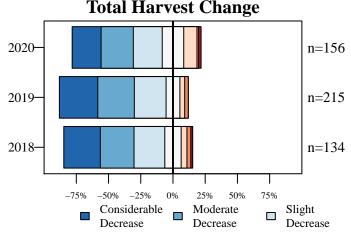


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

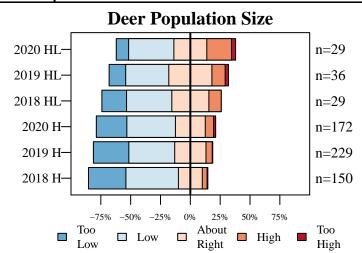
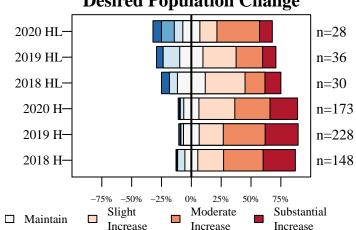
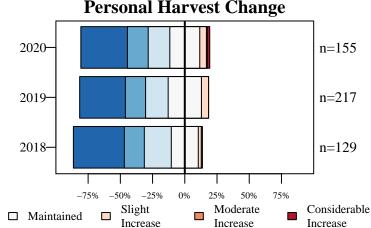


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020



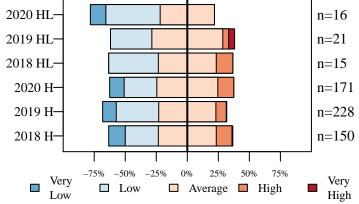
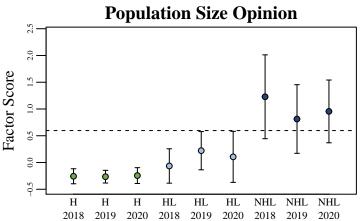


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



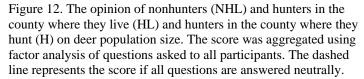




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

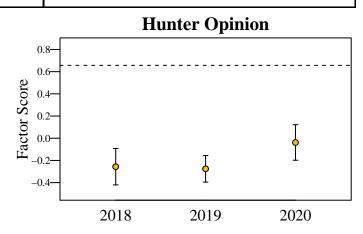


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

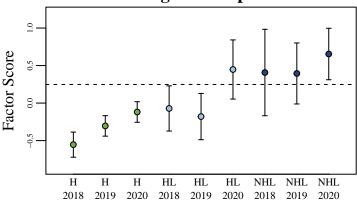


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

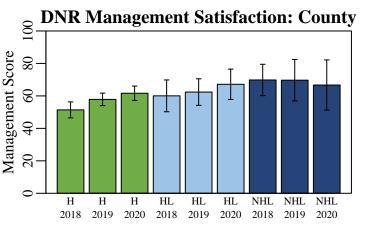


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 499 Square Miles of Deer Habitat: 108 Percent Deer Habitat: 22

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			MI Habitat		Taken	Traveled	DVC	
2006	1,398		743		7.74	655		6.82	46.85		399.82		4
2007	1,313		656		6.83	657		6.84	50.04		324.80		8
2008	1,563		761		7.93	802		8.35	51.31		301.94		8
2009	1,464		766		7.98	698		7.27	47.68		348.15		8
2010	1,469	0.27	735	-0.23	7.66	734	0.63	7.65	49.97		367.25	0.61	8
2011	$1,\!450$	0.09	733	0.02	7.64	717	0.13	7.47	49.45		316.83	-0.84	8
2012	$1,\!610$	1.77	717	-0.30	7.47	893	3.21	9.30	55.47		271.80	-2.31	8
2013	1,476	-0.50	655	-4.25	6.82	821	0.65	8.55	55.62		315.93	-0.14	8
2014	1,334	-2.43	639	-2.00	6.66	695	-0.94	7.24	52.10		306.96	-0.47	4
2015	1,263	-2.09	623	-1.60	6.49	640	-1.59	6.67	50.67		272.66	-1.26	4
2016	1,201	-1.68	669	-0.09	6.19	532	-2.17	4.93	44.30	24	274.22	-0.99	3
2017	1,253	-0.75	641	-0.55	5.94	612	-0.73	5.67	48.84		235.53	-2.47	3
2018	1,214	-0.86	634	-0.66	5.87	580	-0.74	5.37	47.78	1	286.97	0.19	2
2019	1,255	0.04	697	3.28	6.45	558	-0.88	5.17	44.46	3	239.49	-1.37	2

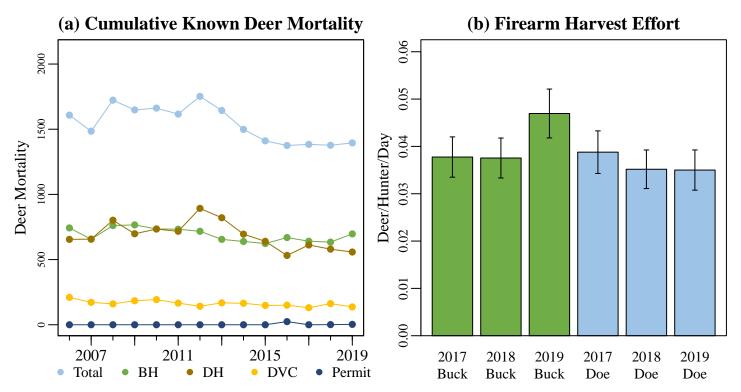


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 499 Square Miles of Deer Habitat: 108 Percent Deer Habitat: 22

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	937	370	566	1	0	436	389	93	18	1	0	0	0	0	0	0
2017	941	429	512	0	0	370	434	112	18	6	1	0	0	0	0	0
2018	937	412	524	1	0	380	434	115	8	0	0	0	0	0	0	0
2019	958	365	591	2	0	421	416	119	2	0	0	0	0	0	0	0

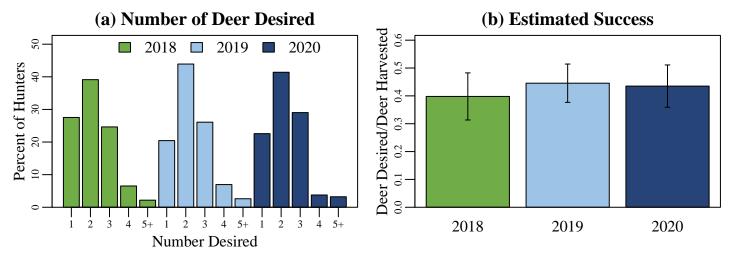
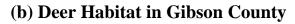


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Gibson County Map



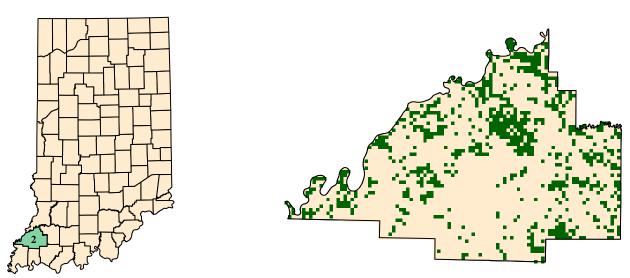


Figure 3. (a) Gibson county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Gibson county.

4/17/2020

#### **County Bonus Antlerless Quota**

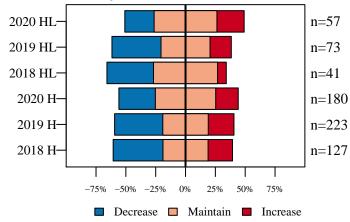


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

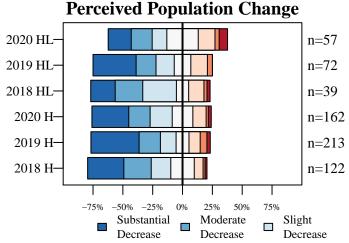


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

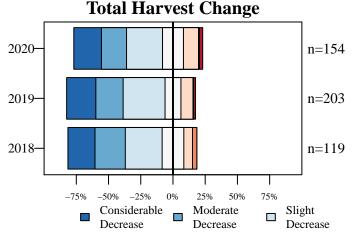


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

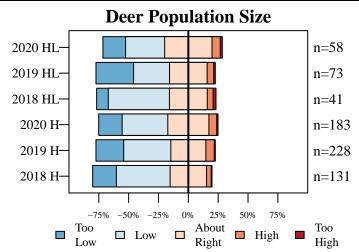
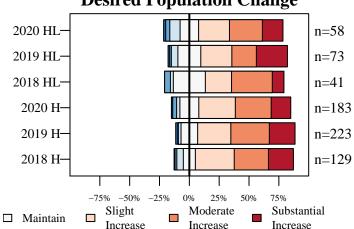
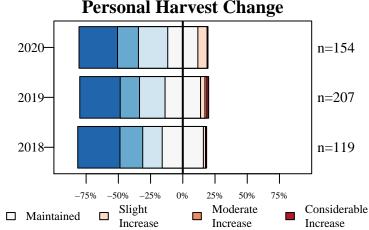


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

### Buck Quality

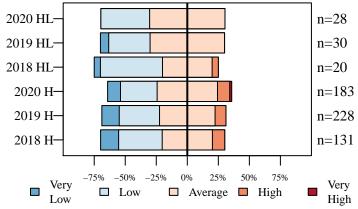


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

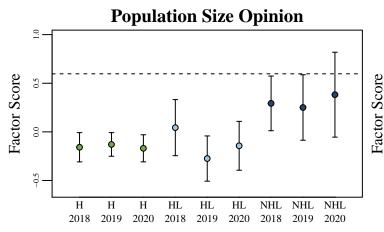


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

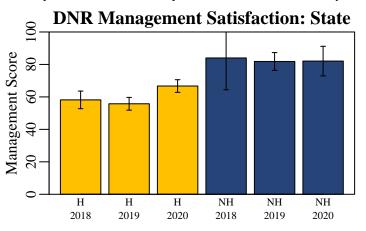


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

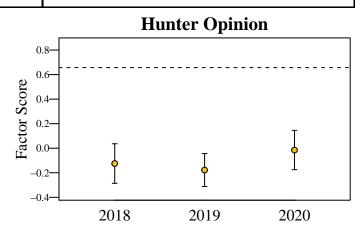


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



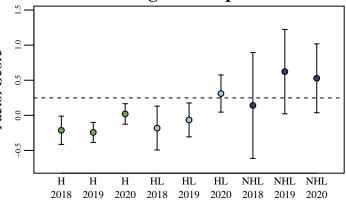


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

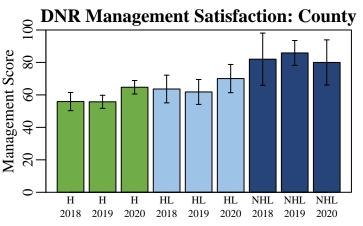


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

### **Grant County**

4/17/2020

Total Square Miles: 415 Square Miles of Deer Habitat: 51 Percent Deer Habitat: 12

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	651		349		7.93	302		6.86	46.39		224.39		2
2007	809		427		9.70	382		8.68	47.22		215.18		2
2008	779		418		9.50	361		8.20	46.34		199.46		3
2009	796		422		9.59	374		8.50	46.98		195.44		3
2010	869	1.79	446	1.39	10.14	423	2.19	9.61	48.68		240.61	2.69	3
2011	822	0.51	449	0.99	10.20	373	0.11	8.48	45.38		198.57	-0.89	4
2012	800	-0.44	383	-3.48	8.70	417	1.45	9.48	52.12		176.90	-1.75	4
2013	717	-2.77	369	-2.05	8.39	348	-1.47	7.91	48.54		179.91	-0.95	4
2014	807	0.11	400	-0.38	9.09	407	0.63	9.25	50.43		217.64	0.76	4
2015	809	0.11	407	-0.07	9.25	402	0.26	9.14	49.69		205.04	0.09	4
2016	817	0.62	416	0.47	8.16	401	0.41	7.86	49.08		174.72	-1.22	4
2017	730	-1.45	372	-1.22	7.29	358	-1.37	7.02	49.04		217.00	1.35	4
2018	763	-0.27	434	1.95	8.51	329	-1.94	6.45	43.12		220.92	1.08	2
2019	844	1.57	489	3.65	9.59	355	-0.71	6.96	42.06		249.44	2.22	2

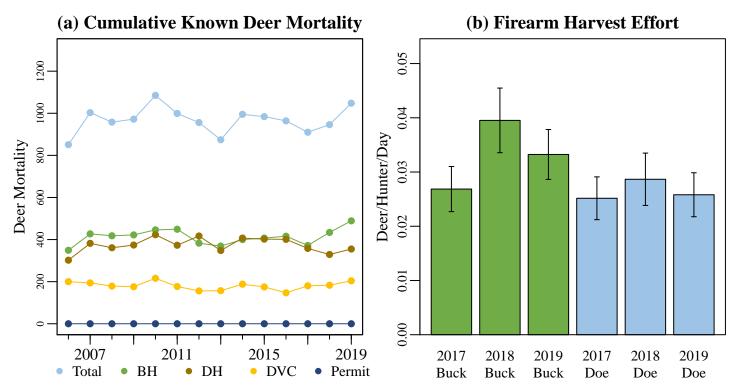


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

### **Grant County**

4/17/2020

Total Square Miles: 415 Square Miles of Deer Habitat: 51 Percent Deer Habitat: 12

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	622	319	303	0	0	220	313	69	17	3	0	0	0	0	0	0
2017	549	298	251	0	0	179	279	78	9	3	1	0	0	0	0	0
2018	594	257	337	0	0	250	268	71	4	1	0	0	0	0	0	0
2019	640	230	410	0	0	294	265	74	7	0	0	0	0	0	0	0

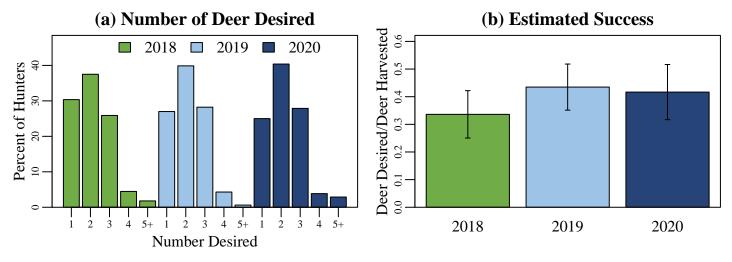


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Grant County Map



(b) Deer Habitat in Grant County

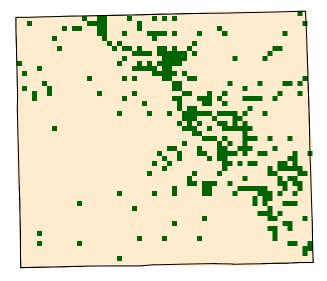


Figure 3. (a) Grant county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Grant county.

### **Grant County**

4/17/2020

#### **County Bonus Antlerless Quota**

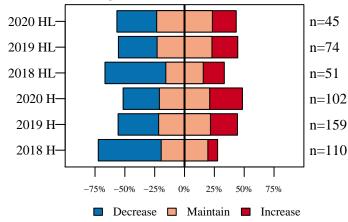


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

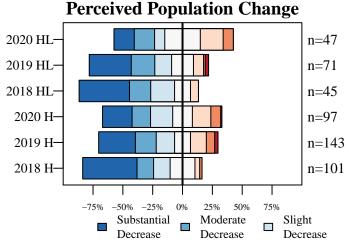


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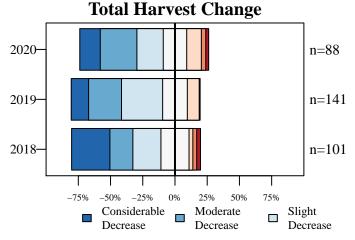


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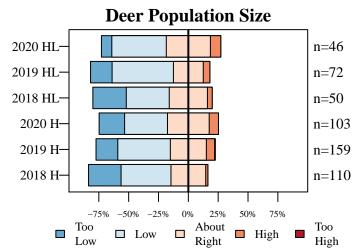
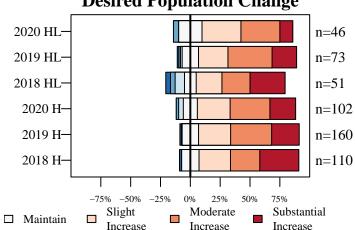
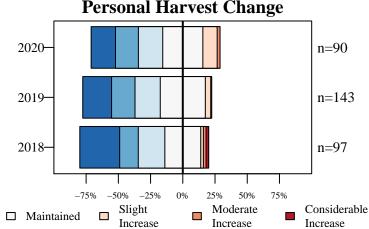


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#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



### **Grant County**

4/17/2020

#### **Buck Quality**

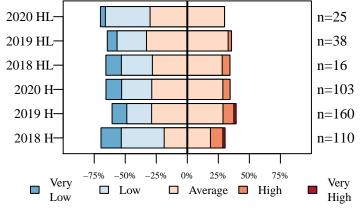


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

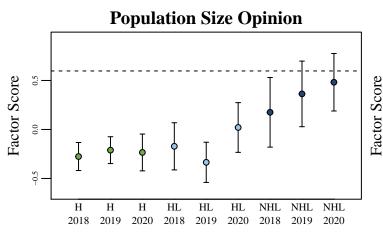


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

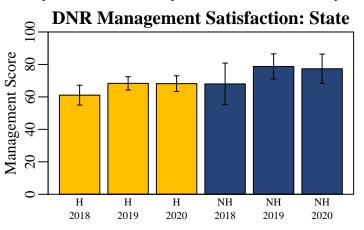


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

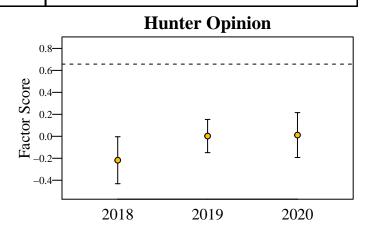


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**Management Opinion** 

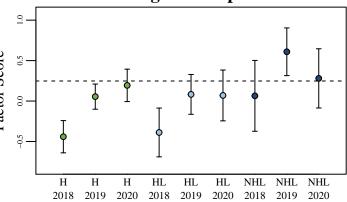


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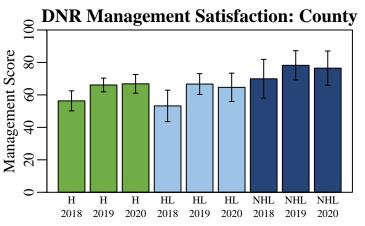


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4/17/2020

Total Square Miles: 546 Square Miles of Deer Habitat: 318 Percent Deer Habitat: 58

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveleu		
2006	$2,\!103$		1,057		3.15	1,046		3.11	49.74		548.35		3
2007	1,937		995		2.96	942		2.80	48.63		540.93		3
2008	2,120		1,119		3.33	1,001		2.98	47.22		477.16		3
2009	2,033		1,022		3.04	1,011		3.01	49.73		544.58		4
2010	2,074	-0.02	1,038	-0.48	3.09	1,036	0.85	3.08	49.95		555.31	0.70	4
2011	1,978	-1.03	953	-2.00	2.84	1,025	0.44	3.05	51.82		643.03	3.45	4
2012	1,975	-0.73	858	-2.72	2.55	1,117	3.11	3.32	56.56		523.43	-0.49	4
2013	2,234	3.17	1,157	1.62	3.44	1,077	0.85	3.21	48.21		633.41	1.40	3
2014	2,038	-0.20	1,022	0.15	3.04	1,016	-0.86	3.02	49.85		638.01	1.06	3
2015	2,228	1.59	1,202	1.78	3.58	1,026	-0.67	3.05	46.05		706.25	1.94	3
2016	2,288	1.51	1,254	1.52	3.94	1,034	-0.42	3.25	45.19	23	803.21	2.64	3
2017	2,476	2.36	1,202	0.65	3.78	1,274	5.21	4.01	51.45	9	769.89	1.06	4
2018	2,244	-0.06	1,157	-0.12	3.64	1,087	0.01	3.42	48.44	18	708.53	-0.02	4
2019	$2,\!059$	-1.25	$1,\!103$	-0.73	3.47	956	-1.22	3.01	46.43	10	736.94	0.18	2

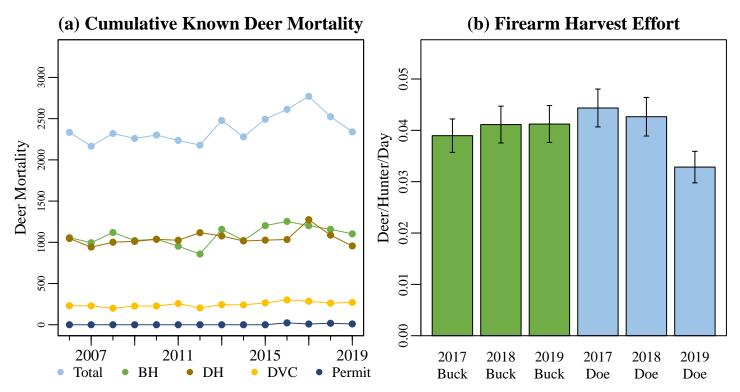


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

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Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{ m AL}^{ m 3}$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\mathrm{AL}}^{6}$	7 AL	${}^{8}_{\mathrm{AL}}$	9 AL	10 AL
2016	1,824	774	1,049	1	0	826	789	182	25	1	1	0	0	0	0	0
2017	$1,\!867$	911	955	1	0	690	907	213	44	12	0	1	0	0	0	0
2018	1,707	797	906	4	0	681	791	183	39	9	4	0	0	0	0	0
2019	$1,\!618$	736	880	2	0	668	742	191	17	0	0	0	0	0	0	0

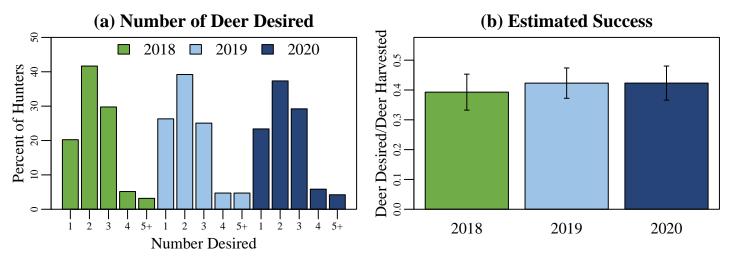


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Greene County Map



(b) Deer Habitat in Greene County

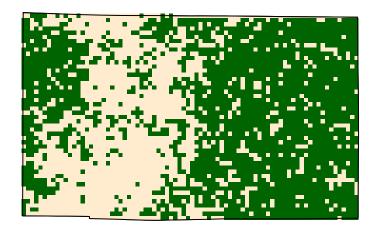


Figure 3. (a) Greene county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Greene county.

4/17/2020

#### **County Bonus Antlerless Quota**

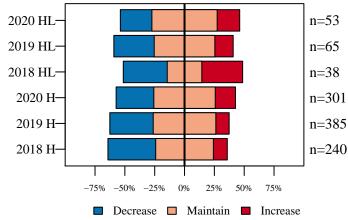


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

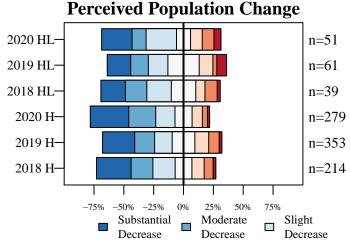


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

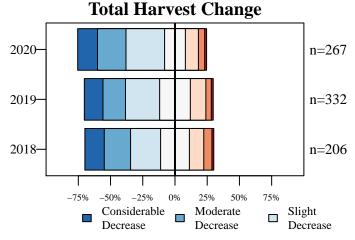


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

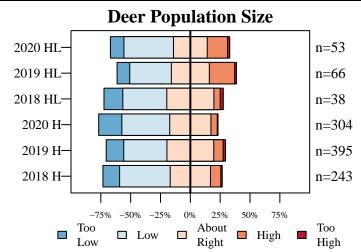
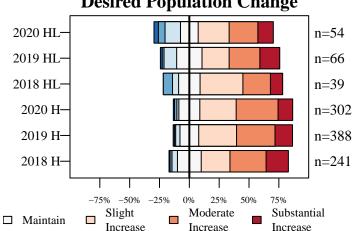


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

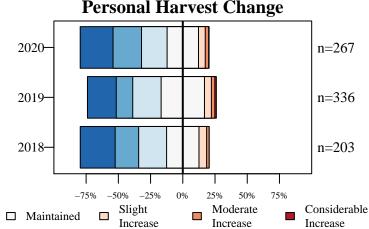


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

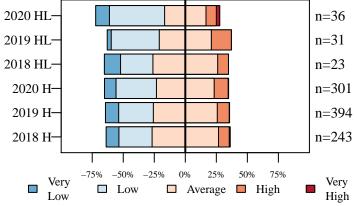
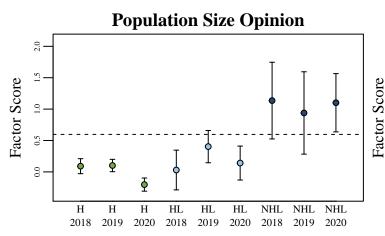


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



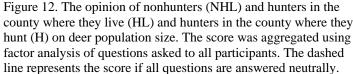




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

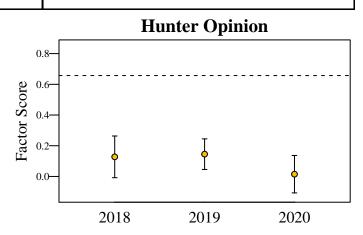


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

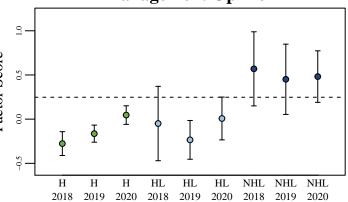


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

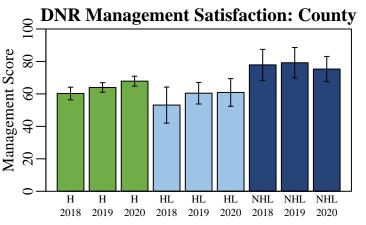


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 402 Square Miles of Deer Habitat: 53 Percent Deer Habitat: 13

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	421		237		5.04	184		3.91	43.71		104.81		2
2007	455		258		5.49	197		4.19	43.30		127.29		2
2008	492		285		6.06	207		4.40	42.07		121.23		3
2009	534		286		6.09	248		5.28	46.44		104.67		3
2010	471	0.16	254	-0.19	5.40	217	0.50	4.62	46.07		113.59	0.25	4
2011	516	0.98	266	0.09	5.66	250	1.63	5.32	48.45		99.32	-1.50	4
2012	580	2.69	268	-0.12	5.70	312	3.66	6.64	53.79		86.91	-2.29	4
2013	494	-0.59	230	-3.07	4.89	264	0.42	5.62	53.44		80.79	-1.85	4
2014	517	-0.05	245	-0.76	5.21	272	0.40	5.79	52.61		73.60	-1.77	4
2015	529	0.33	247	-0.36	5.26	282	0.55	6.00	53.31		73.60	-1.09	4
2016	469	-1.81	232	-1.21	4.38	237	-1.68	4.47	50.53		63.13	-1.83	4
2017	411	-2.56	201	-2.85	3.79	210	-2.32	3.96	51.09	3	70.41	-0.58	4
2018	507	0.49	268	2.01	5.06	239	-0.48	4.51	47.14		73.99	0.26	2
2019	478	-0.18	274	1.44	5.17	204	-1.51	3.85	42.68	9	65.52	-1.18	2

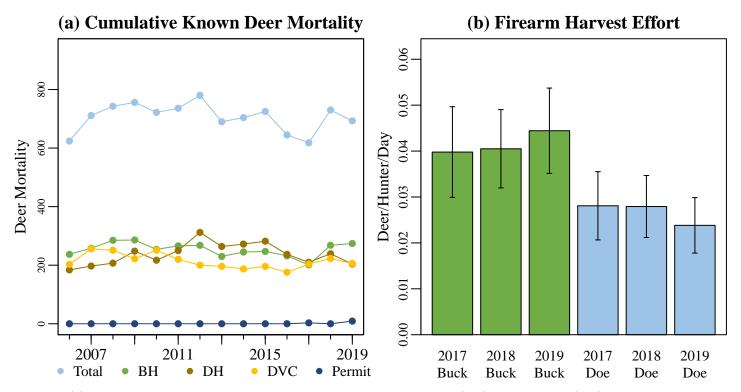


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 402 Square Miles of Deer Habitat: 53 Percent Deer Habitat: 13

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	351	183	162	6	0	107	203	33	6	2	0	0	0	0	0	0
2017	302	156	141	5	0	91	170	34	6	1	0	0	0	0	0	0
2018	359	170	182	7	0	110	201	40	5	2	0	0	1	0	0	0
2019	361	140	215	6	0	147	183	26	4	1	0	0	0	0	0	0

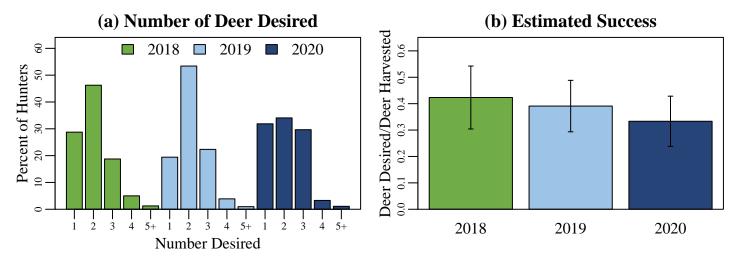


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Hamilton County Map



(b) Deer Habitat in Hamilton County

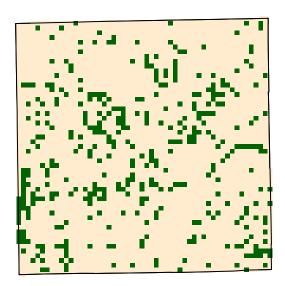


Figure 3. (a) Hamilton county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Hamilton county.

4/17/2020

#### **County Bonus Antlerless Quota**

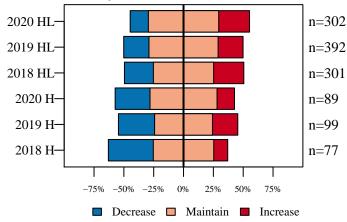


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

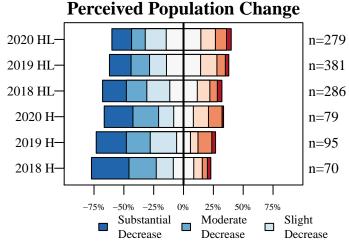


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

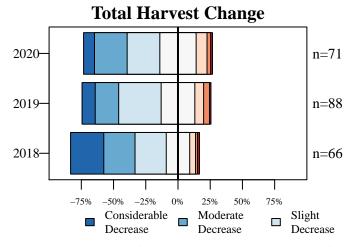
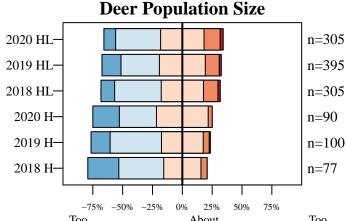
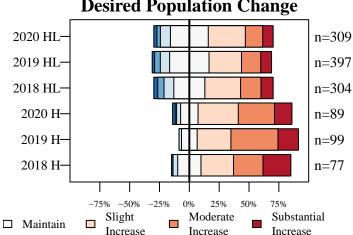


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



#### **Deer Management Survey Results**

About Too Too Low High Right High Low Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the



#### **Desired Population Change**

county where they hunt (H).

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

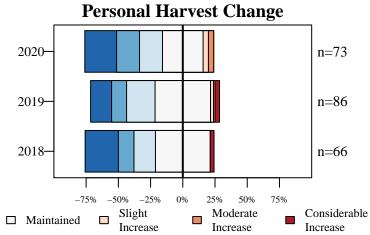


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### Buck Quality

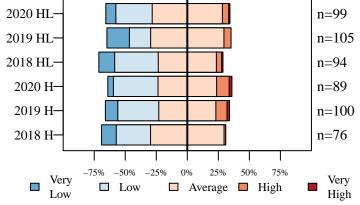


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

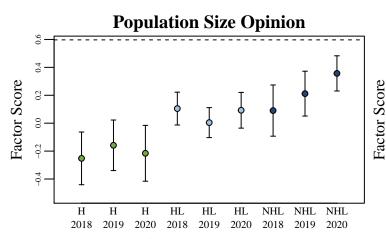


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

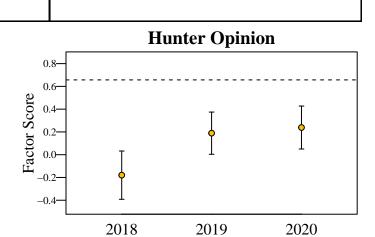


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion** 0.8 0.6ļ 0.4 0.20.0 -0.2 4.0 Н Н Н HL HL HL NHL NHL NHL

2018 2019 2020 2018 2019 2020 2018 2019 2020 Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

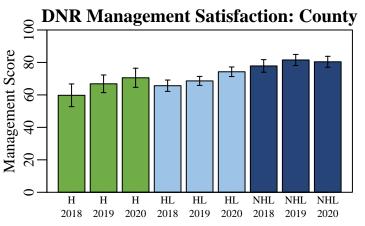


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

#### **Deer Management Survey Results**

4/17/2020

Total Square Miles: 307 Square Miles of Deer Habitat: 30 Percent Deer Habitat: 10

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	290		152		5.07	138		4.60	47.59		140.04		2
2007	286		150		5.00	136		4.53	47.55		130.02		2
2008	274		149		4.97	125		4.17	45.62		122.96		3
2009	279		143		4.77	136		4.53	48.75		102.83		3
2010	264	-1.72	147	-0.62	4.90	117	-2.25	3.90	44.32		113.20	-0.51	3
2011	286	0.72	151	0.82	5.03	135	0.51	4.50	47.20		107.14	-1.02	3
2012	319	4.46	179	9.80	5.97	140	1.20	4.67	43.89		103.59	-1.04	3
2013	320	1.70	181	1.89	6.03	139	0.89	4.63	43.44		81.55	-3.40	3
2014	339	1.82	171	0.59	5.70	168	3.68	5.60	49.56		99.62	-0.17	3
2015	320	0.48	174	0.52	5.80	146	0.34	4.87	45.62		93.06	-0.66	3
2016	283	-1.77	153	-1.52	5.10	130	-1.19	4.33	45.94		101.12	0.41	3
2017	285	-1.53	155	-1.49	5.17	130	-1.02	4.33	45.61		103.53	0.87	3
2018	291	-0.75	179	1.00	5.97	112	-1.95	3.73	38.49		119.29	2.66	1
2019	269	-1.40	174	0.65	5.80	95	-2.01	3.17	35.32	2	105.00	0.17	1

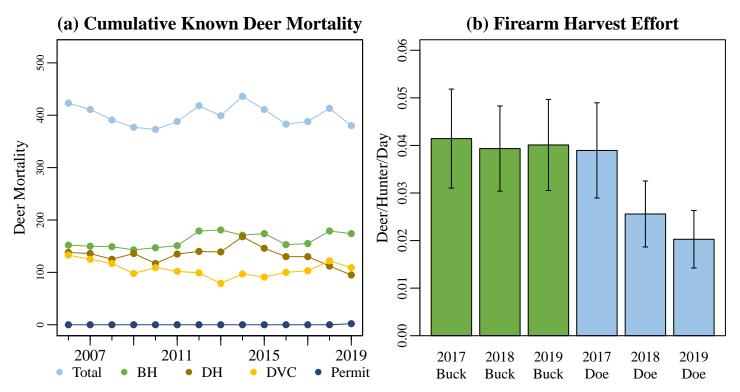


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 307 Square Miles of Deer Habitat: 30 Percent Deer Habitat: 10

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	250	131	119	0	0	106	125	18	1	0	0	0	0	0	0	0
2017	239	115	124	0	0	100	118	20	1	0	0	0	0	0	0	0
2018	247	97	150	0	0	127	100	19	1	0	0	0	0	0	0	0
2019	241	100	140	1	0	120	116	4	1	0	0	0	0	0	0	0

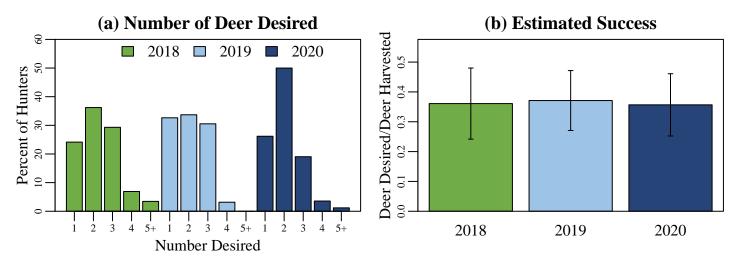


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).





(b) Deer Habitat in Hancock County

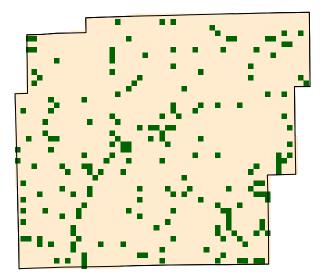


Figure 3. (a) Hancock county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Hancock county.

4/17/2020

#### **County Bonus Antlerless Quota**

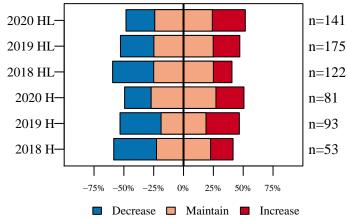


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

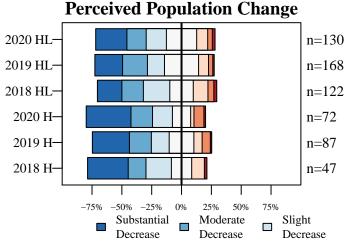


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

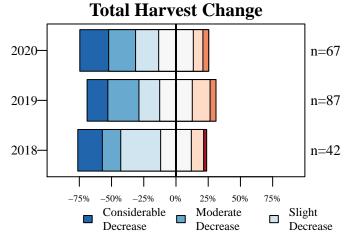
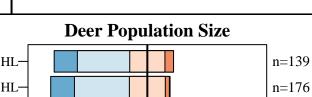


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



#### **Deer Management Survey Results**

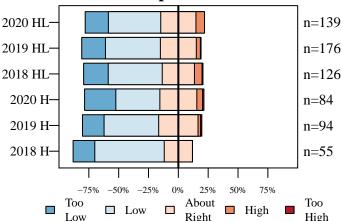
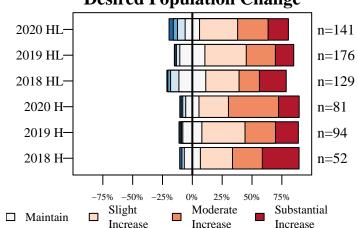


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

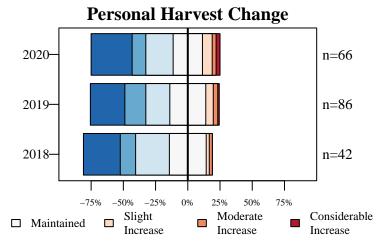


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

### Buck Quality

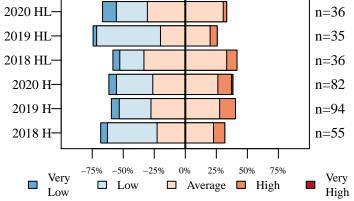


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

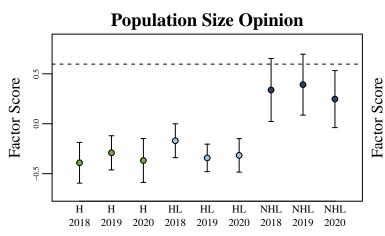
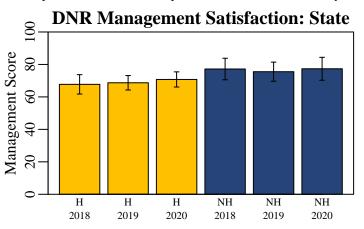
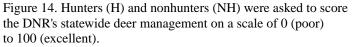


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.





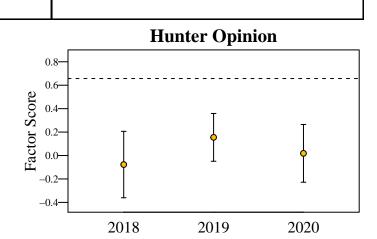


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#### **Management Opinion**

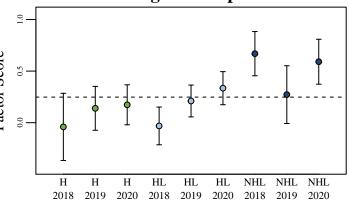


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

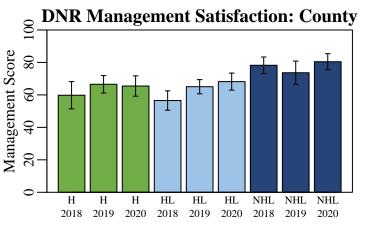


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

#### **Deer Management Survey Results**

4/17/2020

Total Square Miles: 486 Square Miles of Deer Habitat: 372 Percent Deer Habitat: 76

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	2,574		1,280		3.33	1,294		3.37	50.27		554.52		8
2007	$2,\!190$		1,074		2.80	1,116		2.91	50.96		501.17		8
2008	$2,\!658$		1,247		3.25	1,411		3.67	53.09		551.65		8
2009	2,746		$1,\!414$		3.68	1,332		3.47	48.51		468.08		8
2010	$2,\!439$	-0.36	1,217	-0.29	3.17	1,222	-0.36	3.18	50.10		423.94	-2.60	8
2011	$2,\!680$	0.73	1,342	0.78	3.49	1,338	0.56	3.48	49.93		470.46	-0.53	8
2012	$3,\!086$	2.38	1,319	0.46	3.43	1,767	4.18	4.60	57.26		511.93	0.61	8
2013	$3,\!452$	3.12	1,595	3.67	4.15	1,857	2.12	4.84	53.79		575.97	1.87	8
2014	$3,\!056$	0.44	$1,\!376$	-0.01	3.58	$1,\!680$	0.62	4.38	54.97		564.35	1.30	8
2015	3,227	0.73	$1,\!622$	1.81	4.22	$1,\!605$	0.12	4.18	49.74		610.88	1.59	8
2016	2,947	-0.54	$1,\!476$	0.17	3.97	$1,\!471$	-0.90	3.95	49.92	43	549.48	0.05	8
2017	$3,\!051$	-0.53	$1,\!493$	0.12	4.01	1,558	-0.79	4.19	51.07	108	688.87	3.49	8
2018	$2,\!648$	-2.52	$1,\!277$	-2.38	3.43	$1,\!371$	-1.81	3.69	51.77	141	638.55	0.73	8
2019	$2,\!497$	-2.29	1,292	-1.21	3.47	1,205	-2.77	3.24	48.26	82	535.65	-1.32	2

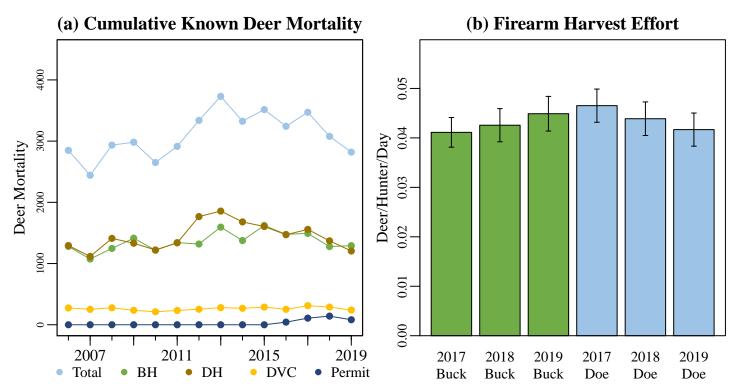


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 486 Square Miles of Deer Habitat: 372 Percent Deer Habitat: 76

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	2,096	878	1,216	2	0	859	885	261	59	22	7	2	0	1	0	0
2017	$2,\!113$	931	$1,\!179$	3	0	818	895	291	76	18	6	6	1	2	0	0
2018	$1,\!847$	811	1,035	1	0	707	802	242	70	17	7	2	0	0	0	0
2019	$1,\!860$	801	$1,\!055$	4	0	747	826	255	30	2	0	0	0	0	0	0

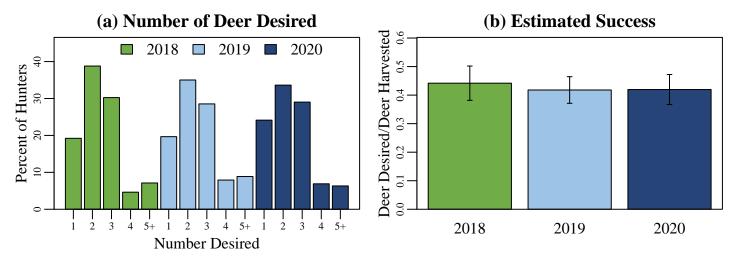


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Harrison County Map



(b) Deer Habitat in Harrison County

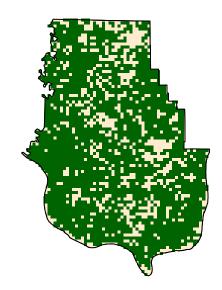


Figure 3. (a) Harrison county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Harrison county.

4/17/2020

#### **County Bonus Antlerless Quota**

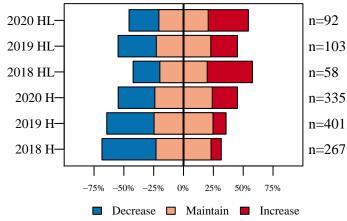


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

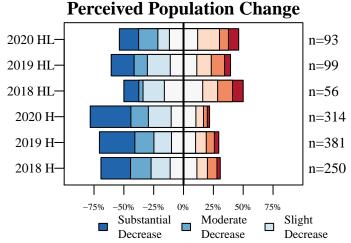


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

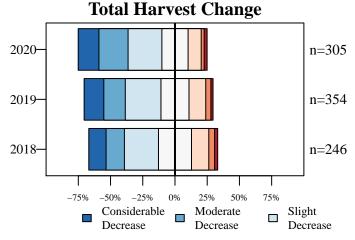
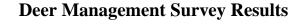


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



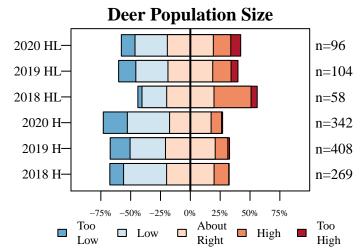


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

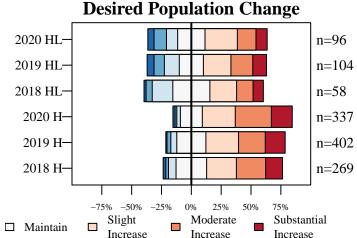


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

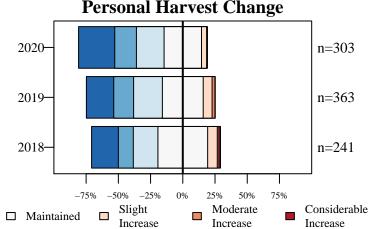


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

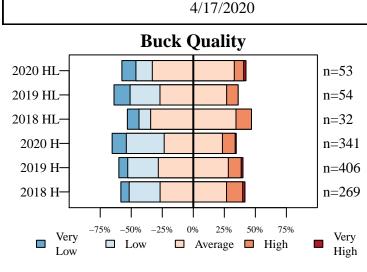
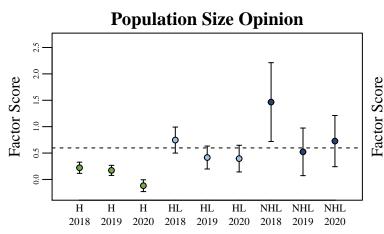


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



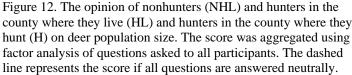




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

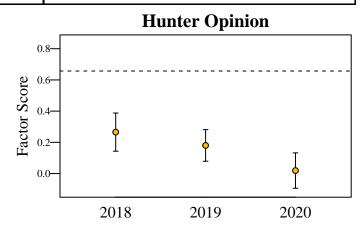


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

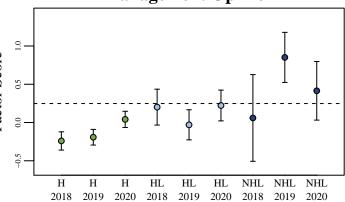


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

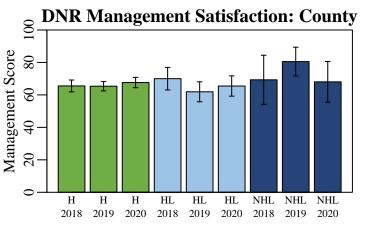


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 409 Square Miles of Deer Habitat: 72 Percent Deer Habitat: 18

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	519		287		4.10	232		3.31	44.70		205.99		8
2007	577		325		4.64	252		3.60	43.67		215.12		8
2008	640		366		5.23	274		3.91	42.81		173.63		8
2009	621		363		5.19	258		3.69	41.55		178.54		8
2010	618	0.76	332	-0.07	4.74	286	1.35	4.09	46.28		148.63	-2.52	8
2011	619	0.50	344	0.29	4.91	275	0.70	3.93	44.43		178.72	-0.21	8
2012	758	6.20	389	2.36	5.56	369	7.25	5.27	48.68		169.15	-0.41	8
2013	639	-0.20	343	-0.72	4.90	296	0.08	4.23	46.32		145.66	-1.93	8
2014	645	-0.10	318	-1.61	4.54	327	0.71	4.67	50.70		143.89	-1.26	8
2015	627	-0.49	335	-0.38	4.79	292	-0.49	4.17	46.57		132.66	-1.56	8
2016	612	-0.80	368	0.84	5.11	244	-1.83	3.39	39.87	1	113.48	-2.12	8
2017	563	-1.60	303	-1.70	4.21	260	-0.99	3.61	46.18		107.90	-1.63	8
2018	628	0.33	378	1.80	5.25	250	-1.04	3.47	39.81		121.13	-0.44	3
2019	601	-0.45	368	0.86	5.11	233	-1.20	3.24	38.77		98.13	-1.76	2

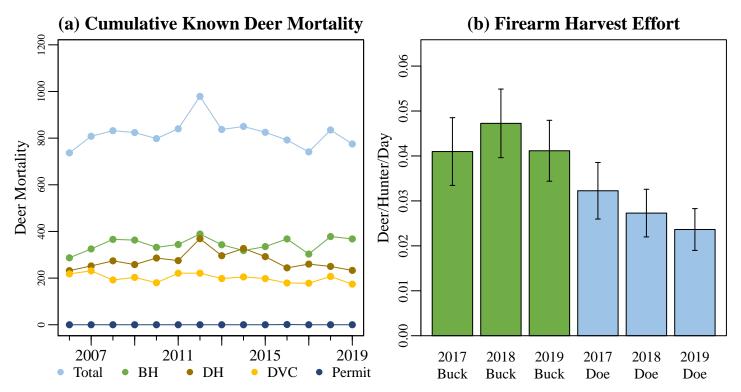


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 409 Square Miles of Deer Habitat: 72 Percent Deer Habitat: 18

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	485	187	292	6	0	238	203	34	5	3	2	0	0	0	0	0
2017	425	194	226	5	0	162	210	44	7	2	0	0	0	0	0	0
2018	493	189	294	10	0	231	213	46	3	0	0	0	0	0	0	0
2019	477	187	288	2	0	223	209	40	4	0	0	0	0	1	0	0

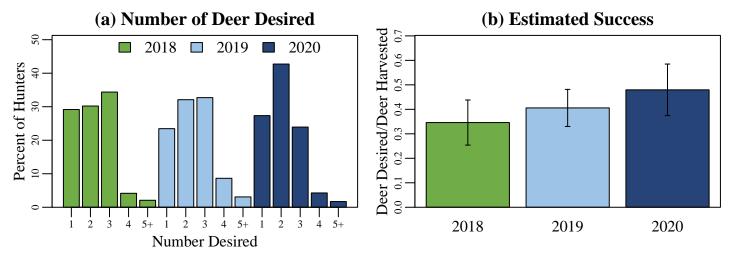


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Hendricks County Map



(b) Deer Habitat in Hendricks County

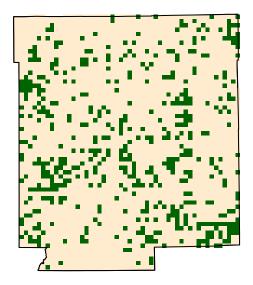


Figure 3. (a) Hendricks county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Hendricks county.

4/17/2020

#### **County Bonus Antlerless Quota**

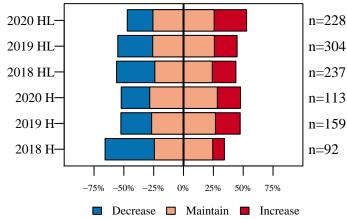


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

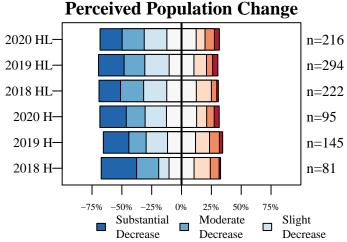


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

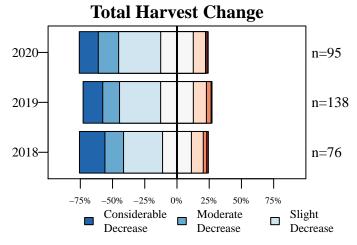
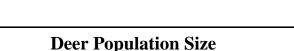


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

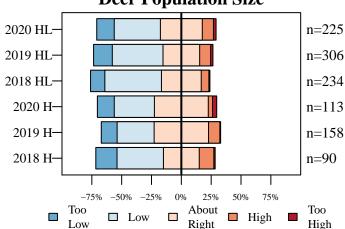
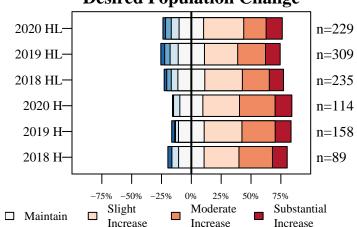


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

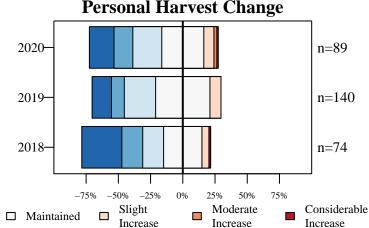


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

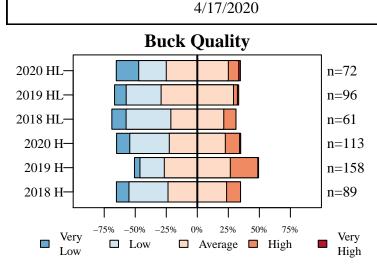


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

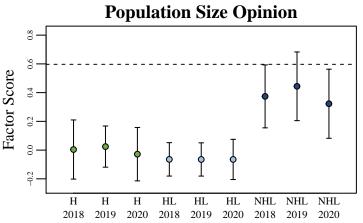


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

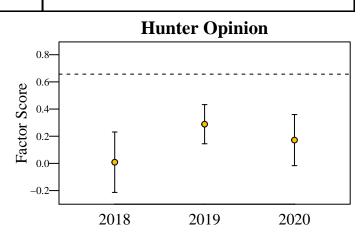
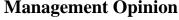


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



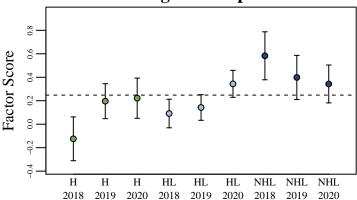


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

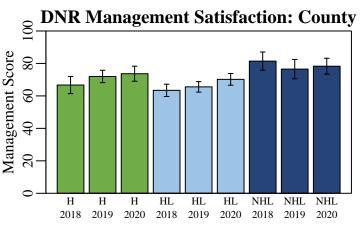


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 395 Square Miles of Deer Habitat: 69 Percent Deer Habitat: 17

Year	Total	Total Trend	Buck Harvest	Buck Trend	Buck Harvest	Doe Harvest	Doe Trend	Doe Harvest	% Doe in	Damage Permit	DVC per	Total Trend	CBAQ
		in $SD$		in SD	per SQ		in $SD$	per SQ	Harvest	Deer	Billion	in	
					MI			${ m MI}$		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	501		266		4.16	235		3.67	46.91		199.95		3
2007	494		270		4.22	224		3.50	45.34		175.99		3
2008	519		292		4.56	227		3.55	43.74		163.76		3
2009	596		323		5.05	273		4.27	45.81		182.71		3
2010	633	2.50	345	2.57	5.39	288	2.02	4.50	45.50		186.18	0.13	3
2011	605	0.91	322	0.67	5.03	283	1.15	4.42	46.78		151.91	-2.24	3
2012	581	0.19	301	-0.32	4.70	280	0.68	4.38	48.19		153.95	-1.28	4
2013	634	1.11	326	0.45	5.09	308	1.53	4.81	48.58		154.82	-0.81	4
2014	617	0.31	316	-0.47	4.94	301	1.10	4.70	48.78		165.42	-0.03	4
2015	601	-0.59	337	0.94	5.27	264	-2.33	4.12	43.93		191.34	2.03	4
2016	593	-0.74	335	1.10	4.86	258	-1.66	3.74	43.51		114.46	-2.98	4
2017	483	-5.89	262	-4.11	3.80	221	-2.78	3.20	45.76		143.27	-0.46	4
2018	600	0.24	345	0.96	5.00	255	-0.44	3.70	42.50		125.85	-0.99	2
2019	604	0.46	360	1.22	5.22	244	-0.55	3.54	40.40		162.96	0.48	2

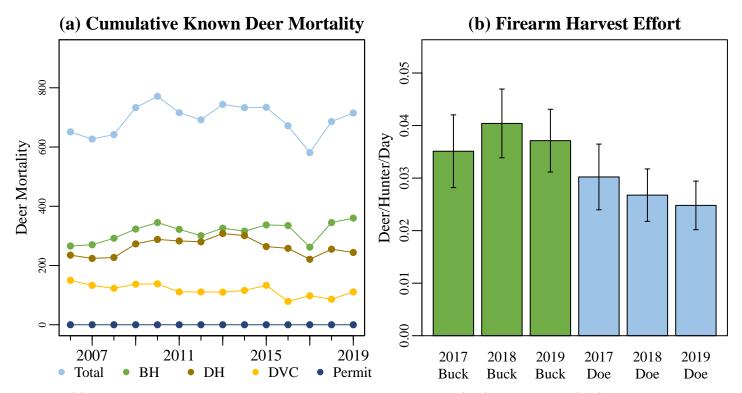


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 395 Square Miles of Deer Habitat: 69 Percent Deer Habitat: 17

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	472	223	249	0	0	196	221	46	7	1	0	1	0	0	0	0
2017	394	190	204	0	0	172	178	33	9	2	0	0	0	0	0	0
2018	493	225	268	0	0	223	217	45	7	1	0	0	0	0	0	0
2019	501	219	281	1	0	224	236	39	1	1	0	0	0	0	0	0

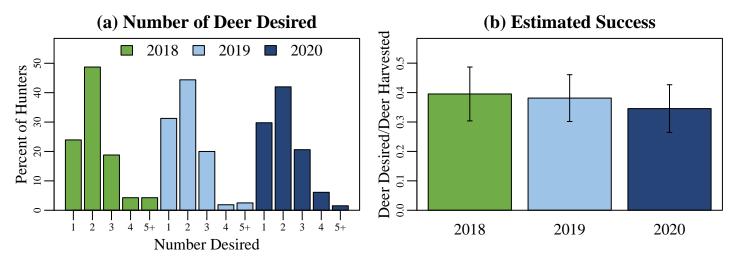


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Henry County Map



(b) Deer Habitat in Henry County

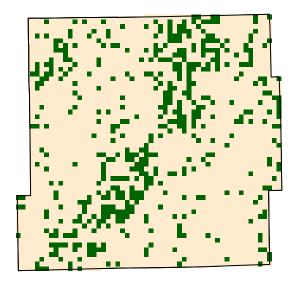


Figure 3. (a) Henry county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Henry county.

4/17/2020

#### **County Bonus Antlerless Quota**

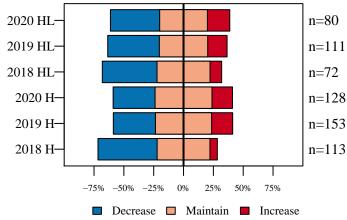


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

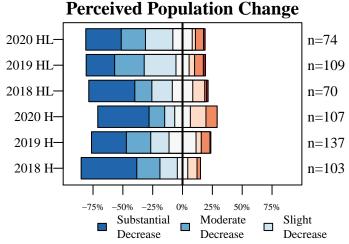


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

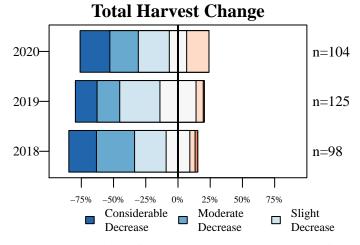


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

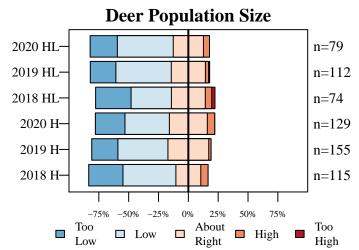
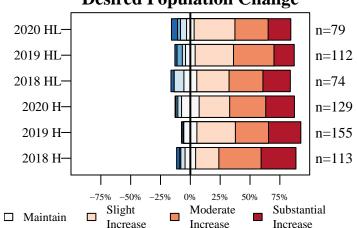


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

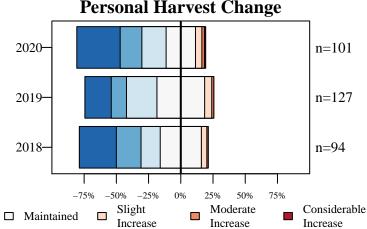


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

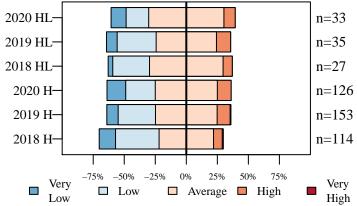
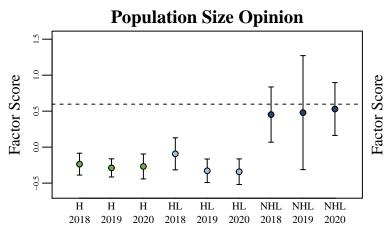
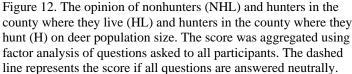


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





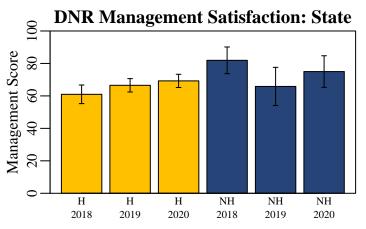


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

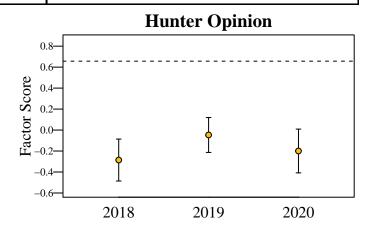
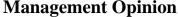


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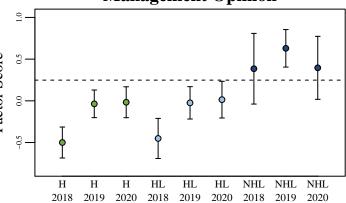


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

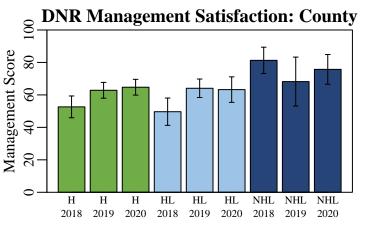


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 294 Square Miles of Deer Habitat: 25 Percent Deer Habitat: 8

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	410		207		9.86	203		9.67	49.51		177.08		3
2007	504		274		13.05	230		10.95	45.63		181.63		3
2008	488		239		11.38	249		11.86	51.02		191.72		4
2009	523		254		12.10	269		12.81	51.43		181.54		4
2010	522	1.01	262	0.80	12.48	260	0.90	12.38	49.81		152.89	-1.28	4
2011	450	-0.84	235	-0.47	11.19	215	-1.03	10.24	47.78		153.56	-1.62	8
2012	505	0.25	242	-0.67	11.52	263	0.84	12.52	52.08		169.20	-0.17	8
2013	405	-3.06	179	-6.00	8.52	226	-1.17	10.76	55.80		155.40	-0.84	8
2014	378	-1.99	196	-1.17	9.33	182	-2.65	8.67	48.15		167.54	0.40	3
2015	378	-1.19	204	-0.55	9.71	174	-1.64	8.29	46.03		180.12	2.56	3
2016	355	-1.25	205	-0.23	8.20	150	-1.73	6.00	42.25		144.51	-1.89	3
2017	334	-1.19	178	-1.18	7.12	156	-0.95	6.24	46.71		157.76	-0.41	2
2018	342	-1.04	196	0.27	7.84	146	-1.05	5.84	42.69		169.15	0.60	2
2019	374	0.82	227	2.88	9.08	147	-0.93	5.88	39.30		167.00	0.24	2

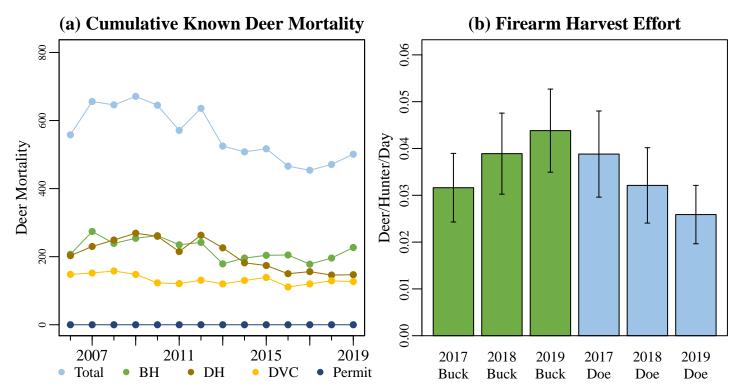


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 294 Square Miles of Deer Habitat: 25 Percent Deer Habitat: 8

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	292	140	152	0	0	122	142	23	5	0	0	0	0	0	0	0
2017	278	145	133	0	0	110	136	31	1	0	0	0	0	0	0	0
2018	276	120	156	0	0	119	129	27	1	0	0	0	0	0	0	0
2019	306	114	192	0	0	154	123	28	1	0	0	0	0	0	0	0

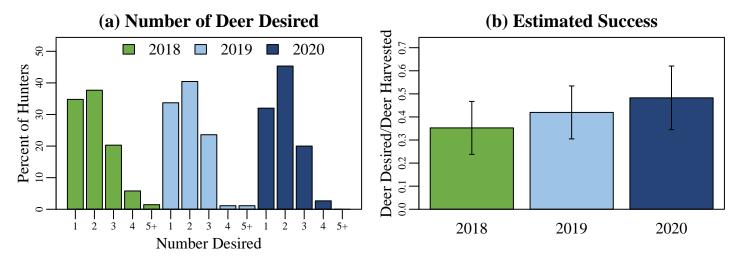
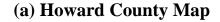
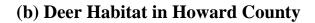


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).





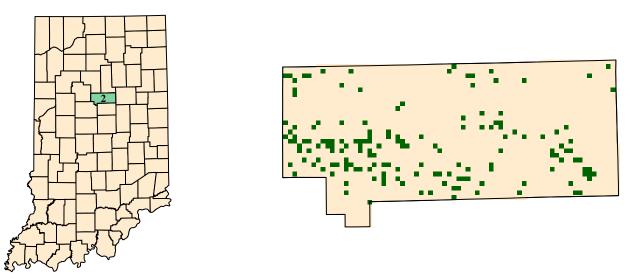


Figure 3. (a) Howard county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Howard county.

4/17/2020

#### **County Bonus Antlerless Quota**

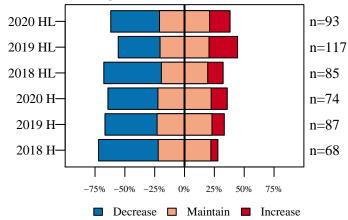


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

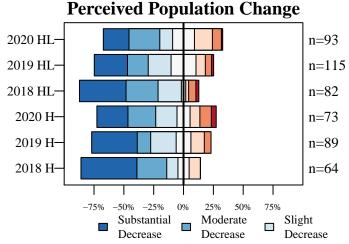


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

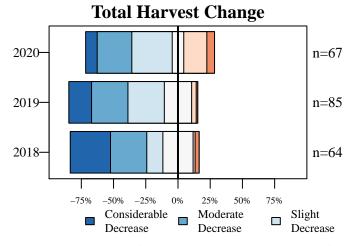
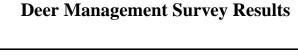


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



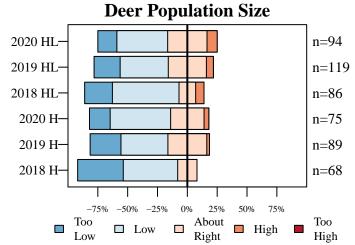
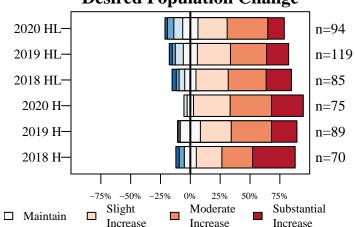


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

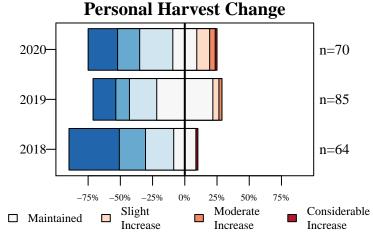


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

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#### **Buck Quality**

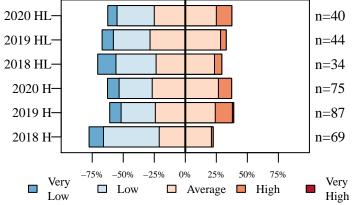


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

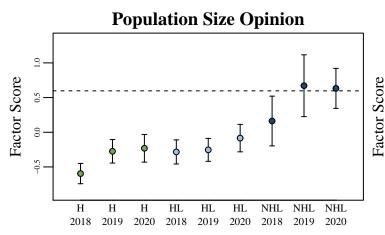


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

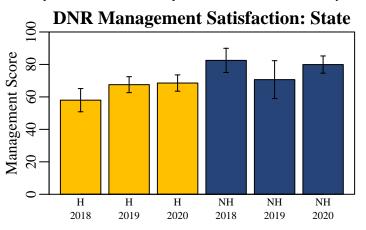


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

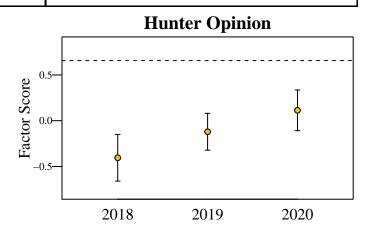


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

Management Opinion

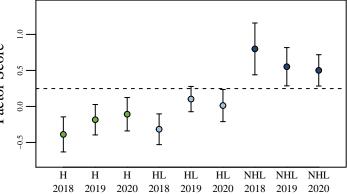


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

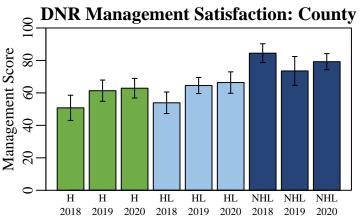


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 388 Square Miles of Deer Habitat: 63 Percent Deer Habitat: 16

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
		III SD		III SD	MI		III SD	MI	11al vest	Taken	Miles	DVC	
					Habitat			Habitat		Taken	Traveled	DVC	
2006	$1,\!139$		574		9.90	565		9.74	49.60		422.06		3
2007	$1,\!198$		615		10.60	583		10.05	48.66		428.29		3
2008	1,207		633		10.91	574		9.90	47.56		433.73		4
2009	1,223		621		10.71	602		10.38	49.22		368.38		4
2010	1,165	-0.25	618	0.46	10.66	547	-0.76	9.43	46.95		335.39	-2.66	4
2011	$1,\!155$	-0.93	584	-1.26	10.07	571	-0.16	9.84	49.44		364.49	-0.76	8
2012	1,086	-3.61	511	-5.67	8.81	575	-0.02	9.91	52.95		343.32	-0.99	8
2013	885	-5.28	465	-2.59	8.02	420	-7.88	7.24	47.46		294.12	-1.94	4
2014	863	-1.83	450	-1.59	7.76	413	-1.82	7.12	47.86		311.74	-0.99	3
2015	891	-0.95	488	-0.51	8.41	403	-1.25	6.95	45.23		323.80	-0.22	3
2016	807	-1.26	485	-0.28	7.70	322	-1.75	5.11	39.90		280.92	-1.70	3
2017	796	-1.04	438	-1.79	6.95	358	-0.75	5.68	44.97		321.63	0.44	2
2018	777	-1.61	483	0.82	7.67	294	-2.13	4.67	37.84		360.04	2.90	2
2019	951	2.58	546	3.34	8.67	405	0.92	6.43	42.59		388.11	2.42	2

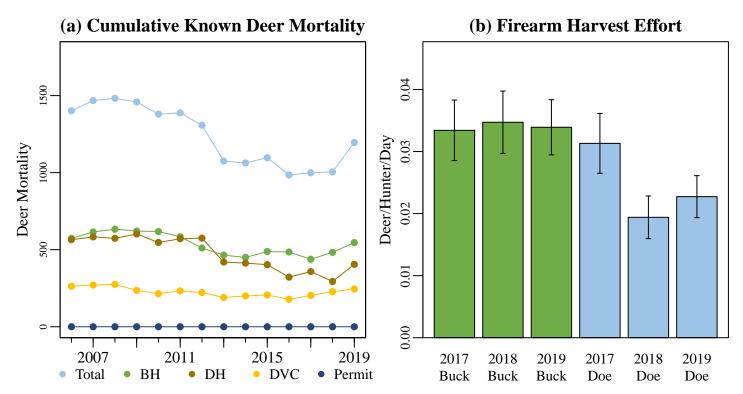


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 388 Square Miles of Deer Habitat: 63 Percent Deer Habitat: 16

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	678	275	403	0	0	336	286	50	6	0	0	0	0	0	0	0
2017	641	303	334	3	0	266	302	69	4	0	0	0	0	0	0	0
2018	658	251	405	2	0	342	267	47	1	1	0	0	0	0	0	0
2019	774	314	458	2	0	357	348	67	1	1	0	0	0	0	0	0

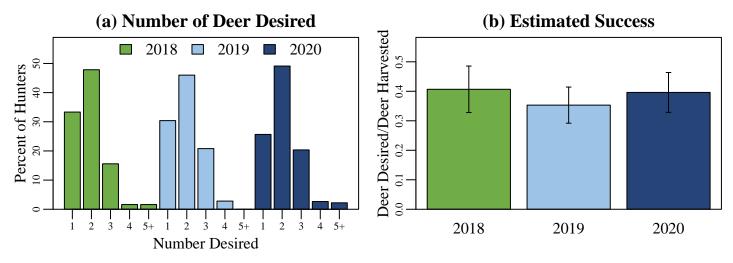


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Huntington County Map



(b) Deer Habitat in Huntington County

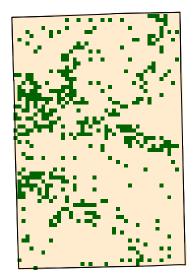


Figure 3. (a) Huntington county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Huntington county.

4/17/2020

#### **County Bonus Antlerless Quota**

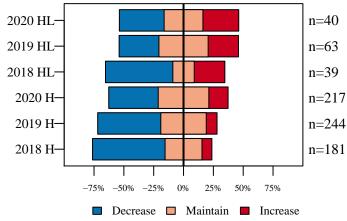


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

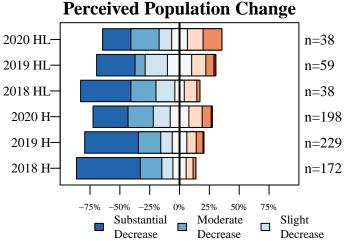


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

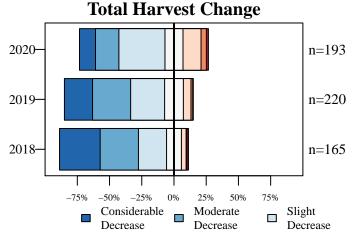
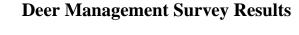


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



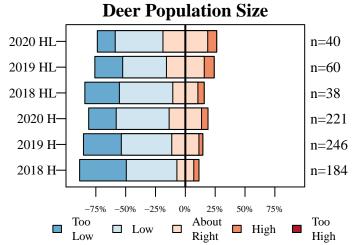
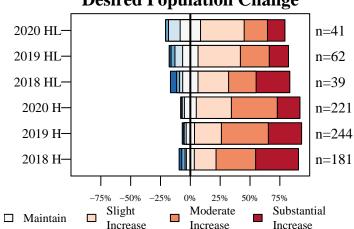


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

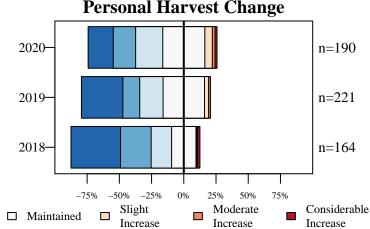


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

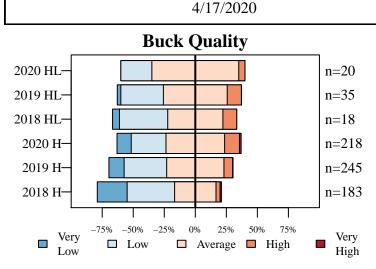
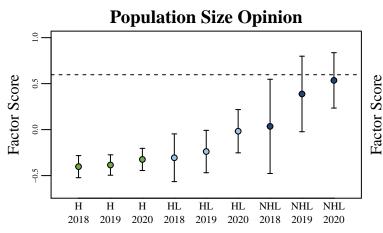


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



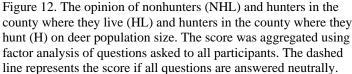




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

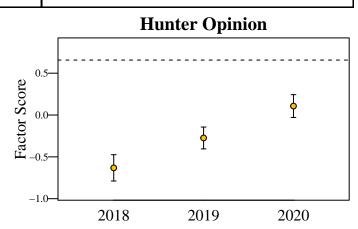


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

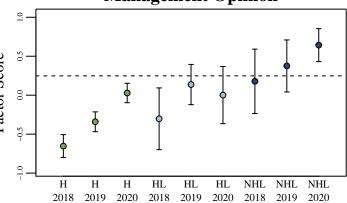


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

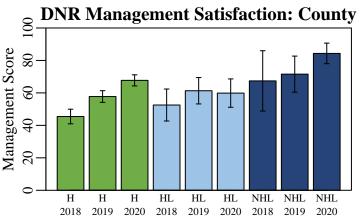


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

### **Jackson County**

4/17/2020

Total Square Miles: 513 Square Miles of Deer Habitat: 251 Percent Deer Habitat: 49

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	2,003		1,006		4.12	997		4.09	49.78		301.67		4
2007	$2,\!071$		1,034		4.24	1,037		4.25	50.07		323.51		4
2008	1,957		1,004		4.11	953		3.91	48.70		302.66		4
2009	2,007		1,039		4.26	968		3.97	48.23		241.00		4
2010	1,862	-2.61	994	-1.06	4.07	868	-3.66	3.56	46.62		257.69	-0.80	4
2011	1,967	-0.17	$1,\!004$	-0.57	4.11	963	-0.03	3.95	48.96		259.64	-0.74	4
2012	$2,\!154$	2.37	995	-0.99	4.08	$1,\!159$	3.34	4.75	53.81		306.88	0.87	4
2013	2,264	2.58	$1,\!114$	5.80	4.57	$1,\!150$	1.57	4.71	50.80		361.06	2.97	4
2014	1,901	-0.94	955	-1.46	3.91	946	-0.59	3.88	49.76		381.27	1.96	8
2015	2,165	0.79	$1,\!113$	1.68	4.56	1,052	0.27	4.31	48.59		392.43	1.39	4
2016	1,762	-2.18	950	-1.18	3.78	812	-2.41	3.24	46.08	54	352.93	0.23	4
2017	1,780	-1.29	908	-1.43	3.62	872	-1.04	3.47	48.99	53	378.08	0.58	4
2018	$1,\!491$	-2.12	840	-1.71	3.35	651	-2.32	2.59	43.66	33	303.19	-4.39	4
2019	$1,\!588$	-0.95	858	-0.95	3.42	730	-0.91	2.91	45.97	19	336.30	-0.71	2

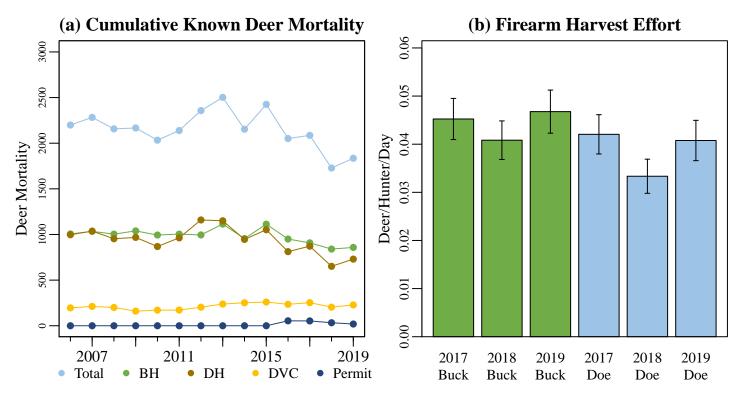


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

## **Jackson County**

4/17/2020

Total Square Miles: 513 Square Miles of Deer Habitat: 251 Percent Deer Habitat: 49

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,339	603	735	1	0	554	593	154	28	10	0	0	0	0	0	0
2017	1,319	624	694	1	0	503	599	178	28	10	1	0	0	0	0	0
2018	$1,\!176$	530	643	3	0	506	525	122	19	4	0	0	0	0	0	0
2019	1,265	578	686	1	0	527	590	136	10	2	0	0	0	0	0	0

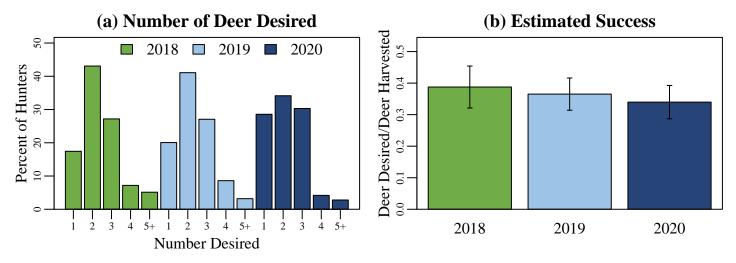


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).





(b) Deer Habitat in Jackson County

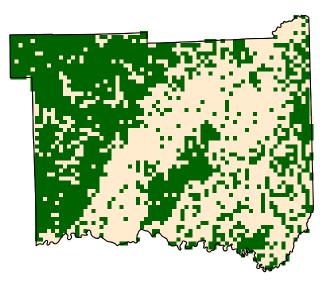


Figure 3. (a) Jackson county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Jackson county.

### **Jackson County**

4/17/2020

#### **County Bonus Antlerless Quota**

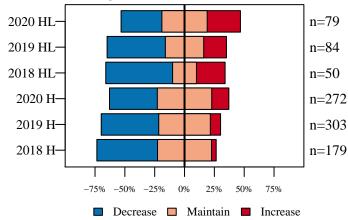


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

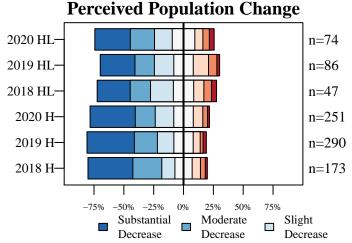


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

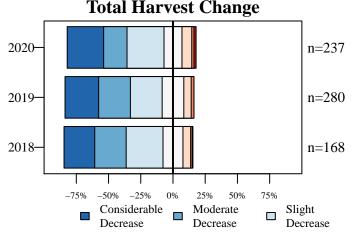
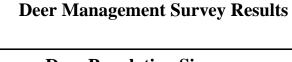


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



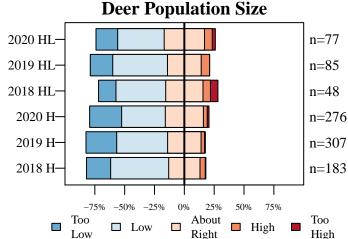
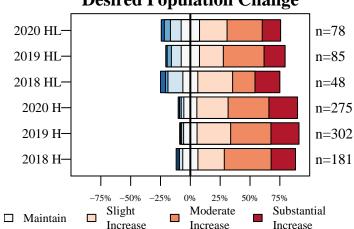


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

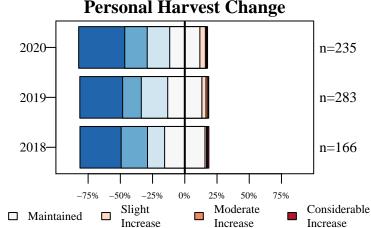


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

## **Jackson County**

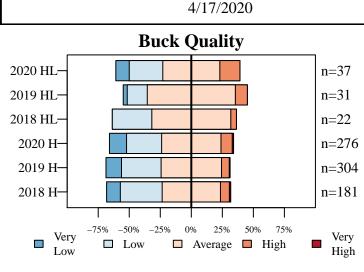


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

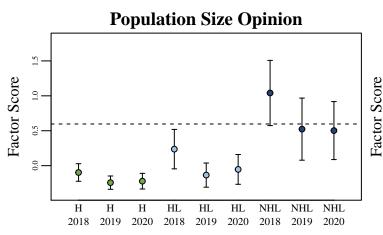


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

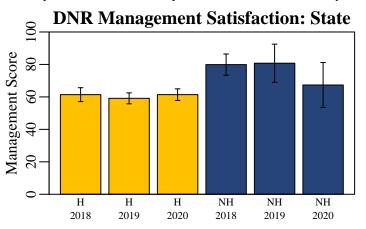


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

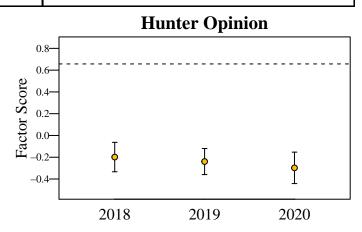


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



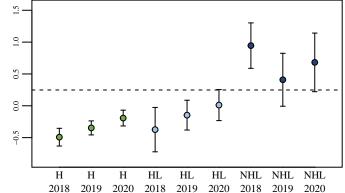


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

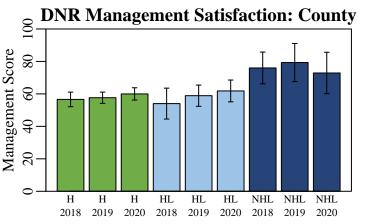


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 561 Square Miles of Deer Habitat: 68 Percent Deer Habitat: 12

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,415		758		9.24	657		8.01	46.43		398.00		3
2007	1,454		714		8.71	740		9.02	50.89		323.69		4
2008	1,606		790		9.63	816		9.95	50.81		395.95		4
2009	1,589		760		9.27	829		10.11	52.17		364.00		8
2010	$1,\!690$	1.62	845	3.09	10.30	845	1.09	10.30	50.00		290.20	-2.36	8
2011	$1,\!497$	-0.47	768	-0.11	9.37	729	-0.62	8.89	48.70		295.11	-1.26	8
2012	$1,\!623$	0.60	731	-0.93	8.91	892	1.87	10.88	54.96		280.03	-1.18	8
2013	$1,\!407$	-2.79	719	-1.40	8.77	688	-2.26	8.39	48.90		279.23	-0.89	8
2014	$1,\!358$	-1.83	715	-1.01	8.72	643	-1.81	7.84	47.35		266.56	-0.99	8
2015	1,311	-1.45	694	-1.14	8.46	617	-1.35	7.52	47.06		234.54	-4.31	8
2016	1,306	-1.08	695	-1.11	10.22	611	-0.95	8.99	46.78		239.37	-1.39	8
2017	$1,\!154$	-1.89	587	-7.73	8.63	567	-1.05	8.34	49.13	4	249.23	-0.49	4
2018	$1,\!141$	-1.75	599	-1.53	8.81	542	-1.87	7.97	47.50		267.27	0.72	3
2019	$1,\!298$	0.44	752	1.56	11.06	546	-1.23	8.03	42.06	4	296.12	2.96	2

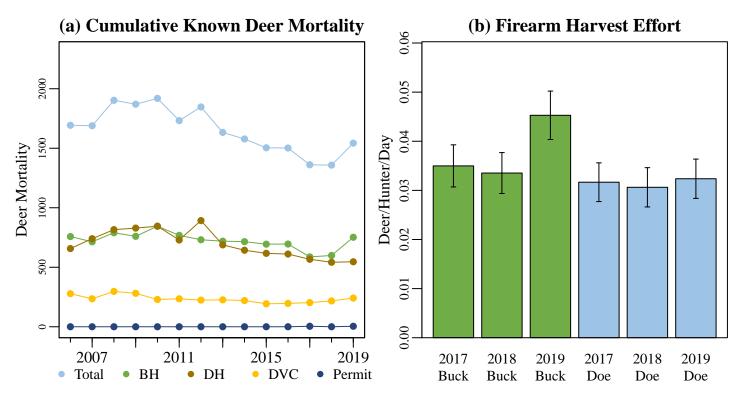


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 561 Square Miles of Deer Habitat: 68 Percent Deer Habitat: 12

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	976	447	528	1	0	401	433	106	21	8	6	1	0	0	0	0
2017	877	414	462	1	0	352	398	99	18	10	0	0	0	0	0	0
2018	893	388	505	0	0	384	399	95	13	2	0	0	0	0	0	0
2019	$1,\!009$	361	646	2	0	478	422	102	6	1	0	0	0	0	0	0

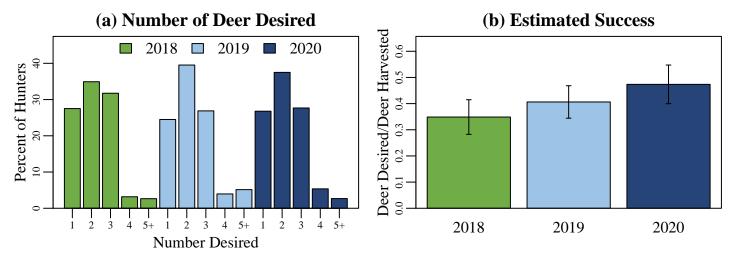


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Jasper County Map



(b) Deer Habitat in Jasper County

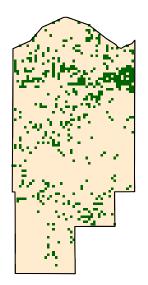


Figure 3. (a) Jasper county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Jasper county.

4/17/2020

#### **County Bonus Antlerless Quota**

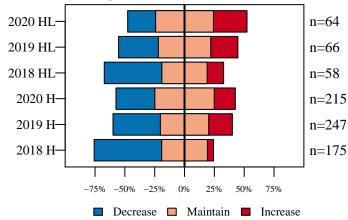


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

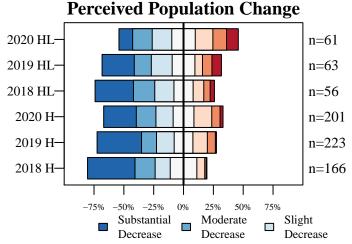


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

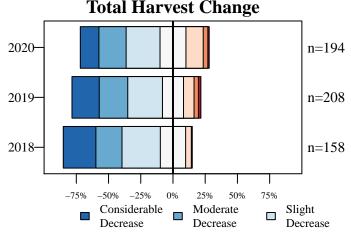
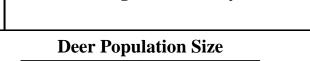


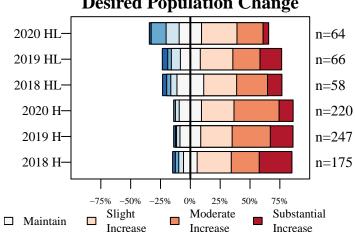
Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

#### 2020 HLn=64 2019 HLn=67 2018 HLn=59 2020 Hn=221 2019 Hn=249 2018 Hn=180 -75% -50% -25% 0% 25% 50% 75% Too About Too □ Low High Right High Low

Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

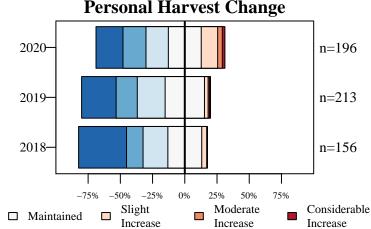


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

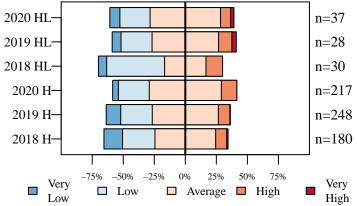
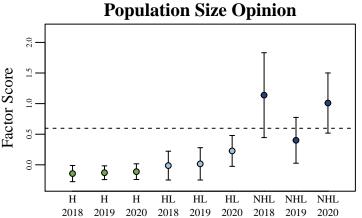
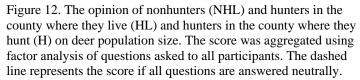


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





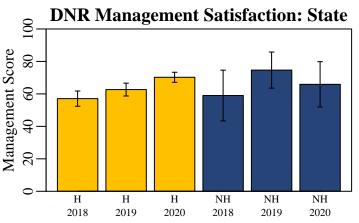
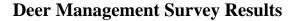


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).



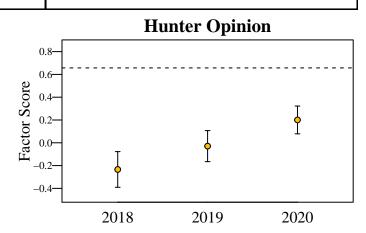


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

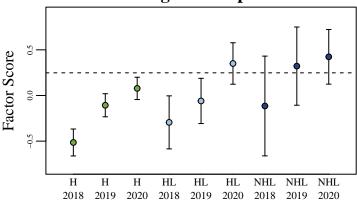


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

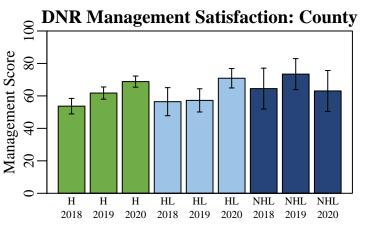


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 384 Square Miles of Deer Habitat: 47 Percent Deer Habitat: 12

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,006		471		9.81	535		11.15	53.18		427.11		2
2007	957		433		9.02	524		10.92	54.75		430.55		2
2008	892		407		8.48	485		10.10	54.37		435.75		2
2009	1,007		498		10.38	509		10.60	50.55		486.81		2
2010	1,039	0.84	513	1.30	10.69	526	0.06	10.96	50.63		393.99	-2.14	2
2011	920	-1.05	436	-0.64	9.08	484	-1.62	10.08	52.61		477.32	1.27	2
2012	916	-0.78	413	-0.97	8.60	503	-0.13	10.48	54.91		460.70	0.42	2
2013	891	-0.99	426	-0.56	8.88	465	-2.07	9.69	52.19		504.13	1.43	2
2014	942	-0.20	447	-0.23	9.31	495	-0.10	10.31	52.55		470.81	0.15	2
2015	984	0.74	511	1.64	10.65	473	-0.96	9.85	48.07		453.91	-0.18	2
2016	960	0.84	489	1.11	10.40	471	-0.84	10.02	49.06		565.18	4.73	2
2017	853	-2.35	434	-0.56	9.23	419	-3.76	8.91	49.12		501.76	0.24	1
2018	864	-1.16	462	0.02	9.83	402	-2.24	8.55	46.53		528.03	0.68	1
2019	1,030	1.86	537	2.18	11.43	493	1.04	10.49	47.86		426.25	-1.74	1

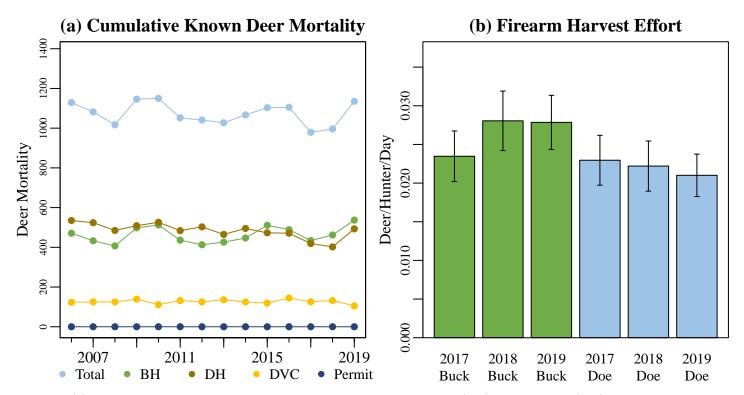


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4/17/2020

Total Square Miles: 384 Square Miles of Deer Habitat: 47 Percent Deer Habitat: 12

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	761	405	356	0	0	269	389	95	7	1	0	0	0	0	0	0
2017	702	370	330	1	1	246	401	48	7	0	0	0	0	0	0	0
2018	716	363	352	1	0	262	405	42	7	0	0	0	0	0	0	0
2019	826	383	443	0	0	310	448	65	3	0	0	0	0	0	0	0

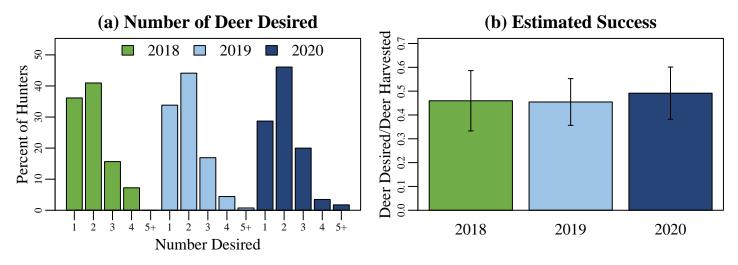


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Jay County Map



(b) Deer Habitat in Jay County

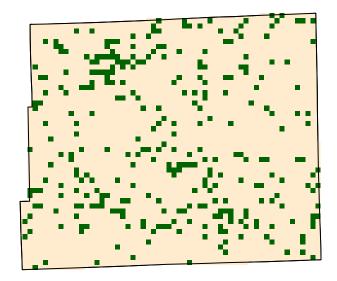


Figure 3. (a) Jay county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Jay county.

4/17/2020

#### **County Bonus Antlerless Quota**

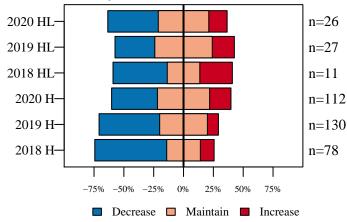


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

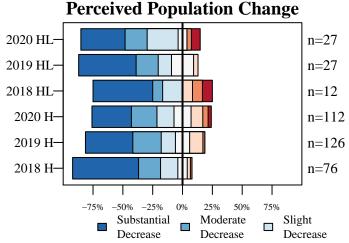


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

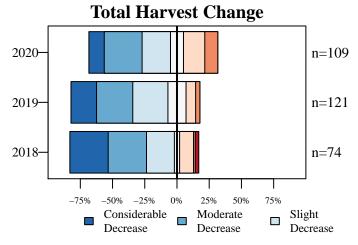


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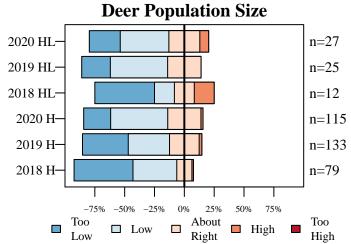
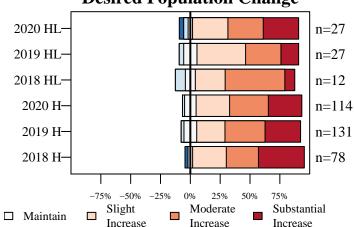


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#### **Desired Population Change**

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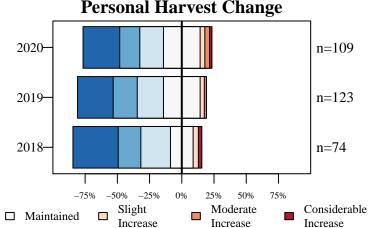


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020 **Buck Quality** 2020 HL n=13 2019 HLn=11 2018 HLn=72020 Hn=115 2019 Hn=133 2018 H· n=78 0% 25% 50% -50%-25%75% -75%Very Very Low High Average High Low

Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

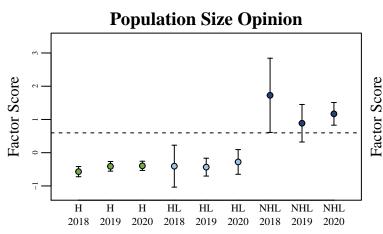


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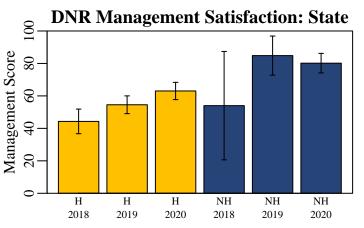


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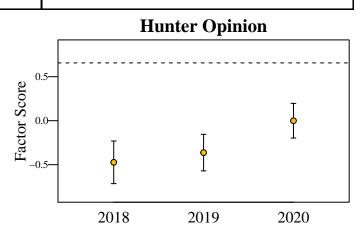


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**Management Opinion** 

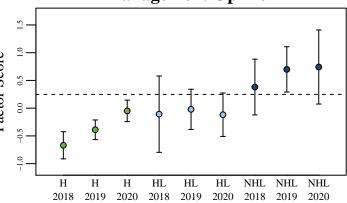


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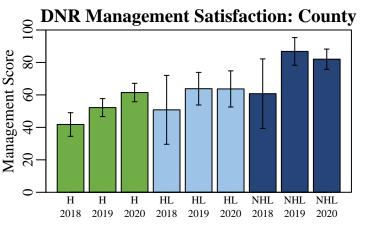


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4/17/2020

Total Square Miles: 363 Square Miles of Deer Habitat: 251 Percent Deer Habitat: 69

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	$2,\!153$		1,058		3.98	1,095		4.12	50.86		122.07		8
2007	$1,\!992$		962		3.62	1,030		3.87	51.71		159.10		8
2008	$2,\!173$		1,024		3.85	1,149		4.32	52.88		155.08		8
2009	2,129		1,087		4.09	1,042		3.92	48.94		175.81		8
2010	$2,\!185$	0.23	1,033	-0.33	3.88	1,152	0.79	4.33	52.72		172.26	1.06	8
2011	2,283	2.01	$1,\!125$	1.98	4.23	$1,\!158$	1.12	4.35	50.72		181.93	1.18	8
2012	2,319	1.57	$1,\!101$	0.88	4.14	1,218	1.74	4.58	52.52		192.20	2.06	8
2013	$2,\!448$	2.89	1,073	-0.02	4.03	1,375	3.64	5.17	56.17		261.00	6.26	8
2014	2,282	0.07	1,065	-0.55	4.00	1,217	0.23	4.58	53.33		227.36	0.84	8
2015	$2,\!378$	0.79	$1,\!183$	2.95	4.45	$1,\!195$	-0.32	4.49	50.25		237.89	0.84	8
2016	$2,\!189$	-2.16	$1,\!184$	1.57	4.72	1,005	-2.73	4.00	45.91	62	196.48	-0.72	8
2017	2,031	-2.99	1,007	-1.95	4.01	1,024	-1.35	4.08	50.42	37	294.45	2.47	8
2018	1,884	-2.33	965	-1.75	3.84	919	-1.60	3.66	48.78	38	274.00	0.83	4
2019	$1,\!696$	-2.31	920	-1.60	3.67	776	-2.30	3.09	45.75	29	211.31	-0.90	2

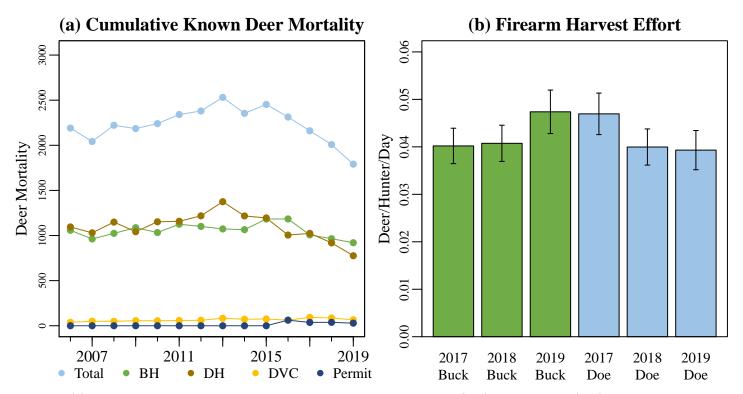


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4/17/2020

Total Square Miles: 363 Square Miles of Deer Habitat: 251 Percent Deer Habitat: 69

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,599	639	956	4	0	713	660	157	39	20	7	2	1	0	0	0
2017	$1,\!453$	644	801	8	0	588	631	166	42	14	6	4	1	1	0	0
2018	$1,\!407$	641	757	9	0	562	633	168	37	6	1	0	0	0	0	0
2019	$1,\!308$	552	752	4	0	565	566	163	12	2	0	0	0	0	0	0

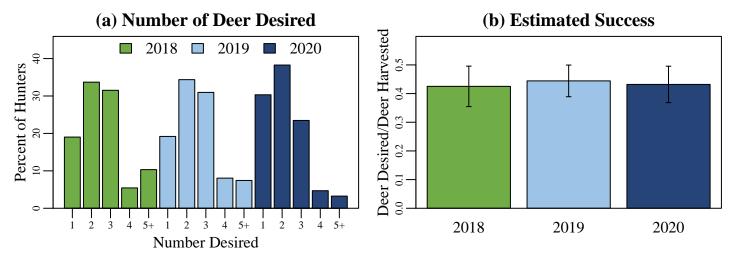


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).





(b) Deer Habitat in Jefferson County

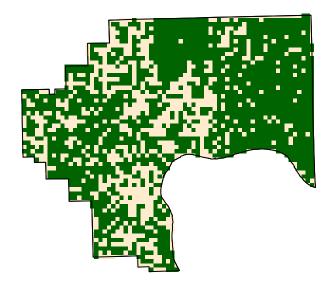


Figure 3. (a) Jefferson county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Jefferson county.

4/17/2020

#### **County Bonus Antlerless Quota**

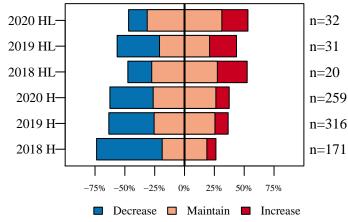


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

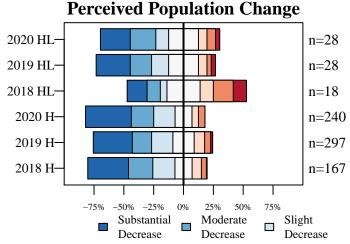


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

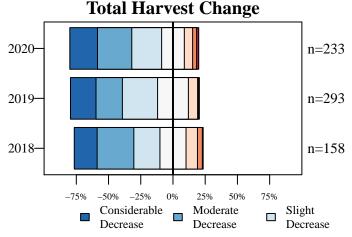
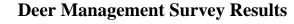


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



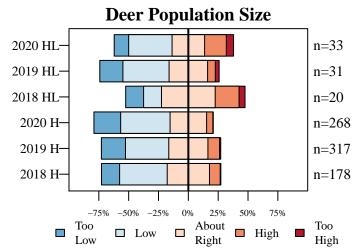


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

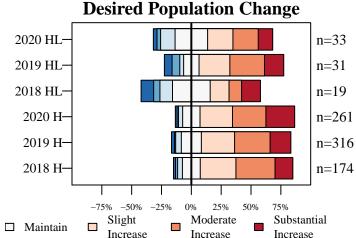


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

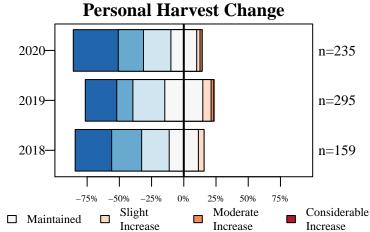


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

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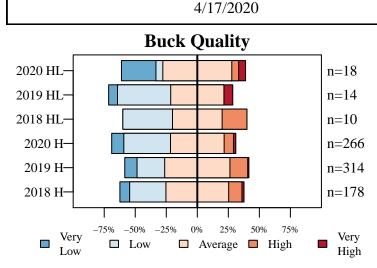
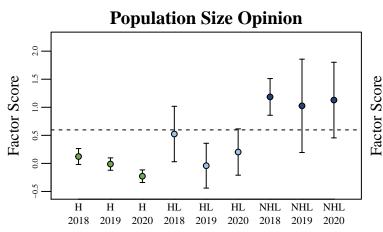


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



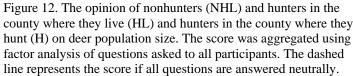




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

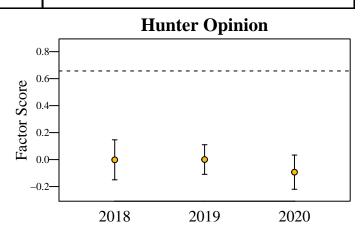


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



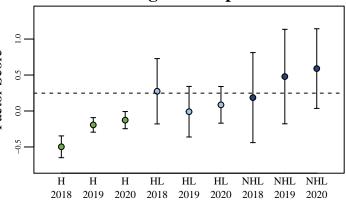


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

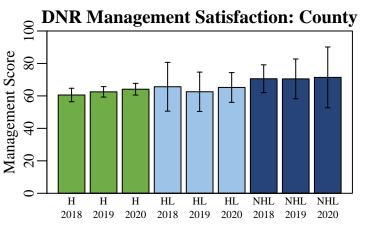


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 378 Square Miles of Deer Habitat: 214 Percent Deer Habitat: 57

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,640		822		3.84	818		3.82	49.88		244.09		3
2007	1,126		598		2.79	528		2.47	46.89		199.93		3
2008	1,845		967		4.52	878		4.10	47.59		221.16		4
2009	1,753		874		4.08	879		4.11	50.14		210.81		4
2010	$1,\!890$	1.11	951	1.01	4.44	939	1.17	4.39	49.68		227.80	-0.29	4
2011	1,962	1.01	972	0.87	4.54	990	1.12	4.63	50.46		224.25	0.21	8
2012	2,267	1.63	1,012	0.88	4.73	1,255	2.26	5.86	55.36		128.49	-7.77	8
2013	$2,\!179$	1.20	1,069	2.25	5.00	$1,\!110$	0.78	5.19	50.94		169.83	-0.78	8
2014	2,090	0.38	1,038	0.86	4.85	1,052	0.12	4.92	50.33		173.14	-0.45	8
2015	2,208	0.85	$1,\!104$	2.00	5.16	$1,\!104$	0.28	5.16	50.00		208.46	0.57	8
2016	1,988	-1.29	1,037	-0.04	4.85	951	-1.54	4.44	47.84	24	410.12	6.15	8
2017	1,939	-1.90	958	-2.66	4.48	981	-1.03	4.58	50.59	41	312.32	0.85	8
2018	1,789	-2.50	936	-1.95	4.37	853	-2.60	3.99	47.68	16	322.65	0.65	4
2019	1,717	-1.81	883	-1.94	4.13	834	-1.60	3.90	48.57	26	162.62	-1.29	2

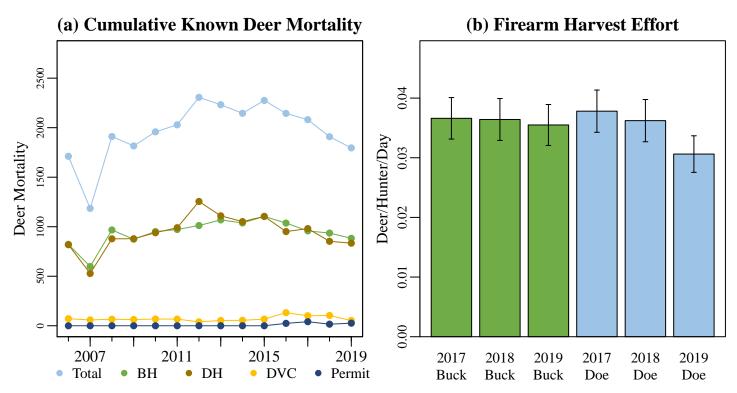


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 378 Square Miles of Deer Habitat: 214 Percent Deer Habitat: 57

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,462	671	789	2	0	579	646	190	31	10	1	4	1	0	0	0
2017	$1,\!388$	682	696	10	0	518	639	158	41	21	7	3	0	1	0	0
2018	$1,\!305$	614	685	6	0	491	600	159	47	7	1	0	0	0	0	0
2019	$1,\!309$	612	693	3	1	499	632	155	19	4	0	0	0	0	0	0

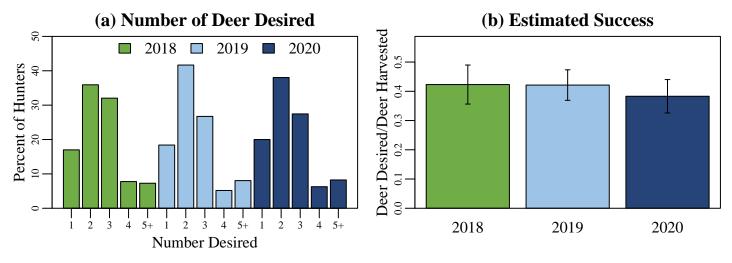


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Jennings County Map



(b) Deer Habitat in Jennings County

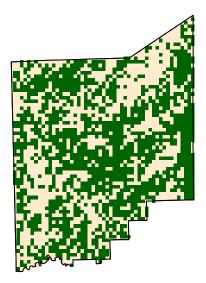


Figure 3. (a) Jennings county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Jennings county.

4/17/2020

#### **County Bonus Antlerless Quota**

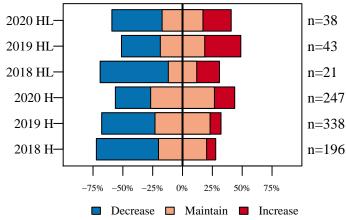


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

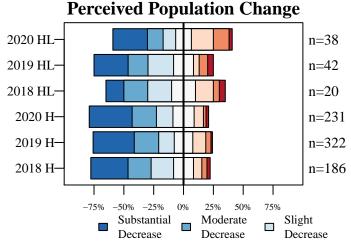


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

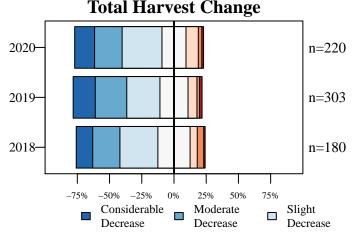
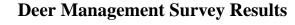


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



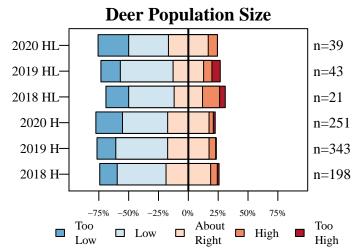
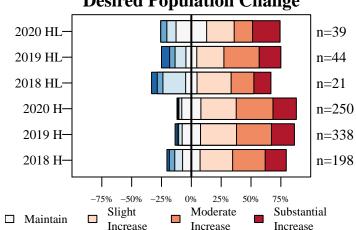


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

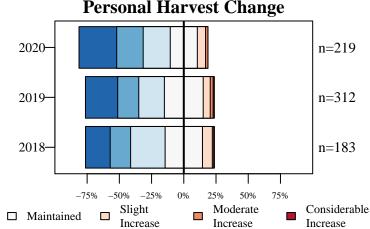


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

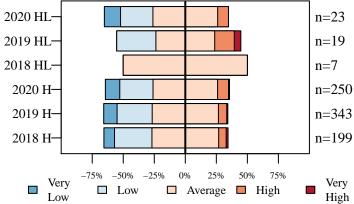


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

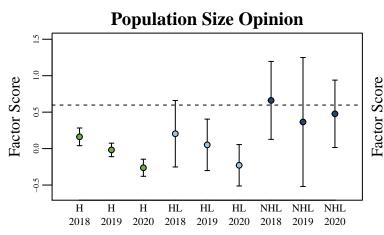


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

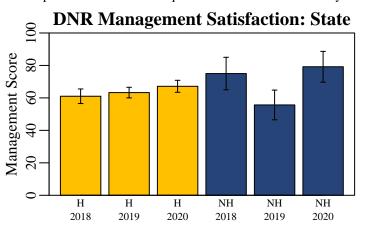


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

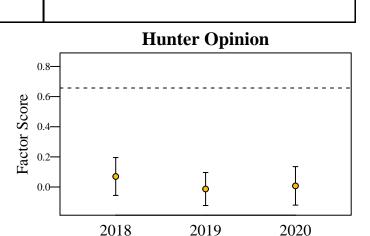


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

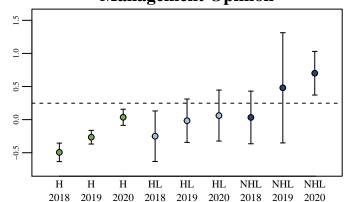


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

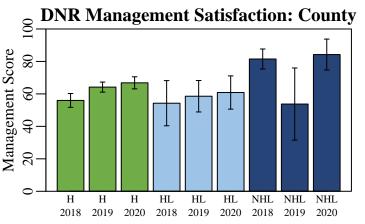


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

#### **Deer Management Survey Results**

4/17/2020

Total Square Miles: 322 Square Miles of Deer Habitat: 94 Percent Deer Habitat: 29

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
		III OD		III OD	MI		III OD	MI	1101 (050	Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	644		320		4.00	324		4.05	50.31		127.13		8
2007	602		306		3.83	296		3.70	49.17		125.43		8
2008	618		316		3.95	302		3.77	48.87		123.09		8
2009	694		335		4.19	359		4.49	51.73		118.21		8
2010	627	-0.39	306	-1.11	3.83	321	0.21	4.01	51.20		87.58	-10.42	8
2011	685	1.36	344	2.28	4.30	341	0.83	4.26	49.78		106.83	-0.58	8
2012	664	0.45	328	0.38	4.10	336	0.46	4.20	50.60		101.19	-0.71	8
2013	623	-1.02	309	-1.11	3.86	314	-0.83	3.92	50.40		108.72	0.09	8
2014	592	-2.04	296	-1.72	3.70	296	-2.16	3.70	50.00		97.14	-0.65	8
2015	684	1.25	364	2.47	4.55	320	-0.09	4.00	46.78		85.06	-1.80	8
2016	542	-2.64	299	-1.08	3.18	243	-4.35	2.59	44.83	13	71.13	-3.04	8
2017	619	-0.04	316	-0.11	3.36	303	0.03	3.22	48.95	8	89.07	-0.24	8
2018	570	-0.81	309	-0.28	3.29	261	-1.12	2.78	45.79	7	80.30	-0.71	3
2019	523	-1.45	286	-1.12	3.04	237	-1.50	2.52	45.32	7	89.05	0.46	2

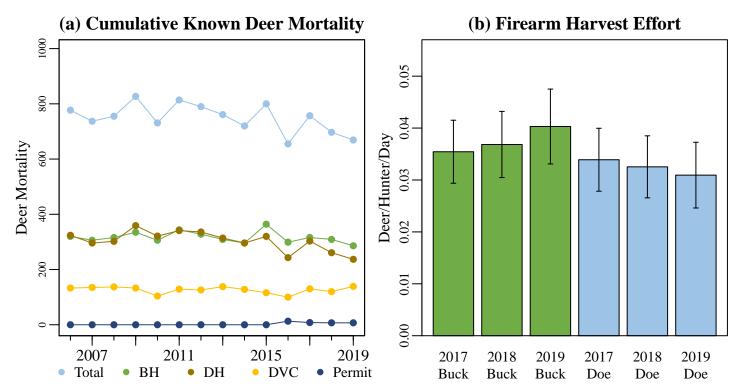


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 322 Square Miles of Deer Habitat: 94 Percent Deer Habitat: 29

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	452	217	235	0	0	202	208	32	8	1	0	0	1	0	0	0
2017	483	256	225	2	0	183	236	44	16	2	2	0	0	0	0	0
2018	467	238	227	2	0	188	225	50	2	2	0	0	0	0	0	0
2019	436	210	225	1	0	183	215	33	5	0	0	0	0	0	0	0

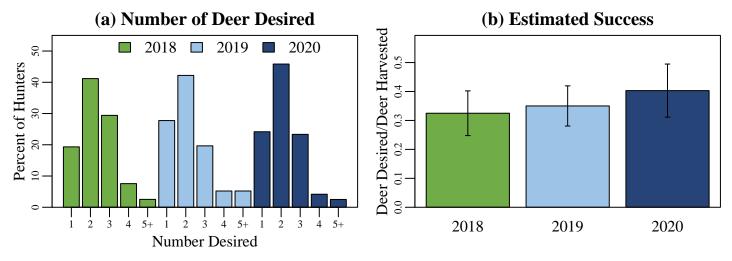


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Johnson County Map



(b) Deer Habitat in Johnson County

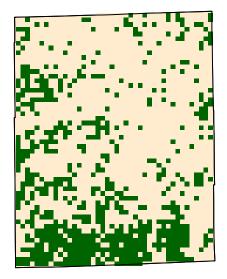


Figure 3. (a) Johnson county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Johnson county.

4/17/2020

#### **County Bonus Antlerless Quota**

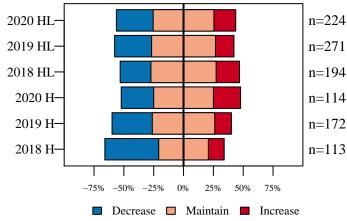


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

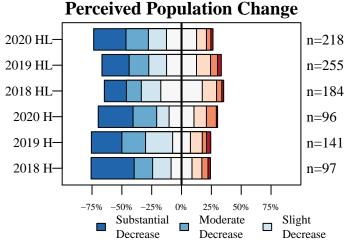


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

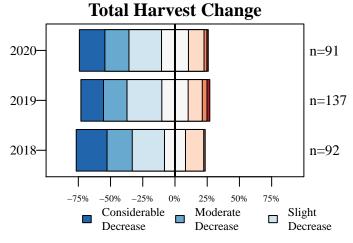
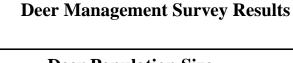


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



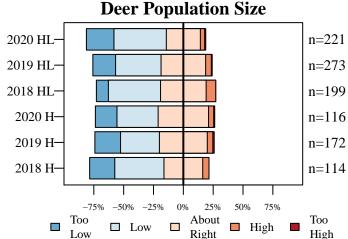
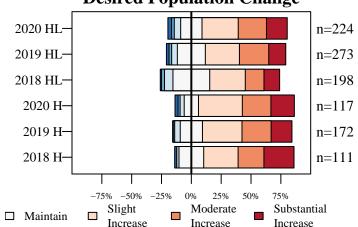


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

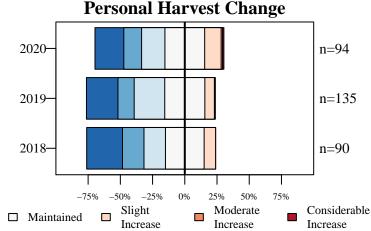


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

# Buck Quality 2020 HL– n=77 2019 HL– n=64 2018 HL– n=56 2020 H– n=115 2019 H– n=171 2018 H– n=113

Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

0%

-50%

Low

-75%

Very

Low

-25%

25%

Average

50%

High

75%

Very

High

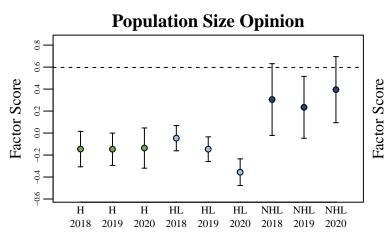


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

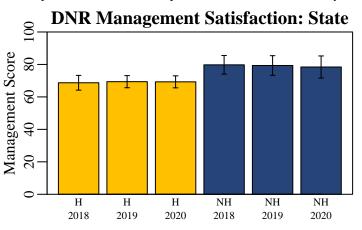


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).



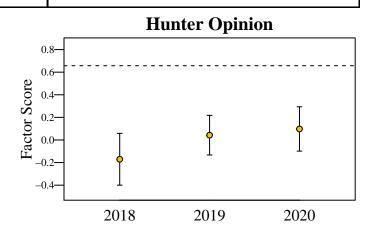


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

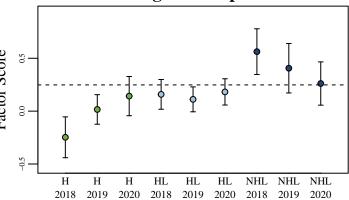


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

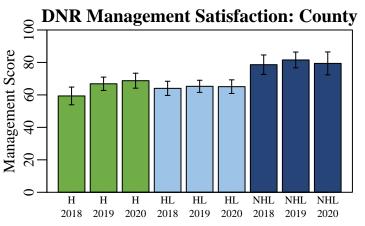


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 524 Square Miles of Deer Habitat: 85 Percent Deer Habitat: 16

Year	Total	Total Trend	Buck Harvest	Buck Trend	Buck Harvest	Doe Harvest	Doe Trend	Doe Harvest	% Doe in	Damage Permit	DVC per	Total Trend	CBAQ
		in $SD$		in $SD$	per SQ		in $SD$	per SQ	Harvest	Deer	Billion	in	
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	994		560		7.18	434		5.56	43.66		199.57		3
2007	804		468		6.00	336		4.31	41.79		246.43		3
2008	922		521		6.68	401		5.14	43.49		215.79		3
2009	781		465		5.96	316		4.05	40.46		250.20		4
2010	840	-0.56	489	-0.57	6.27	351	-0.50	4.50	41.79		257.07	1.29	4
2011	746	-1.38	438	-1.56	5.62	308	-1.23	3.95	41.29		213.91	-0.80	4
2012	836	0.26	463	-0.43	5.94	373	0.83	4.78	44.62		226.00	-0.53	4
2013	878	0.79	458	-0.55	5.87	420	1.80	5.38	47.84		212.92	-0.99	4
2014	781	-0.67	420	-2.34	5.38	361	0.16	4.63	46.22		211.45	-1.00	4
2015	875	1.12	471	0.67	6.04	404	1.03	5.18	46.17		267.96	2.27	4
2016	868	0.77	502	2.51	5.91	366	-0.17	4.31	42.17		203.54	-0.96	4
2017	907	1.46	483	0.69	5.68	424	1.52	4.99	46.75		254.16	1.16	4
2018	869	0.15	516	1.60	6.07	353	-1.41	4.15	40.62		263.32	1.15	2
2019	861	0.02	518	1.07	6.09	343	-1.25	4.04	39.84		282.10	1.39	2

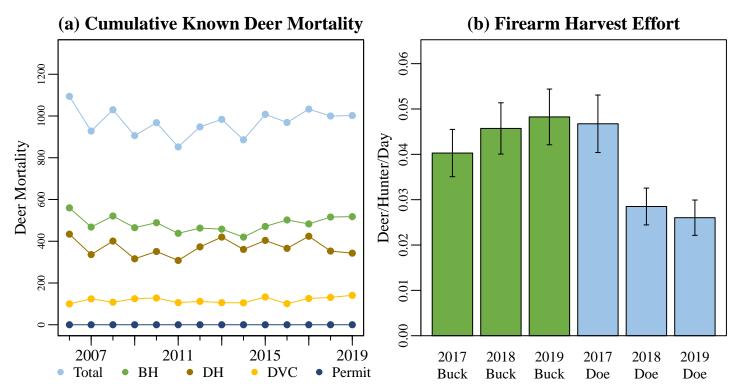


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 524 Square Miles of Deer Habitat: 85 Percent Deer Habitat: 16

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	685	254	430	1	0	337	275	59	13	1	0	0	0	0	0	0
2017	688	298	389	1	0	286	305	80	17	0	0	0	0	0	0	0
2018	701	276	424	1	0	326	310	63	1	1	0	0	0	0	0	0
2019	672	225	447	0	0	334	265	70	3	0	0	0	0	0	0	0

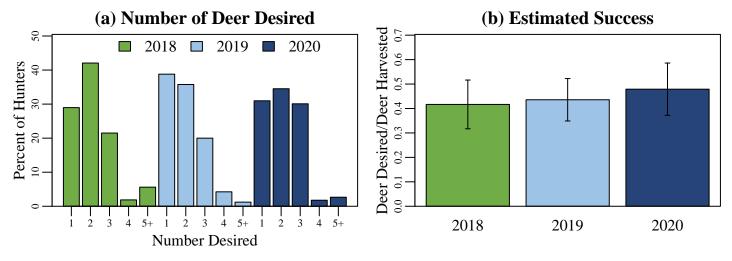


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Knox County Map



(b) Deer Habitat in Knox County

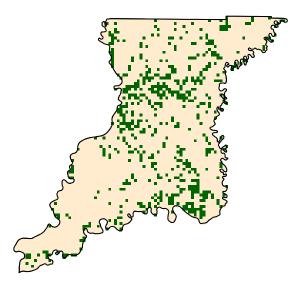


Figure 3. (a) Knox county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Knox county.

4/17/2020

#### **County Bonus Antlerless Quota**

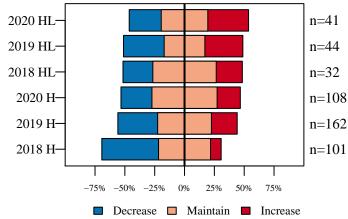


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

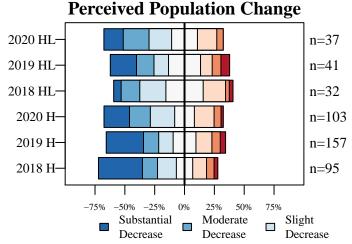


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

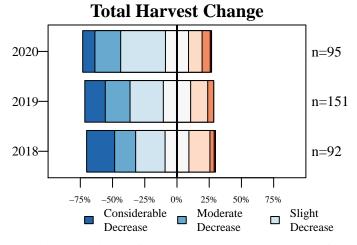
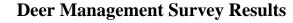


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



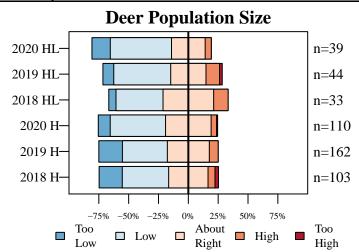
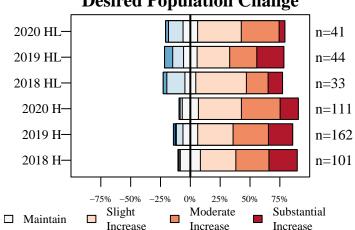


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

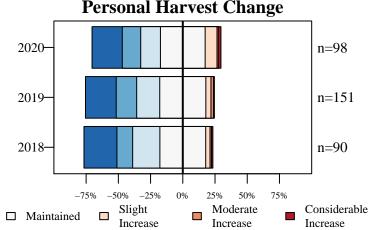


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

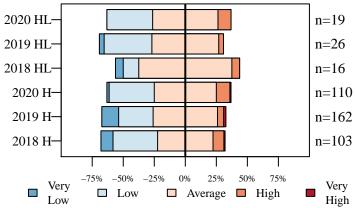


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

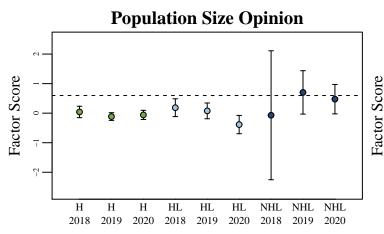


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

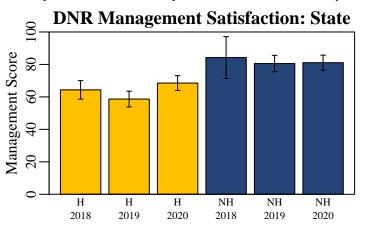


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

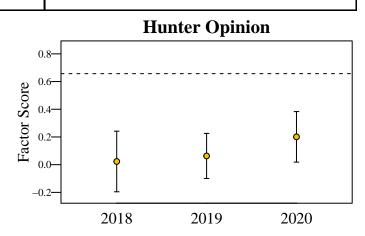


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

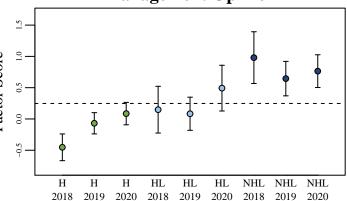


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

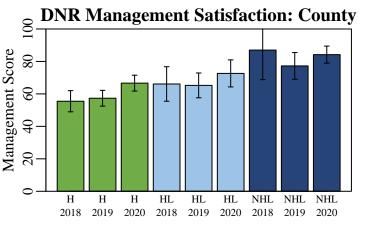


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 554 Square Miles of Deer Habitat: 110 Percent Deer Habitat: 20

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	3.031		1,414		15.89	1,617		18.17	53.35		776.67		2
2007	2,953		1,398		15.00 15.71	1,555		17.47	52.66		785.33		3
2008	3,310		1,496		16.81	1,814		20.38	54.80		745.40		3
2009	3,625		1,624		18.25	2,001		22.48	55.20		724.54		8
2010	$3,\!538$	1.13	1,570	1.06	17.64	1,968	1.15	22.11	55.62		645.11	-2.34	8
2011	$3,\!123$	-0.57	1,423	-0.79	15.99	1,700	-0.45	19.10	54.43		613.07	-2.18	8
2012	2,862	-1.60	1,235	-2.79	13.88	1,627	-0.97	18.28	56.85		544.98	-2.20	8
2013	$2,\!278$	-3.27	1,070	-2.64	12.02	1,208	-3.77	13.57	53.03		597.41	-0.70	4
2014	2,333	-1.37	$1,\!149$	-1.02	12.91	$1,\!184$	-1.61	13.30	50.75		553.83	-1.07	4
2015	2,224	-1.13	1,087	-0.99	12.21	1,137	-1.19	12.78	51.12		571.24	-0.47	4
2016	2,191	-0.92	1,164	-0.20	10.58	1,027	-1.28	9.34	46.87		545.78	-1.05	4
2017	1,969	-1.48	949	-2.91	8.63	1,020	-0.95	9.27	51.80		557.88	-0.22	4
2018	2,039	-1.15	1,021	-0.74	9.28	1,018	-1.11	9.25	49.93		589.48	1.20	3
2019	2,292	0.96	1,232	1.76	11.20	1,060	-0.22	9.64	46.25	3	678.52	6.71	2

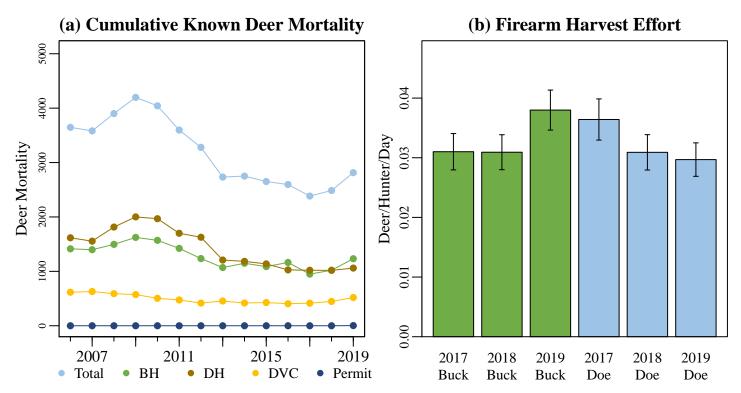


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 554 Square Miles of Deer Habitat: 110 Percent Deer Habitat: 20

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	$1,\!656$	729	926	1	0	686	742	178	41	6	0	3	0	0	0	0
2017	$1,\!472$	722	749	1	0	550	703	165	41	9	1	1	1	1	0	0
2018	$1,\!540$	701	835	4	0	618	703	173	40	4	1	1	0	0	0	0
2019	1,707	691	1,011	5	0	721	761	189	22	7	4	3	0	0	0	0

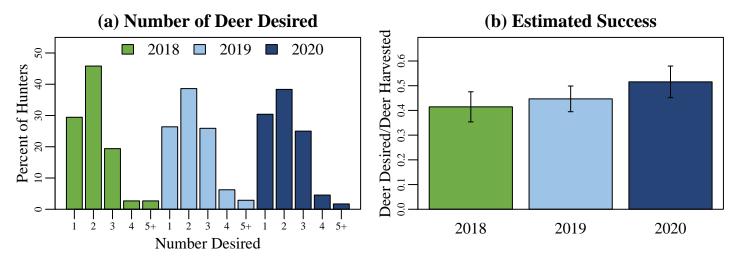


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Kosciusko County Map



(b) Deer Habitat in Kosciusko County

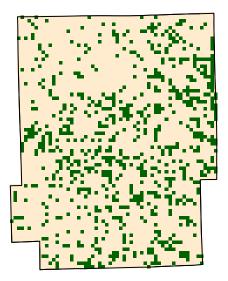


Figure 3. (a) Kosciusko county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Kosciusko county.

4/17/2020

#### **County Bonus Antlerless Quota**

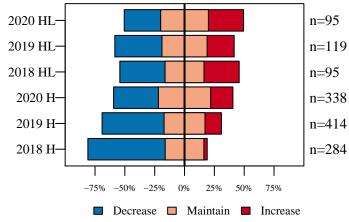


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

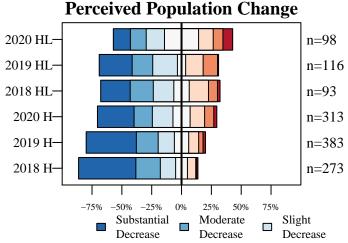


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

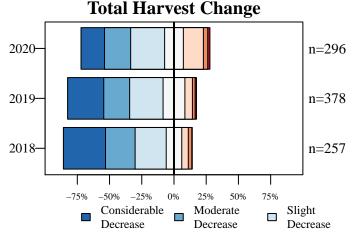
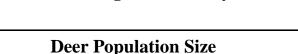


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

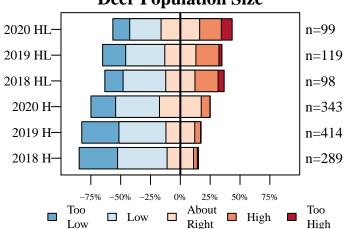
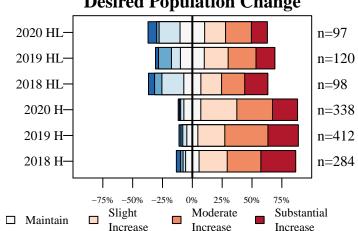


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

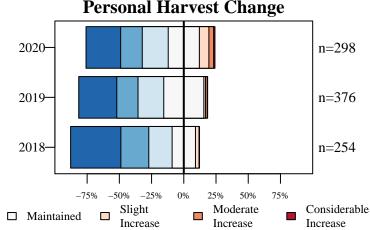


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

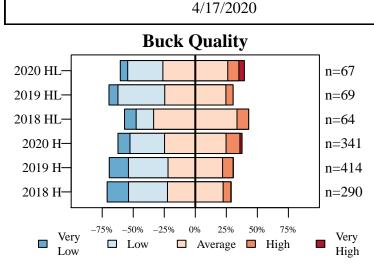


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

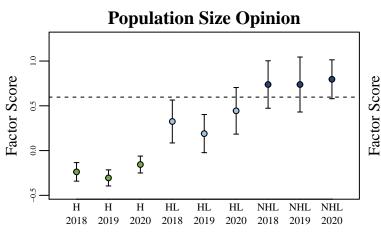


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

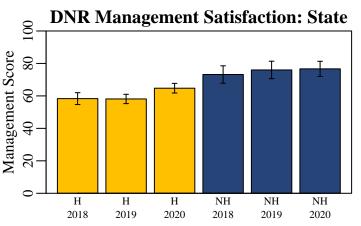


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

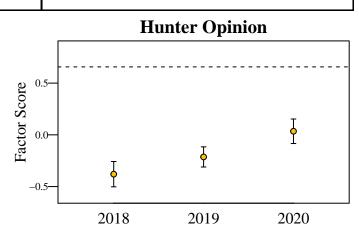


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### Management Opinion

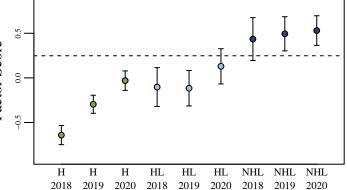


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

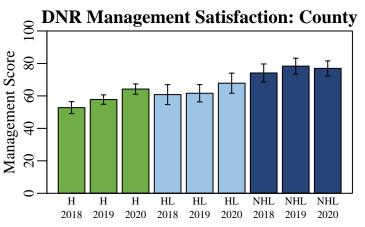


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 387 Square Miles of Deer Habitat: 147 Percent Deer Habitat: 38

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	2,520		1,060		6.13	1,460		8.44	57.94		387.14		3
2007	$2,\!581$		$1,\!139$		6.58	1,442		8.34	55.87		360.64		3
2008	$2,\!691$		$1,\!109$		6.41	1,582		9.14	58.79		387.16		4
2009	2,563		1,046		6.05	1,517		8.77	59.19		422.58		8
2010	$2,\!804$	3.44	$1,\!241$	2.22	7.17	1,563	1.12	9.03	55.74		437.20	2.18	8
2011	2,523	-0.95	1,096	-0.30	6.34	1,427	-1.40	8.25	56.56		378.49	-0.67	8
2012	2,009	-5.45	856	-3.73	4.95	$1,\!153$	-5.06	6.66	57.39		357.29	-1.26	8
2013	2,013	-1.65	931	-0.99	5.38	1,082	-2.09	6.25	53.75		382.84	-0.42	4
2014	1,797	-1.65	852	-1.22	4.92	945	-1.85	5.46	52.59		375.17	-0.62	4
2015	1,963	-0.64	976	-0.11	5.64	987	-0.97	5.71	50.28		379.64	-0.22	3
2016	1,970	-0.33	941	-0.01	6.40	1,029	-0.47	7.00	52.23	6	413.68	3.86	3
2017	1,780	-1.92	849	-1.13	5.78	931	-1.33	6.33	52.30	7	434.34	2.58	2
2018	2,084	1.66	1,022	1.98	6.95	1,062	1.08	7.22	50.96	11	440.80	1.70	1
2019	$2,\!283$	2.84	1,169	3.16	7.95	$1,\!114$	2.23	7.58	48.80	9	494.99	2.84	1

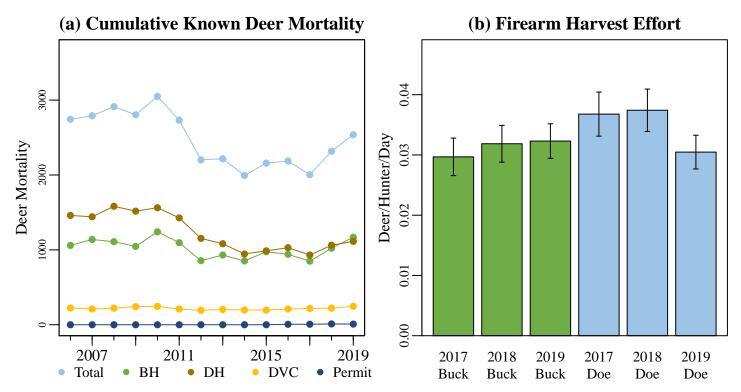


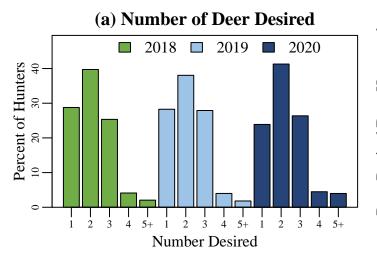
Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 387 Square Miles of Deer Habitat: 147 Percent Deer Habitat: 38

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,556	798	755	2	1	568	793	175	16	3	1	0	0	0	0	0
2017	$1,\!396$	749	644	3	0	469	749	158	16	3	1	0	0	0	0	0
2018	$1,\!632$	817	806	9	0	560	907	145	18	1	1	0	0	0	0	0
2019	1,786	839	938	9	0	663	957	136	25	4	0	0	1	0	0	0





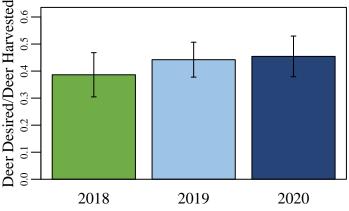


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Lagrange County Map



#### (b) Deer Habitat in Lagrange County

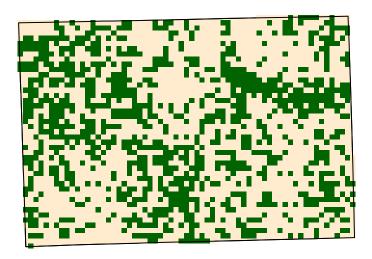


Figure 3. (a) Lagrange county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Lagrange county.

4/17/2020

#### **County Bonus Antlerless Quota**

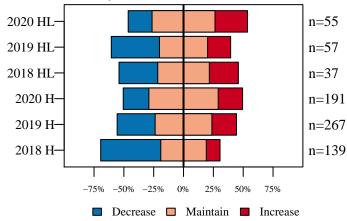


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

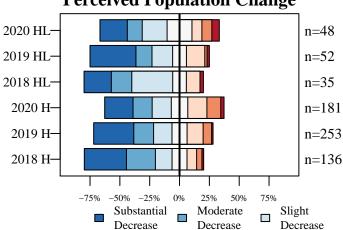


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

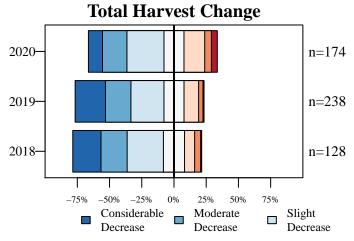


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



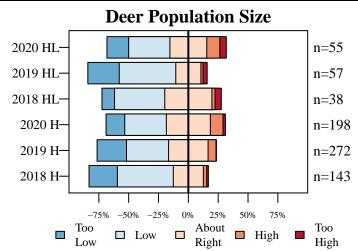


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

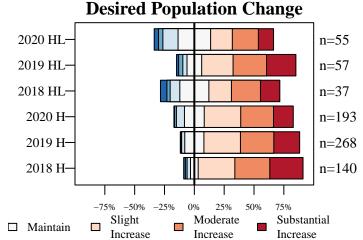


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

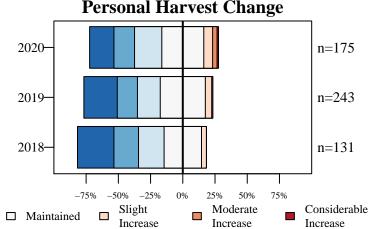


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

#### Perceived Population Change

4/17/2020

#### **Buck Quality**

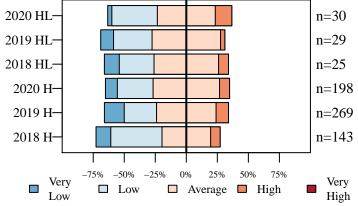
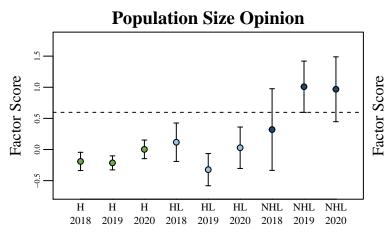
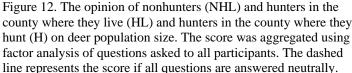
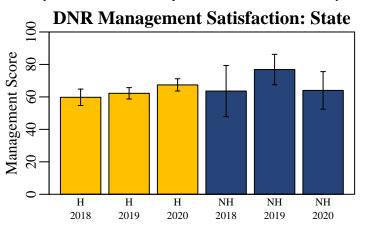


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).







# Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

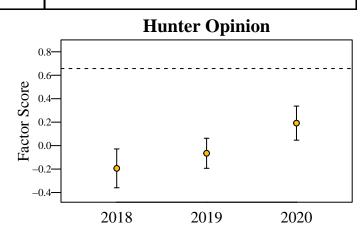


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

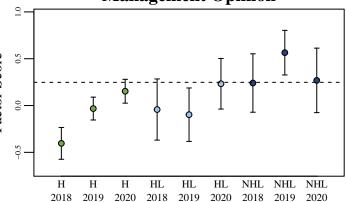


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

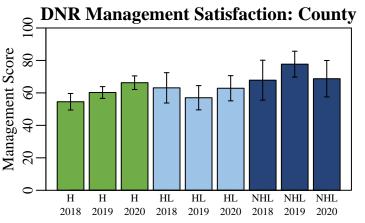


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

## Lake County

4/17/2020

Total Square Miles: 626 Square Miles of Deer Habitat: 83 Percent Deer Habitat: 13

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,131		664		5.93	467		4.17	41.29		64.64		3
2007	1,276		724		6.46	552		4.93	43.26		62.95		4
2008	$1,\!170$		651		5.81	519		4.63	44.36		63.57		4
2009	$1,\!249$		713		6.37	536		4.79	42.91		60.86		8
2010	1,231	0.61	683	-0.04	6.10	548	0.88	4.89	44.52		51.36	-3.72	8
2011	1,057	-2.60	570	-3.75	5.09	487	-1.08	4.35	46.07		54.53	-1.14	8
2012	1,273	0.88	570	-1.59	5.09	703	6.60	6.28	55.22		45.57	-2.41	8
2013	$1,\!291$	1.10	565	-1.11	5.04	726	1.99	6.48	56.24		45.66	-1.31	4
2014	$1,\!197$	-0.25	487	-1.85	4.35	710	1.03	6.34	59.31		43.52	-1.25	4
2015	1,303	1.00	612	0.53	5.46	691	0.51	6.17	53.03		43.44	-1.01	4
2016	$1,\!199$	-0.25	535	-0.57	6.45	664	0.01	8.00	55.38	12	37.62	-1.94	4
2017	$1,\!189$	-1.25	522	-0.69	6.29	667	-1.37	8.04	56.10	52	40.17	-0.91	4
2018	1,313	1.37	605	1.29	7.29	708	0.61	8.53	53.92	9	40.97	-0.35	3
2019	$1,\!281$	0.66	625	1.34	7.53	656	-1.46	7.90	51.21	9	44.55	1.38	2

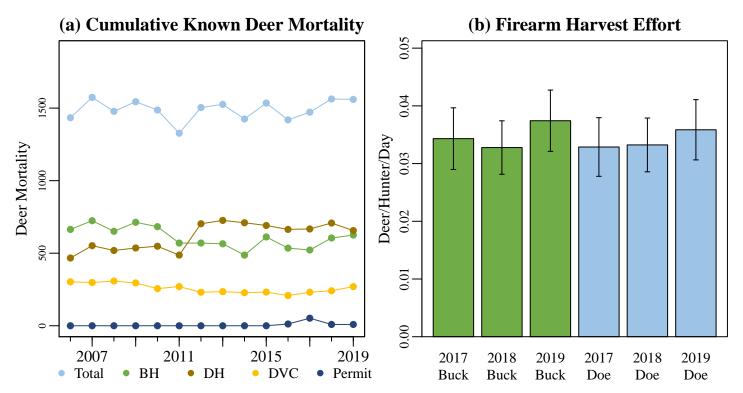


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

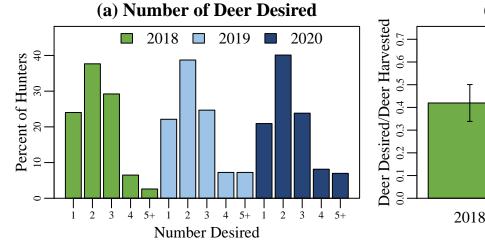
## Lake County

4/17/2020

Total Square Miles: 626 Square Miles of Deer Habitat: 83 Percent Deer Habitat: 13

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	838	440	370	28	0	222	499	88	20	7	2	0	0	0	0	0
2017	822	436	365	21	0	215	484	83	30	8	2	0	0	0	0	0
2018	900	461	418	20	1	255	498	105	28	11	2	1	0	0	0	0
2019	901	401	470	30	0	292	493	93	21	1	1	0	0	0	0	0





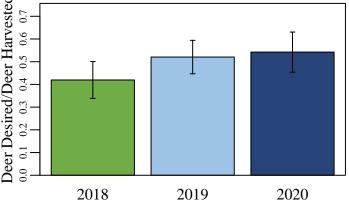


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Lake County Map



(b) Deer Habitat in Lake County

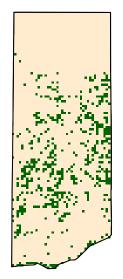


Figure 3. (a) Lake county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Lake county.

## Lake County

4/17/2020

#### **County Bonus Antlerless Quota**

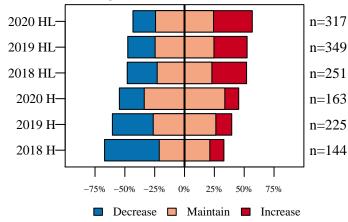


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

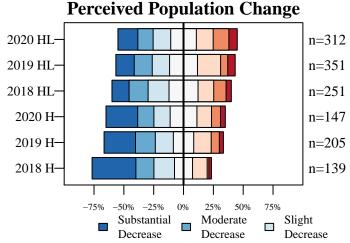


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

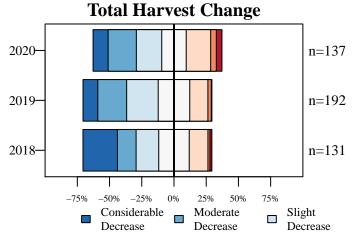
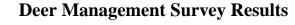


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



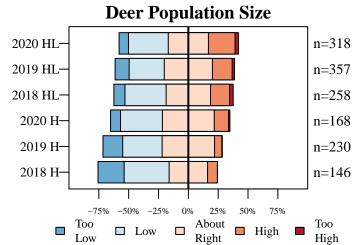
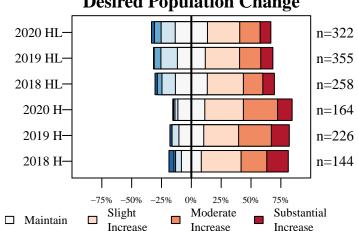


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

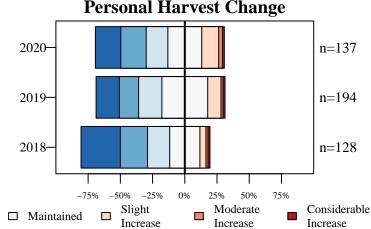


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

### Lake County

4/17/2020

#### **Buck Quality**

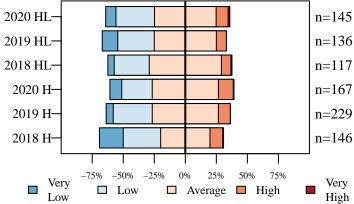


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

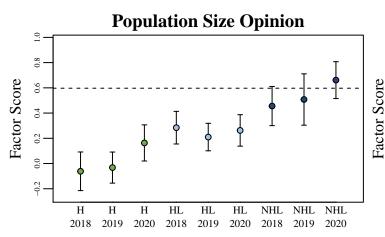


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

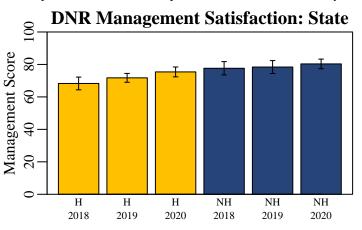


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

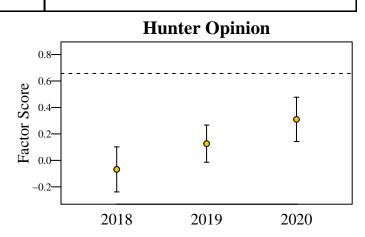


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

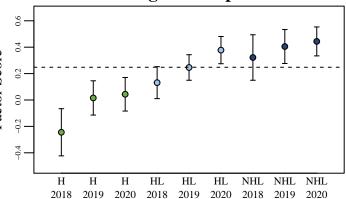


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

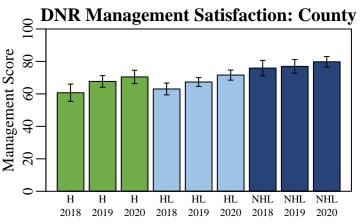


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 613 Square Miles of Deer Habitat: 150 Percent Deer Habitat: 25

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	2,372		1,068		5.71	1,304		6.97	54.97		88.30		8
2007	2,247		1,091		5.83	1,156		6.18	51.45		121.47		8
2008	$2,\!488$		$1,\!197$		6.40	1,291		6.90	51.89		97.02		8
2009	2,250		1,081		5.78	1,169		6.25	51.96		141.62		8
2010	2,209	-0.97	1,096	-0.40	5.86	1,113	-0.89	5.95	50.38		141.70	1.33	8
2011	1,829	-4.20	958	-2.88	5.12	871	-3.92	4.66	47.62		126.12	0.33	8
2012	1,846	-1.51	860	-2.64	4.60	986	-0.87	5.27	53.41		131.16	0.30	4
2013	1,666	-1.62	834	-1.56	4.46	832	-1.56	4.45	49.94		126.15	-0.08	4
2014	1,666	-1.15	844	-1.00	4.51	822	-1.17	4.40	49.34		162.50	3.71	4
2015	1,716	-0.57	920	0.01	4.92	796	-1.04	4.26	46.39		197.30	3.90	4
2016	1,711	-0.38	855	-0.53	5.70	856	-0.07	5.71	50.03	10	198.35	1.60	4
2017	1,597	-1.68	761	-3.02	5.07	836	-0.30	5.57	52.35	47	198.93	1.03	4
2018	1,733	1.29	901	1.03	6.01	832	0.16	5.55	48.01	14	212.34	1.11	3
2019	$1,\!821$	2.49	973	1.89	6.49	848	0.89	5.65	46.57	14	205.48	0.62	2

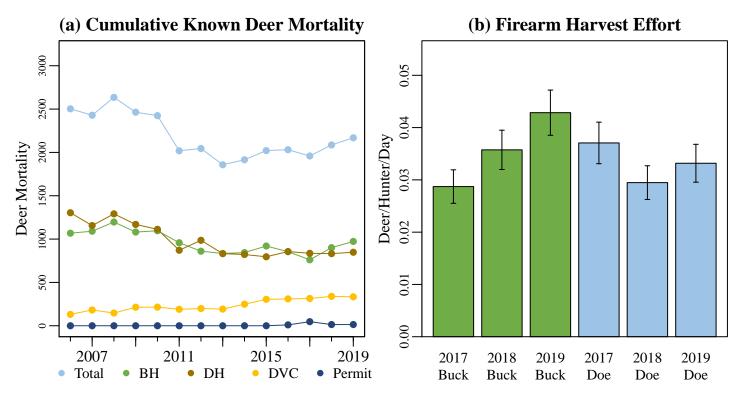


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 613 Square Miles of Deer Habitat: 150 Percent Deer Habitat: 25

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,288	607	681	0	0	493	607	155	24	5	3	1	0	0	0	0
2017	$1,\!172$	586	582	4	0	407	586	137	27	10	4	1	0	0	0	0
2018	$1,\!271$	552	709	10	0	526	558	139	37	4	3	2	2	0	0	0
2019	$1,\!310$	514	774	22	0	544	581	151	27	2	2	1	1	1	0	0

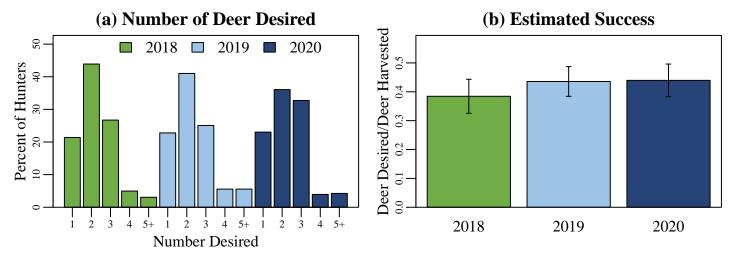


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) LaPorte County Map



(b) Deer Habitat in LaPorte County

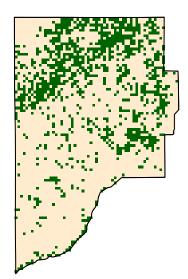


Figure 3. (a) LaPorte county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in LaPorte county.

4/17/2020

#### **County Bonus Antlerless Quota**

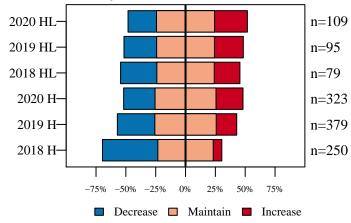


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

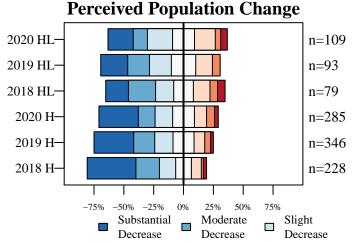


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

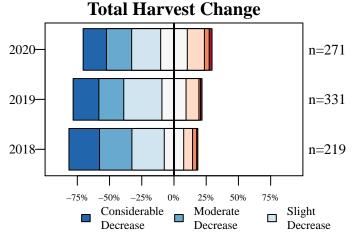
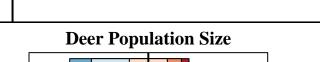
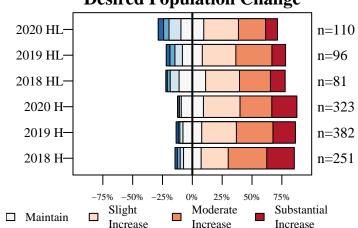


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



#### 2020 HLn=110 2019 HLn=96 2018 HLn=81 2020 Hn=325 2019 Hn=384 2018 Hn=253 -75% -50% -25% 0% 25% 50% 75% Too About Too Low High Right High Low

Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

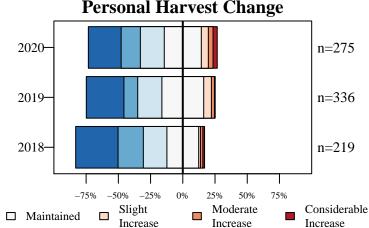


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

### **Buck Quality**

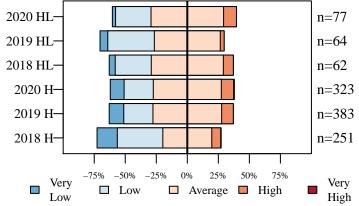


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

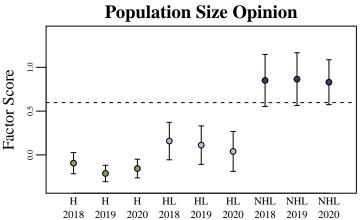


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

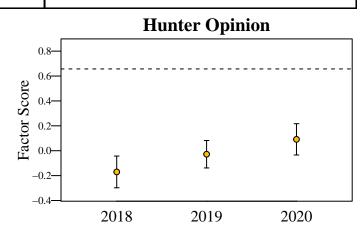


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

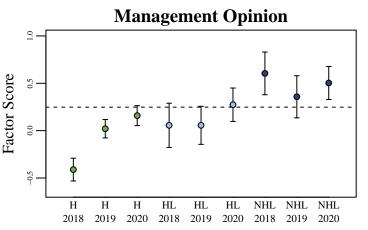


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

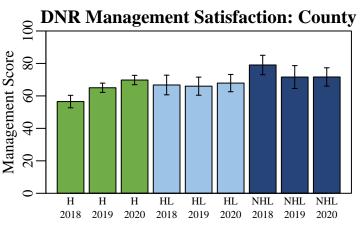


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 452 Square Miles of Deer Habitat: 349 Percent Deer Habitat: 77

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,778		990		2.73	788		2.18	44.32		244.38		2
2007	1,916		929		2.57	987		2.73	51.51		216.14		3
2008	1,908		964		2.66	944		2.61	49.48		177.56		3
2009	1,908		$1,\!005$		2.78	903		2.49	47.33		208.19		3
2010	1,835	0.08	935	-0.24	2.58	900	0.24	2.49	49.05		234.63	0.92	4
2011	2,013	2.38	$1,\!009$	1.34	2.79	1,004	1.34	2.77	49.88		231.23	0.58	4
2012	2,253	5.31	1,017	1.29	2.81	1,236	6.08	3.41	54.86		304.87	4.00	4
2013	$2,\!425$	2.70	$1,\!137$	4.30	3.14	1,288	2.08	3.56	53.11		454.04	4.74	4
2014	$2,\!196$	0.44	$1,\!040$	0.27	2.87	$1,\!156$	0.49	3.19	52.64		358.19	0.71	8
2015	2,504	1.58	1,253	3.10	3.46	$1,\!251$	0.83	3.46	49.96		433.61	1.26	8
2016	$2,\!356$	0.40	1,236	1.39	3.54	1,120	-0.59	3.21	47.54	40	342.63	-0.15	8
2017	2,560	1.71	1,272	1.25	3.64	1,288	1.12	3.69	50.31	11	414.80	0.57	8
2018	$2,\!131$	-1.96	$1,\!128$	-0.61	3.23	1,003	-2.79	2.87	47.07	14	453.33	1.09	4
2019	$2,\!198$	-0.81	1,212	0.27	3.47	986	-1.57	2.83	44.86	33	482.29	1.70	2

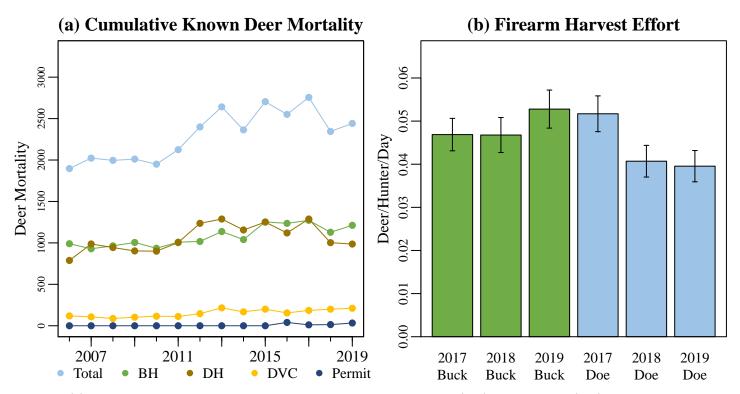


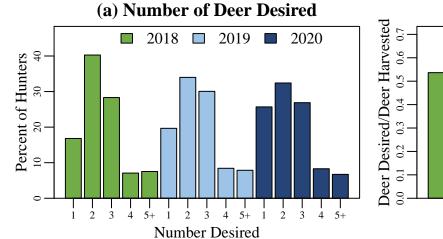
Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 452 Square Miles of Deer Habitat: 349 Percent Deer Habitat: 77

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	$1,\!695$	683	1,007	5	0	733	713	172	43	24	8	0	1	0	0	1
2017	1,761	790	968	3	0	680	753	228	55	28	10	2	3	1	1	0
2018	1,514	625	887	2	0	619	628	208	42	15	2	0	0	0	0	0
2019	$1,\!630$	651	971	8	0	709	679	203	30	9	0	0	0	0	0	0





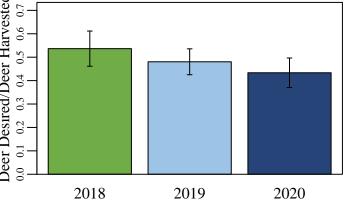


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Lawrence County Map



(b) Deer Habitat in Lawrence County

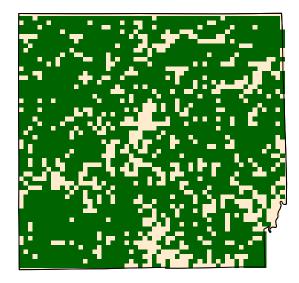


Figure 3. (a) Lawrence county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Lawrence county.

4/17/2020

#### **County Bonus Antlerless Quota**

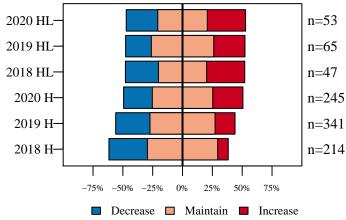


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

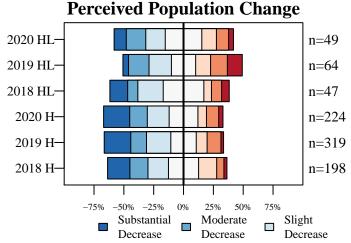


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

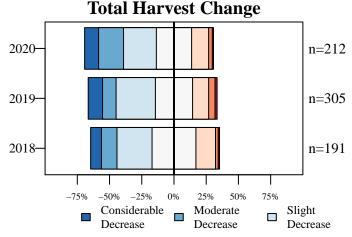
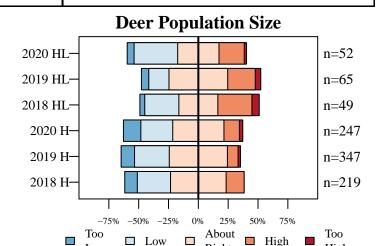


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



#### Low Right High Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

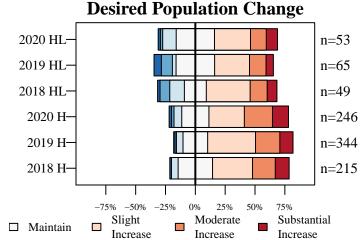


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

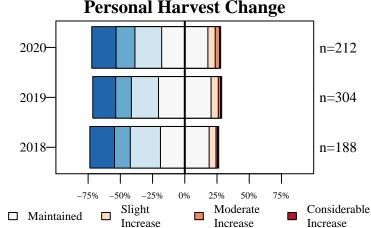


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

#### **Deer Management Survey Results**

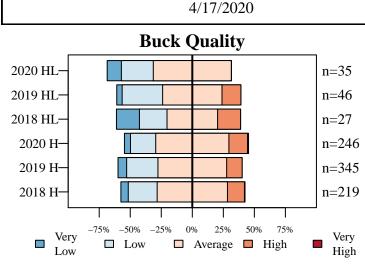
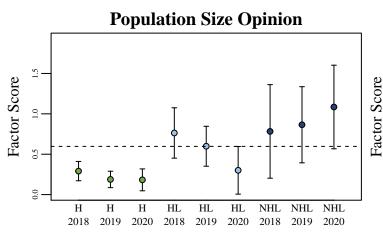
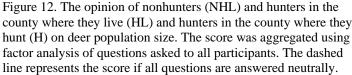


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





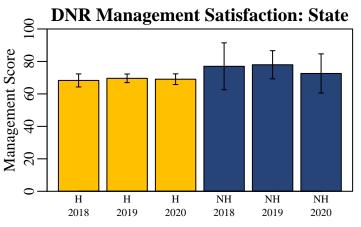
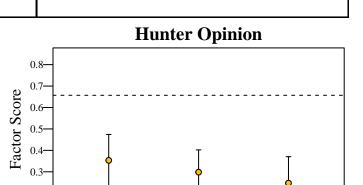


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).



0.2

2018

Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

2019

2020



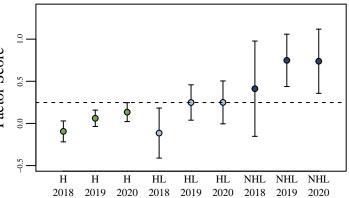


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

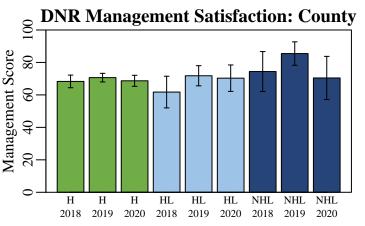


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

#### **Deer Management Survey Results**

4/17/2020

Total Square Miles: 453 Square Miles of Deer Habitat: 56 Percent Deer Habitat: 12

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	534		272		6.04	262		5.82	49.06		126.06		4
2007	617		326		7.24	291		6.47	47.16		111.24		4
2008	604		290		6.44	314		6.98	51.99		144.58		8
2009	653		314		6.98	339		7.53	51.91		143.60		8
2010	633	0.85	324	1.21	7.20	309	0.47	6.87	48.82		107.70	-1.18	8
2011	577	-0.69	292	-0.56	6.49	285	-0.63	6.33	49.39		119.11	-0.43	8
2012	654	1.29	309	-0.01	6.87	345	1.76	7.67	52.75		99.84	-1.44	4
2013	548	-2.29	263	-2.94	5.84	285	-1.38	6.33	52.01		99.93	-1.13	4
2014	522	-1.90	287	-0.56	6.38	235	-2.71	5.22	45.02		115.08	0.06	4
2015	526	-1.09	274	-0.91	6.09	252	-0.99	5.60	47.91		100.75	-0.87	4
2016	489	-1.41	269	-0.91	4.80	220	-1.44	3.93	44.99	1	83.27	-2.52	4
2017	493	-0.87	252	-1.55	4.50	241	-0.53	4.30	48.88	2	110.44	0.95	3
2018	530	0.59	308	3.00	5.50	222	-1.01	3.96	41.89	2	116.70	1.21	2
2019	508	-0.21	300	1.05	5.36	208	-1.95	3.71	40.94	3	113.91	0.63	2

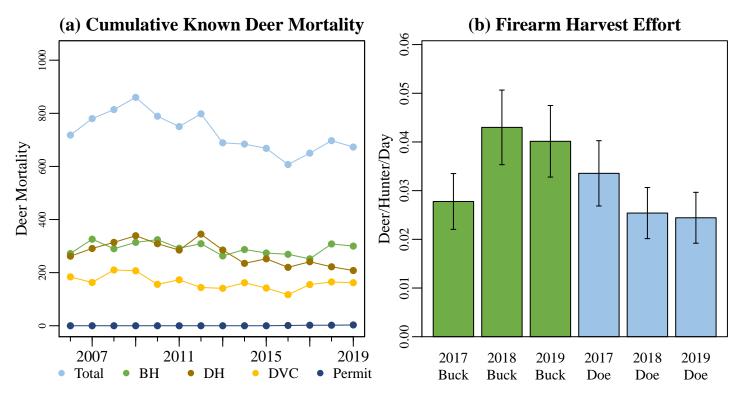


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 453 Square Miles of Deer Habitat: 56 Percent Deer Habitat: 12

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	400	202	198	0	0	161	193	41	4	1	0	0	0	0	0	0
2017	405	219	186	0	0	149	212	37	7	0	0	0	0	0	0	0
2018	424	179	245	0	0	188	195	34	6	1	0	0	0	0	0	0
2019	418	186	232	0	0	185	193	37	3	0	0	0	0	0	0	0

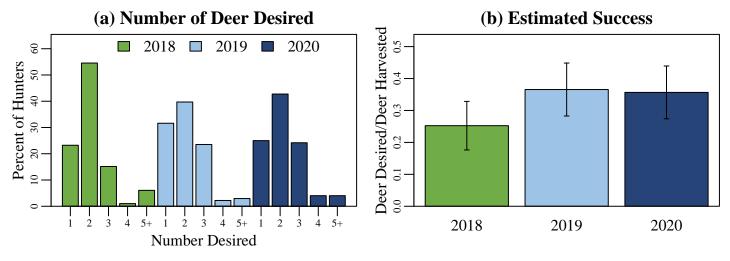


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Madison County Map



(b) Deer Habitat in Madison County

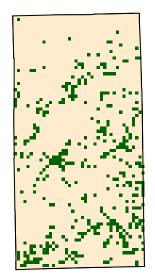


Figure 3. (a) Madison county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Madison county.

4/17/2020

#### **County Bonus Antlerless Quota**

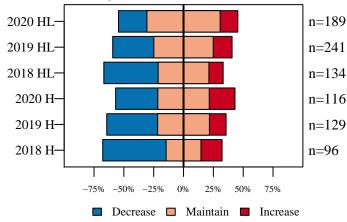


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

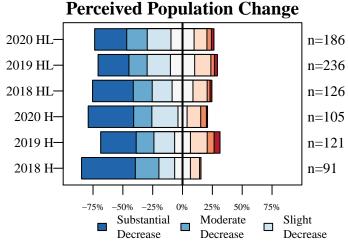
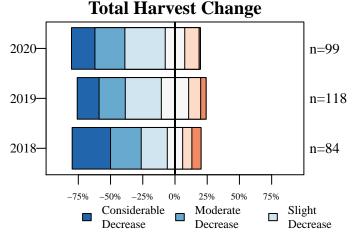
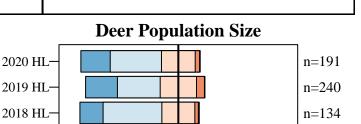


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

n=121

n=130

n=97

#### 50% 75% Too About Too Low High Right High Low Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the

-25%

2020 H-

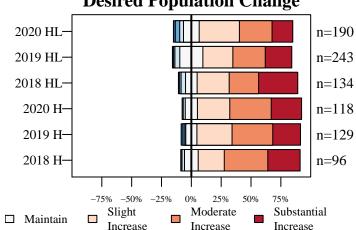
2019 H-

2018 H-

-75%

county where they hunt (H).

-50%



#### **Desired Population Change**

0%

25%

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

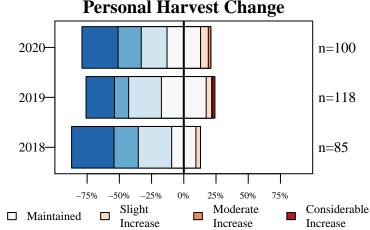


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

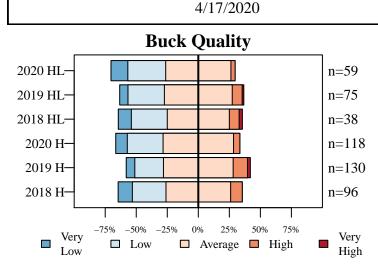
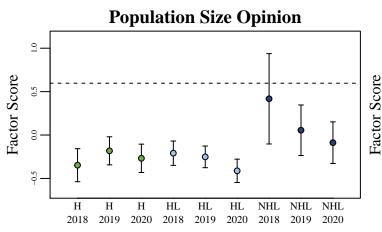


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



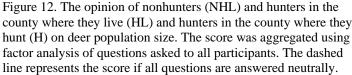




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

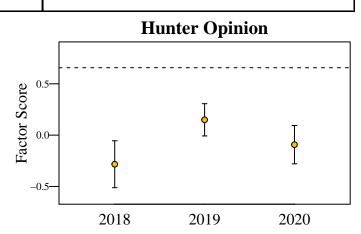
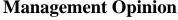


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



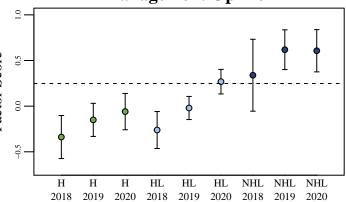


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

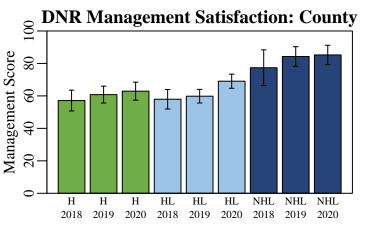


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 403 Square Miles of Deer Habitat: 42 Percent Deer Habitat: 11

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	264		162		4.63	102		2.91	38.64		13.66		8
2007	324		208		5.94	116		3.31	35.80		9.52		8
2008	328		192		5.49	136		3.89	41.46		11.37		8
2009	351		224		6.40	127		3.63	36.18		12.44		8
2010	352	0.96	191	0.22	5.46	161	2.11	4.60	45.74		11.61	-0.38	8
2011	375	1.43	207	0.50	5.91	168	1.78	4.80	44.80		12.23	0.33	8
2012	501	7.50	179	-1.87	5.11	322	8.12	9.20	64.27		9.02	-2.09	8
2013	510	1.87	203	0.25	5.80	307	1.56	8.77	60.20		11.19	-0.10	8
2014	469	0.63	166	-2.05	4.74	303	0.95	8.66	64.61		9.46	-1.34	8
2015	444	0.04	167	-1.31	4.77	277	0.31	7.91	62.39		10.50	-0.15	8
2016	416	-0.81	166	-0.94	3.95	250	-0.41	5.95	60.10	3	9.81	-0.51	8
2017	448	-0.51	187	0.68	4.45	261	-1.08	6.21	58.26	174	11.00	1.16	8
2018	435	-0.64	170	-0.47	4.05	265	-0.58	6.31	60.92	123	10.00	-0.53	3
2019	444	0.08	196	2.76	4.67	248	-1.15	5.90	55.86	100	7.55	-4.32	2

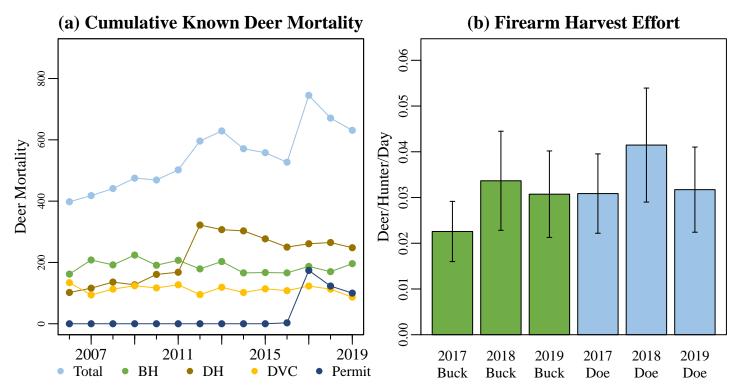


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 403 Square Miles of Deer Habitat: 42 Percent Deer Habitat: 11

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	313	182	127	4	0	71	211	24	6	1	0	0	0	0	0	0
2017	316	187	120	9	0	65	206	35	8	0	2	0	0	0	0	0
2018	303	179	120	4	0	63	188	40	10	1	1	0	0	0	0	0
2019	311	186	112	13	0	64	198	40	8	1	0	0	0	0	0	0

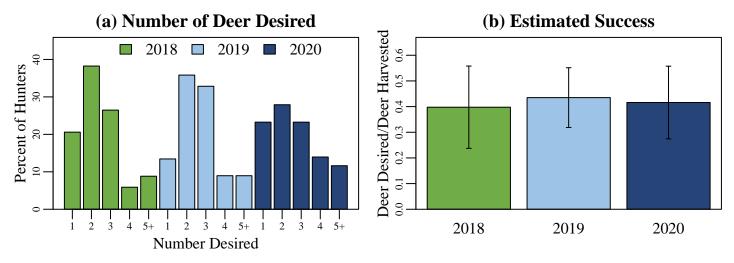


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Marion County Map



(b) Deer Habitat in Marion County

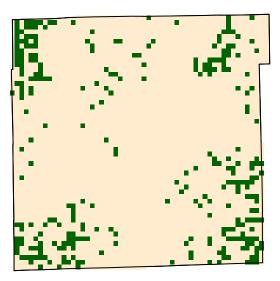


Figure 3. (a) Marion county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Marion county.

4/17/2020

#### **County Bonus Antlerless Quota**

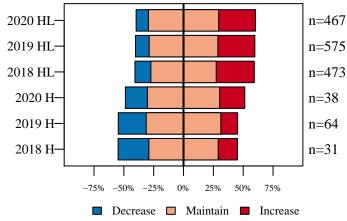


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

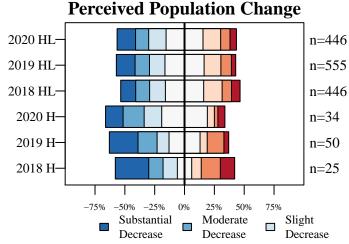


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

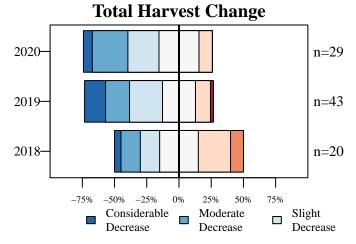


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



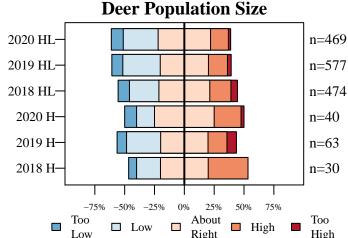
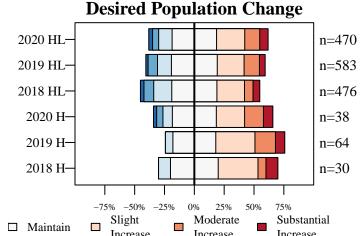


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



Increase Increase Increase Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and

hunters in the county where they hunt (H).

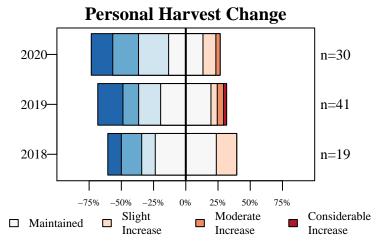


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

### **Deer Population Size**

4/17/2020

### **Buck Quality**

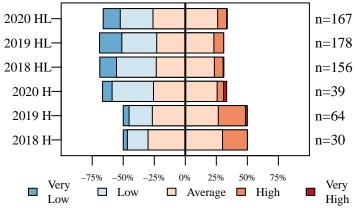
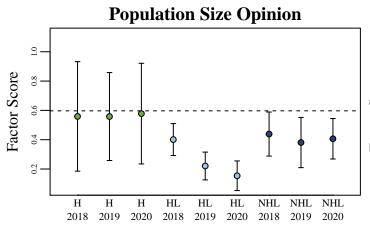


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



# Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



# Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

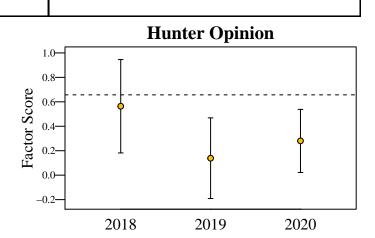


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

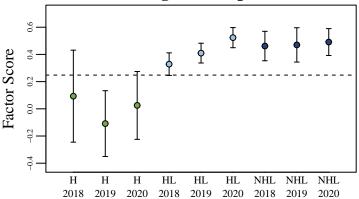


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

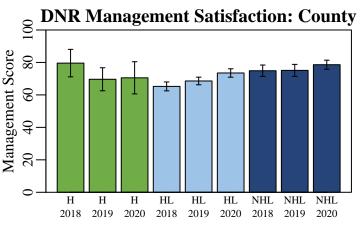


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

**Deer Management Survey Results** 

4/17/2020

Total Square Miles: 449 Square Miles of Deer Habitat: 91 Percent Deer Habitat: 20

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat		1011011	Traveled	2.0	
2006	2,532		1,244		15.55	1,288		16.10	50.87		708.16		3
2007	2,807		1,297		16.21	1,510		18.88	53.79		814.54		4
2008	2,977		1,394		17.43	1,583		19.79	53.17		701.45		4
2009	2,915		1,348		16.85	1,567		19.59	53.76		677.03		8
2010	2,956	0.88	1,292	-0.06	16.15	$1,\!664$	1.23	20.80	56.29		652.27	-0.64	8
2011	2,502	-1.83	$1,\!181$	-2.33	14.76	1,321	-1.42	16.51	52.80		605.45	-1.69	8
2012	2,823	-0.04	1,200	-1.29	15.00	1,623	0.73	20.29	57.49		546.11	-1.84	8
2013	2,197	-3.27	985	-3.24	12.31	1,212	-2.53	15.15	55.17		538.90	-1.58	8
2014	2,043	-1.97	971	-1.66	12.14	1,072	-2.03	13.40	52.47		464.79	-2.25	4
2015	1,959	-1.39	992	-0.95	12.40	967	-1.59	12.09	49.36		587.27	0.36	3
2016	1,866	-1.23	968	-0.86	10.64	898	-1.35	9.87	48.12	52	513.77	-0.64	3
2017	$1,\!605$	-1.50	780	-2.45	8.57	825	-1.15	9.07	51.40	41	535.51	0.12	2
2018	1,743	-0.87	970	0.34	10.66	773	-1.46	8.49	44.35	52	583.61	1.25	2
2019	$1,\!957$	0.66	1,043	1.22	11.46	914	0.06	10.04	46.70	46	526.25	-0.21	2

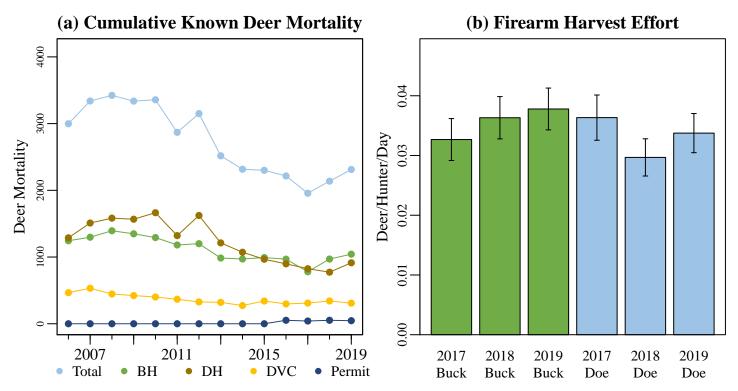


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 449 Square Miles of Deer Habitat: 91 Percent Deer Habitat: 20

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	$1,\!417$	606	808	3	0	608	607	167	29	6	0	0	0	0	0	0
2017	$1,\!249$	598	651	0	0	481	602	147	18	1	0	0	0	0	0	0
2018	1,365	568	794	3	0	614	581	150	18	2	0	0	0	0	0	0
2019	$1,\!484$	604	880	0	0	623	670	169	19	3	0	0	0	0	0	0

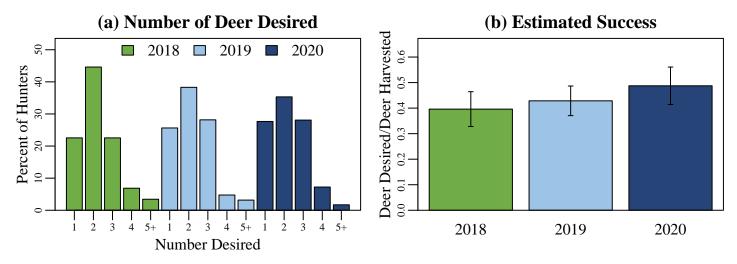


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Marshall County Map



(b) Deer Habitat in Marshall County

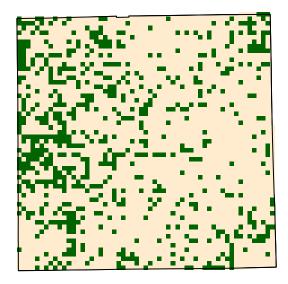


Figure 3. (a) Marshall county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Marshall county.

4/17/2020

#### **County Bonus Antlerless Quota**

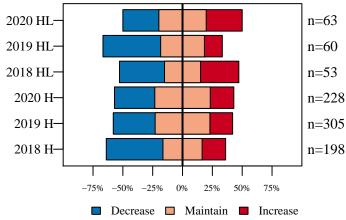


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

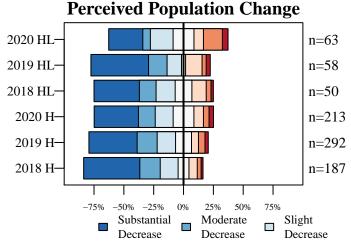


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

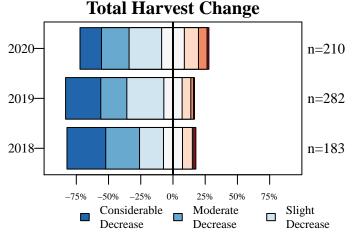
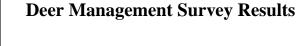


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



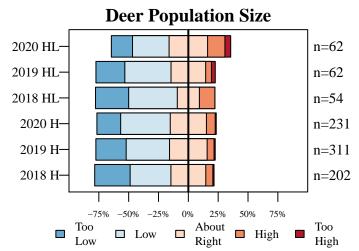
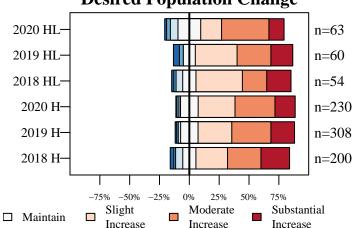


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

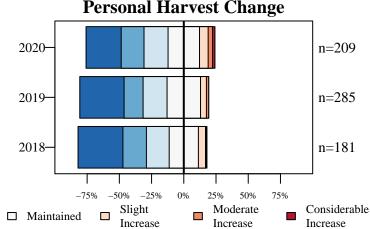


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

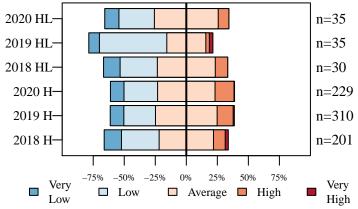


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

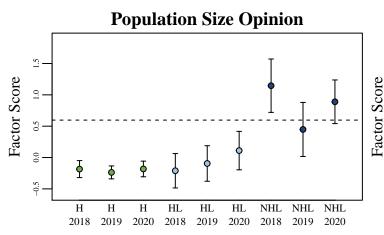


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

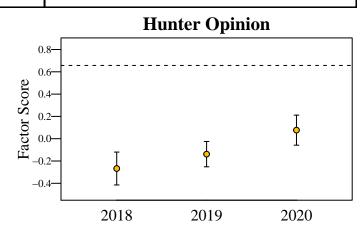


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

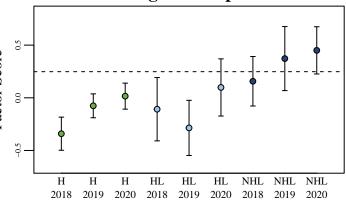


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

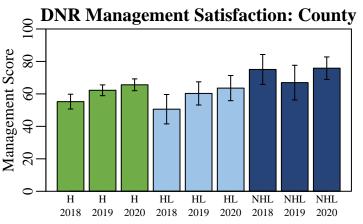


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 340 Square Miles of Deer Habitat: 259 Percent Deer Habitat: 76

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat		1011011	Traveled	2.0	
2006	1,803		927		3.36	876		3.17	48.59		535.15		2
2007	$1,\!425$		747		2.71	678		2.46	47.58		439.16		2
2008	1,562		682		2.47	880		3.19	56.34		350.91		2
2009	$1,\!624$		819		2.97	805		2.92	49.57		260.02		2
2010	$1,\!612$	0.07	830	0.13	3.01	782	-0.04	2.83	48.51		289.97	-1.13	3
2011	$1,\!656$	0.37	855	0.58	3.10	801	-0.04	2.90	48.37		296.88	-0.69	3
2012	1,529	-0.52	739	-0.67	2.68	790	0.01	2.86	51.67		228.24	-1.41	3
2013	1,577	-0.39	771	-0.19	2.79	806	-0.14	2.92	51.11		158.79	-2.77	3
2014	$1,\!595$	-0.09	765	-0.81	2.77	830	3.18	3.01	52.04		89.61	-2.80	3
2015	$1,\!584$	-0.21	776	-0.33	2.81	808	0.34	2.93	51.01		193.26	-0.22	4
2016	$1,\!661$	1.60	846	1.48	3.27	815	0.55	3.15	49.07		216.14	0.29	4
2017	1,775	3.92	863	2.10	3.33	912	7.03	3.52	51.38		171.75	-0.10	4
2018	$1,\!592$	-0.56	809	0.10	3.12	783	-1.15	3.02	49.18		112.99	-1.10	4
2019	1,505	-1.69	778	-0.79	3.00	727	-2.09	2.81	48.31	1	158.02	0.02	2

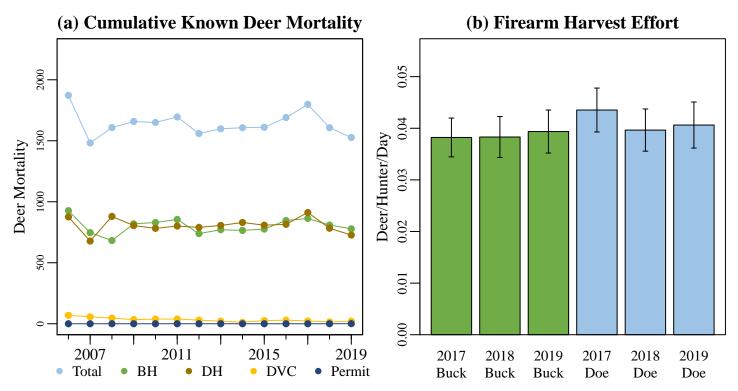


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 340 Square Miles of Deer Habitat: 259 Percent Deer Habitat: 76

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,246	592	626	27	1	482	595	134	27	6	2	0	0	0	0	0
2017	$1,\!304$	636	651	16	1	449	670	146	30	8	1	0	0	0	0	0
2018	$1,\!195$	564	612	17	2	472	560	126	23	11	3	0	0	0	0	0
2019	$1,\!165$	544	603	16	2	467	546	139	12	1	0	0	0	0	0	0

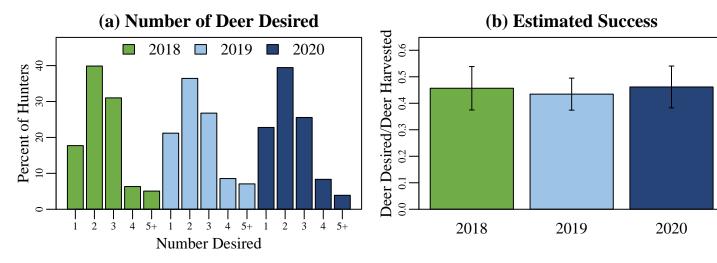


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Martin County Map



(b) Deer Habitat in Martin County

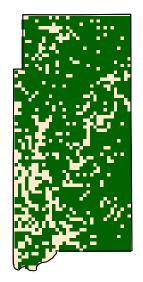


Figure 3. (a) Martin county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Martin county.

4/17/2020

#### **County Bonus Antlerless Quota**

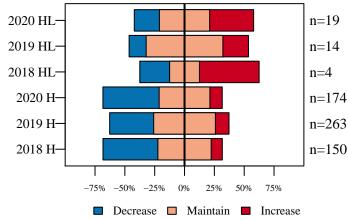


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

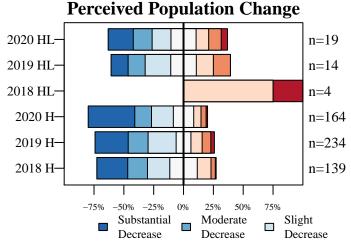


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

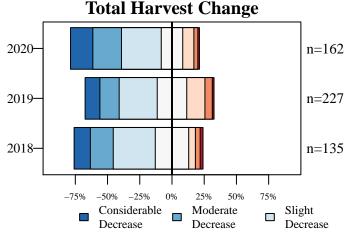
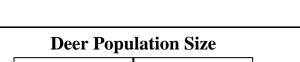


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

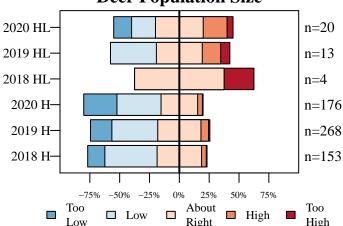
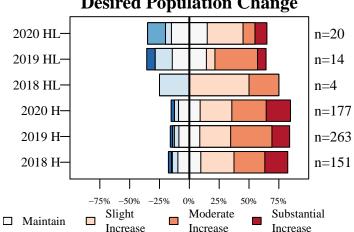


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

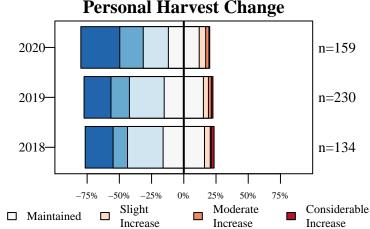


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

### Buck Quality

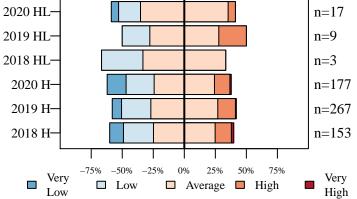


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

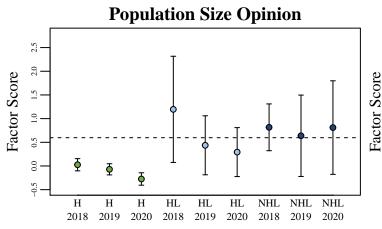


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

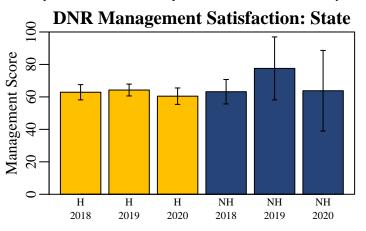


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

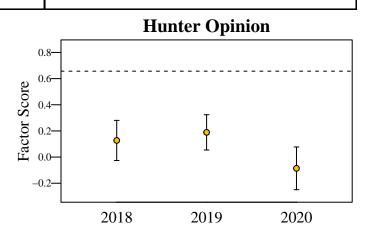


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### Management Opinion

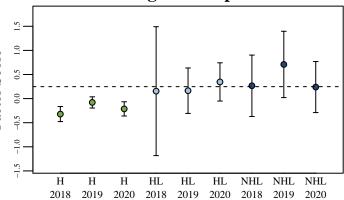


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

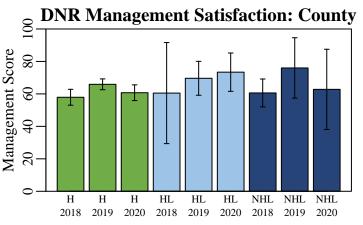


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 377 Square Miles of Deer Habitat: 62 Percent Deer Habitat: 16

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	$1,\!227$		622		10.54	605		10.25	49.31		575.04		2
2007	$1,\!410$		793		13.44	617		10.46	43.76		546.93		2
2008	1,383		749		12.69	634		10.75	45.84		530.68		2
2009	1,500		736		12.47	764		12.95	50.93		593.30		4
2010	1,578	1.63	763	0.74	12.93	815	1.86	13.81	51.65		530.96	-0.89	4
2011	$1,\!461$	0.31	713	-0.30	12.08	748	0.64	12.68	51.20		542.48	-0.46	4
2012	1,593	1.64	701	-1.66	11.88	892	2.05	15.12	55.99		394.72	-5.97	4
2013	$1,\!171$	-3.84	581	-5.95	9.85	590	-1.91	10.00	50.38		464.59	-0.73	4
2014	$1,\!120$	-1.99	600	-1.41	10.17	520	-2.17	8.81	46.43		329.80	-2.28	3
2015	$1,\!195$	-0.84	636	-0.46	10.78	559	-0.99	9.47	46.78		388.61	-0.71	3
2016	$1,\!180$	-0.62	638	-0.14	10.29	542	-0.77	8.74	45.93		408.28	-0.19	3
2017	975	-1.44	539	-2.01	8.69	436	-1.20	7.03	44.72		430.14	0.68	2
2018	1,064	-0.71	556	-1.04	8.97	508	-0.37	8.19	47.74		429.04	0.49	2
2019	1,235	1.42	671	1.70	10.82	564	1.08	9.10	45.67		444.89	1.15	2

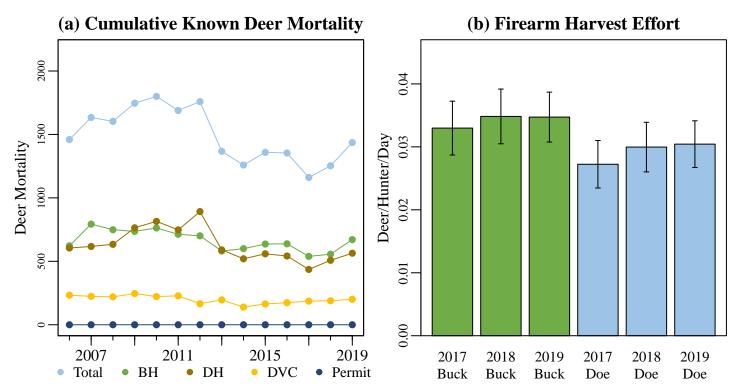


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 377 Square Miles of Deer Habitat: 62 Percent Deer Habitat: 16

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	940	435	504	1	0	398	428	98	14	2	0	0	0	0	0	0
2017	801	386	415	0	0	328	390	79	4	0	0	0	0	0	0	0
2018	833	389	444	0	0	324	409	90	9	1	0	0	0	0	0	0
2019	957	416	539	2	0	377	474	100	6	0	0	0	0	0	0	0

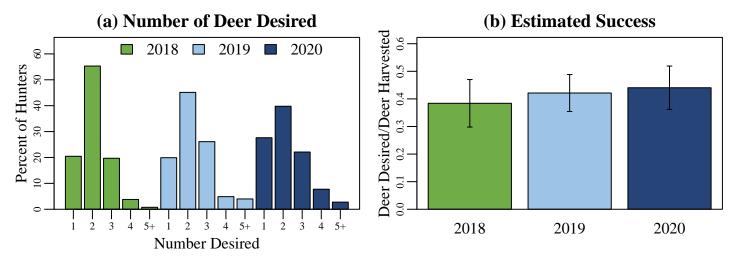


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Miami County Map



(b) Deer Habitat in Miami County

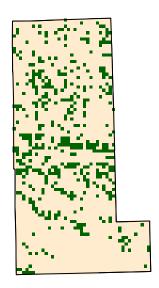


Figure 3. (a) Miami county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Miami county.

4/17/2020

#### **County Bonus Antlerless Quota**

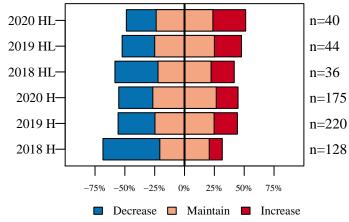


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

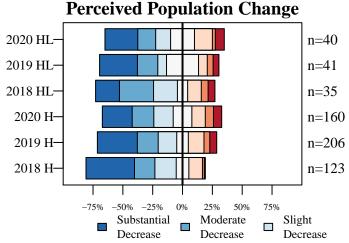


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

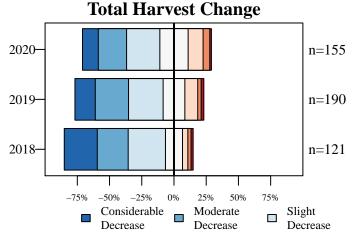


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

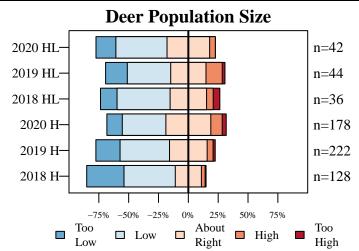
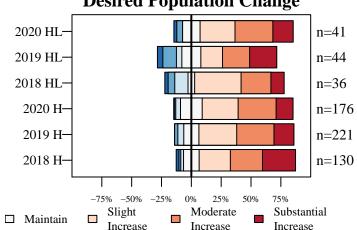


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

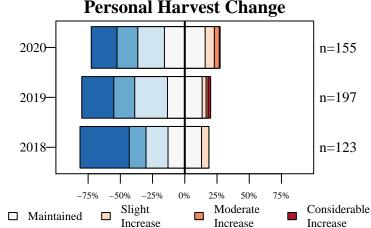


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

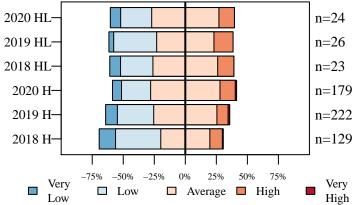
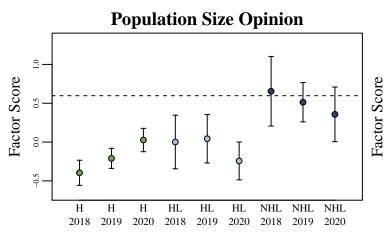
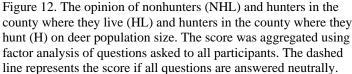
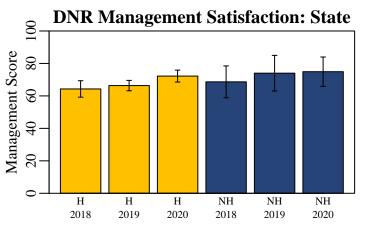


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).







# Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

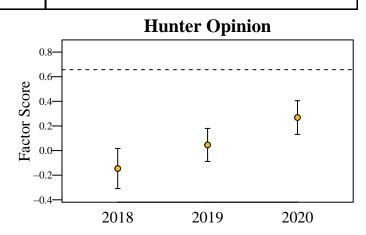
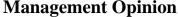


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



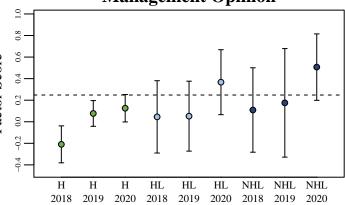


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

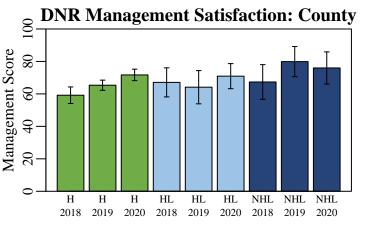


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 411 Square Miles of Deer Habitat: 320 Percent Deer Habitat: 78

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,329		713		2.08	616		1.80	46.35		73.93		3
2007	1,233		680		1.99	553		1.62	44.85		91.10		3
2008	$1,\!375$		720		2.11	655		1.92	47.64		101.42		3
2009	$1,\!464$		775		2.27	689		2.01	47.06		120.09		4
2010	$1,\!405$	0.79	741	0.66	2.17	664	0.83	1.94	47.26		107.14	0.75	4
2011	1,361	0.00	725	-0.02	2.12	636	0.01	1.86	46.73		110.41	0.67	4
2012	$1,\!609$	2.84	758	0.86	2.22	851	4.08	2.49	52.89		135.03	2.70	4
2013	1,772	3.26	881	5.98	2.58	891	2.20	2.61	50.28		134.84	1.52	4
2014	$1,\!465$	-0.34	738	-0.62	2.16	727	-0.17	2.13	49.62		118.73	-0.21	8
2015	$1,\!699$	1.05	896	1.99	2.62	803	0.44	2.35	47.26		137.45	1.23	8
2016	$1,\!642$	0.36	830	0.37	2.59	812	0.30	2.54	49.45	43	139.63	1.03	8
2017	$1,\!674$	0.32	787	-0.47	2.46	887	1.15	2.77	52.99	81	183.70	6.10	8
2018	$1,\!270$	-3.33	684	-2.17	2.14	586	-3.50	1.83	46.14	92	154.69	0.49	4
2019	1,504	-0.25	823	0.44	2.57	681	-0.72	2.13	45.28	34	156.39	0.39	2

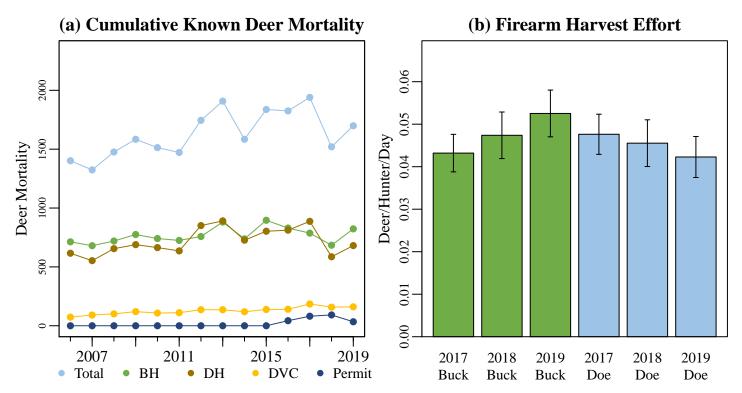


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 411 Square Miles of Deer Habitat: 320 Percent Deer Habitat: 78

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 ·s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,261	590	669	2	0	498	614	109	29	7	2	2	0	0	0	0
2017	1,213	599	613	1	0	457	550	146	41	10	4	2	2	1	0	0
2018	991	472	518	1	0	410	456	92	25	6	1	1	0	0	0	0
2019	$1,\!181$	507	672	2	0	501	549	115	15	1	0	0	0	0	0	0

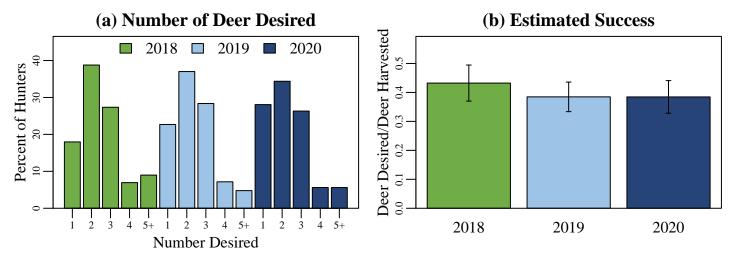


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Monroe County Map



(b) Deer Habitat in Monroe County

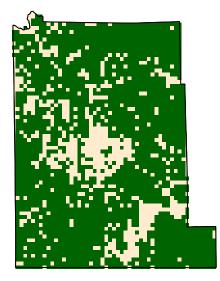


Figure 3. (a) Monroe county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Monroe county.

4/17/2020

#### **County Bonus Antlerless Quota**

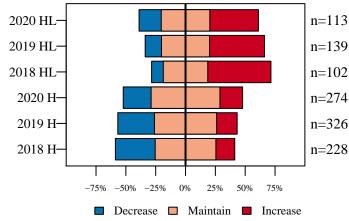


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

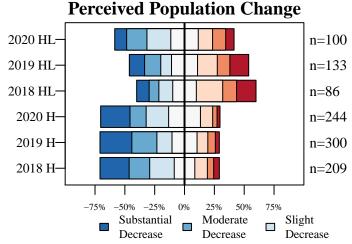


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

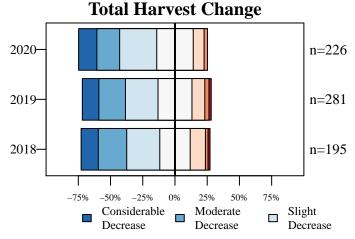


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

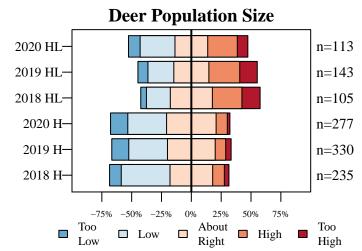


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

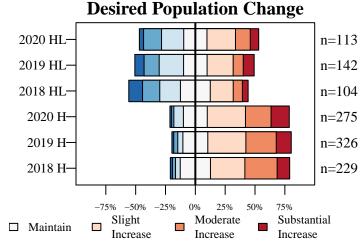


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

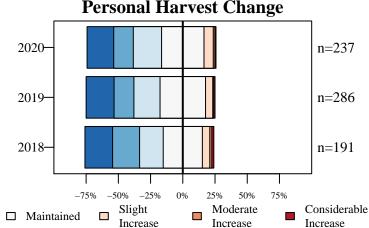


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

### **Buck Quality**

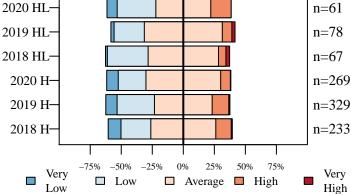


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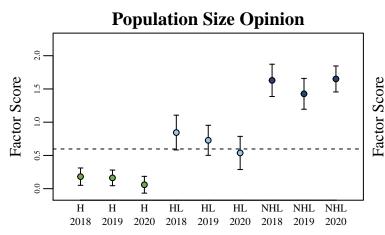


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

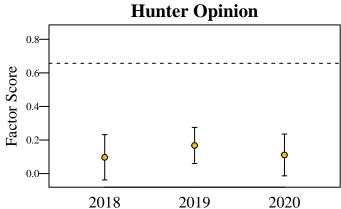


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

### **Management Opinion** 0.8 0.60.4 0.2 þ 0.0

-0.2 Н Η Η HL HL HL NHL NHL NHL 2018 2019 2020 2018 2019 2020 2018 2019 2020 Figure 13. The opinion of nonhunters (NHL) and hunters in the

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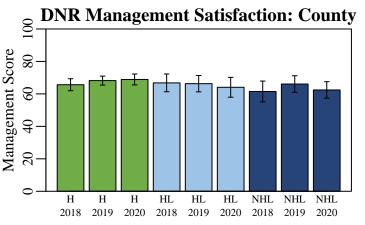


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

### **Montgomery County**

4/17/2020

Total Square Miles: 505 Square Miles of Deer Habitat: 65 Percent Deer Habitat: 13

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat		ranon	Traveled	DIC	
2006	970		531		7.38	439		6.10	45.26		400.39		4
2007	$1,\!172$		617		8.57	555		7.71	47.35		375.67		4
2008	940		491		6.82	449		6.24	47.77		413.60		4
2009	896		464		6.44	432		6.00	48.21		375.63		4
2010	$1,\!185$	1.53	629	1.28	8.74	556	1.70	7.72	46.92		354.99	-1.59	4
2011	1,339	2.26	706	2.16	9.81	633	2.31	8.79	47.27		375.64	-0.36	4
2012	$1,\!387$	1.52	704	1.21	9.78	683	1.89	9.49	49.24		295.15	-3.95	4
2013	$1,\!182$	0.15	597	-0.02	8.29	585	0.31	8.12	49.49		351.92	-0.26	4
2014	$1,\!155$	-0.22	597	-0.23	8.29	558	-0.21	7.75	48.31		324.02	-0.81	4
2015	$1,\!137$	-1.07	610	-0.67	8.47	527	-1.40	7.32	46.35		309.10	-1.00	4
2016	1,028	-1.85	555	-1.54	8.54	473	-2.01	7.28	46.01	38	266.45	-1.99	4
2017	860	-2.43	458	-2.80	7.05	402	-2.09	6.18	46.74	16	374.17	2.03	4
2018	803	-2.04	452	-1.78	6.95	351	-2.17	5.40	43.71	23	289.41	-0.86	2
2019	894	-0.64	543	0.11	8.35	351	-1.30	5.40	39.26	23	332.22	0.48	2

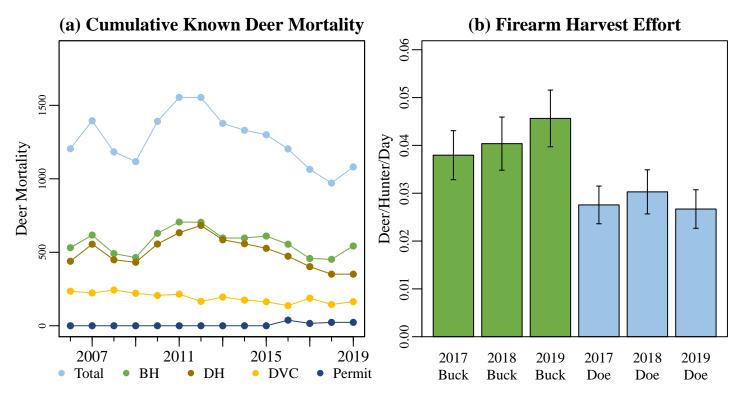


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

### **Montgomery County**

4/17/2020

Total Square Miles: 505 Square Miles of Deer Habitat: 65 Percent Deer Habitat: 13

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	782	330	452	0	0	342	330	92	10	8	0	0	0	0	0	0
2017	659	311	347	1	0	259	306	80	11	3	0	0	0	0	0	0
2018	633	258	372	3	0	277	292	59	5	0	0	0	0	0	0	0
2019	701	238	460	3	0	351	275	72	3	0	0	0	0	0	0	0

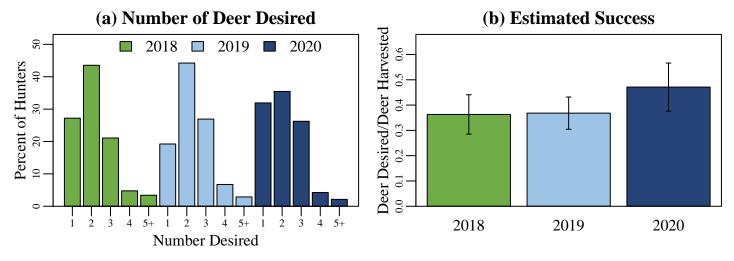


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Montgomery County Map



(b) Deer Habitat in Montgomery County

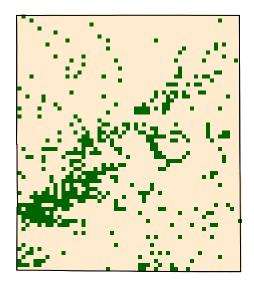


Figure 3. (a) Montgomery county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Montgomery county.

## **Montgomery County**

4/17/2020

#### **County Bonus Antlerless Quota**

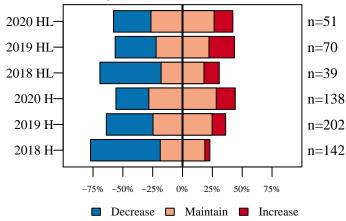


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

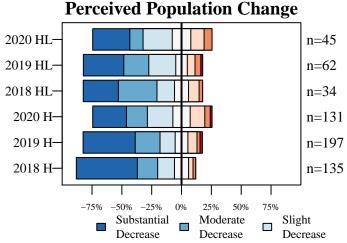


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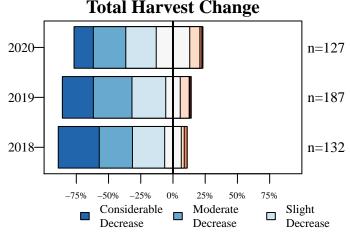


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

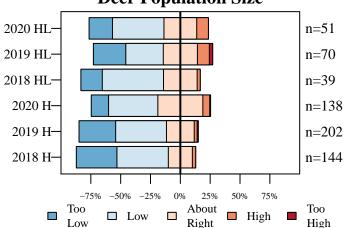
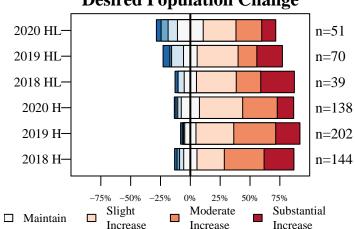


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

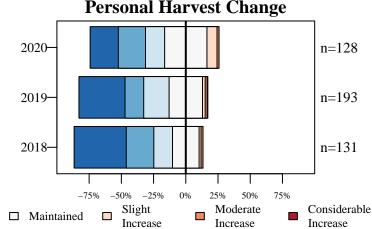


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

## **Montgomery County**

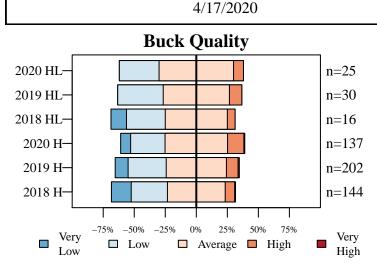


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

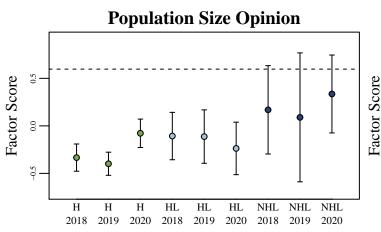


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



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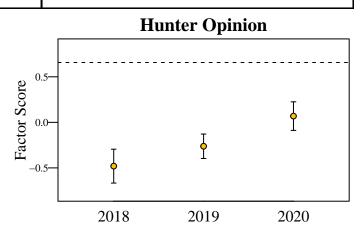


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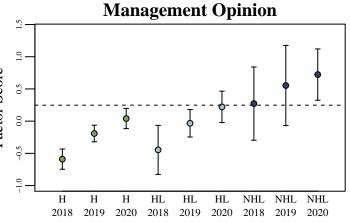


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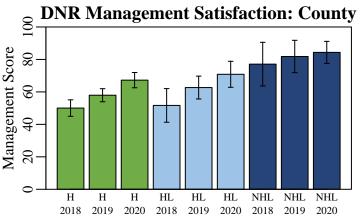


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4/17/2020

Total Square Miles: 409 Square Miles of Deer Habitat: 222 Percent Deer Habitat: 54

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer Takan	DVC per Billion Miles	Total Trend in DVC	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,114		605		2.65	509		2.23	45.69		187.78		4
2007	$1,\!183$		616		2.70	567		2.49	47.93		173.81		4
2008	$1,\!158$		622		2.73	536		2.35	46.29		152.81		4
2009	1,282		663		2.91	619		2.71	48.28		216.19		4
2010	1,291	1.78	684	2.17	3.00	607	1.28	2.66	47.02		189.96	0.44	4
2011	1,244	0.49	674	1.07	2.96	570	0.05	2.50	45.82		180.01	-0.18	8
2012	$1,\!345$	1.92	642	-0.32	2.82	703	3.69	3.08	52.27		180.52	-0.09	8
2013	1,332	0.98	721	2.56	3.16	611	0.06	2.68	45.87		172.49	-0.50	4
2014	1,088	-5.20	558	-4.07	2.45	530	-1.88	2.32	48.71		167.64	-1.19	4
2015	1,316	0.54	698	0.69	3.06	618	0.21	2.71	46.96		203.36	2.96	4
2016	1,227	-0.36	702	0.68	3.16	525	-1.26	2.36	42.79	4	174.10	-0.49	4
2017	1,217	-0.41	642	-0.33	2.89	575	-0.31	2.59	47.25	1	176.48	-0.22	3
2018	1,239	0.03	655	-0.14	2.95	584	0.28	2.63	47.13	1	190.50	0.83	3
2019	$1,\!278$	0.74	701	0.86	3.16	577	0.27	2.60	45.15	8	196.74	1.00	2

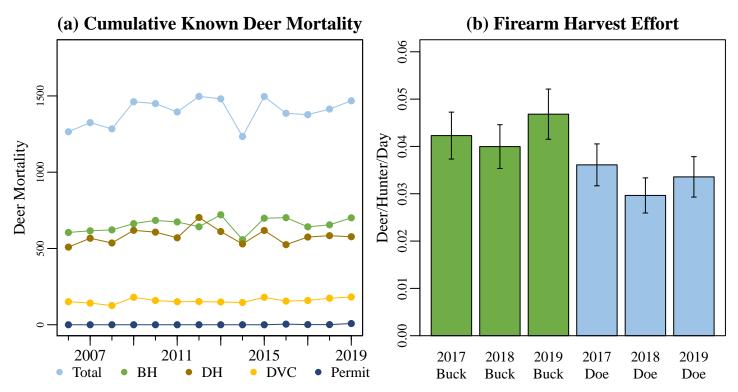


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4/17/2020

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Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,023	443	580	0	0	477	457	79	8	2	0	0	0	0	0	0
2017	970	475	491	4	0	376	483	99	11	1	0	0	0	0	0	0
2018	988	474	511	3	0	392	485	100	7	4	0	0	0	0	0	0
2019	1,021	468	548	5	0	425	485	99	11	1	0	0	0	0	0	0

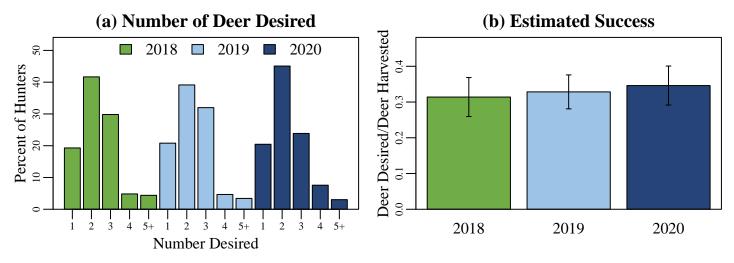


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Morgan County Map



(b) Deer Habitat in Morgan County

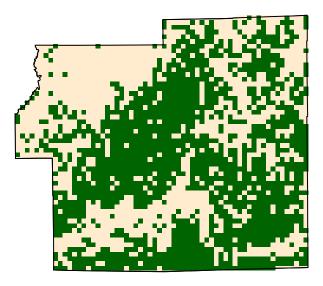


Figure 3. (a) Morgan county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Morgan county.

4/17/2020

#### **County Bonus Antlerless Quota**

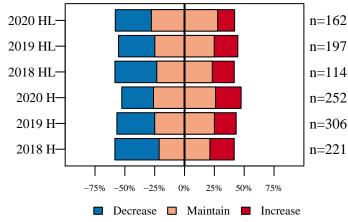


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

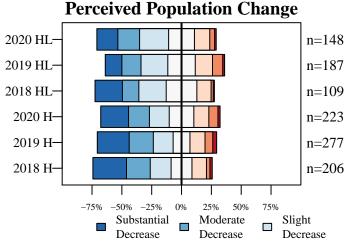


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

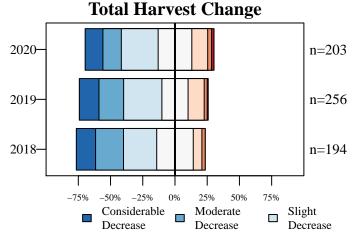
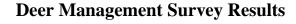


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



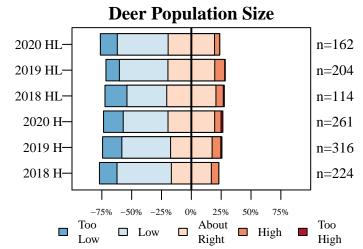
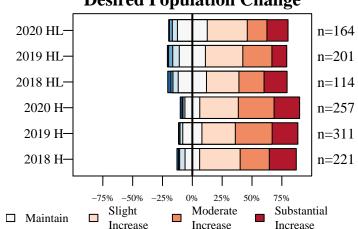


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

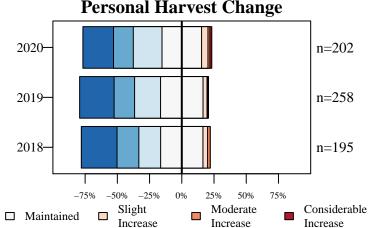


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

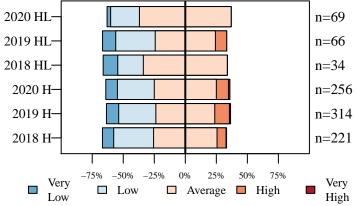


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

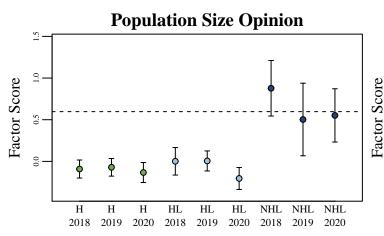


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

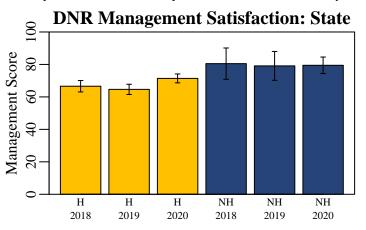


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

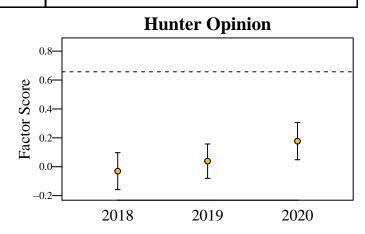


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

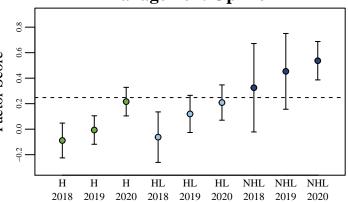


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

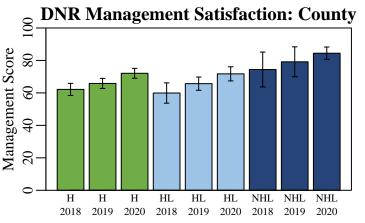


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 403 Square Miles of Deer Habitat: 58 Percent Deer Habitat: 14

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
	1 000												
2006	1,008		557		8.84	451		7.16	44.74		411.43		2
2007	1,038		545		8.65	493		7.83	47.50		508.44		2
2008	$1,\!140$		643		10.21	497		7.89	43.60		380.92		3
2009	989		533		8.46	456		7.24	46.11		497.86		4
2010	$1,\!117$	1.33	599	0.67	9.51	518	1.79	8.22	46.37		353.79	-0.91	4
2011	963	-1.43	509	-1.47	8.08	454	-1.01	7.21	47.14		326.75	-1.49	4
2012	956	-1.21	481	-1.56	7.63	475	-0.31	7.54	49.69		284.10	-1.54	4
2013	797	-2.67	424	-1.94	6.73	373	-3.90	5.92	46.80		357.34	-0.14	4
2014	765	-1.75	407	-1.58	6.46	358	-1.85	5.68	46.80		301.07	-0.78	3
2015	750	-1.19	412	-0.94	6.54	338	-1.43	5.37	45.07		350.26	0.80	3
2016	716	-1.24	414	-0.71	7.14	302	-1.60	5.21	42.18		292.84	-0.99	3
2017	746	-0.54	403	-0.81	6.95	343	-0.40	5.91	45.98		325.98	0.26	2
2018	784	0.99	449	4.64	7.74	335	-0.29	5.78	42.73		345.81	0.71	2
2019	888	5.40	507	4.89	8.74	381	2.23	6.57	42.91		339.59	0.64	2

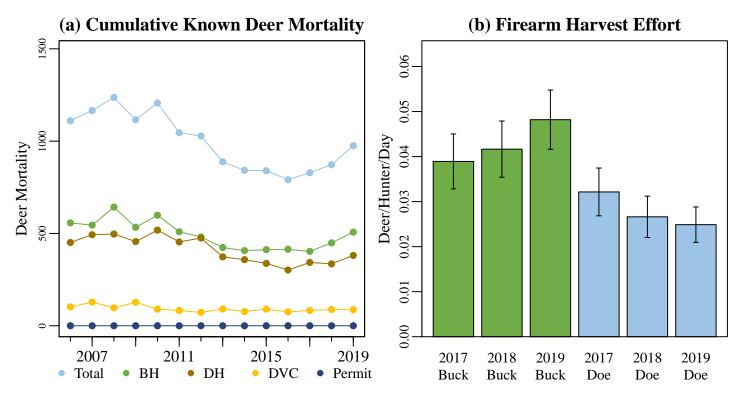


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 403 Square Miles of Deer Habitat: 58 Percent Deer Habitat: 14

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	591	233	358	0	0	292	247	45	7	0	0	0	0	0	0	0
2017	584	266	316	2	0	240	272	62	10	0	0	0	0	0	0	0
2018	634	254	379	1	0	289	290	52	3	0	0	0	0	0	0	0
2019	683	242	441	0	0	311	303	64	4	1	0	0	0	0	0	0

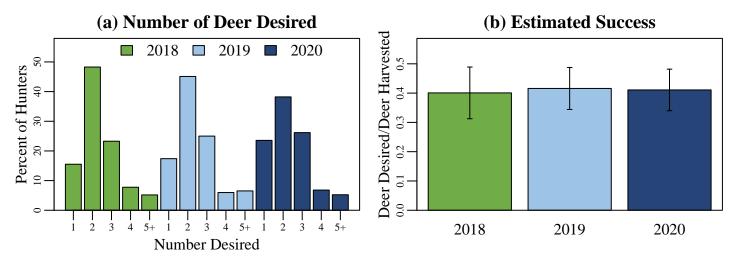


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Newton County Map



(b) Deer Habitat in Newton County

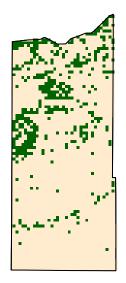


Figure 3. (a) Newton county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Newton county.

4/17/2020

#### **County Bonus Antlerless Quota**

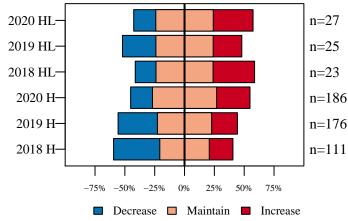


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

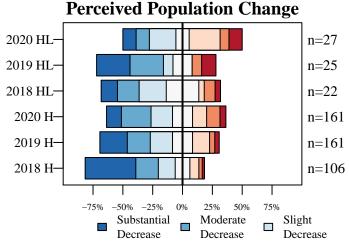


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

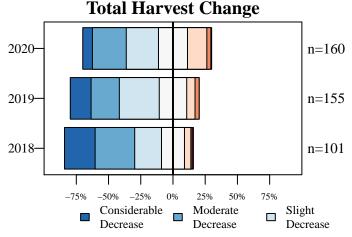


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



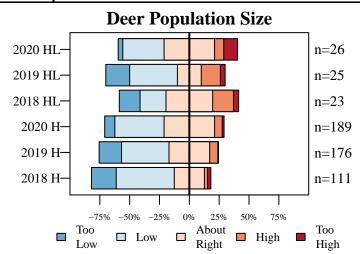
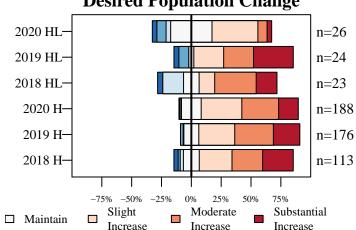


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

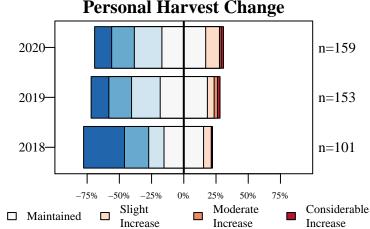


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

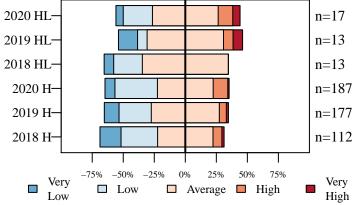


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

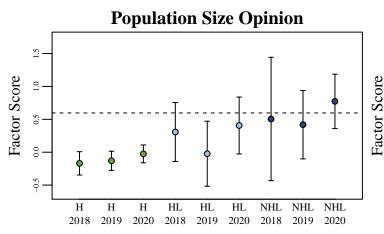


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

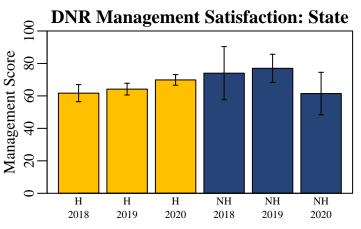


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

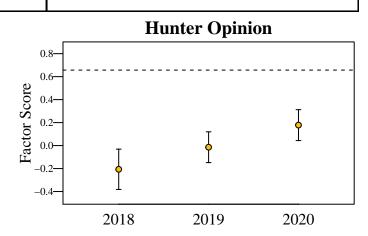


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

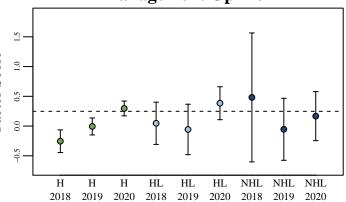


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

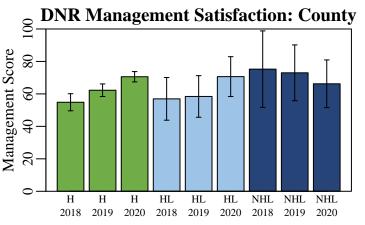


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 417 Square Miles of Deer Habitat: 121 Percent Deer Habitat: 29

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	2,694		1,248		11.45	1,446		13.27	53.67		717.41		2
2007	2,844		1,310		12.02	1,534		14.07	53.94		660.76		2
2008	3,331		$1,\!456$		13.36	1,875		17.20	56.29		600.79		3
2009	$3,\!157$		$1,\!431$		13.13	1,726		15.83	54.67		703.44		4
2010	$3,\!478$	1.93	1,545	2.18	14.17	1,933	1.77	17.73	55.58		653.03	-0.52	4
2011	$3,\!112$	0.03	1,327	-0.60	12.17	1,785	0.39	16.38	57.36		604.90	-1.35	8
2012	2,848	-1.40	1,230	-1.90	11.28	$1,\!618$	-0.99	14.84	56.81		558.69	-2.01	8
2013	2,742	-1.86	1,204	-1.59	11.05	1,538	-2.01	14.11	56.09		633.65	0.17	4
2014	$2,\!606$	-1.60	1,222	-0.88	11.21	1,384	-2.20	12.70	53.11		653.22	0.42	4
2015	$2,\!625$	-0.96	1,278	-0.19	11.72	$1,\!347$	-1.43	12.36	51.31		692.16	1.79	4
2016	2,712	-0.36	$1,\!409$	3.14	11.64	1,303	-1.30	10.77	48.05	34	715.95	1.74	4
2017	2,233	-4.86	1,076	-2.32	8.89	$1,\!157$	-2.10	9.56	51.81	19	752.91	1.68	3
2018	2,466	-0.58	$1,\!250$	0.10	10.33	1,216	-0.94	10.05	49.31	11	831.57	2.97	3
2019	$2,\!625$	0.52	1,362	0.96	11.26	1,263	-0.20	10.44	48.11	19	822.70	1.38	2

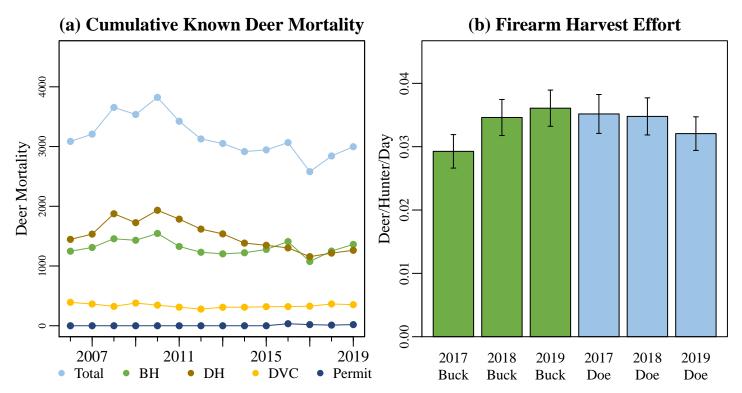


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 417 Square Miles of Deer Habitat: 121 Percent Deer Habitat: 29

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,974	896	1,073	5	0	767	885	244	58	18	2	0	0	0	0	0
2017	$1,\!694$	855	838	1	0	596	863	187	37	10	1	0	0	0	0	0
2018	1,867	882	982	3	0	720	875	219	47	6	0	0	0	0	0	0
2019	$1,\!977$	880	$1,\!095$	2	0	749	957	247	21	3	0	0	0	0	0	0

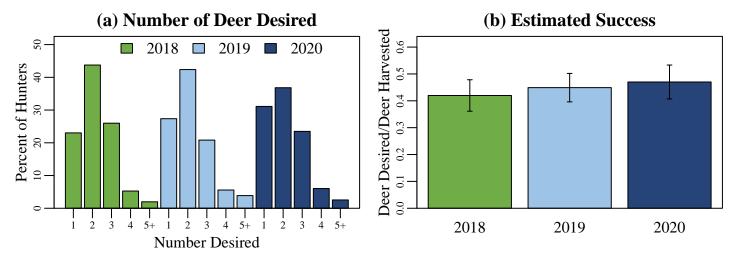


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Noble County Map

(b) Deer Habitat in Noble County

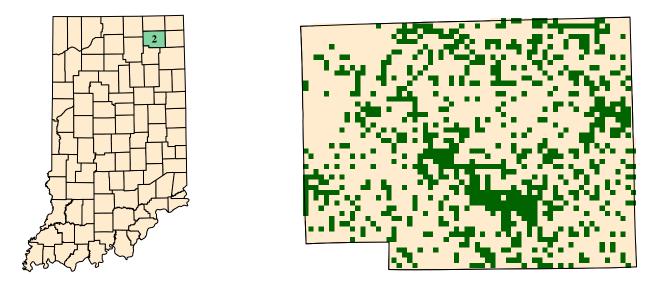


Figure 3. (a) Noble county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Noble county.

4/17/2020

#### **County Bonus Antlerless Quota**

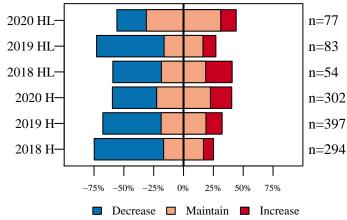


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

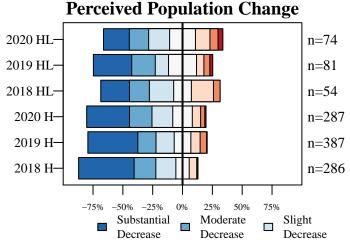


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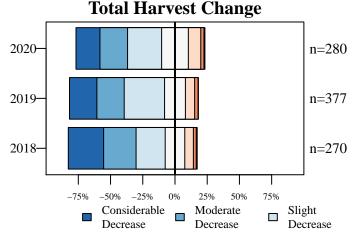


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

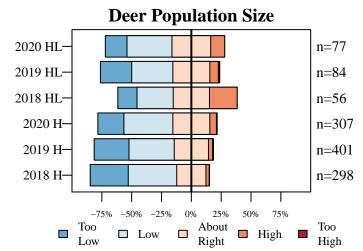
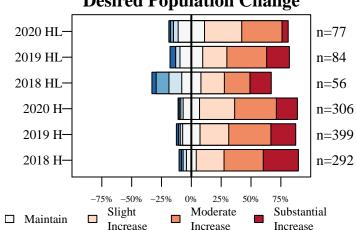


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

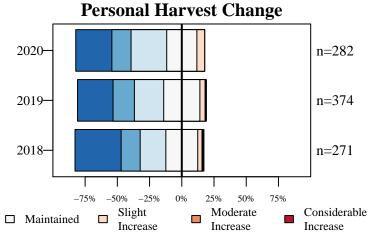


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

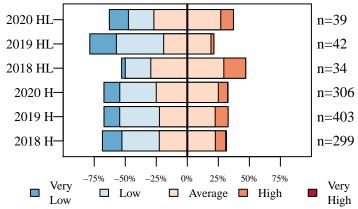
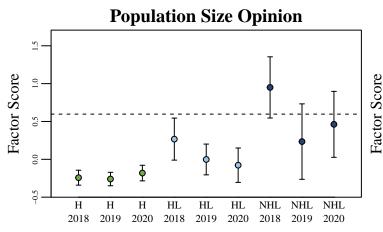


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



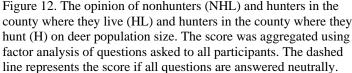




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

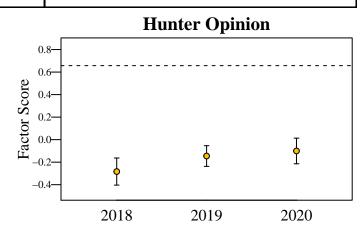


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#### **Management Opinion**

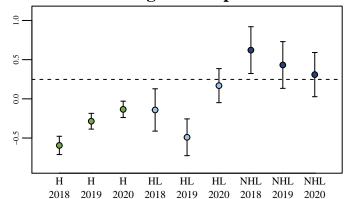


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

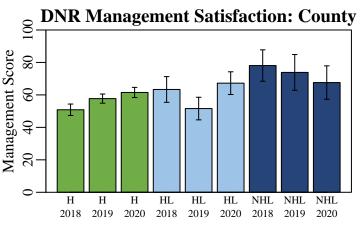


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 87 Square Miles of Deer Habitat: 73 Percent Deer Habitat: 84

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	949		402		5.43	547		7.39	57.64		1243.91		8
2007	1,013		444		6.00	569		7.69	56.17		1963.31		8
2008	1,002		404		5.46	598		8.08	59.68		1249.32		8
2009	$1,\!106$		525		7.09	581		7.85	52.53		1533.82		8
2010	$1,\!137$	1.80	541	1.58	7.31	596	1.22	8.05	52.42		1259.84	-0.57	8
2011	$1,\!129$	1.13	523	0.90	7.07	606	1.32	8.19	53.68		1298.74	-0.48	8
2012	$1,\!186$	1.67	490	0.04	6.62	696	7.15	9.41	58.68		1082.15	-1.25	8
2013	907	-3.01	430	-1.21	5.81	477	-3.01	6.45	52.59		1029.66	-1.57	8
2014	822	-2.51	406	-2.17	5.49	416	-2.24	5.62	50.61		377.37	-4.33	8
2015	810	-1.40	444	-0.58	6.00	366	-1.73	4.95	45.19		1159.26	0.40	8
2016	816	-0.88	453	-0.12	6.21	363	-1.09	4.97	44.49	66	892.29	-0.27	4
2017	729	-1.12	379	-2.12	5.19	350	-0.82	4.79	48.01	44	970.75	0.20	4
2018	539	-4.40	289	-4.44	3.96	250	-2.75	3.42	46.38	25	1157.31	0.90	3
2019	604	-1.16	348	-0.70	4.77	256	-1.53	3.51	42.38	52	1119.81	0.65	2

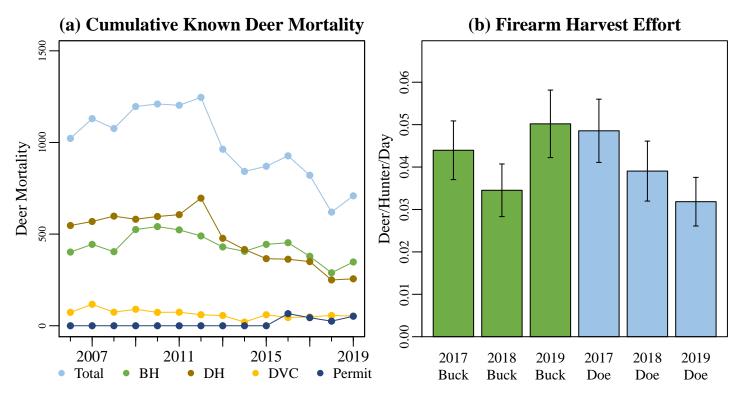


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 87 Square Miles of Deer Habitat: 73 Percent Deer Habitat: 84

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	629	239	389	1	0	299	246	75	7	2	0	0	0	0	0	0
2017	551	233	317	1	0	246	222	66	12	5	0	0	0	0	0	0
2018	436	185	251	0	0	195	198	39	4	0	0	0	0	0	0	0
2019	482	185	297	0	0	230	200	49	3	0	0	0	0	0	0	0

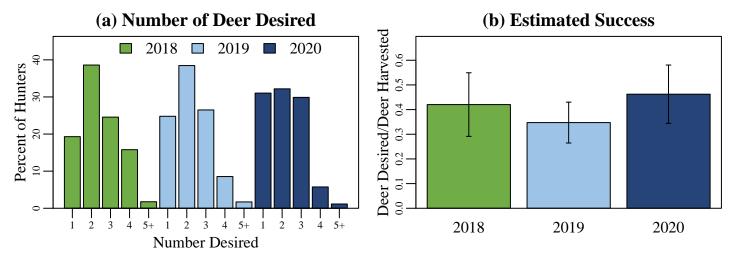


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Ohio County Map

(b) Deer Habitat in Ohio County

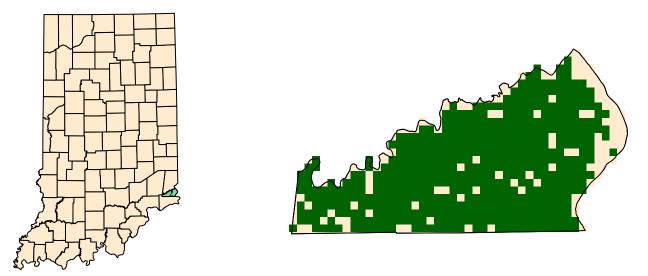


Figure 3. (a) Ohio county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Ohio county.

4/17/2020

#### **County Bonus Antlerless Quota**

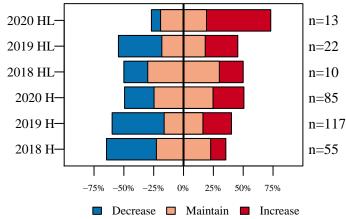


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

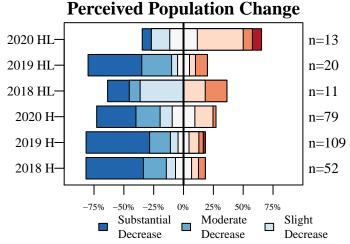


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

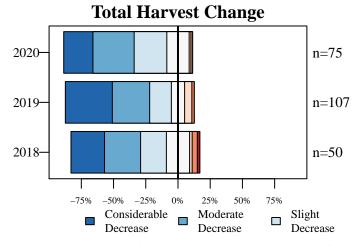


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

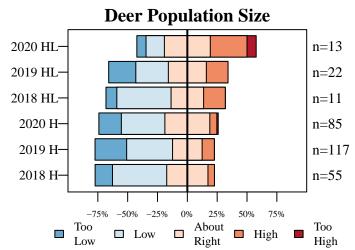


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

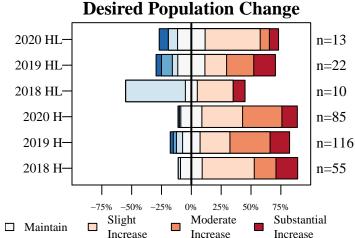


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

**Personal Harvest Change** 2020n=76 2019n=109 2018n=48 -75% -50% -25% 25% 50% 75% 0% Considerable Slight Moderate □ Maintained Increase Increase Increase

Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

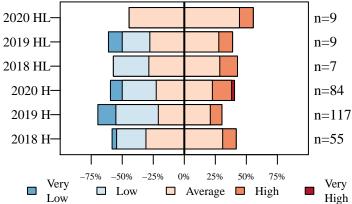


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

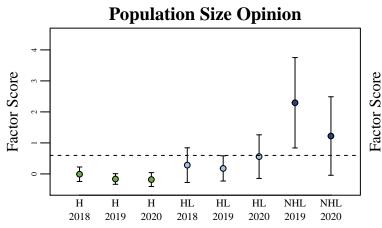


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

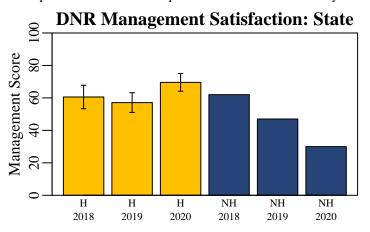


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

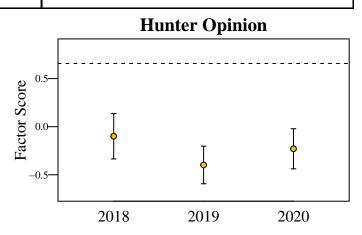


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

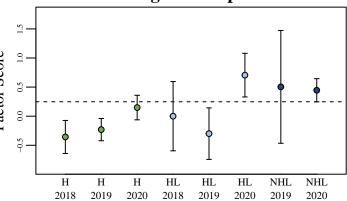


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

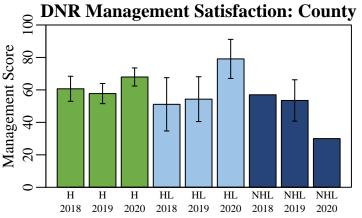


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 408 Square Miles of Deer Habitat: 303 Percent Deer Habitat: 74

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat		Tunon	Traveled	DIC	
2006	2,106		1,036		3.34	1,070		3.45	50.81		663.90		4
2007	1,780		881		2.84	899		2.90	50.51		664.64		4
2008	1,904		917		2.96	987		3.18	51.84		697.00		4
2009	2,018		997		3.22	1,021		3.29	50.59		735.40		4
2010	1,926	-0.36	959	-0.11	3.09	967	-0.59	3.12	50.21		632.76	-0.26	4
2011	1,937	-0.08	989	0.50	3.19	948	-0.64	3.06	48.94		681.40	0.07	4
2012	$2,\!100$	2.18	953	0.09	3.07	1,147	4.02	3.70	54.62		724.31	1.10	4
2013	2,366	4.79	$1,\!106$	4.49	3.57	1,260	3.11	4.06	53.25		788.81	2.34	4
2014	2,162	0.51	1,052	0.83	3.39	1,110	0.31	3.58	51.34		633.79	-1.34	4
2015	2,321	1.23	1,201	2.88	3.87	1,120	0.26	3.61	48.26		774.48	1.25	4
2016	$2,\!180$	0.02	1,169	1.11	3.86	1,011	-0.95	3.34	46.38	5	586.55	-2.08	4
2017	$2,\!124$	-0.90	1,068	-0.29	3.52	1,056	-0.82	3.49	49.72	33	887.00	2.10	4
2018	1,930	-2.83	1,003	-1.81	3.31	927	-1.96	3.06	48.03	3	763.37	0.24	4
2019	1,756	-2.75	939	-1.92	3.10	817	-2.88	2.70	46.53		647.62	-0.68	2

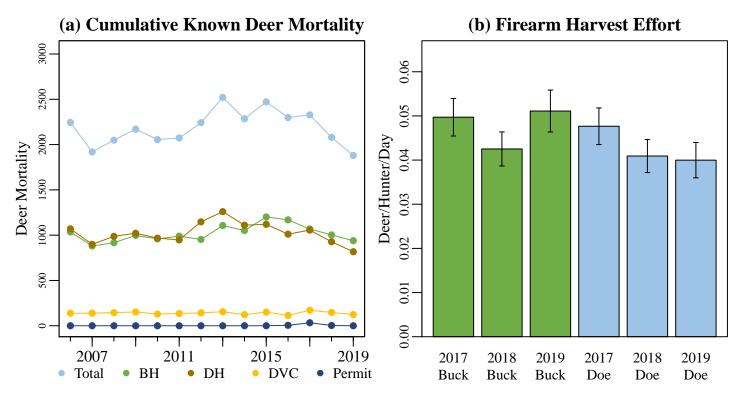


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 408 Square Miles of Deer Habitat: 303 Percent Deer Habitat: 74

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 ·s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	$1,\!630$	690	937	3	0	680	719	186	37	5	3	0	0	0	0	0
2017	$1,\!583$	734	847	2	0	626	716	189	34	14	3	1	0	0	0	0
2018	$1,\!443$	631	809	3	0	594	642	154	47	6	0	0	0	0	0	0
2019	$1,\!340$	590	746	4	0	552	606	156	21	4	1	0	0	0	0	0

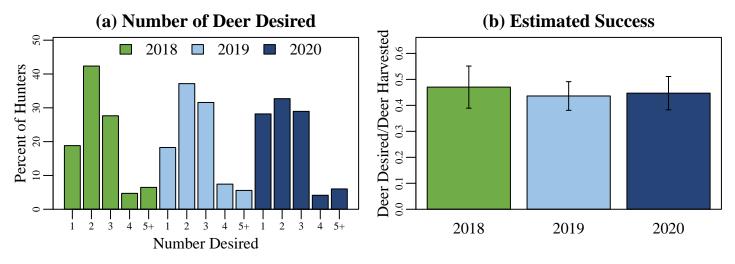


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Orange County Map



(b) Deer Habitat in Orange County

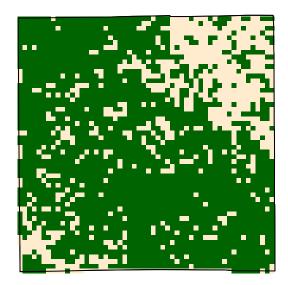


Figure 3. (a) Orange county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Orange county.

4/17/2020

#### **County Bonus Antlerless Quota**

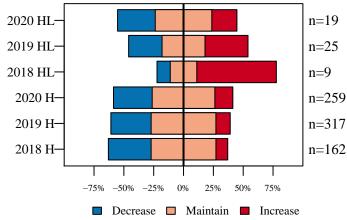


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

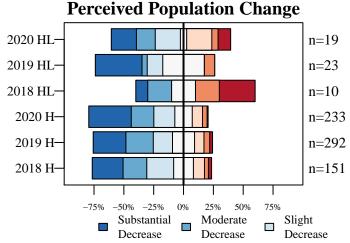


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

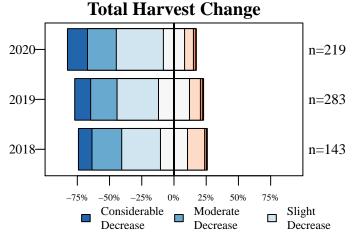


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

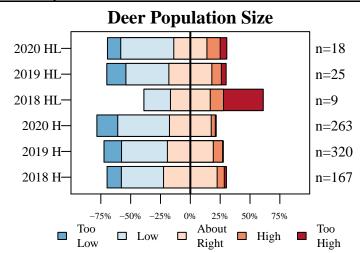


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

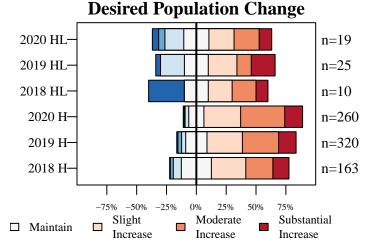


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

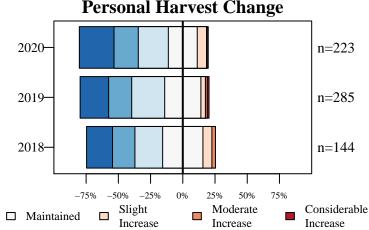


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

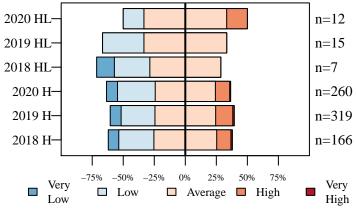


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

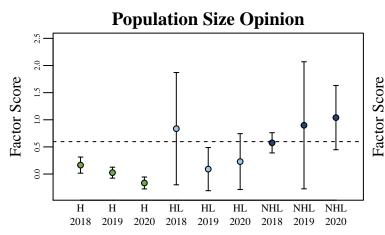


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

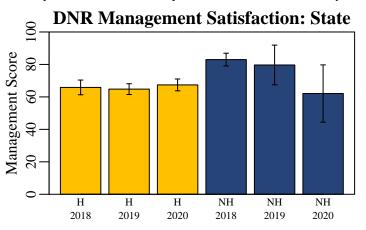


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

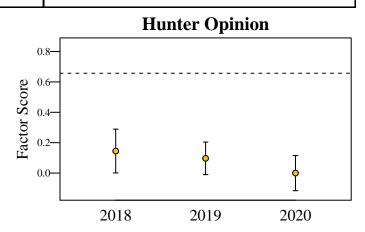
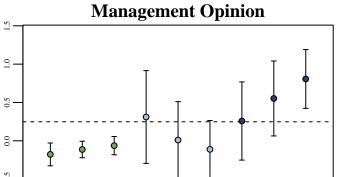


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



-0.5 Н Η Η HL HL HL NHL NHL NHL 2018 2019 2018 2019 2020 2018 2019 2020 2020 Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed

line represents the score if all questions are answered neutrally.

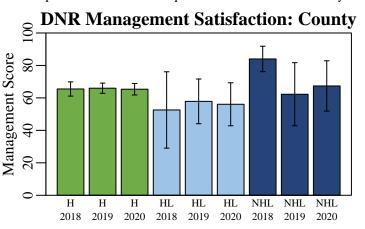


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 387 Square Miles of Deer Habitat: 277 Percent Deer Habitat: 72

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
					Habitat			Habitat			ITaveleu		
2006	1,337		749		2.51	588		1.97	43.98		397.83		2
2007	$1,\!458$		839		2.81	619		2.07	42.46		555.51		2
2008	$1,\!699$		921		3.08	778		2.60	45.79		491.74		3
2009	1,740		945		3.16	795		2.66	45.69		423.14		3
2010	1,698	0.92	909	0.68	3.04	789	1.10	2.64	46.47		408.93	-0.06	4
2011	1,701	0.64	913	0.51	3.05	788	0.73	2.64	46.33		477.87	0.34	4
2012	1,763	0.91	869	-0.92	2.91	894	1.85	2.99	50.71		470.97	-0.01	4
2013	1,769	1.64	956	1.62	3.20	813	0.09	2.72	45.96		443.38	-0.31	4
2014	1,567	-4.99	787	-3.84	2.63	780	-0.80	2.61	49.78		362.65	-2.76	4
2015	1,752	0.64	900	0.21	3.01	852	0.83	2.85	48.63		516.69	1.76	4
2016	1,913	2.40	1,032	2.33	3.73	881	1.17	3.18	46.05	21	432.35	-0.38	4
2017	1,801	0.39	931	0.24	3.36	870	0.55	3.14	48.31	24	507.65	1.11	4
2018	1,859	0.79	992	0.79	3.58	867	0.66	3.13	46.64	17	514.45	0.99	4
2019	1,712	-0.50	903	-0.27	3.26	809	-1.01	2.92	47.25	18	426.34	-0.59	2

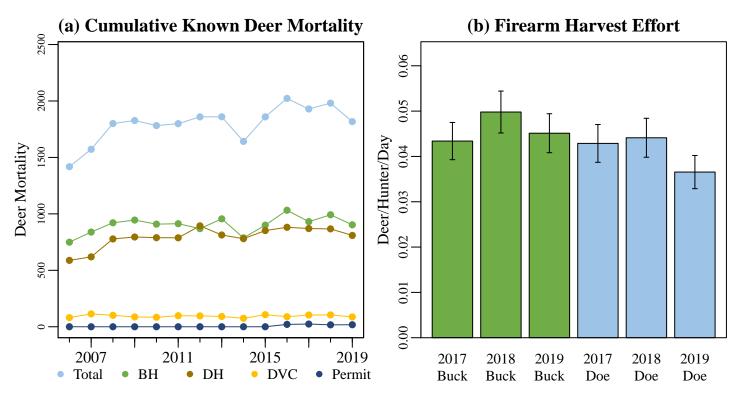


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 387 Square Miles of Deer Habitat: 277 Percent Deer Habitat: 72

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,505	682	821	1	1	646	679	139	36	4	0	1	0	0	0	0
2017	$1,\!413$	675	735	3	0	563	686	132	21	9	1	1	0	0	0	0
2018	$1,\!410$	640	767	3	0	585	621	162	32	6	3	1	0	0	0	0
2019	$1,\!315$	633	678	4	0	498	627	175	11	4	0	0	0	0	0	0

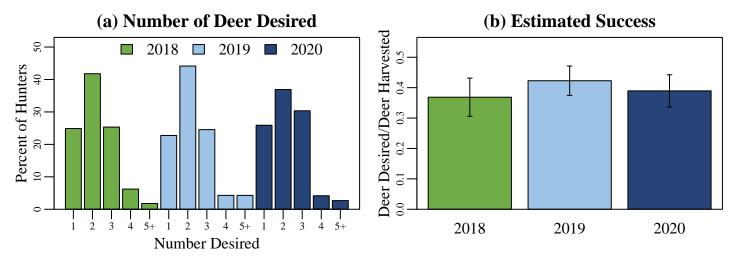


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Owen County Map



(b) Deer Habitat in Owen County

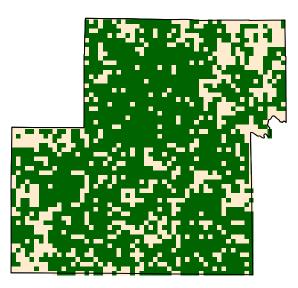


Figure 3. (a) Owen county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Owen county.

4/17/2020

#### **County Bonus Antlerless Quota**

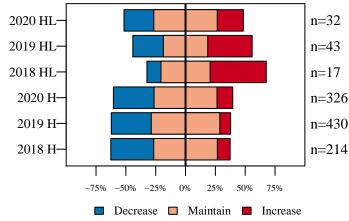


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

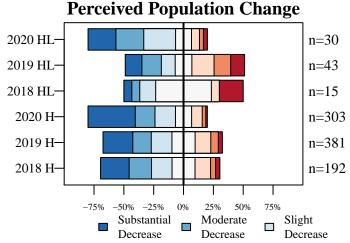


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

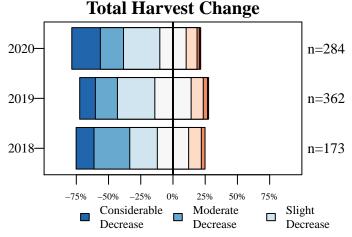


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

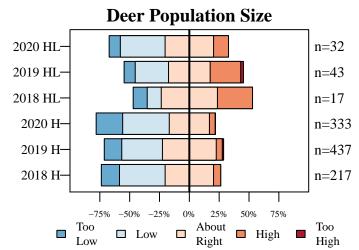
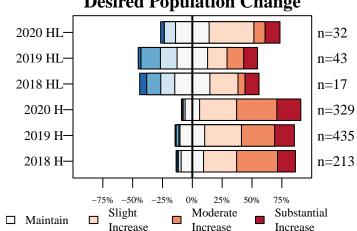


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

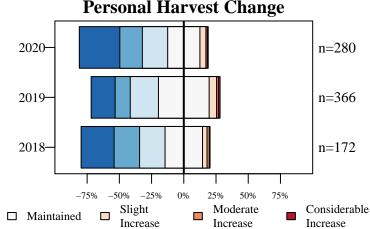


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020



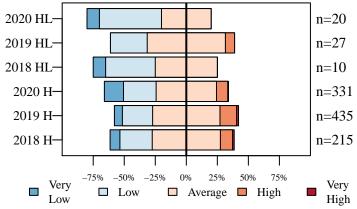
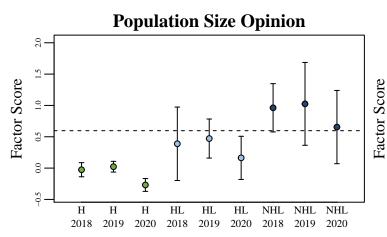
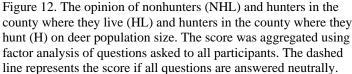


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





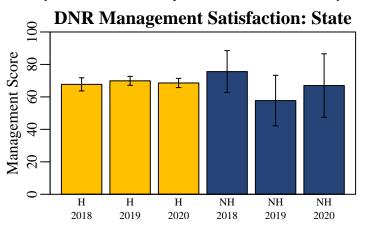


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

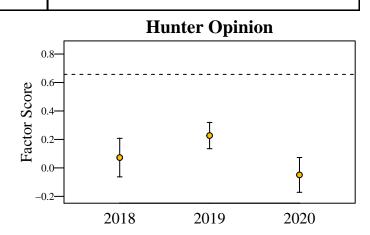


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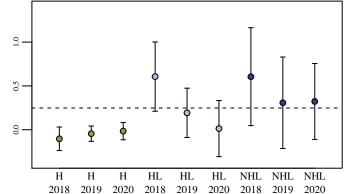


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

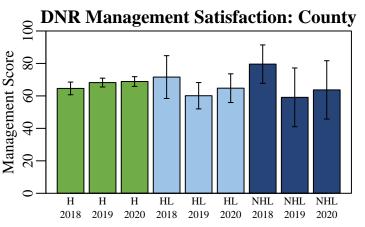


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 450 Square Miles of Deer Habitat: 202 Percent Deer Habitat: 45

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	2,848		1,323		6.30	1,525		7.26	53.55		744.96		8
2007	2,714		1,362		6.49	1,352		6.44	49.82		883.52		4
2008	2,832		1,360		6.48	1,472		7.01	51.98		906.07		8
2009	2,901		1,414		6.73	$1,\!487$		7.08	51.26		901.01		8
2010	2,830	-0.34	1,417	0.43	6.75	1,413	-0.82	6.73	49.93		797.76	-0.51	8
2011	2,669	-2.28	$1,\!334$	-1.03	6.35	1,335	-1.69	6.36	50.02		902.20	0.77	8
2012	2,975	1.96	$1,\!341$	-1.00	6.39	$1,\!634$	3.25	7.78	54.92		738.68	-3.05	8
2013	2,502	-3.00	1,218	-3.90	5.80	1,284	-1.67	6.11	51.32		663.01	-2.42	8
2014	2,379	-2.08	$1,\!159$	-2.30	5.52	1,220	-1.53	5.81	51.28		619.27	-1.74	8
2015	$2,\!456$	-0.89	$1,\!175$	-1.15	5.60	1,281	-0.60	6.10	52.16		705.76	-0.34	8
2016	$2,\!437$	-0.67	1,289	0.50	6.38	$1,\!148$	-1.24	5.68	47.11	4	662.61	-0.58	8
2017	$2,\!150$	-1.65	$1,\!105$	-1.70	5.47	1,045	-1.43	5.17	48.60	6	710.60	0.72	8
2018	2,305	-0.58	$1,\!180$	-0.13	5.84	$1,\!125$	-0.70	5.57	48.81	8	729.35	1.53	4
2019	$1,\!964$	-3.07	$1,\!057$	-1.86	5.23	907	-2.84	4.49	46.18	3	575.94	-2.47	2

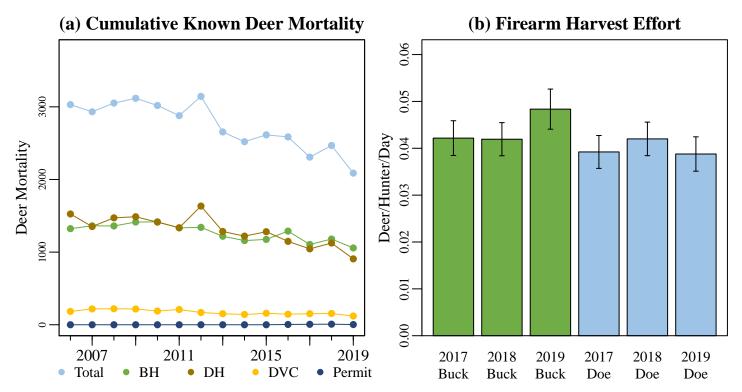


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 450 Square Miles of Deer Habitat: 202 Percent Deer Habitat: 45

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,774	723	1,048	3	0	765	734	215	35	18	3	2	1	1	0	0
2017	$1,\!541$	664	876	0	1	656	635	172	46	17	7	5	3	0	0	0
2018	$1,\!681$	754	924	3	0	659	749	206	56	9	2	0	0	0	0	0
2019	$1,\!483$	653	828	2	0	575	701	191	15	1	0	0	0	0	0	0

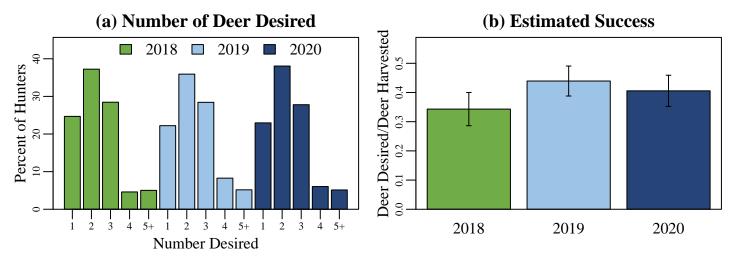


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Parke County Map



(b) Deer Habitat in Parke County

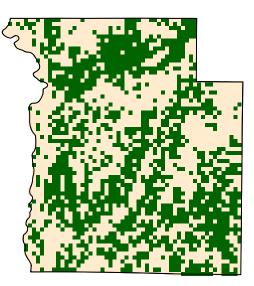


Figure 3. (a) Parke county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Parke county.

4/17/2020

#### **County Bonus Antlerless Quota**

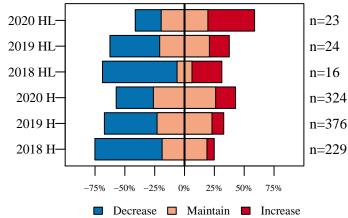


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

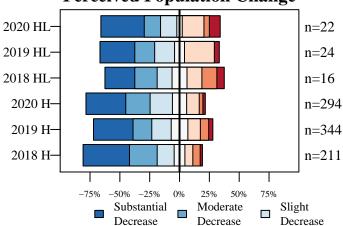


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

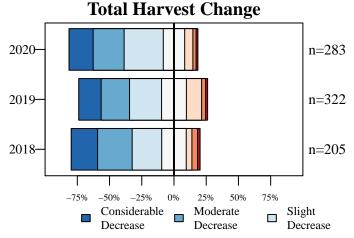


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

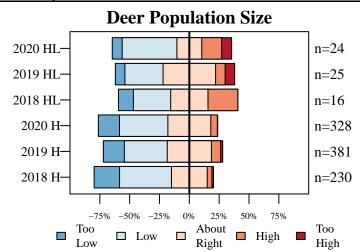


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

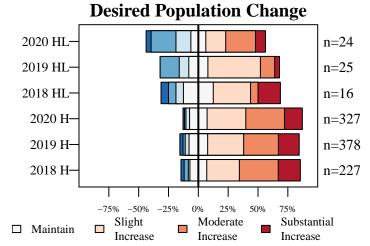


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

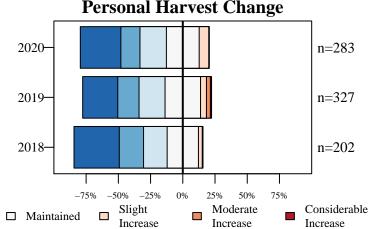


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

#### **Perceived Population Change**

4/17/2020

#### **Buck Quality**

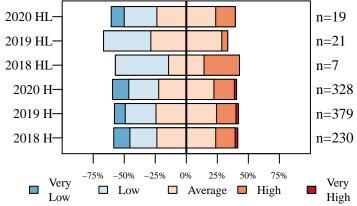


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

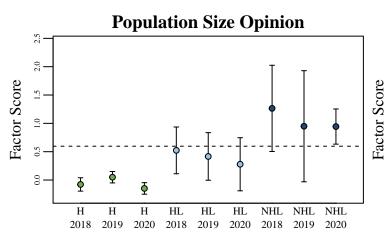


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

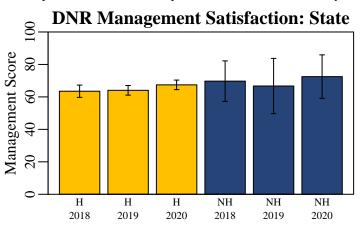


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

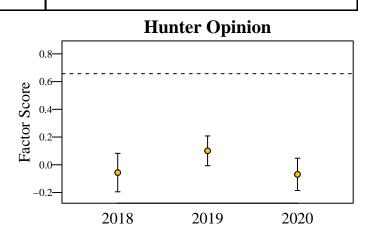


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



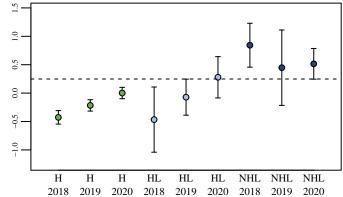


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

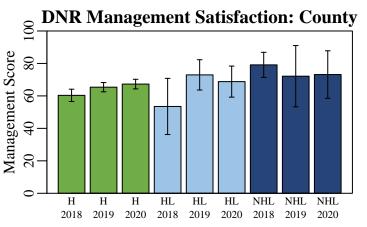


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 386 Square Miles of Deer Habitat: 323 Percent Deer Habitat: 84

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	$2,\!256$		$1,\!172$		3.54	1,084		3.27	48.05		476.57		2
2007	1,745		885		2.67	860		2.60	49.28		369.67		4
2008	1,783		874		2.64	909		2.75	50.98		356.08		4
2009	1,732		960		2.90	772		2.33	44.57		234.75		4
2010	1,529	-1.65	799	-1.52	2.41	730	-1.59	2.21	47.74		316.60	-0.39	4
2011	1,772	-0.14	873	-0.46	2.64	899	0.20	2.72	50.73		352.04	0.01	4
2012	$1,\!675$	-0.36	853	-0.44	2.58	822	-0.15	2.48	49.07		323.06	-0.05	3
2013	1,906	2.01	983	1.92	2.97	923	1.24	2.79	48.43		251.71	-1.33	3
2014	$1,\!805$	0.60	910	0.21	2.75	895	0.80	2.70	49.58		355.35	1.19	3
2015	$1,\!945$	1.45	1,043	2.33	3.15	902	0.61	2.73	46.38		427.19	2.58	3
2016	$1,\!872$	0.48	991	0.74	3.07	881	-0.19	2.73	47.06	70	375.60	0.53	4
2017	$1,\!990$	1.41	965	0.12	2.99	1,025	3.68	3.17	51.51	118	430.76	1.29	4
2018	1,745	-2.25	876	-2.13	2.71	869	-0.97	2.69	49.80	91	345.01	-0.32	4
2019	$1,\!603$	-2.69	837	-1.82	2.59	766	-2.35	2.37	47.79	66	393.68	0.17	2

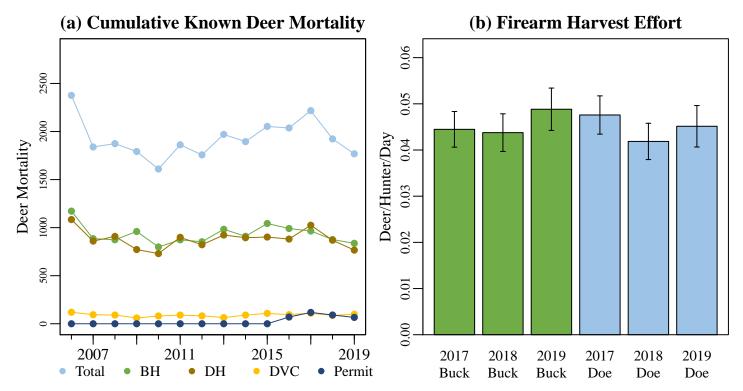


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 386 Square Miles of Deer Habitat: 323 Percent Deer Habitat: 84

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\mathrm{AL}}^{6}$	7 AL	${}^{8}_{\mathrm{AL}}$	9 AL	10 AL
2016	1,462	610	852	0	0	665	611	158	21	5	2	0	0	0	0	0
2017	$1,\!486$	725	759	2	0	557	696	178	45	10	0	0	0	0	0	0
2018	$1,\!350$	630	720	0	0	547	615	159	24	5	0	0	0	0	0	0
2019	$1,\!275$	600	671	4	0	507	617	146	5	0	0	0	0	0	0	0

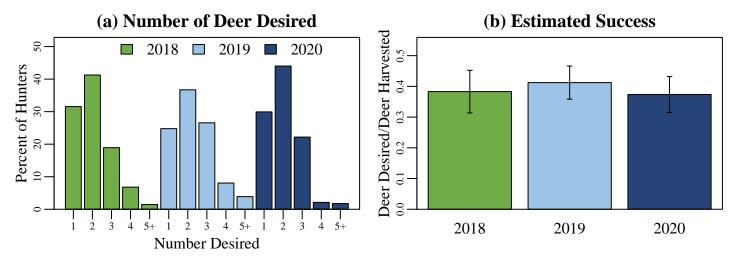


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Perry County Map



(b) Deer Habitat in Perry County

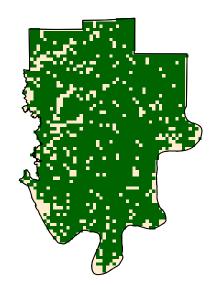


Figure 3. (a) Perry county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Perry county.

4/17/2020

#### **County Bonus Antlerless Quota**

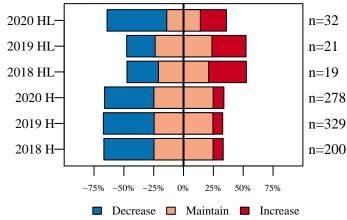


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

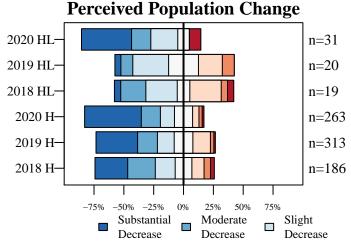


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

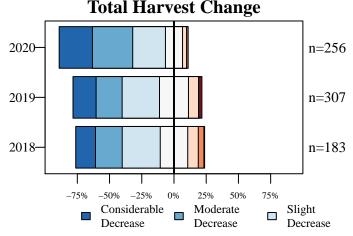


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

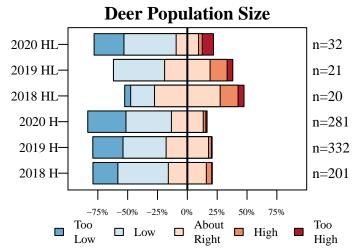
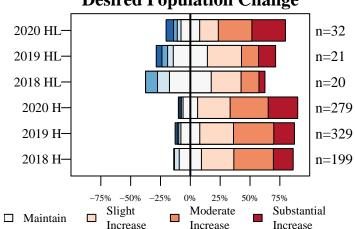


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

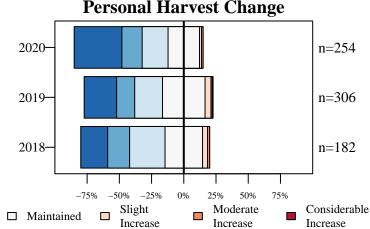


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

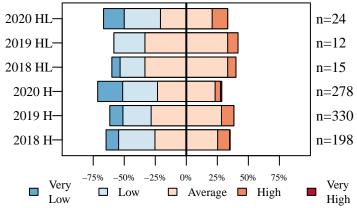


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

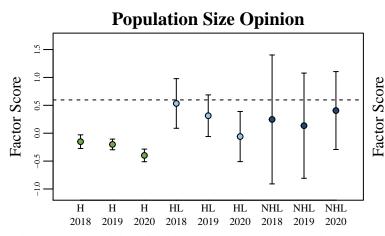


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

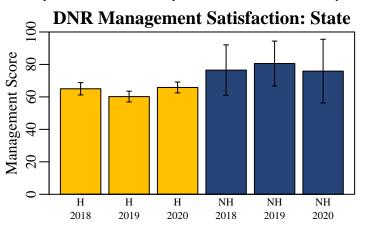


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

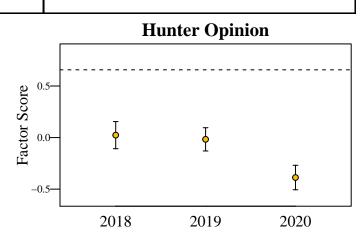
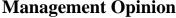


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



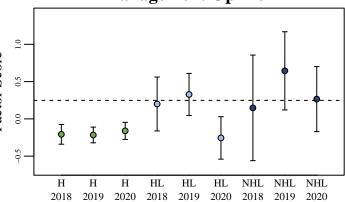


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

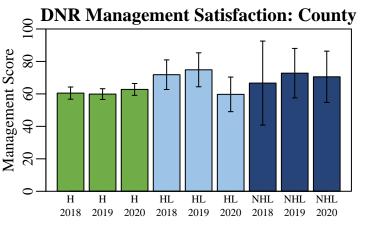


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

### **Pike County**

4/17/2020

Total Square Miles: 341 Square Miles of Deer Habitat: 183 Percent Deer Habitat: 54

Year	Total	Total Trend	Buck Harvest	Buck Trend	Buck Harvest	Doe Harvest	Doe Trend	Doe Harvest	% Doe in	Damage Permit	DVC per	Total Trend	CBAQ
		in SD		in SD	per SQ		in $SD$	per SQ	Harvest	Deer	Billion	in	
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	2,007		960		5.45	1,047		5.95	52.17		156.20		3
2007	1,302		643		3.65	659		3.74	50.61		112.75		4
2008	$1,\!436$		739		4.20	697		3.96	48.54		122.85		4
2009	1,466		766		4.35	700		3.98	47.75		91.94		4
2010	$1,\!534$	-0.29	817	0.04	4.64	717	-0.54	4.07	46.74		127.37	0.24	3
2011	1,557	0.03	822	0.32	4.67	735	-0.18	4.18	47.21		123.98	0.08	3
2012	1,329	-1.29	693	-0.88	3.94	636	-2.32	3.61	47.86		116.00	0.02	3
2013	1,418	-0.51	741	-0.49	4.21	677	-0.54	3.85	47.74		147.63	2.18	3
2014	1,510	0.53	772	0.08	4.39	738	1.17	4.19	48.87		158.99	1.86	3
2015	1,533	0.67	814	0.83	4.62	719	0.42	4.09	46.90		231.93	5.44	3
2016	$1,\!481$	0.12	785	0.31	4.29	696	-0.11	3.80	47.00		118.85	-0.80	3
2017	$1,\!424$	-0.37	756	-0.11	4.13	668	-0.64	3.65	46.91	19	83.24	-1.52	2
2018	$1,\!472$	-0.02	798	0.87	4.36	674	-0.88	3.68	45.79	2	124.01	-0.44	2
2019	$1,\!545$	1.48	853	3.03	4.66	692	-0.24	3.78	44.79	10	128.82	-0.26	2

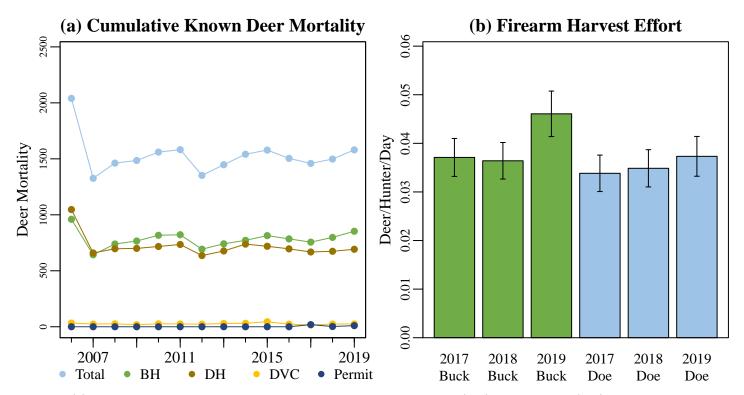


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

### **Pike County**

4/17/2020

Total Square Miles: 341 Square Miles of Deer Habitat: 183 Percent Deer Habitat: 54

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	${}^{8}_{\mathrm{AL}}$	9 AL	10 AL
2016	$1,\!176$	514	662	0	0	516	513	136	10	1	0	0	0	0	0	0
2017	$1,\!128$	503	620	5	0	458	556	104	10	0	0	0	0	0	0	0
2018	$1,\!155$	491	661	3	0	498	523	123	8	3	0	0	0	0	0	0
2019	$1,\!203$	495	705	3	0	513	550	136	4	0	0	0	0	0	0	0

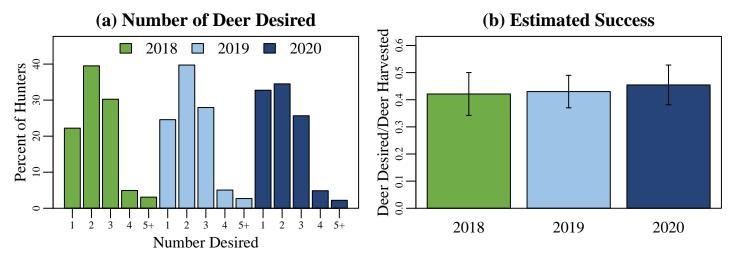


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Pike County Map



(b) Deer Habitat in Pike County

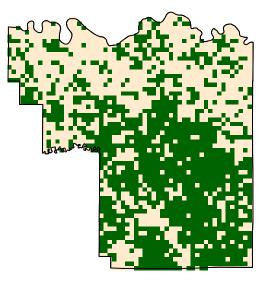


Figure 3. (a) Pike county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Pike county.

### **Pike County**

4/17/2020

#### **County Bonus Antlerless Quota**

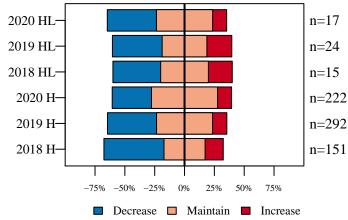


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

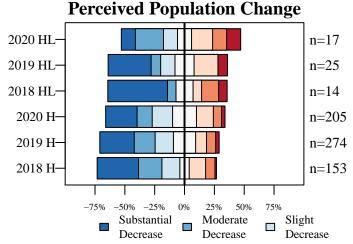


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

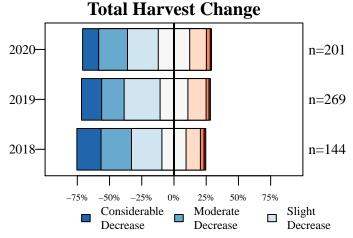


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

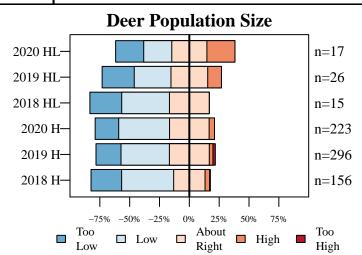
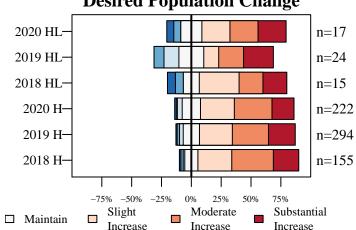


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

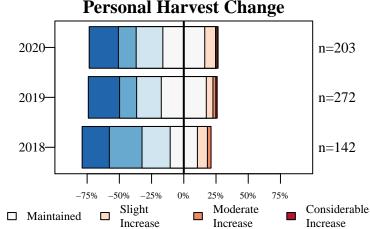


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

### **Pike County**

4/17/2020

#### **Buck Quality**

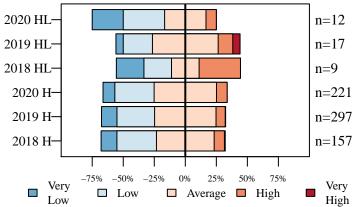
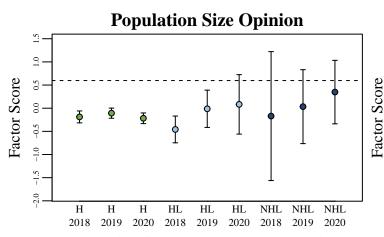


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



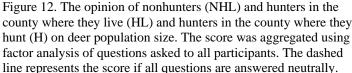




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

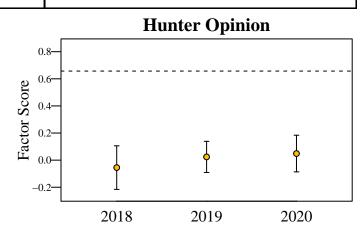


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

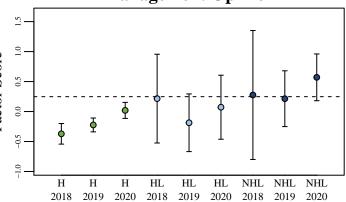


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

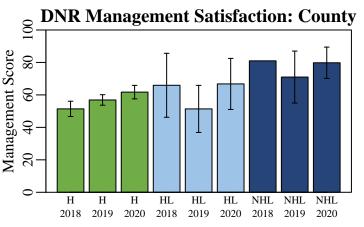


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 522 Square Miles of Deer Habitat: 116 Percent Deer Habitat: 22

Year	Total	Total	Buck	Buck	Buck	Doe	Doe	Doe	% Doe	Damage	DVC	Total	CBAQ
		Trend	Harvest	Trend	Harvest	Harvest	Trend	Harvest	in TTt	Permit	per D:11:	Trend	
		in $SD$		in SD	per SQ		in SD	per SQ	Harvest	Deer	Billion	in	
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	$1,\!194$		628		4.39	566		3.96	47.40		245.11		3
2007	1,317		672		4.70	645		4.51	48.97		256.00		4
2008	$1,\!411$		723		5.06	688		4.81	48.76		256.04		4
2009	$1,\!476$		702		4.91	774		5.41	52.44		263.52		8
2010	$1,\!633$	2.41	750	1.89	5.24	883	2.53	6.17	54.07		240.65	-0.78	8
2011	$1,\!375$	-0.19	689	-0.13	4.82	686	-0.21	4.80	49.89		235.04	-1.87	8
2012	$1,\!625$	1.51	620	-2.88	4.34	1,005	2.84	7.03	61.85		185.92	-5.41	8
2013	1,573	0.58	606	-1.86	4.24	967	1.17	6.76	61.47		183.30	-1.74	8
2014	1,385	-1.38	556	-1.96	3.89	829	-0.26	5.80	59.86		177.64	-1.24	4
2015	1,509	-0.07	660	0.21	4.62	849	-0.20	5.94	56.26		171.29	-1.08	4
2016	$1,\!453$	-0.36	616	-0.20	5.31	837	-0.24	7.22	57.60	22	155.73	-1.37	8
2017	1,244	-2.79	546	-1.76	4.71	698	-2.42	6.02	56.11	91	158.52	-1.35	4
2018	1,358	-0.59	657	1.29	5.66	701	-1.41	6.04	51.62	55	154.22	-1.26	3
2019	1,468	0.78	707	1.85	6.09	761	-0.29	6.56	51.84	17	165.00	0.15	2

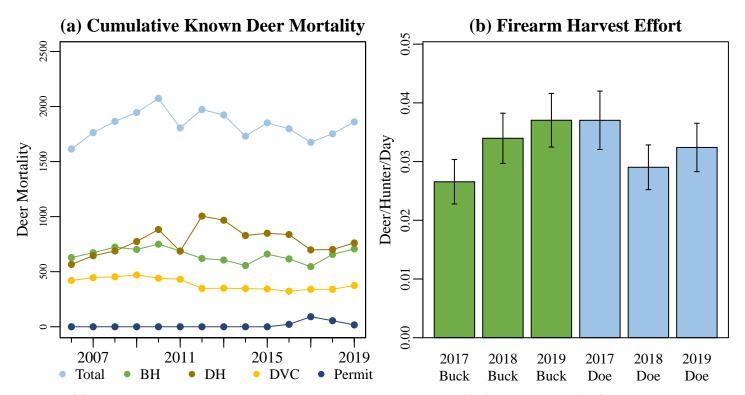


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 522 Square Miles of Deer Habitat: 116 Percent Deer Habitat: 22

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	976	513	451	11	1	268	531	119	37	12	6	2	1	0	0	0
2017	846	446	378	22	0	224	480	107	23	7	2	1	1	1	0	0
2018	892	408	460	24	0	280	454	107	36	11	1	2	0	0	0	0
2019	952	406	516	30	0	284	515	114	26	5	5	1	0	1	0	0

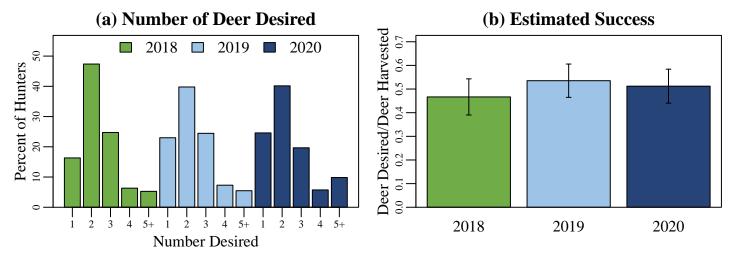


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Porter County Map



(b) Deer Habitat in Porter County

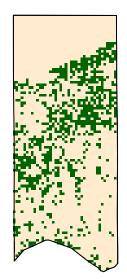


Figure 3. (a) Porter county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Porter county.

4/17/2020

#### **County Bonus Antlerless Quota**

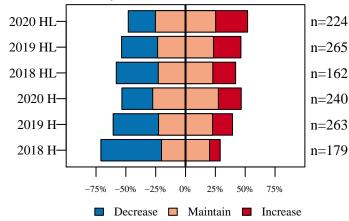


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

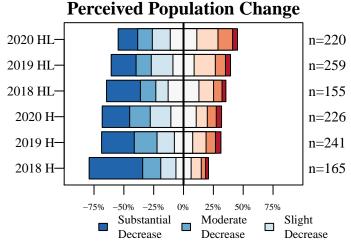


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

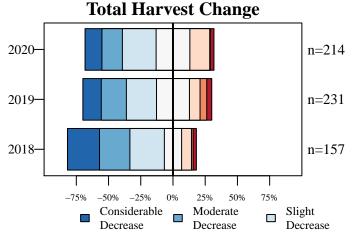
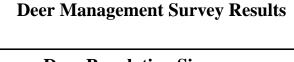


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



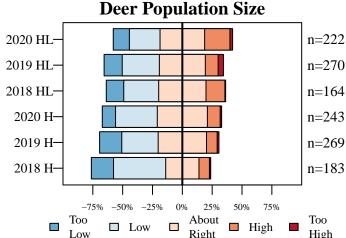
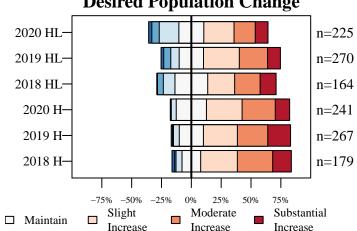


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

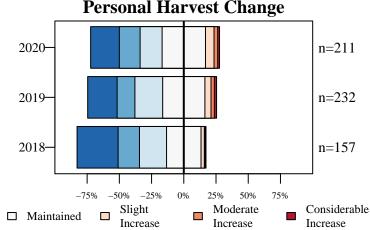


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

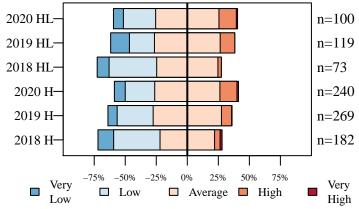
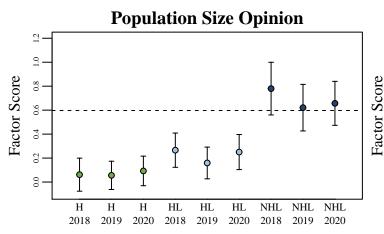
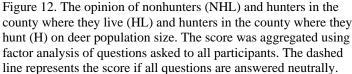


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





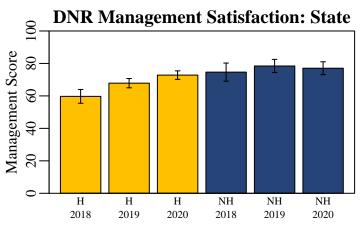


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

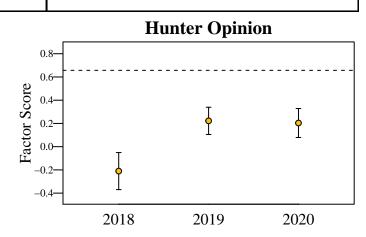


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

### Management Opinion

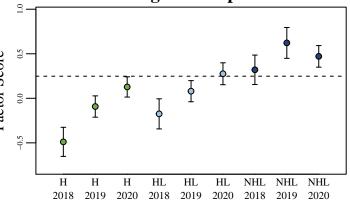


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

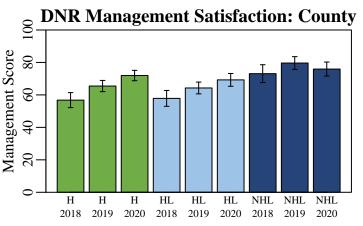


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 419 Square Miles of Deer Habitat: 97 Percent Deer Habitat: 23

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,498		791		9.42	707		8.42	47.20		181.52		2
2007	$1,\!653$		879		10.46	774		9.21	46.82		194.66		3
2008	1,722		869		10.35	853		10.15	49.54		224.76		3
2009	$1,\!673$		865		10.30	808		9.62	48.30		209.59		4
2010	1,500	-0.80	730	-2.69	8.69	770	0.16	9.17	51.33		195.09	-0.08	4
2011	$1,\!550$	-0.57	746	-1.25	8.88	804	0.40	9.57	51.87		265.72	3.91	4
2012	$1,\!485$	-1.47	731	-1.19	8.70	754	-1.43	8.98	50.77		220.09	0.07	4
2013	$1,\!372$	-2.02	684	-1.44	8.14	688	-2.86	8.19	50.15		297.73	2.82	3
2014	$1,\!383$	-1.22	736	-0.22	8.76	647	-2.42	7.70	46.78		348.39	2.59	3
2015	1,239	-2.83	661	-2.68	7.87	578	-2.42	6.88	46.65		312.49	0.77	3
2016	$1,\!154$	-2.12	627	-2.29	6.46	527	-1.89	5.43	45.67	23	235.47	-1.10	2
2017	1,089	-1.83	601	-1.87	6.20	488	-1.69	5.03	44.81	36	308.89	0.48	1
2018	$1,\!053$	-1.49	593	-1.32	6.11	460	-1.52	4.74	43.68	7	318.75	0.44	1
2019	$1,\!128$	-0.42	655	0.20	6.75	473	-0.90	4.88	41.93	23	259.35	-1.09	1

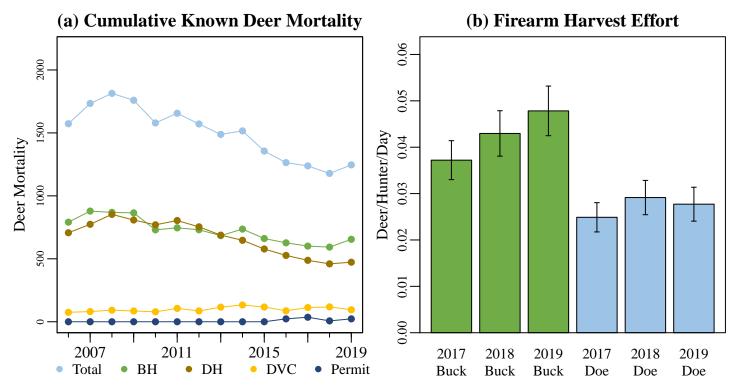


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 419 Square Miles of Deer Habitat: 97 Percent Deer Habitat: 23

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	926	374	552	0	0	427	406	85	6	2	0	0	0	0	0	0
2017	902	401	500	1	0	392	439	65	6	0	0	0	0	0	0	0
2018	852	341	509	2	0	392	387	67	5	1	0	0	0	0	0	0
2019	918	342	574	2	0	440	413	58	7	0	0	0	0	0	0	0

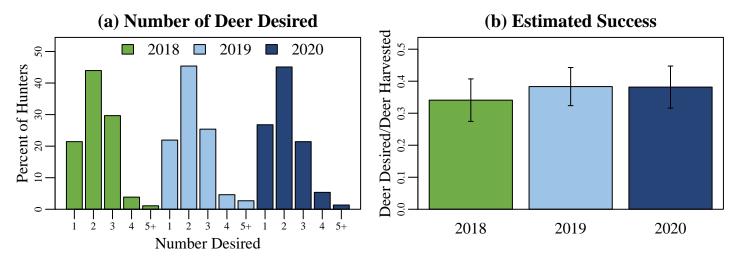


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Posey County Map



(b) Deer Habitat in Posey County

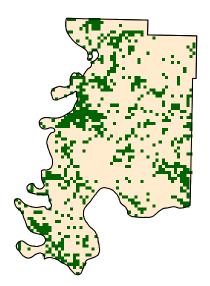


Figure 3. (a) Posey county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Posey county.

4/17/2020

#### **County Bonus Antlerless Quota**

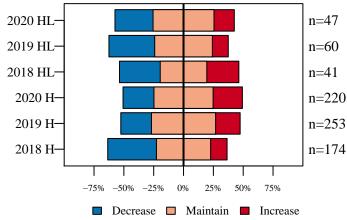


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

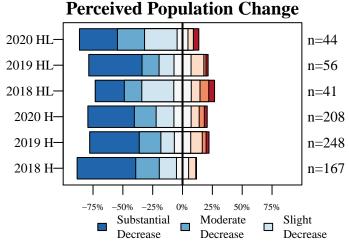


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

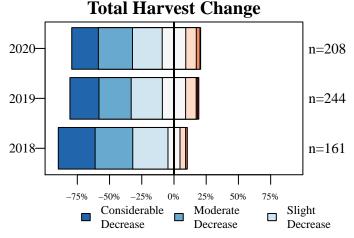


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

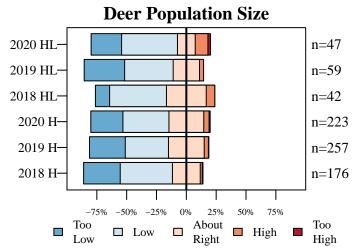
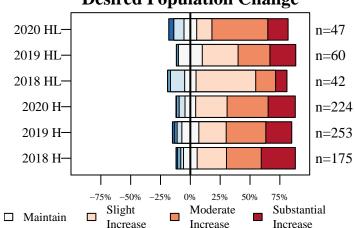


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

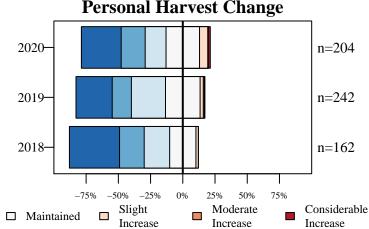


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020



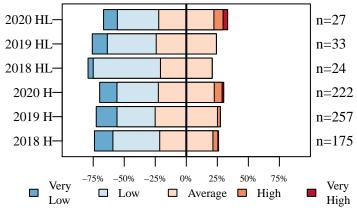
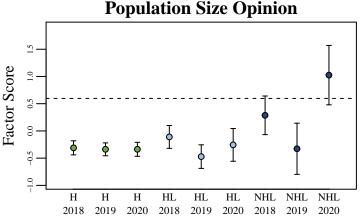


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



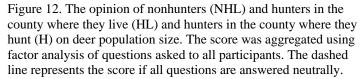




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

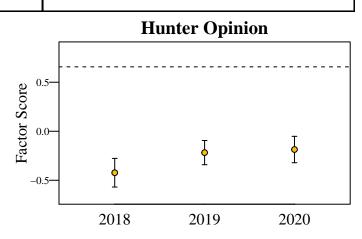


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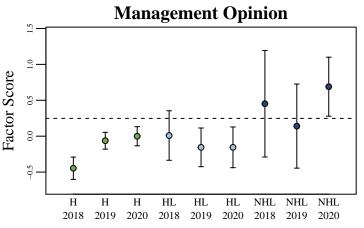


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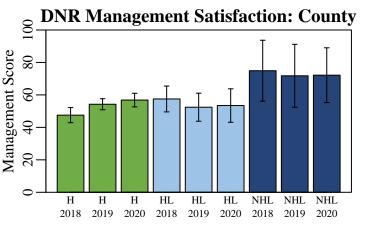


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4/17/2020

Total Square Miles: 434 Square Miles of Deer Habitat: 61 Percent Deer Habitat: 14

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
					Habitat			Habitat			Haveled		
2006	$1,\!399$		761		11.03	638		9.25	45.60		1224.69		2
2007	$1,\!438$		798		11.57	640		9.28	44.51		1130.68		2
2008	$1,\!670$		889		12.88	781		11.32	46.77		1256.28		3
2009	$1,\!693$		848		12.29	845		12.25	49.91		1371.43		4
2010	1,934	2.64	958	2.66	13.88	976	2.50	14.14	50.47		1155.05	-0.43	4
2011	1,817	0.88	917	0.86	13.29	900	0.86	13.04	49.53		1169.86	-0.61	8
2012	2,139	2.31	1,003	1.96	14.54	1,136	2.41	16.46	53.11		1142.17	-0.76	8
2013	1,916	0.34	930	0.12	13.48	986	0.43	14.29	51.46		1044.44	-1.81	8
2014	1,834	-0.40	875	-0.99	12.68	959	-0.09	13.90	52.29		1033.76	-1.20	8
2015	1,932	0.03	961	0.51	13.93	971	-0.23	14.07	50.26		950.92	-2.44	8
2016	1,867	-0.47	930	-0.15	15.25	937	-0.61	15.36	50.19	36	1004.40	-0.72	8
2017	1,719	-1.83	814	-2.68	13.34	905	-1.17	14.84	52.65	10	1073.48	0.55	4
2018	1,700	-1.81	893	-0.15	14.64	807	-4.57	13.23	47.47	14	978.00	-0.93	3
2019	$1,\!669$	-1.43	921	0.47	15.10	748	-2.55	12.26	44.82	34	1057.55	1.04	2

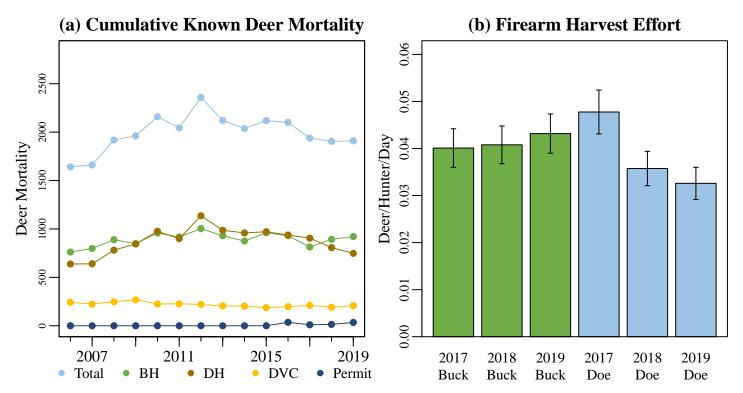


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4/17/2020

Total Square Miles: 434 Square Miles of Deer Habitat: 61 Percent Deer Habitat: 14

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	$1,\!297$	572	723	2	0	503	553	176	42	13	4	5	1	0	0	0
2017	1,210	575	634	1	0	415	577	161	44	13	0	0	0	0	0	0
2018	1,226	519	704	3	0	493	527	165	34	4	3	0	0	0	0	0
2019	$1,\!232$	473	754	4	1	512	558	144	14	4	0	0	0	0	0	0

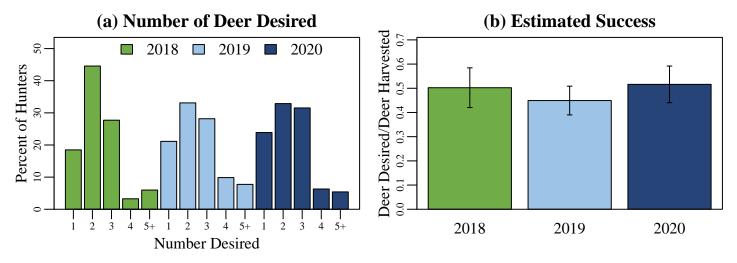


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Pulaski County Map



(b) Deer Habitat in Pulaski County

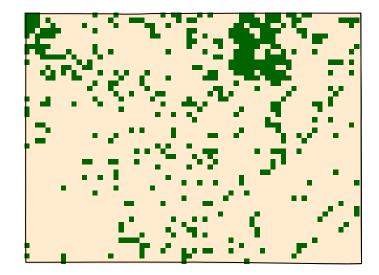


Figure 3. (a) Pulaski county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Pulaski county.

4/17/2020

#### **County Bonus Antlerless Quota**

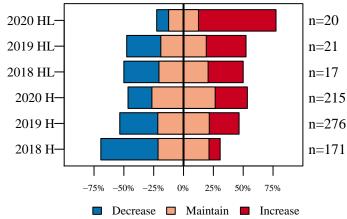


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

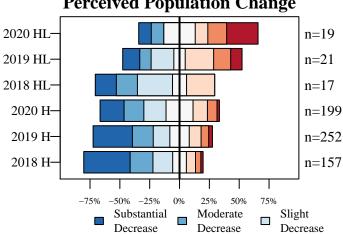


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

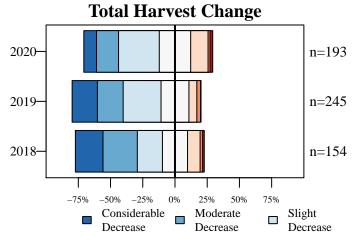
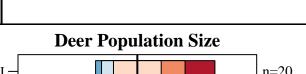


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

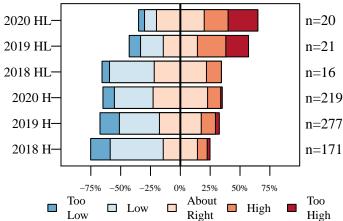


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

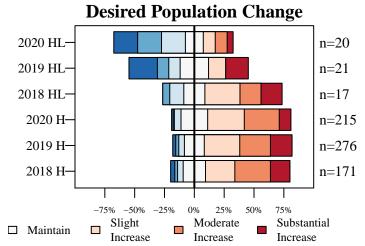


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

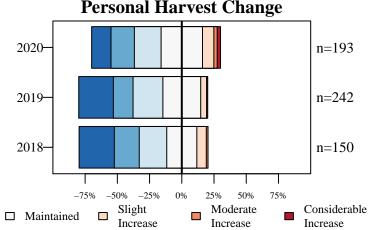


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

#### **Perceived Population Change**

4/17/2020

### **Buck Quality**

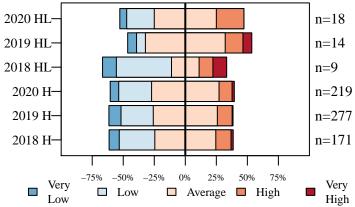


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

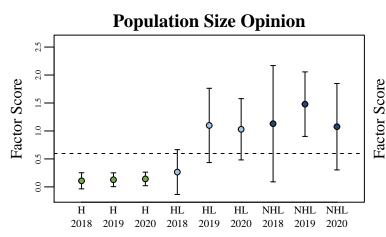


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

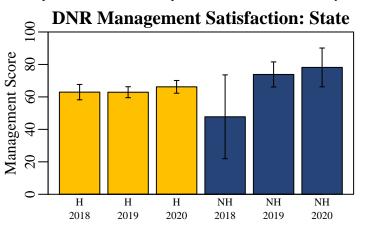


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

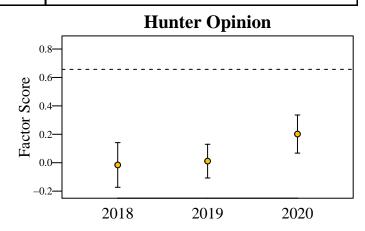


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

### Management Opinion

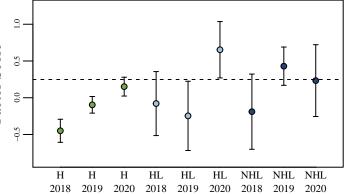


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

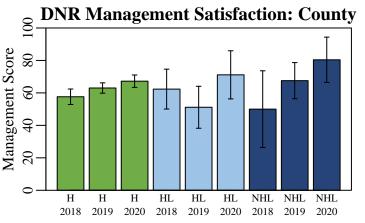


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 483 Square Miles of Deer Habitat: 209 Percent Deer Habitat: 43

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,758		926		4.33	832		3.89	47.33		157.21		4
2007	1,722		976		4.56	746		3.49	43.32		220.53		3
2008	1,800		972		4.54	828		3.87	46.00		199.62		4
2009	2,044		1,097		5.13	947		4.43	46.33		189.69		4
2010	2,214	2.45	$1,\!176$	2.00	5.50	1,038	2.57	4.85	46.88		208.19	0.65	8
2011	2,217	1.45	$1,\!121$	0.88	5.24	1,096	1.90	5.12	49.44		179.14	-0.66	8
2012	1,948	-0.22	944	-1.37	4.41	1,004	0.50	4.69	51.54		134.45	-4.05	8
2013	1,778	-1.49	957	-1.05	4.47	821	-1.59	3.84	46.18		128.31	-1.87	4
2014	$1,\!697$	-1.84	938	-1.17	4.38	759	-2.12	3.55	44.73		109.24	-1.68	4
2015	1,770	-0.83	978	-0.44	4.57	792	-1.04	3.70	44.75		233.54	2.01	4
2016	$1,\!847$	-0.17	1,062	0.98	5.08	785	-0.74	3.76	42.50		272.61	2.32	4
2017	1,769	-0.41	922	-1.06	4.41	847	0.15	4.05	47.88		280.59	1.45	4
2018	$1,\!893$	2.27	1,072	1.84	5.13	821	0.59	3.93	43.37		307.65	1.27	4
2019	1,743	-0.69	1,016	0.31	4.86	727	-2.17	3.48	41.71		245.64	0.06	2

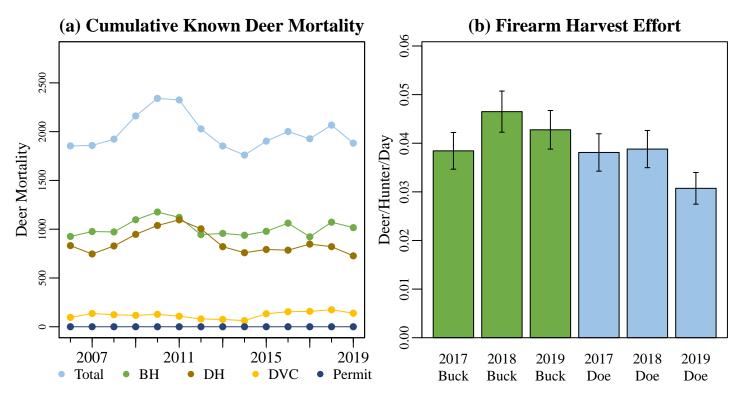


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 483 Square Miles of Deer Habitat: 209 Percent Deer Habitat: 43

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\mathrm{AL}}^{6}$	7 AL	${}^{8}_{\mathrm{AL}}$	9 AL	10 AL
2016	1,465	556	907	2	0	729	585	115	27	5	4	0	0	0	0	0
2017	$1,\!358$	624	733	1	0	553	622	147	28	6	2	0	0	0	0	0
2018	$1,\!479$	575	903	1	0	695	618	135	24	7	0	0	0	0	0	0
2019	$1,\!413$	564	846	3	0	680	591	127	14	1	0	0	0	0	0	0

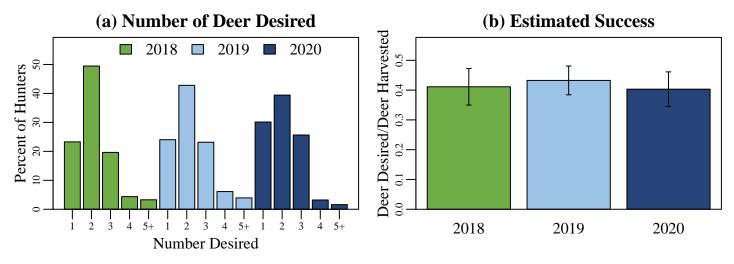


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Putnam County Map



(b) Deer Habitat in Putnam County

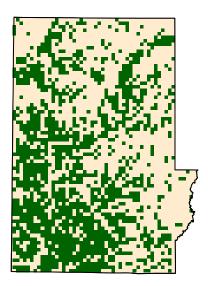


Figure 3. (a) Putnam county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Putnam county.

4/17/2020

#### **County Bonus Antlerless Quota**

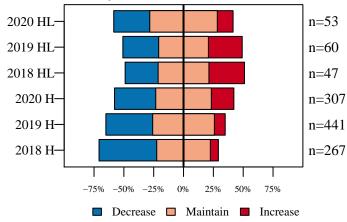


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

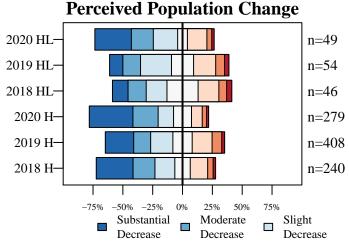


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

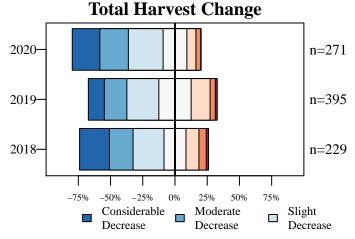
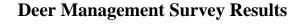


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



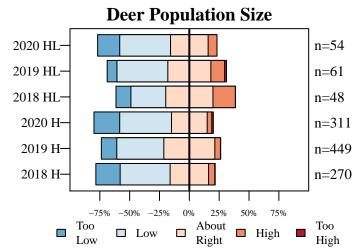
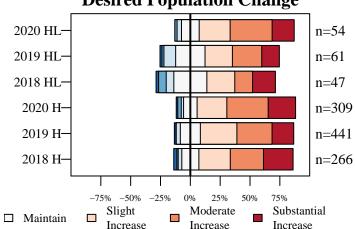


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

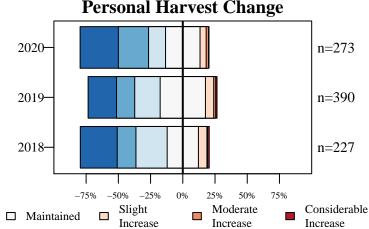


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

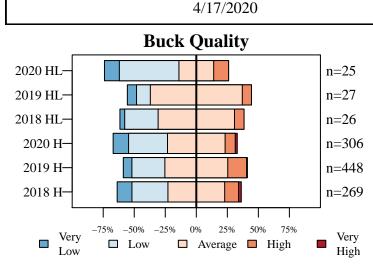
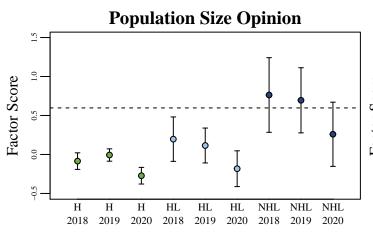


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



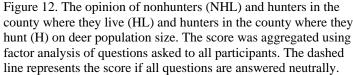




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).



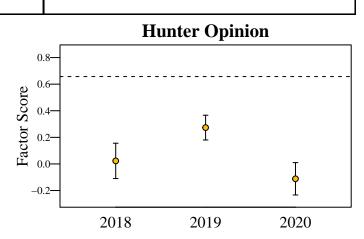


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

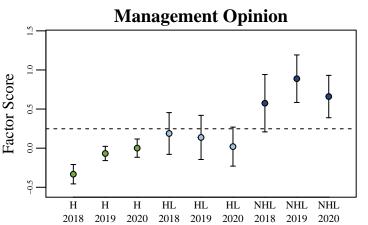


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

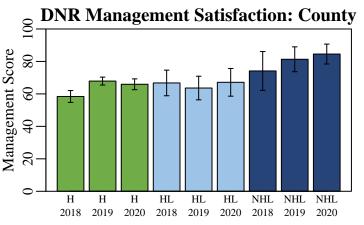


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 453 Square Miles of Deer Habitat: 47 Percent Deer Habitat: 10

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	509		287		5.86	222		4.53	43.61		297.65		1
2007	545		308		6.29	237		4.84	43.49		272.59		1
2008	507		281		5.73	226		4.61	44.58		288.29		1
2009	564		329		6.71	235		4.80	41.67		301.24		1
2010	609	3.24	372	3.65	7.59	237	1.09	4.84	38.92		246.49	-3.03	1
2011	667	2.84	335	0.53	6.84	332	14.48	6.78	49.78		180.01	-4.53	2
2012	640	1.00	344	0.56	7.02	296	0.96	6.04	46.25		202.19	-1.16	2
2013	566	-0.50	313	-0.58	6.39	253	-0.26	5.16	44.70		235.57	-0.15	2
2014	596	-0.29	335	-0.16	6.84	261	-0.23	5.33	43.79		292.07	1.27	2
2015	647	0.80	371	1.46	7.57	276	0.01	5.63	42.66		298.51	1.56	2
2016	675	1.26	407	3.22	8.66	268	-0.49	5.70	39.70		302.72	1.16	2
2017	599	-0.59	334	-0.55	7.11	265	-0.35	5.64	44.24		275.50	0.21	2
2018	598	-0.43	347	-0.13	7.38	251	-1.60	5.34	41.97		319.04	1.39	1
2019	637	0.39	391	1.05	8.32	246	-1.98	5.23	38.62		382.93	5.38	1

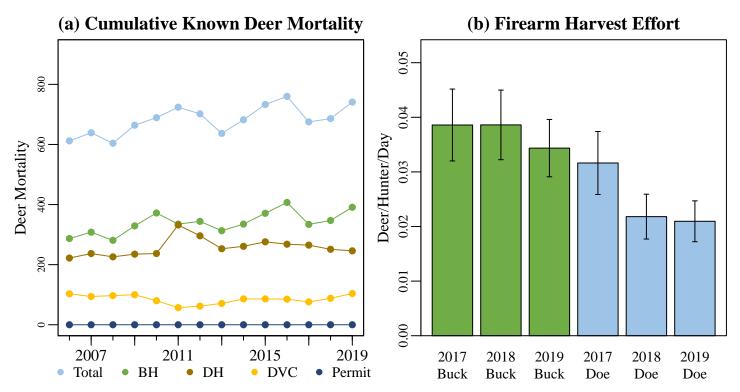


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 453 Square Miles of Deer Habitat: 47 Percent Deer Habitat: 10

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	543	228	314	0	1	241	251	47	3	1	0	0	0	0	0	0
2017	479	230	249	0	0	185	241	50	3	0	0	0	0	0	0	0
2018	490	224	266	0	0	199	255	31	5	0	0	0	0	0	0	0
2019	521	203	317	1	0	234	257	29	1	0	0	0	0	0	0	0

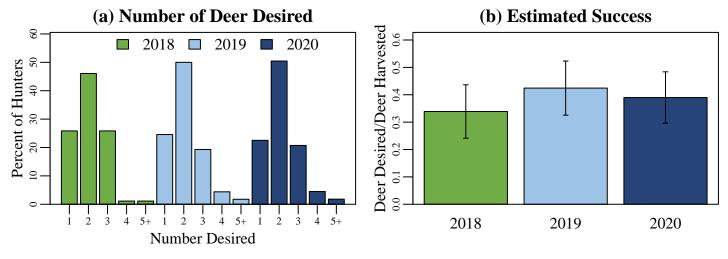


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Randolph County Map



(b) Deer Habitat in Randolph County

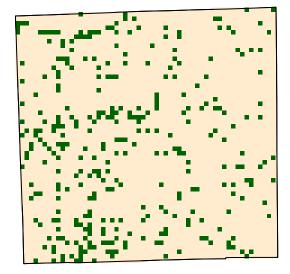


Figure 3. (a) Randolph county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Randolph county.

4/17/2020

#### **County Bonus Antlerless Quota**

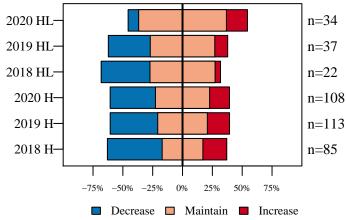


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

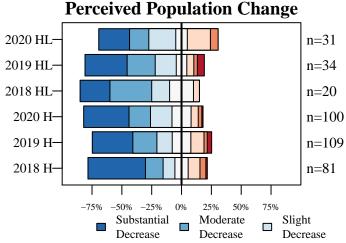
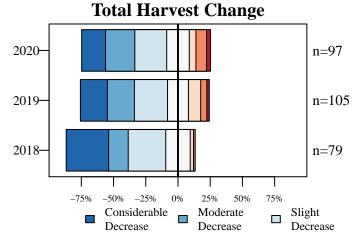
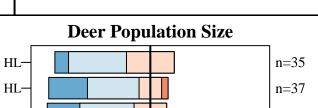


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



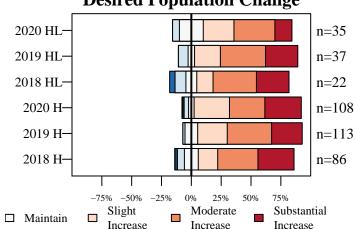
### Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



#### 2020 HL-2019 HL-2018 HLn=22 2020 Hn=109 2019 Hn=114 2018 Hn=86 -75% -50% -25% 0% 25% 50% 75% About Too Too □ Low High

Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

Low



#### **Desired Population Change**

Right

High

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

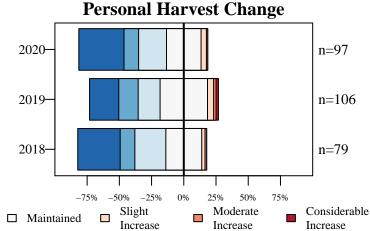


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

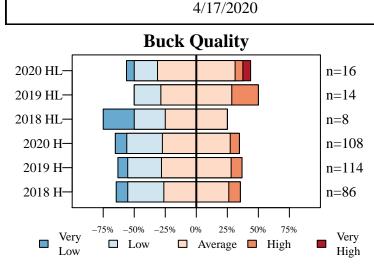
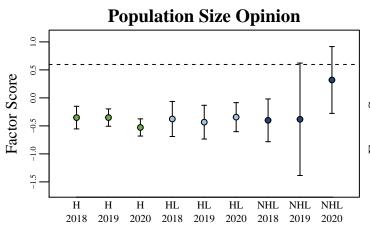


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



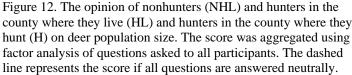




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

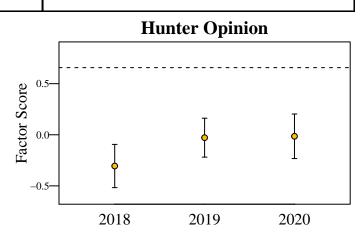


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

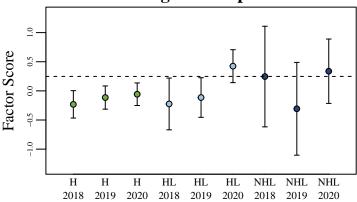


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

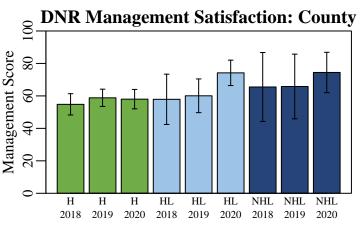


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 448 Square Miles of Deer Habitat: 255 Percent Deer Habitat: 57

Year	Total	Total Trend	Buck Harvest	Buck Trend	Buck Harvest	Doe Harvest	Doe Trend	Doe Harvest	% Doe in	Damage Permit	DVC per	Total Trend	CBAQ
		in $SD$		in SD	per SQ MI		in SD	per SQ MI	Harvest	Deer Taken	Billion Miles	in DVC	
										Taken		DVC	
					Habitat			Habitat			Traveled		
2006	1,508		811		3.14	697		2.70	46.22		482.87		3
2007	1,738		865		3.35	873		3.38	50.23		412.68		3
2008	$1,\!652$		878		3.40	774		3.00	46.85		392.47		3
2009	2,063		1,082		4.19	981		3.80	47.55		385.13		4
2010	2,092	1.78	1,076	1.66	4.17	1,016	1.75	3.94	48.57		404.95	0.02	4
2011	1,988	0.69	1,027	0.66	3.98	961	0.69	3.72	48.34		425.47	0.25	4
2012	2,390	2.43	$1,\!109$	1.16	4.30	1,281	3.69	4.97	53.60		455.66	3.22	8
2013	$2,\!105$	0.26	1,011	-0.25	3.92	1,094	0.50	4.24	51.97		423.41	0.38	8
2014	1,938	-1.23	947	-2.80	3.67	991	-0.58	3.84	51.14		442.84	0.91	8
2015	$2,\!156$	0.30	1,081	0.75	4.19	1,075	0.05	4.17	49.86		484.17	2.76	8
2016	1,988	-0.72	1,048	0.21	4.11	940	-1.12	3.69	47.28	33	398.75	-1.91	8
2017	$1,\!950$	-0.94	964	-1.19	3.78	986	-0.69	3.87	50.56	30	483.22	1.31	8
2018	1,829	-2.03	919	-1.63	3.60	910	-1.65	3.57	49.75	12	332.49	-3.05	4
2019	1,763	-1.76	935	-0.82	3.67	828	-2.43	3.25	46.97	10	378.82	-0.77	2

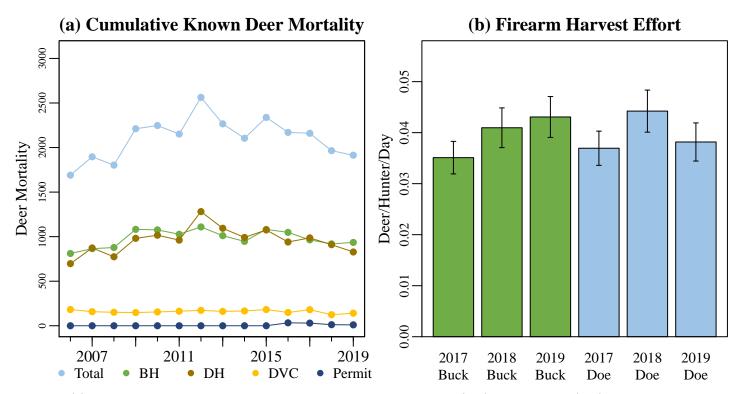


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 448 Square Miles of Deer Habitat: 255 Percent Deer Habitat: 57

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	1,469	648	815	6	0	609	646	152	42	15	5	0	0	0	0	0
2017	$1,\!436$	701	731	4	0	547	658	172	38	13	5	3	0	0	0	0
2018	$1,\!348$	686	658	4	0	473	641	188	38	8	0	0	0	0	0	0
2019	$1,\!375$	646	723	5	1	543	661	151	16	4	0	0	0	0	0	0

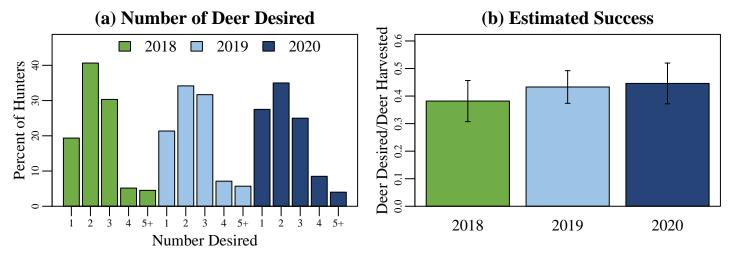


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Ripley County Map



(b) Deer Habitat in Ripley County

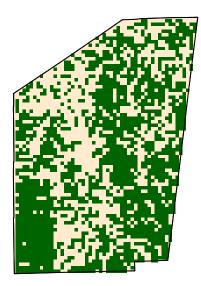


Figure 3. (a) Ripley county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Ripley county.

4/17/2020

#### **County Bonus Antlerless Quota**

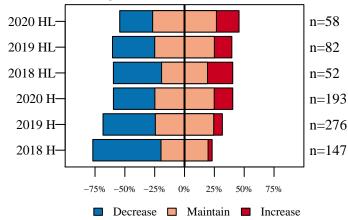


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

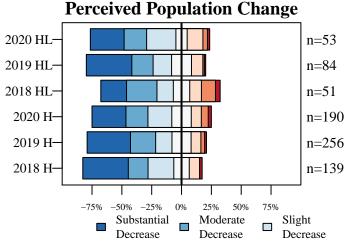


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

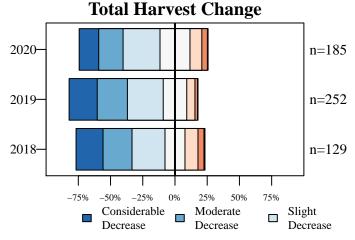


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

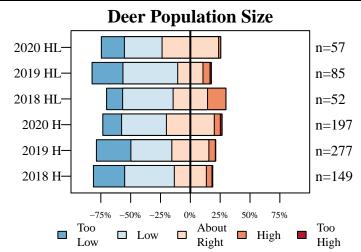
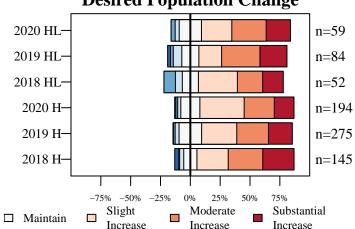


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

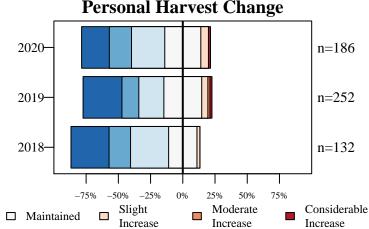


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

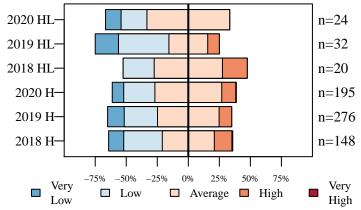


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

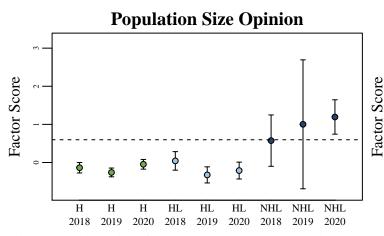


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

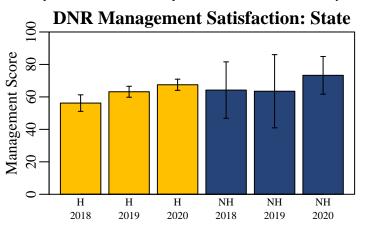


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

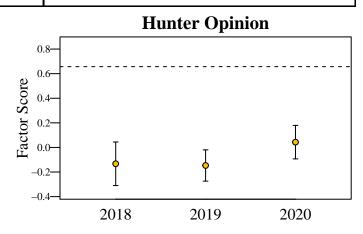


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

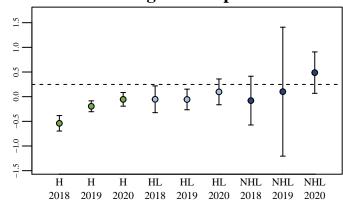


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

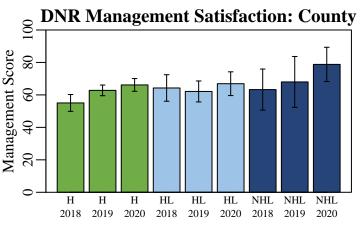


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 408 Square Miles of Deer Habitat: 42 Percent Deer Habitat: 10

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	288		171		4.07	117		2.79	40.62		304.55		1
2007	333		191		4.55	142		3.38	42.64		219.14		1
2008	306		184		4.38	122		2.90	39.87		148.65		1
2009	341		195		4.64	146		3.48	42.82		233.43		1
2010	378	1.43	226	1.93	5.38	152	0.88	3.62	40.21		198.74	-0.61	1
2011	363	0.98	211	0.86	5.02	152	1.05	3.62	41.87		159.83	-1.08	1
2012	338	-0.22	188	-0.79	4.48	150	0.58	3.57	44.38		224.76	0.89	1
2013	351	0.21	219	1.04	5.21	132	-0.97	3.14	37.61		141.28	-1.37	1
2014	410	3.38	233	1.58	5.55	177	3.64	4.21	43.17		250.74	1.47	1
2015	385	0.61	213	-0.14	5.07	172	1.21	4.10	44.68		209.39	0.32	1
2016	413	1.53	264	3.14	6.29	149	-0.42	3.55	36.08		190.37	-0.15	1
2017	378	-0.04	222	-0.05	5.29	156	0.00	3.71	41.27		257.25	1.31	2
2018	359	-1.12	208	-1.10	4.95	151	-0.34	3.60	42.06		180.72	-0.61	1
2019	379	-0.44	225	-0.13	5.36	154	-0.55	3.67	40.63		234.05	0.47	1

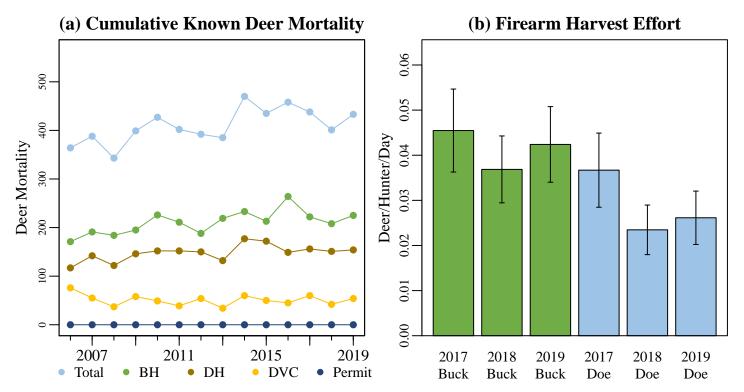


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 408 Square Miles of Deer Habitat: 42 Percent Deer Habitat: 10

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	352	128	224	0	0	177	161	14	0	0	0	0	0	0	0	0
2017	308	148	160	0	0	123	154	29	2	0	0	0	0	0	0	0
2018	306	131	175	0	0	139	152	13	2	0	0	0	0	0	0	0
2019	330	138	192	0	0	158	157	15	0	0	0	0	0	0	0	0

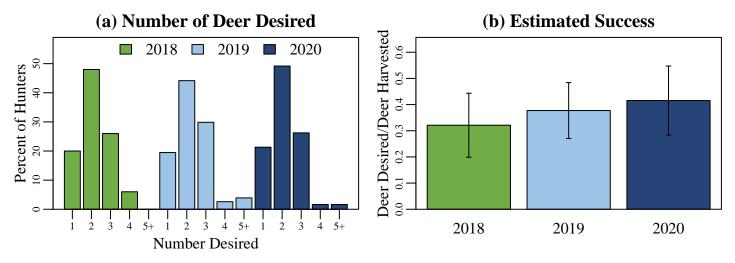


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Rush County Map



(b) Deer Habitat in Rush County

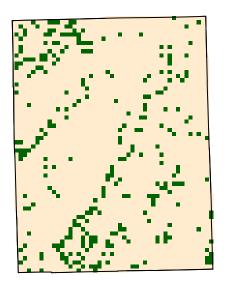


Figure 3. (a) Rush county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Rush county.

4/17/2020

#### **County Bonus Antlerless Quota**

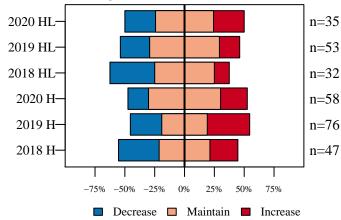


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

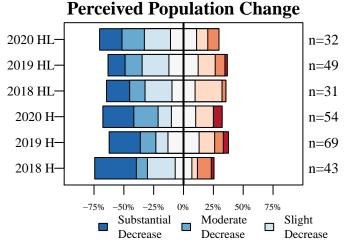


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

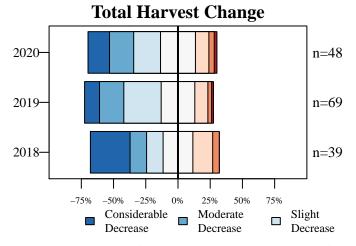


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

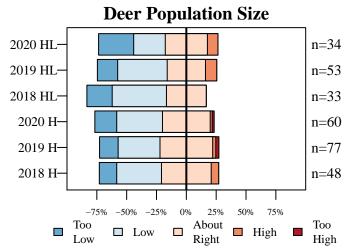
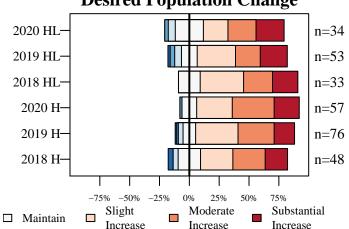


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

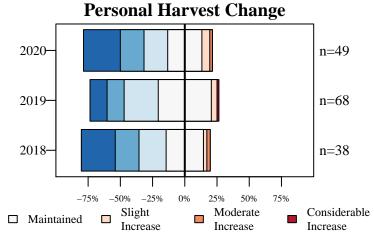


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

### **Buck Quality**

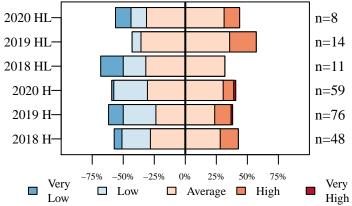
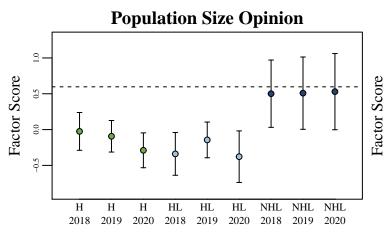


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



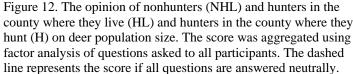




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

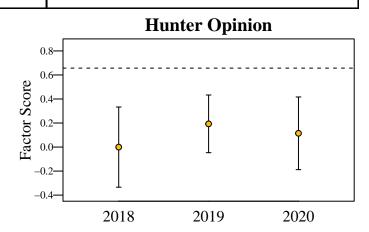


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

Management Opinion

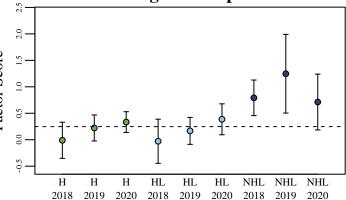


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

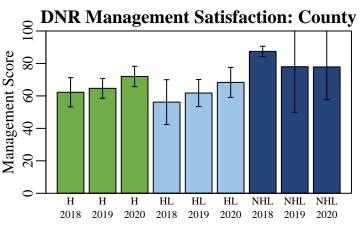


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 461 Square Miles of Deer Habitat: 89 Percent Deer Habitat: 19

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
	1 1 1 4		C1C			100			44.70				
2006	1,114		616		6.42	498		5.19	44.70		104.05		3
2007	$1,\!347$		715		7.45	632		6.58	46.92		131.64		3
2008	$1,\!428$		754		7.85	674		7.02	47.20		126.31		4
2009	1,768		832		8.67	936		9.75	52.94		115.64		8
2010	1,767	1.55	881	1.98	9.18	886	1.33	9.23	50.14		114.52	-0.52	8
2011	1,503	0.06	741	-0.18	7.72	762	0.20	7.94	50.70		100.60	-1.65	8
2012	$1,\!413$	-0.77	669	-1.67	6.97	744	-0.26	7.75	52.65		101.26	-1.38	8
2013	$1,\!406$	-0.95	655	-1.46	6.82	751	-0.46	7.82	53.41		114.30	0.24	8
2014	1,291	-1.53	586	-1.71	6.10	705	-1.25	7.34	54.61		106.74	-0.33	4
2015	$1,\!194$	-1.57	607	-0.89	6.32	587	-2.66	6.11	49.16		124.02	2.45	4
2016	1,044	-2.64	571	-1.33	6.42	473	-3.29	5.31	45.31		99.85	-0.97	4
2017	1,168	-0.66	557	-1.42	6.26	611	-0.34	6.87	52.31	17	110.14	0.09	4
2018	1,200	-0.15	590	-0.14	6.63	610	-0.14	6.85	50.83	20	109.12	-0.21	3
2019	1,204	0.28	616	1.77	6.92	588	-0.11	6.61	48.84	32	116.66	0.76	2

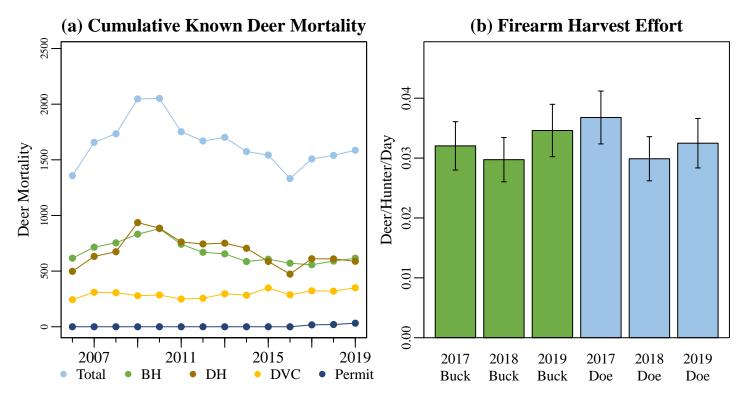


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 461 Square Miles of Deer Habitat: 89 Percent Deer Habitat: 19

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	805	368	437	0	0	325	385	67	26	1	0	1	0	0	0	0
2017	862	453	405	4	0	292	435	101	20	13	0	1	0	0	0	0
2018	877	439	431	7	0	324	401	119	24	6	2	0	0	0	0	1
2019	887	379	500	8	0	369	386	108	16	4	3	0	1	0	0	0

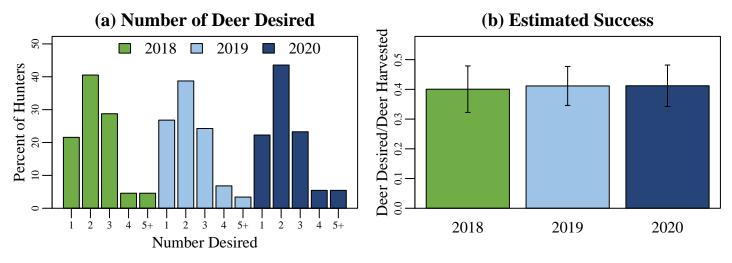


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Saint Joseph County Map



(b) Deer Habitat in Saint Joseph County

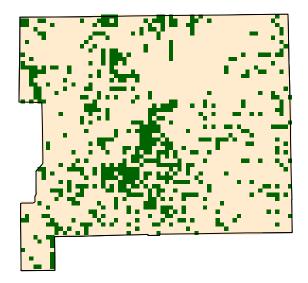


Figure 3. (a) Saint Joseph county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Saint Joseph county.

4/17/2020

#### **County Bonus Antlerless Quota**

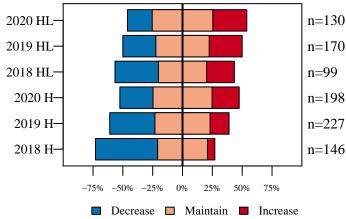


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

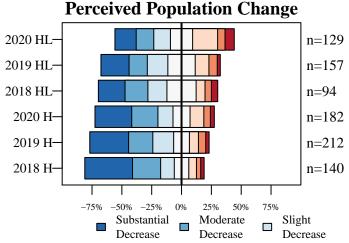


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

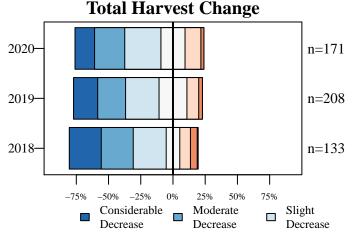
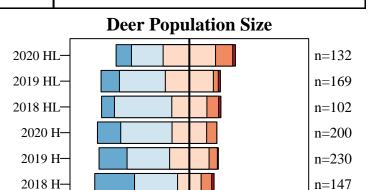


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



#### High Low Right Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

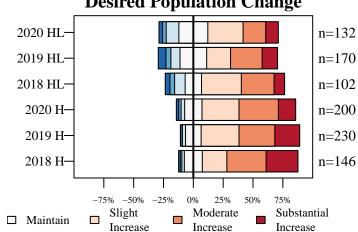
-25%

-75%

Too

-50%

□ Low



#### **Desired Population Change**

0%

25%

About

50%

High

75%

Too

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

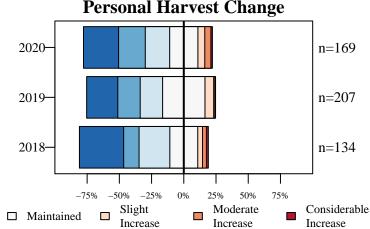


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

### **Deer Management Survey Results**

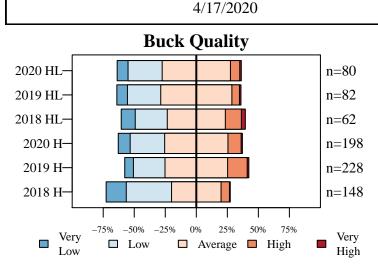
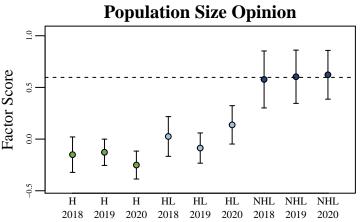


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



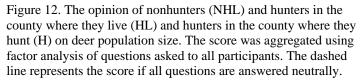




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

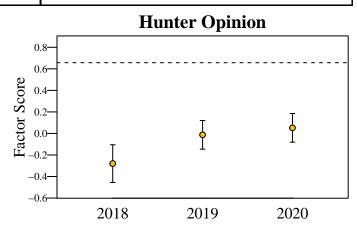


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

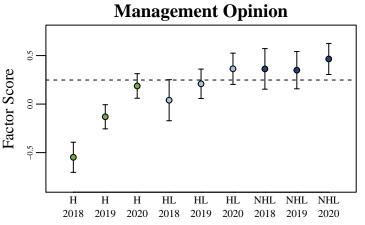


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

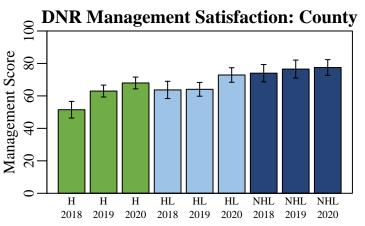


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

### **Scott County**

4/17/2020

Total Square Miles: 193 Square Miles of Deer Habitat: 123 Percent Deer Habitat: 64

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	1,071		499		4.02	572		4.61	53.41		82.97		8
2007	826		427		3.44	399		3.22	48.31		82.30		8
2008	971		496		4.00	475		3.83	48.92		63.02		8
2009	937		461		3.72	476		3.84	50.80		94.51		8
2010	967	0.03	456	-0.67	3.68	511	0.45	4.12	52.84		98.95	0.45	8
2011	921	-0.38	463	-0.16	3.73	458	-0.45	3.69	49.73		126.09	2.99	8
2012	1,069	2.46	483	0.91	3.90	586	2.98	4.73	54.82		72.41	-0.89	8
2013	$1,\!158$	3.21	564	5.43	4.55	594	1.81	4.79	51.30		187.33	3.90	4
2014	991	-0.19	443	-0.94	3.57	548	0.37	4.42	55.30		179.78	1.44	4
2015	$1,\!126$	1.12	578	2.00	4.66	548	0.15	4.42	48.67		250.19	2.34	4
2016	956	-1.00	483	-0.38	3.93	473	-1.37	3.85	49.48	25	230.22	1.00	4
2017	937	-1.43	436	-1.28	3.54	501	-1.02	4.07	53.47	14	283.38	1.44	4
2018	826	-2.05	425	-1.14	3.46	401	-2.81	3.26	48.55	8	193.44	-0.75	4
2019	725	-2.24	361	-1.79	2.93	364	-2.13	2.96	50.21	7	217.77	-0.23	2

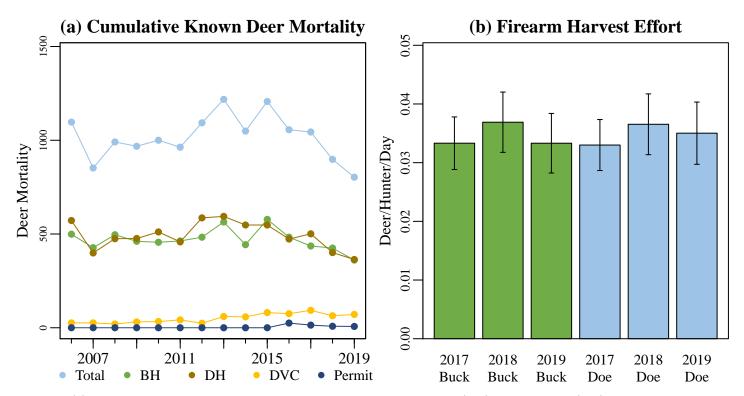


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

### **Scott County**

4/17/2020

Total Square Miles: 193 Square Miles of Deer Habitat: 123 Percent Deer Habitat: 64

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	728	337	390	1	0	281	347	84	15	1	0	0	0	0	0	0
2017	723	367	356	0	0	273	336	99	13	2	0	0	0	0	0	0
2018	643	297	344	2	0	268	292	70	6	7	0	0	0	0	0	0
2019	568	308	259	1	0	188	302	72	6	0	0	0	0	0	0	0

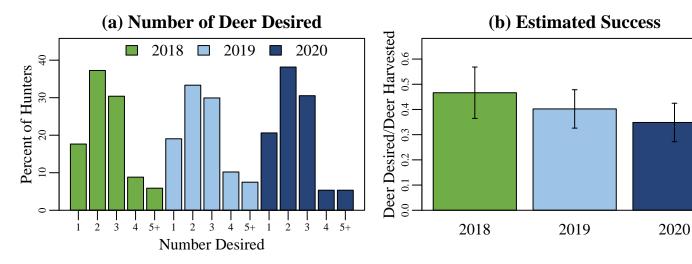


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Scott County Map



(b) Deer Habitat in Scott County

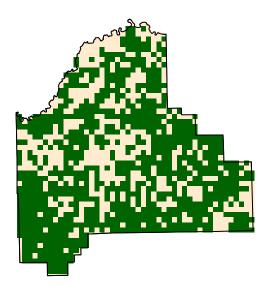


Figure 3. (a) Scott county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Scott county.

### **Scott County**

4/17/2020

#### **County Bonus Antlerless Quota**

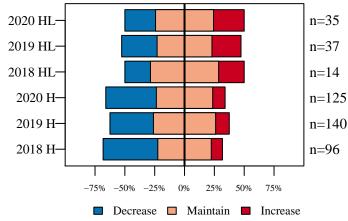


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

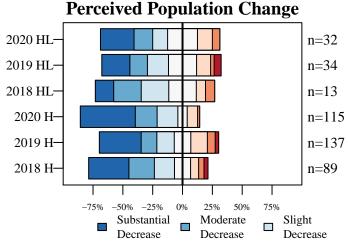


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

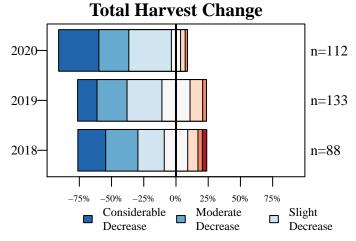


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

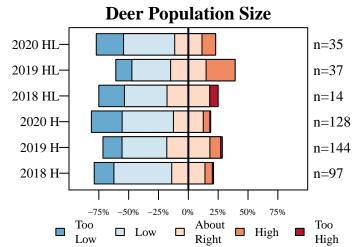
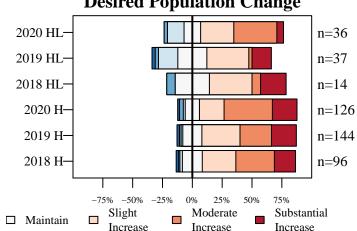


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

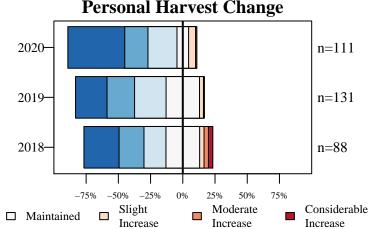
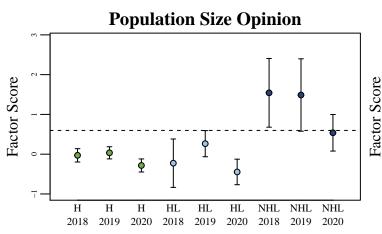


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

#### **Scott County**

4/17/2020 **Buck Quality** 2020 HL n=23 2019 HLn=16 2018 HLn=72020 Hn=128 2019 Hn=145 n=95 2018 H· -50% 0% 25% 50% 75% -25%-75%Very Very Low High Average High Low

Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



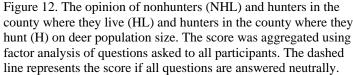




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

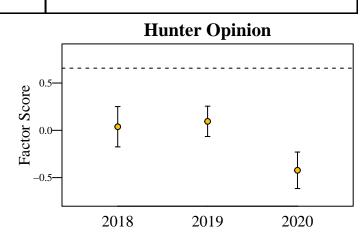


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

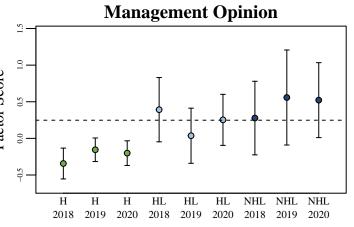


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

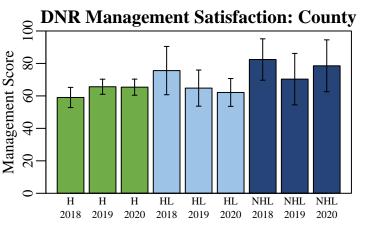


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 412 Square Miles of Deer Habitat: 58 Percent Deer Habitat: 14

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	339		190		4.04	149		3.17	43.95		137.23		2
2007	371		210		4.47	161		3.43	43.40		136.08		2
2008	372		200		4.26	172		3.66	46.24		125.97		3
2009	340		183		3.89	157		3.34	46.18		113.41		3
2010	380	1.31	201	0.68	4.28	179	1.75	3.81	47.11		110.58	-1.48	3
2011	396	1.84	207	0.97	4.40	189	2.13	4.02	47.73		125.02	0.03	3
2012	434	3.05	225	2.37	4.79	209	2.86	4.45	48.16		126.59	0.42	3
2013	451	1.93	250	3.10	5.32	201	1.02	4.28	44.57		111.88	-1.10	3
2014	491	2.06	258	1.76	5.49	233	2.27	4.96	47.45		127.12	1.25	3
2015	457	0.60	251	0.90	5.34	206	0.18	4.38	45.08		145.60	3.07	3
2016	452	0.18	269	1.43	4.64	183	-1.53	3.16	40.49		167.92	3.38	3
2017	443	-0.67	238	-0.78	4.10	205	-0.08	3.53	46.28		155.17	0.90	3
2018	437	-1.17	258	0.42	4.45	179	-1.49	3.09	40.96		148.99	0.33	2
2019	504	2.28	287	2.83	4.95	217	0.73	3.74	43.06		133.28	-1.05	2

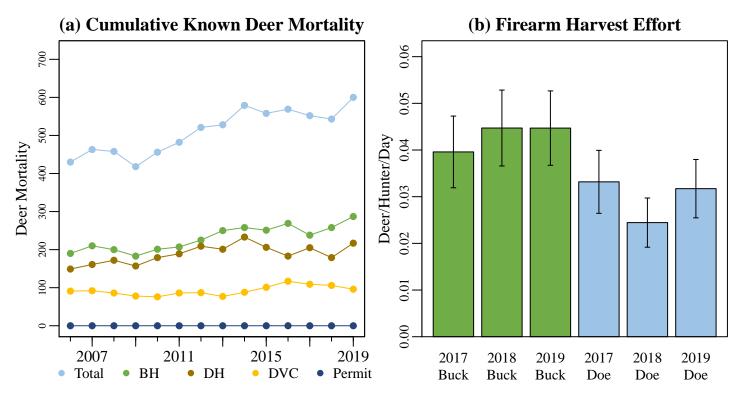


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 412 Square Miles of Deer Habitat: 58 Percent Deer Habitat: 14

Table 2. Estimated number of antiered (A) and antierless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	377	163	213	1	0	178	164	32	3	0	0	0	0	0	0	0
2017	362	164	198	0	0	160	164	34	3	1	0	0	0	0	0	0
2018	371	163	208	0	0	173	168	29	1	0	0	0	0	0	0	0
2019	411	192	219	0	0	167	206	35	3	0	0	0	0	0	0	0

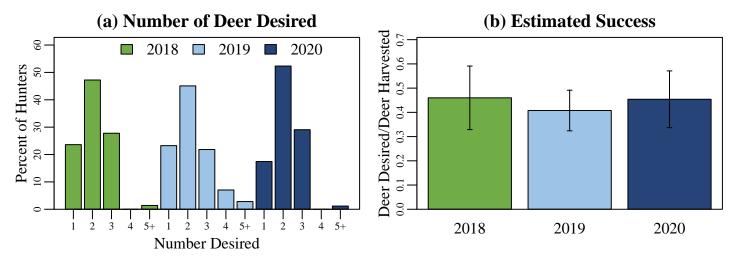


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Shelby County Map



(b) Deer Habitat in Shelby County

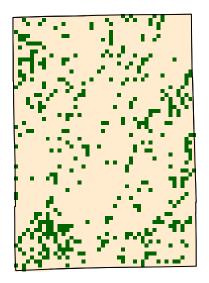


Figure 3. (a) Shelby county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Shelby county.

4/17/2020

#### **County Bonus Antlerless Quota**

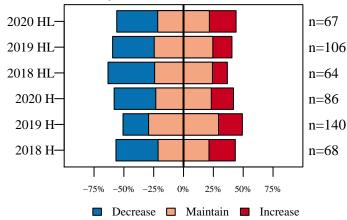


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

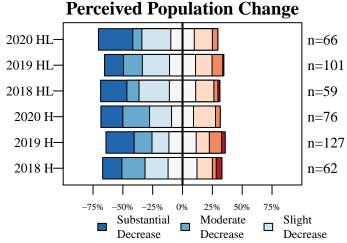


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

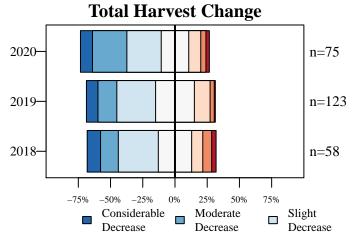


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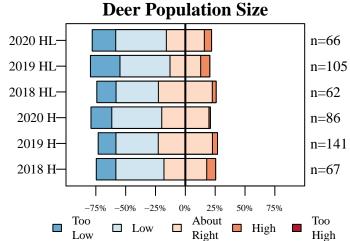
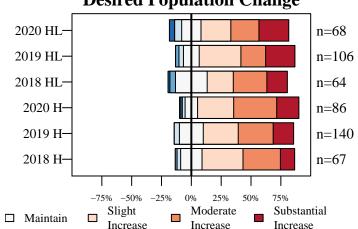


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#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

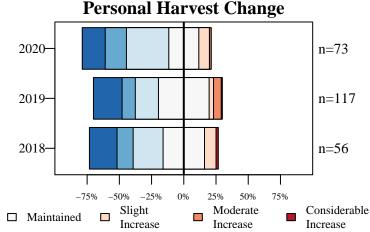


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4/17/2020

#### **Buck Quality**

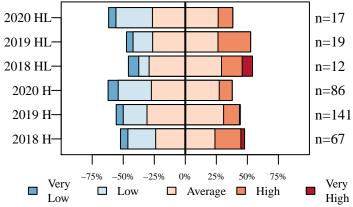


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

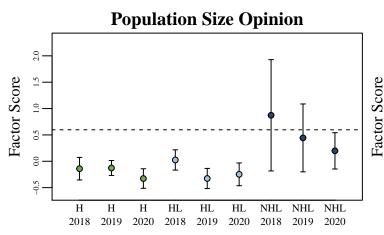


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

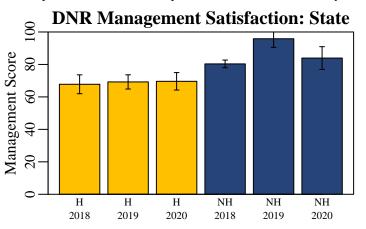


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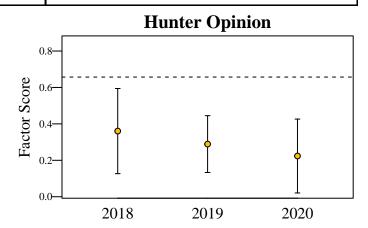


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**Management Opinion** 

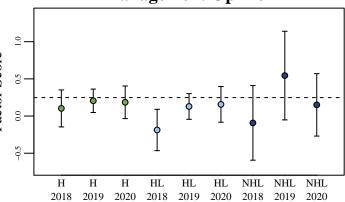


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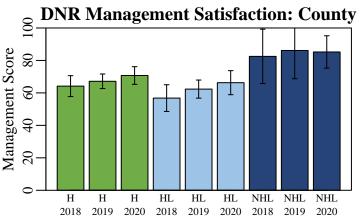


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4/17/2020

Total Square Miles: 401 Square Miles of Deer Habitat: 180 Percent Deer Habitat: 45

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	1,575		812		4.69	763		4.41	48.44		452.67		2
2007	$1,\!278$		651		3.76	627		3.62	49.06		490.24		3
2008	$1,\!423$		714		4.13	709		4.10	49.82		402.90		3
2009	$1,\!398$		770		4.45	628		3.63	44.92		382.42		3
2010	$1,\!402$	-0.37	760	0.19	4.39	642	-0.82	3.71	45.79		388.57	-1.06	3
2011	$1,\!336$	-0.75	718	-0.38	4.15	618	-0.93	3.57	46.26		510.48	1.87	4
2012	$1,\!428$	1.02	659	-1.35	3.81	769	3.37	4.45	53.85		431.21	-0.06	4
2013	$1,\!439$	1.13	737	0.29	4.26	702	0.45	4.06	48.78		507.96	1.62	4
2014	$1,\!460$	1.48	736	0.16	4.25	724	0.82	4.18	49.59		521.17	1.24	4
2015	$1,\!351$	-1.30	672	-1.31	3.88	679	-0.20	3.92	50.26		587.27	1.96	4
2016	1,201	-3.63	589	-3.15	3.27	612	-1.55	3.40	50.96	20	406.14	-1.90	4
2017	$1,\!244$	-1.24	627	-0.84	3.48	617	-1.38	3.43	49.60	23	390.83	-1.37	3
2018	1,099	-2.09	583	-1.36	3.24	516	-2.99	2.87	46.95	14	479.02	-0.04	3
2019	$1,\!108$	-1.17	591	-0.79	3.28	517	-1.43	2.87	46.66	9	537.10	0.74	2

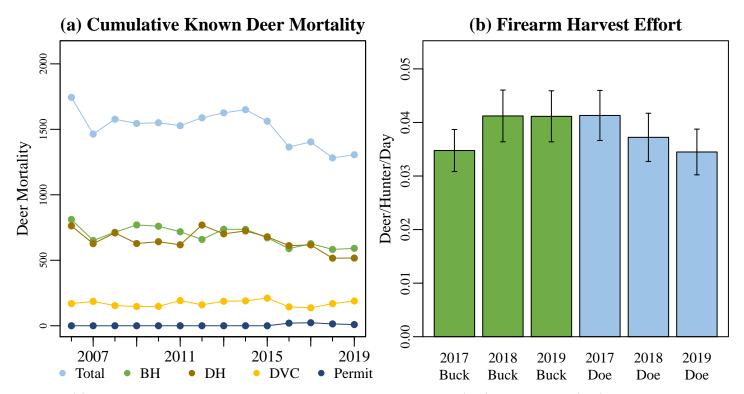


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

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Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	${}^{8}_{\mathrm{AL}}$	9 AL	10 AL
2016	964	446	517	1	0	409	444	96	14	1	0	0	0	0	0	0
2017	957	439	517	1	0	395	422	121	17	1	0	1	0	0	0	0
2018	871	387	481	3	0	373	395	93	9	1	0	0	0	0	0	0
2019	891	389	502	0	0	385	410	92	4	0	0	0	0	0	0	0

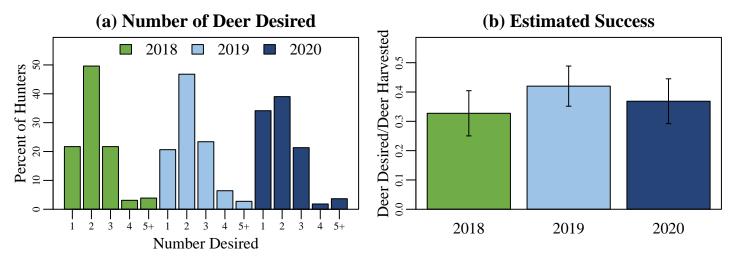


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Spencer County Map



(b) Deer Habitat in Spencer County

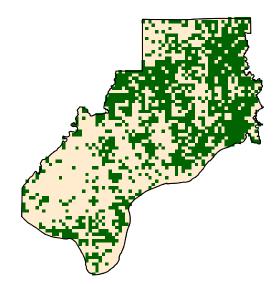


Figure 3. (a) Spencer county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Spencer county.

4/17/2020

#### **County Bonus Antlerless Quota**

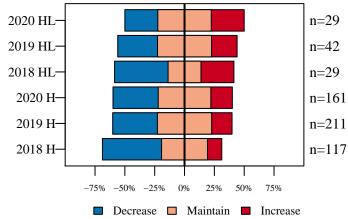


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

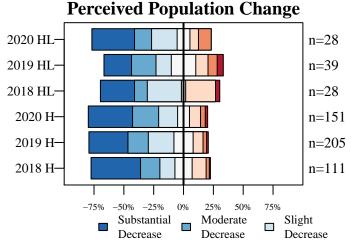


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

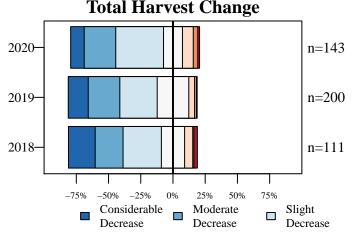


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

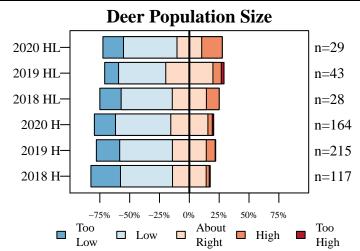
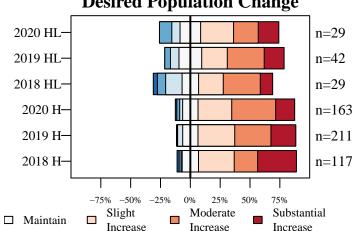


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

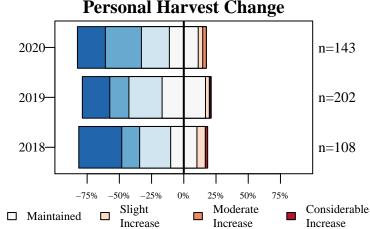


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

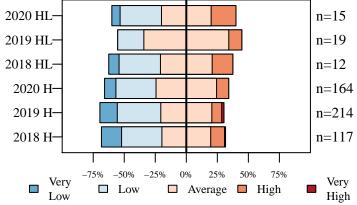


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

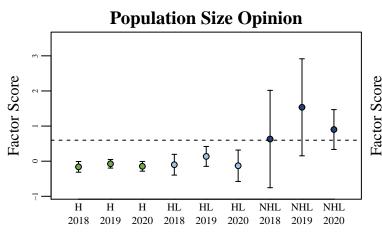


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

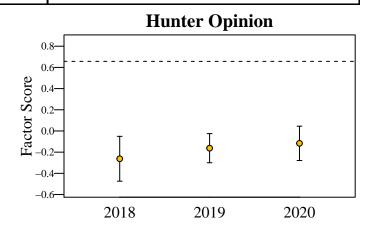


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

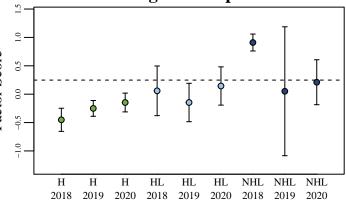


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

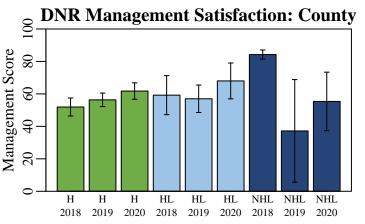


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 312 Square Miles of Deer Habitat: 83 Percent Deer Habitat: 27

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
					Habitat			Habitat			inaveneu		
2006	1,337		701		7.70	636		6.99	47.57		820.13		2
2007	1,505		728		8.00	777		8.54	51.63		781.18		3
2008	1,700		873		9.59	827		9.09	48.65		971.79		3
2009	1,686		806		8.86	880		9.67	52.19		946.69		4
2010	1,726	1.16	865	1.37	9.51	861	0.95	9.46	49.88		779.31	-0.18	4
2011	1,717	0.76	788	-0.08	8.66	929	1.36	10.21	54.11		881.20	0.23	8
2012	1,921	2.77	843	0.52	9.26	1,078	3.91	11.85	56.12		864.50	-0.08	8
2013	$1,\!641$	-1.13	726	-2.95	7.98	915	0.00	10.05	55.76		822.98	-0.87	8
2014	1,595	-1.33	721	-1.57	7.92	874	-0.68	9.60	54.80		825.10	-0.54	8
2015	1,522	-1.59	739	-0.75	8.12	783	-1.71	8.60	51.45		887.69	1.33	8
2016	1,433	-1.61	724	-0.76	8.72	709	-1.93	8.54	49.48	16	702.54	-5.02	8
2017	1,375	-1.34	659	-1.76	7.94	716	-1.11	8.63	52.07	6	702.85	-1.65	4
2018	1,318	-1.77	676	-1.20	8.14	642	-1.70	7.73	48.71	8	601.46	-2.27	3
2019	$1,\!449$	0.00	830	3.67	10.00	619	-1.43	7.46	42.72	10	632.00	-0.99	2

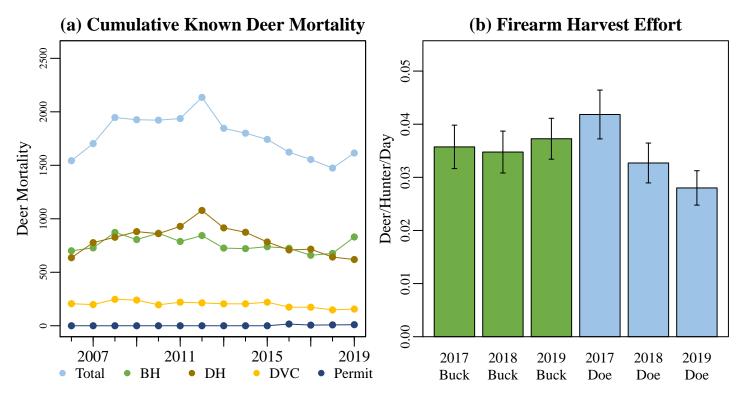


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 312 Square Miles of Deer Habitat: 83 Percent Deer Habitat: 27

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 ·s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,047	509	536	2	0	391	482	131	30	7	5	1	0	0	0	0
2017	1,002	511	490	1	0	350	474	137	30	10	1	0	0	0	0	0
2018	993	479	513	1	0	373	468	122	29	1	0	0	0	0	0	0
2019	$1,\!140$	453	687	0	0	507	516	108	6	3	0	0	0	0	0	0

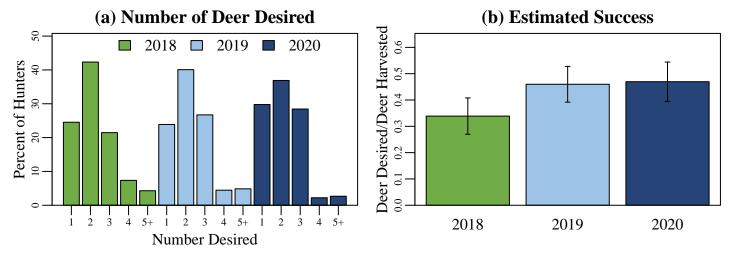


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Starke County Map



(b) Deer Habitat in Starke County

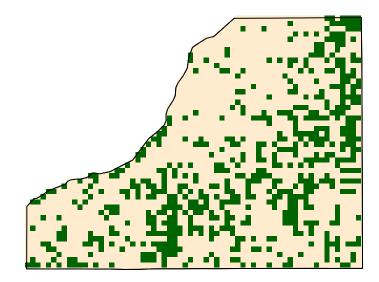


Figure 3. (a) Starke county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Starke county.

4/17/2020

#### **County Bonus Antlerless Quota**

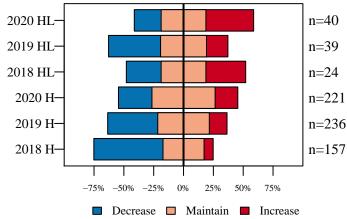


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

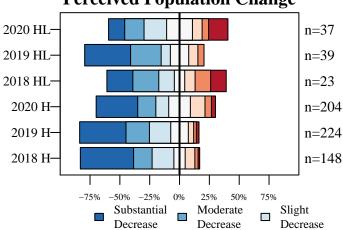


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

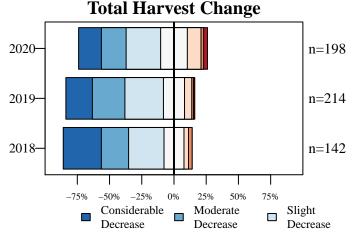
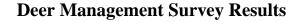


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



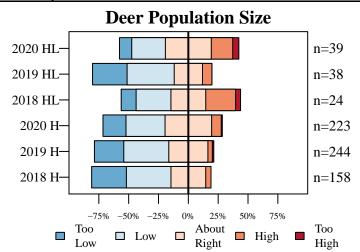


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

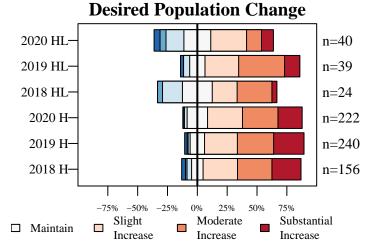


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

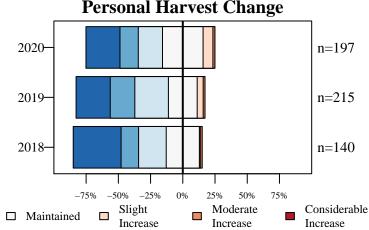


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

#### Perceived Population Change

4/17/2020

#### **Buck Quality**

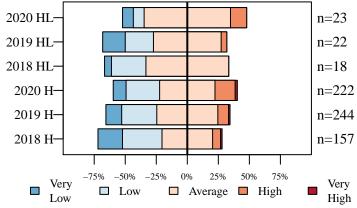


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

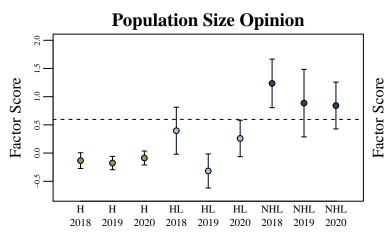


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

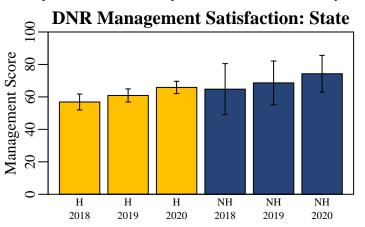


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

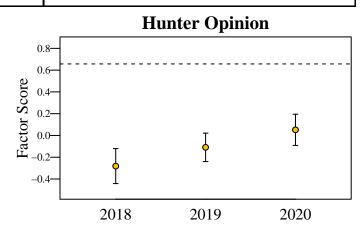


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

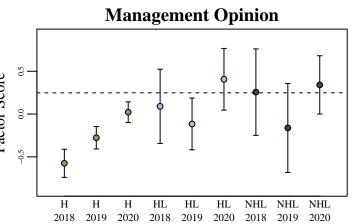


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

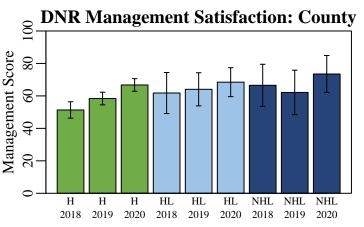


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 322 Square Miles of Deer Habitat: 130 Percent Deer Habitat: 40

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	3,232		1,441		9.54	1,791		11.86	55.41		788.66		2
2007	3,719		1,589		10.52	2,130		14.11	57.27		778.86		3
2008	$3,\!659$		1,518		10.05	2,141		14.18	58.51		755.67		3
2009	4,111		$1,\!667$		11.04	2,444		16.19	59.45		708.29		8
2010	$3,\!945$	0.96	1,724	1.76	11.42	2,221	0.60	14.71	56.30		695.41	-2.02	8
2011	$3,\!556$	-0.53	1,554	-0.30	10.29	2,002	-0.61	13.26	56.30		612.85	-3.17	8
2012	$2,\!676$	-4.97	$1,\!137$	-5.63	7.53	1,539	-3.97	10.19	57.51		566.65	-2.24	8
2013	2,702	-1.59	$1,\!279$	-1.05	8.47	$1,\!423$	-1.92	9.42	52.66		601.06	-0.87	4
2014	2,542	-1.26	$1,\!172$	-1.18	7.76	1,370	-1.27	9.07	53.89		584.86	-0.84	4
2015	2,559	-0.84	1,316	-0.22	8.72	1,243	-1.24	8.23	48.57		569.14	-0.87	3
2016	$2,\!451$	-0.84	1,292	0.00	9.94	1,159	-1.22	8.92	47.29	21	557.81	-1.45	3
2017	2,236	-3.40	$1,\!141$	-1.24	8.78	1,095	-1.68	8.42	48.97	14	636.05	3.51	2
2018	$2,\!395$	-0.60	$1,\!270$	0.38	9.77	$1,\!125$	-0.96	8.65	46.97	21	703.05	3.70	1
2019	2,756	2.44	$1,\!480$	3.14	11.38	$1,\!276$	0.70	9.82	46.30	20	705.64	1.59	1

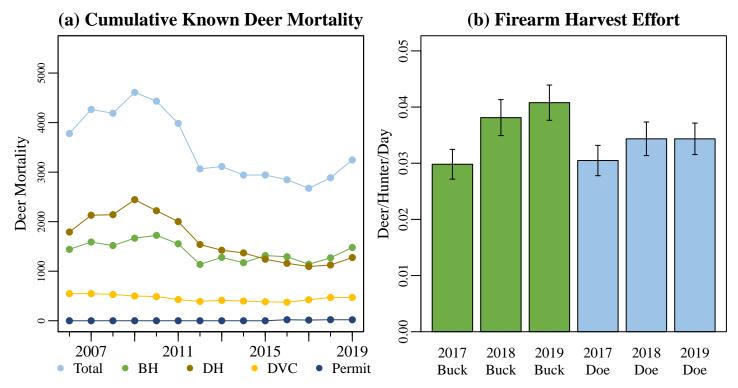


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 322 Square Miles of Deer Habitat: 130 Percent Deer Habitat: 40

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	$1,\!875$	785	1,086	4	0	813	819	198	41	1	3	0	0	0	0	0
2017	1,735	789	944	2	0	701	812	194	26	1	0	1	0	0	0	0
2018	$1,\!854$	771	1,071	12	0	774	898	156	18	6	1	0	1	0	0	0
2019	$2,\!096$	786	$1,\!294$	16	0	913	984	166	25	5	1	1	0	1	0	0

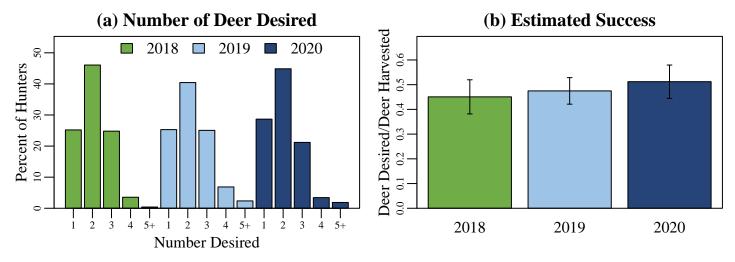


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).





(b) Deer Habitat in Steuben County

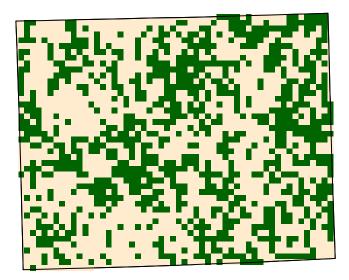


Figure 3. (a) Steuben county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Steuben county.

4/17/2020

#### **County Bonus Antlerless Quota**

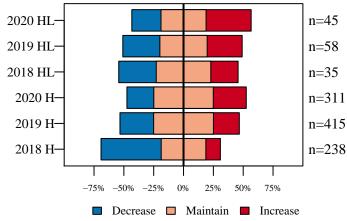


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

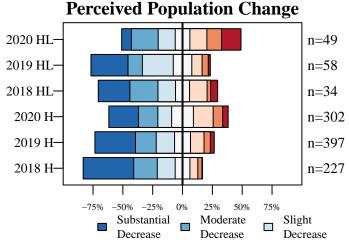


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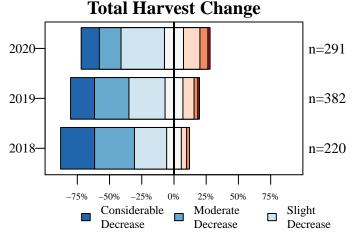
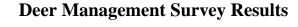


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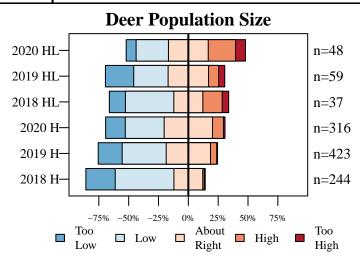
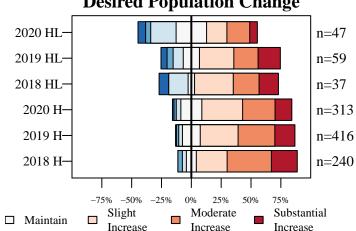


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

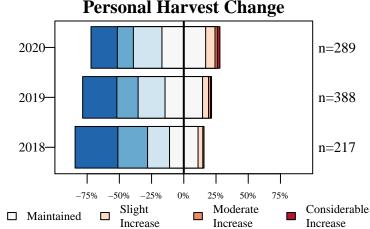


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4/17/2020

#### **Buck Quality**

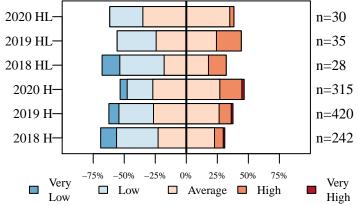


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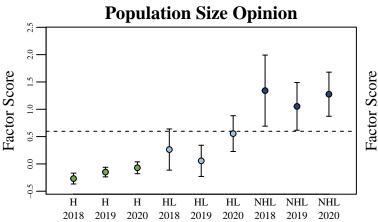


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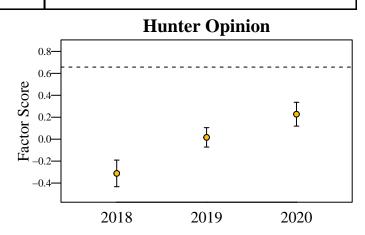


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#### **Management Opinion**

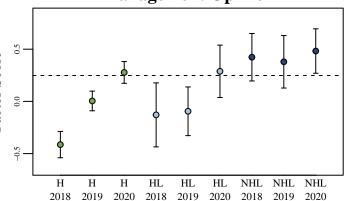


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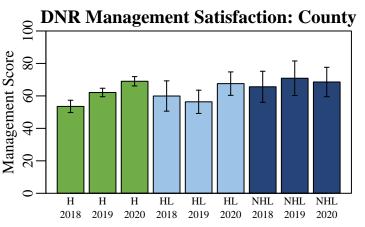


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4/17/2020

Total Square Miles: 454 Square Miles of Deer Habitat: 163 Percent Deer Habitat: 36

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion Miles	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,472		803		5.62	669		4.68	45.45		108.42		2
2007	$1,\!626$		961		6.72	665		4.65	40.90		273.58		2
2008	$1,\!623$		896		6.27	727		5.08	44.79		205.05		3
2009	1,773		959		6.71	814		5.69	45.91		307.44		3
2010	1,873	2.27	1,027	1.55	7.18	846	2.16	5.92	45.17		258.64	0.64	4
2011	$1,\!951$	1.80	1,056	1.50	7.38	895	1.82	6.26	45.87		285.82	0.71	4
2012	2,100	2.26	1,019	0.62	7.13	1,081	3.15	7.56	51.48		260.72	-0.14	4
2013	1,757	-0.59	907	-1.32	6.34	850	-0.17	5.94	48.38		361.32	2.55	4
2014	1,704	-1.33	892	-1.70	6.24	812	-0.80	5.68	47.65		367.36	1.72	4
2015	1,730	-0.93	946	-0.46	6.62	784	-1.05	5.48	45.32		324.78	0.34	3
2016	1,785	-0.37	1,013	0.69	6.21	772	-0.96	4.74	43.25	37	385.95	1.42	3
2017	1,825	0.06	963	0.13	5.91	862	0.02	5.29	47.23	38	311.62	-0.57	3
2018	1,948	3.98	1,088	3.00	6.67	860	1.11	5.28	44.15	39	433.87	2.70	3
2019	$1,\!870$	0.75	$1,\!086$	1.43	6.66	784	-0.81	4.81	41.93	67	479.36	2.33	2

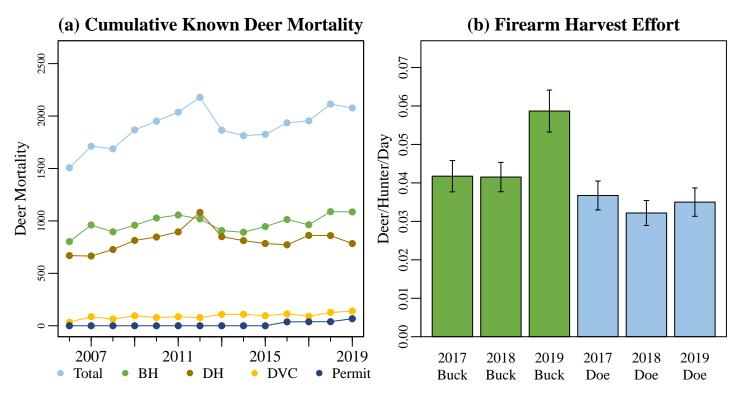


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4/17/2020

Total Square Miles: 454 Square Miles of Deer Habitat: 163 Percent Deer Habitat: 36

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 ·s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	$1,\!396$	540	853	2	1	645	605	119	26	1	0	0	0	0	0	0
2017	$1,\!343$	574	767	2	0	547	580	183	25	7	1	0	0	0	0	0
2018	$1,\!447$	525	918	4	0	655	597	165	26	3	1	0	0	0	0	0
2019	$1,\!394$	511	881	2	0	616	605	144	25	3	1	0	0	0	0	0

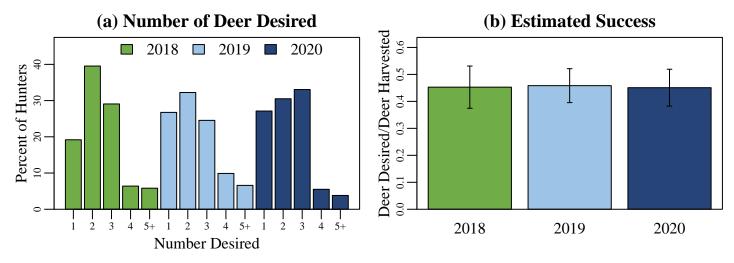


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Sullivan County Map



(b) Deer Habitat in Sullivan County

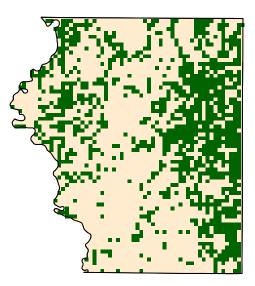


Figure 3. (a) Sullivan county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Sullivan county.

4/17/2020

#### **County Bonus Antlerless Quota**

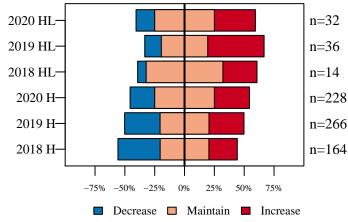


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

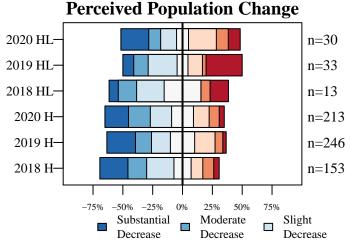


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

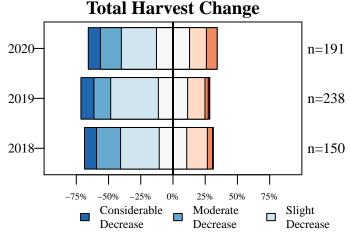
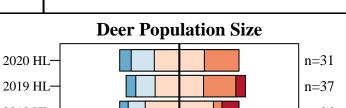


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

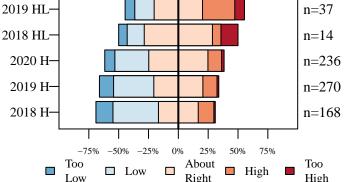
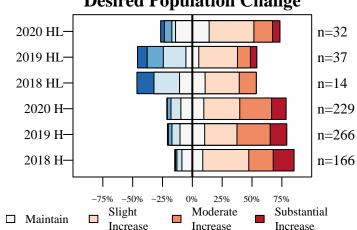


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

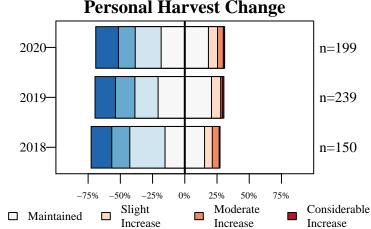


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

4/17/2020

#### **Buck Quality**

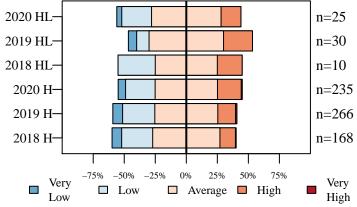


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

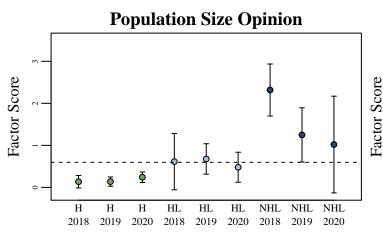


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

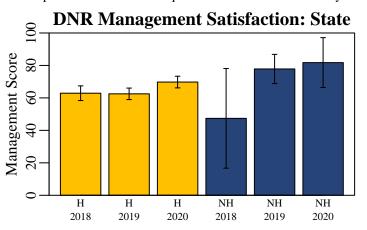


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).



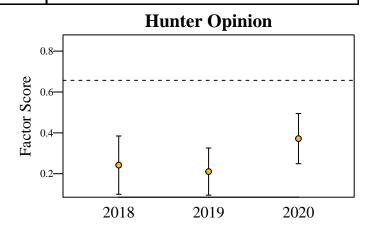


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

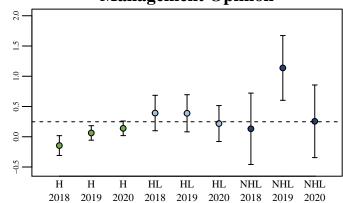


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

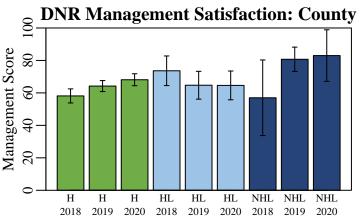


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 224 Square Miles of Deer Habitat: 190 Percent Deer Habitat: 85

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
					париа			парна			Traveled		
2006	2,772		1,206		6.31	1,566		8.20	56.49		427.27		8
2007	3,169		$1,\!343$		7.03	1,826		9.56	57.62		769.55		8
2008	2,909		1,263		6.61	$1,\!646$		8.62	56.58		527.26		8
2009	3,200		$1,\!498$		7.84	1,702		8.91	53.19		554.50		8
2010	3,363	1.90	1,545	1.71	8.09	1,818	1.47	9.52	54.06		660.50	0.84	8
2011	$3,\!309$	0.95	$1,\!478$	0.73	7.74	$1,\!831$	1.07	9.59	55.33		337.04	-1.91	8
2012	$3,\!496$	1.74	1,515	0.76	7.93	1,981	2.54	10.37	56.66		407.61	-1.00	8
2013	$3,\!095$	-0.73	$1,\!355$	-0.93	7.09	1,740	-0.43	9.11	56.22		456.94	-0.32	8
2014	2,721	-3.72	$1,\!192$	-3.91	6.24	1,529	-2.66	8.01	56.19		149.22	-2.64	8
2015	$2,\!653$	-1.80	$1,\!340$	-0.53	7.02	1,313	-2.83	6.87	49.49		458.53	0.30	4
2016	2,333	-1.98	1,225	-1.18	6.45	$1,\!108$	-2.18	5.83	47.49	58	258.80	-0.80	4
2017	$2,\!179$	-1.52	1,045	-2.20	5.50	$1,\!134$	-1.16	5.97	52.04	17	197.50	-1.09	4
2018	$1,\!832$	-2.14	974	-2.04	5.13	858	-1.88	4.52	46.83	66	206.63	-0.67	3
2019	$1,\!815$	-1.46	970	-1.27	5.11	845	-1.37	4.45	46.56	24	352.07	0.81	2

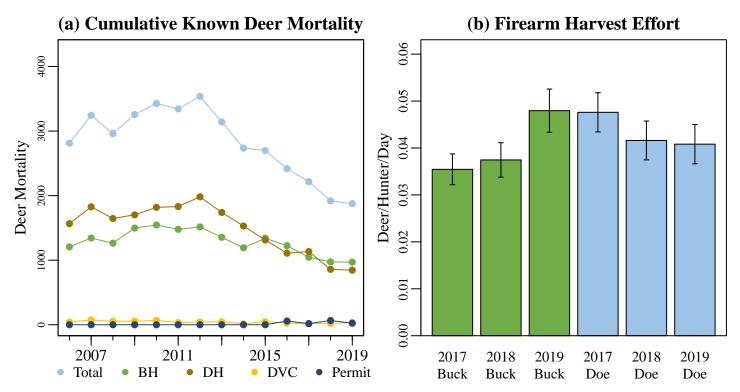


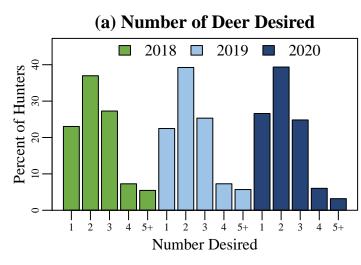
Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 224 Square Miles of Deer Habitat: 190 Percent Deer Habitat: 85

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,760	766	993	1	0	751	751	204	39	14	0	1	0	0	0	0
2017	1,558	749	807	2	0	585	684	207	63	16	1	2	0	0	0	0
2018	$1,\!383$	610	772	1	0	564	625	157	31	4	2	0	0	0	0	0
2019	$1,\!417$	614	801	2	0	608	627	168	10	3	1	0	0	0	0	0





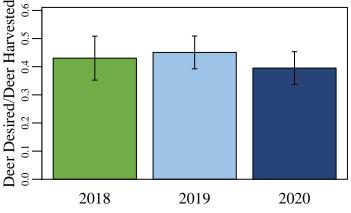


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Switzerland County Map



(b) Deer Habitat in Switzerland County

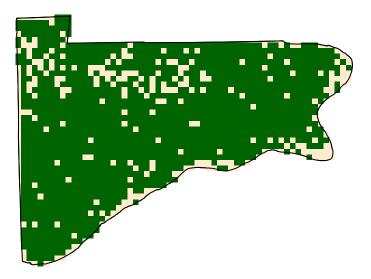


Figure 3. (a) Switzerland county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Switzerland county.

4/17/2020

#### **County Bonus Antlerless Quota**

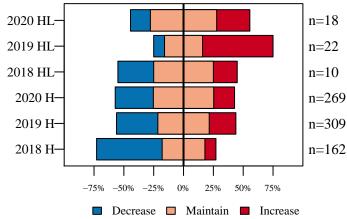


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

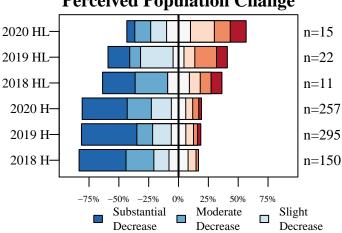


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

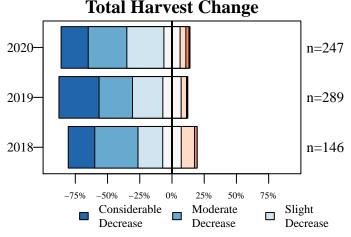
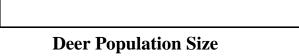


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



**Deer Management Survey Results** 

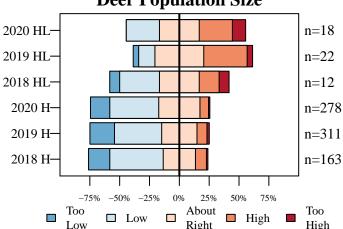


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

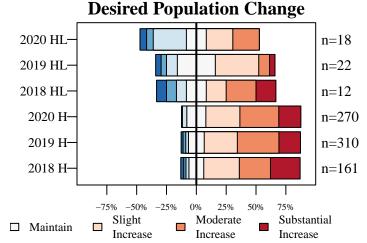


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

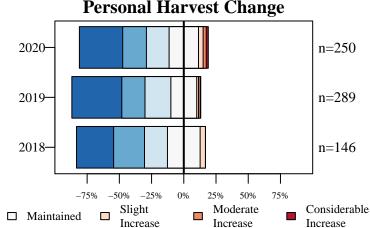


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

**Perceived Population Change** 

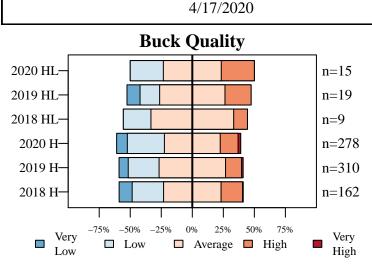
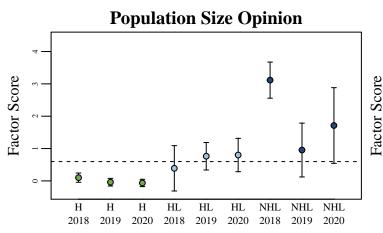


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



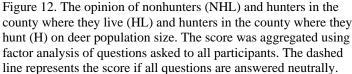




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

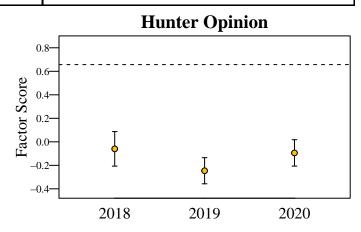


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

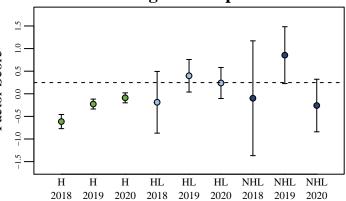


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

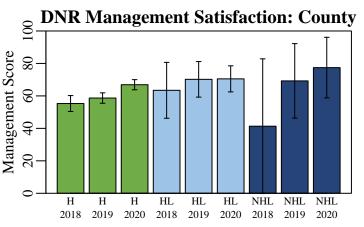


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 503 Square Miles of Deer Habitat: 93 Percent Deer Habitat: 18

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,211		702		6.82	509		4.94	42.03		245.97		4
2007	1,317		742		7.20	575		5.58	43.66		267.26		8
2008	$1,\!149$		640		6.21	509		4.94	44.30		267.50		8
2009	1,470		757		7.35	713		6.92	48.50		261.81		8
2010	1,414	1.14	765	1.29	7.43	649	0.98	6.30	45.90		250.05	-0.03	8
2011	1,322	0.07	735	0.27	7.14	587	-0.04	5.70	44.40		234.10	-2.45	8
2012	$1,\!441$	0.87	643	-1.68	6.24	798	2.47	7.75	55.38		211.83	-3.12	8
2013	1,325	-0.26	597	-1.80	5.80	728	0.69	7.07	54.94		234.62	-0.46	8
2014	$1,\!178$	-3.20	568	-1.75	5.51	610	-1.06	5.92	51.78		206.60	-1.69	4
2015	936	-3.89	468	-2.26	4.54	468	-2.36	4.54	50.00		208.07	-1.08	4
2016	897	-1.77	518	-0.86	5.57	379	-2.02	4.08	42.25	6	184.49	-2.45	3
2017	755	-1.69	412	-2.16	4.43	343	-1.45	3.69	45.43	7	202.11	-0.39	3
2018	863	-0.68	478	-0.46	5.14	385	-0.75	4.14	44.61	1	198.77	-0.47	2
2019	917	-0.06	517	0.48	5.56	400	-0.35	4.30	43.62	12	195.16	-0.51	2

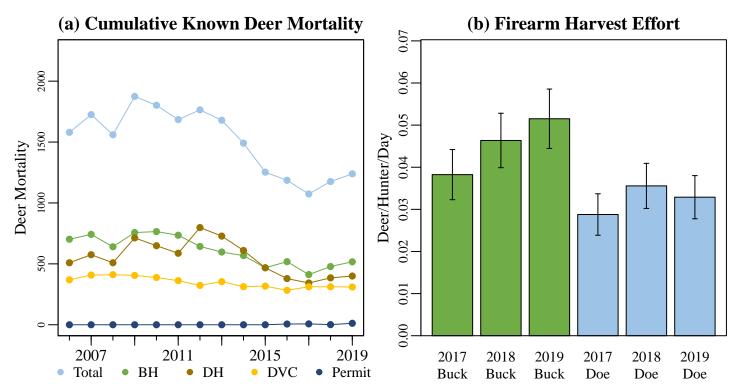


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 503 Square Miles of Deer Habitat: 93 Percent Deer Habitat: 18

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	722	289	431	2	0	336	320	58	6	2	0	0	0	0	0	0
2017	584	268	313	3	0	243	264	63	10	4	0	0	0	0	0	0
2018	666	284	376	6	0	288	297	69	10	0	2	0	0	0	0	0
2019	697	281	411	5	0	301	316	66	11	1	1	1	0	0	0	0

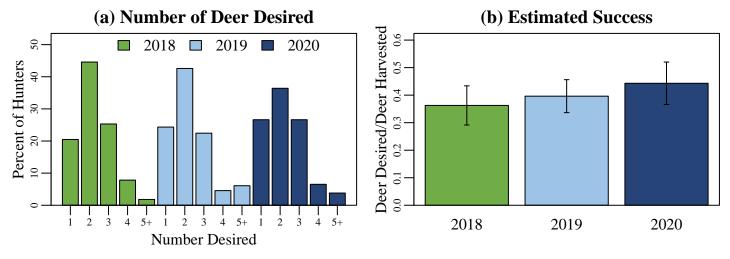


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Tippecanoe County Map



(b) Deer Habitat in Tippecanoe County

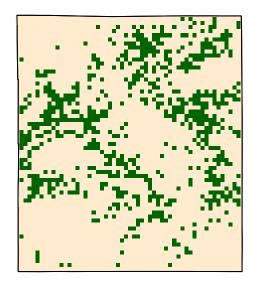


Figure 3. (a) Tippecanoe county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Tippecanoe county.

4/17/2020

#### **County Bonus Antlerless Quota**

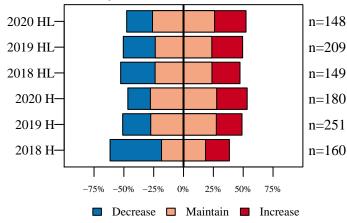


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

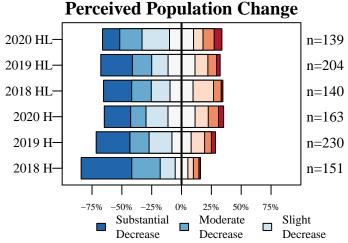


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

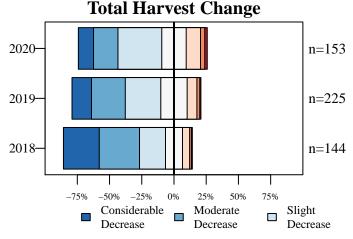
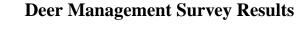


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



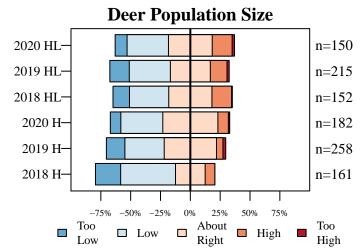
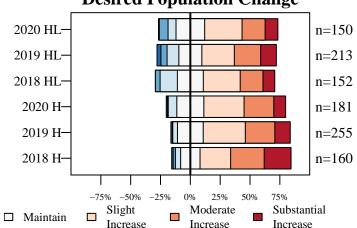


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

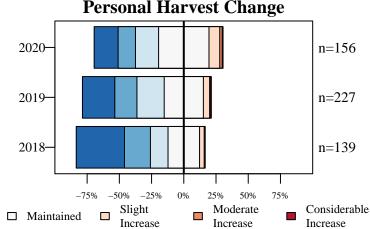


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

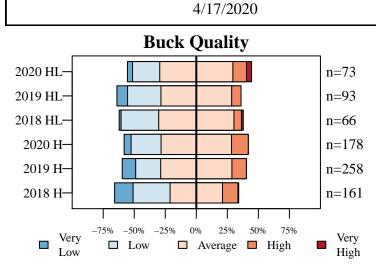


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

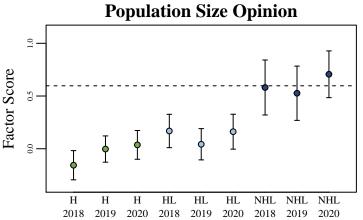


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

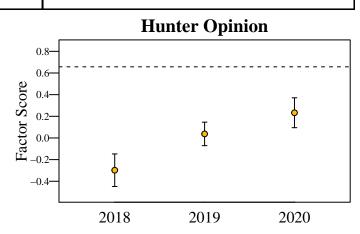


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#### **Management Opinion**

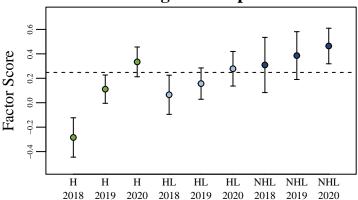


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

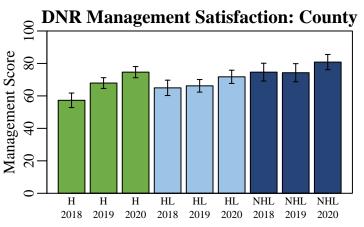


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 260 Square Miles of Deer Habitat: 8 Percent Deer Habitat: 3

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	81		57		6.33	24		2.67	29.63		131.87		0
2007	133		85		9.44	48		5.33	36.09		194.62		Α
2008	128		73		8.11	55		6.11	42.97		174.38		А
2009	95		67		7.44	28		3.11	29.47		189.79		А
2010	120	0.65	79	0.88	8.78	41	0.42	4.56	34.17		105.13	-0.47	А
2011	90	-0.95	47	-2.33	5.22	43	0.29	4.78	47.78		134.65	-0.63	А
2012	99	-0.73	63	-0.49	7.00	36	-0.70	4.00	36.36		103.03	-1.47	Α
2013	95	-0.69	64	-0.15	7.11	31	-0.97	3.44	32.63		158.90	0.44	А
2014	121	1.81	85	1.83	9.44	36	0.03	4.00	29.75		142.78	0.12	А
2015	114	0.62	78	0.70	8.67	36	-0.30	4.00	31.58		119.77	-0.38	А
2016	115	0.85	74	0.45	9.25	41	1.08	5.12	35.65		132.32	0.02	А
2017	77	-2.84	56	-1.79	7.00	21	-4.24	2.62	27.27	3	148.49	0.80	А
2018	111	0.36	79	0.66	9.88	32	-0.13	4.00	28.83		129.35	-0.74	А
2019	125	1.00	88	1.23	11.00	37	0.50	4.62	29.60	3	133.88	-0.06	А

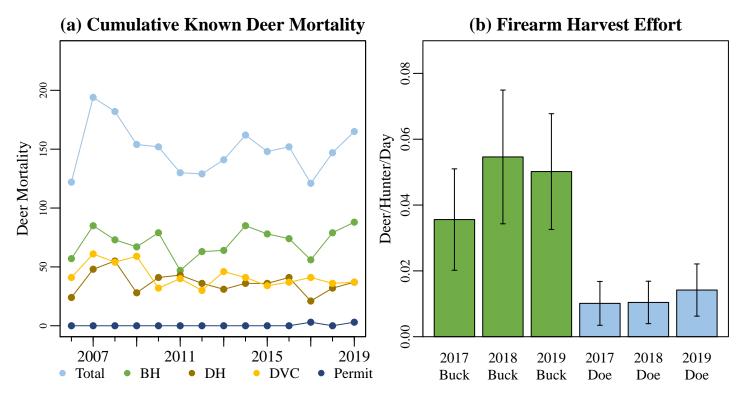


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 260 Square Miles of Deer Habitat: 8 Percent Deer Habitat: 3

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	99	29	70	0	0	56	41	2	0	0	0	0	0	0	0	0
2017	71	23	48	0	0	44	25	2	0	0	0	0	0	0	0	0
2018	96	24	72	0	0	58	37	1	0	0	0	0	0	0	0	0
2019	107	26	81	0	0	67	36	4	0	0	0	0	0	0	0	0

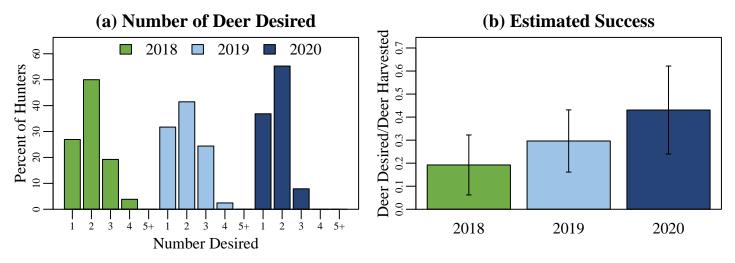


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Tipton County Map

(b) Deer Habitat in Tipton County

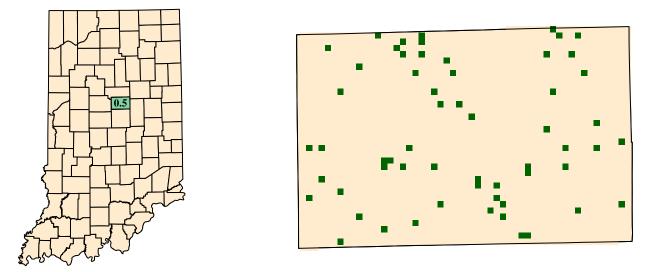


Figure 3. (a) Tipton county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Tipton county.

4/17/2020

#### **County Bonus Antlerless Quota**

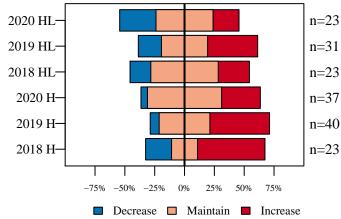


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

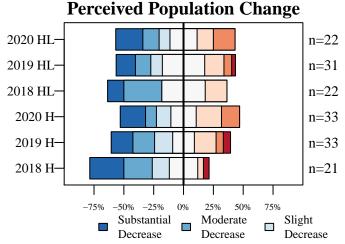


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

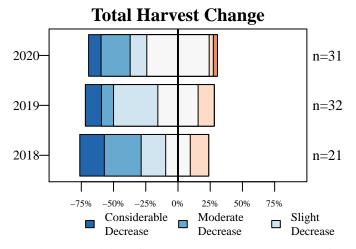


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

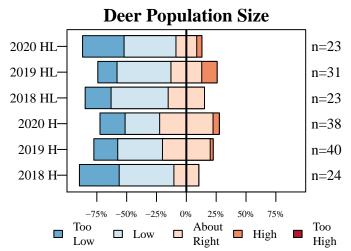
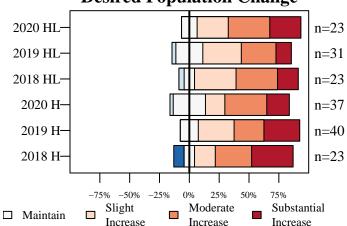


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

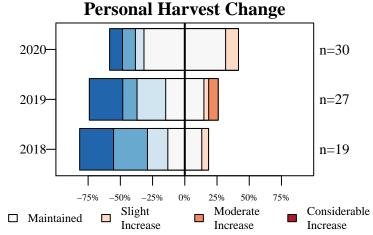


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

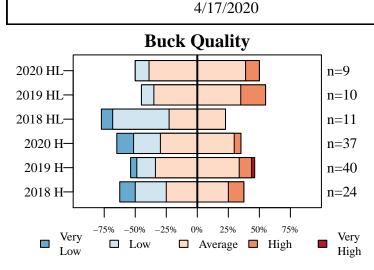
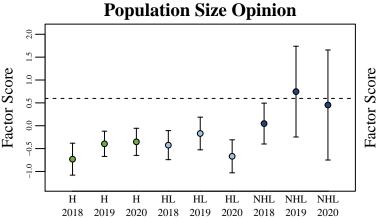
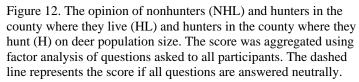


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





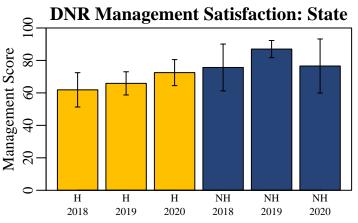


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

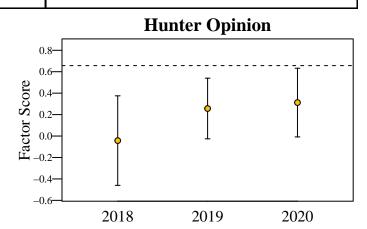


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 2.0 1.5 1.0 0.5 0.0

2018 2019 2018 2019 2020 2018 2019 2020 2020 Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

HL

HL

NHL

NHL

NHL

HL

0.2

Н

Η

Η

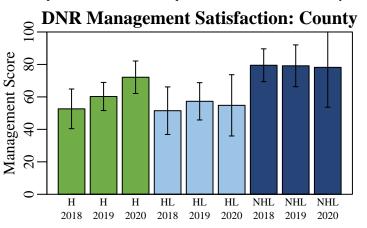


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

### **Union County**

4/17/2020

Total Square Miles: 165 Square Miles of Deer Habitat: 44 Percent Deer Habitat: 27

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI			MI		Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	477		236		5.02	241		5.13	50.52		556.72		2
2007	597		285		6.06	312		6.64	52.26		767.41		2
2008	595		314		6.68	281		5.98	47.23		747.34		2
2009	650		338		7.19	312		6.64	48.00		419.85		2
2010	739	2.47	371	1.97	7.89	368	2.15	7.83	49.80		466.18	-0.90	3
2011	659	0.50	334	0.49	7.11	325	0.48	6.91	49.32		478.49	-0.71	3
2012	604	-0.75	267	-1.93	5.68	337	0.55	7.17	55.79		208.89	-2.19	3
2013	572	-1.35	274	-1.33	5.83	298	-0.83	6.34	52.10		175.61	-1.50	3
2014	554	-1.43	269	-1.07	5.72	285	-1.61	6.06	51.44		201.89	-1.01	3
2015	621	-0.06	327	0.51	6.96	294	-0.87	6.26	47.34		251.30	-0.36	3
2016	617	0.36	319	0.74	7.25	298	-0.44	6.77	48.30		109.40	-1.25	3
2017	618	0.83	294	0.10	6.68	324	1.08	7.36	52.43		61.82	-2.44	3
2018	628	1.01	330	1.28	7.50	298	-0.12	6.77	47.45	6	124.94	-0.47	2
2019	664	1.86	352	1.71	8.00	312	0.84	7.09	46.99	2	63.08	-1.14	2

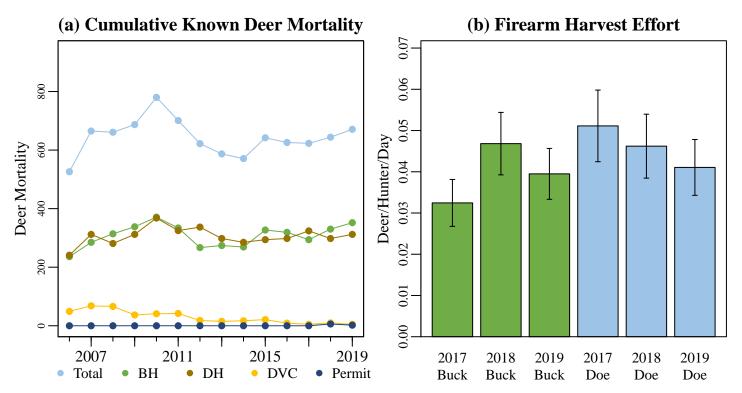


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

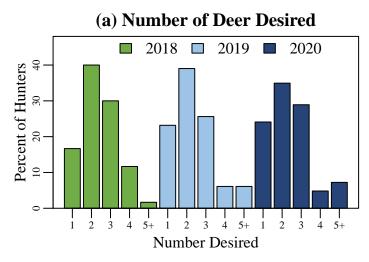
# **Union County**

4/17/2020

Total Square Miles: 165 Square Miles of Deer Habitat: 44 Percent Deer Habitat: 27

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	469	215	254	0	0	189	213	52	14	1	0	0	0	0	0	0
2017	473	247	226	0	0	165	238	58	10	2	0	0	0	0	0	0
2018	483	227	256	0	0	184	233	60	5	1	0	0	0	0	0	0
2019	501	217	284	0	0	209	212	72	8	0	0	0	0	0	0	0





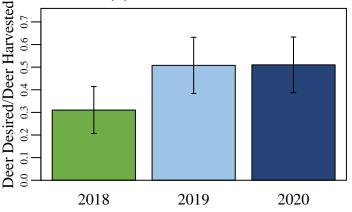


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Union County Map



(b) Deer Habitat in Union County

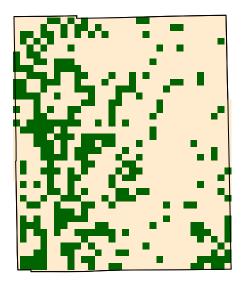


Figure 3. (a) Union county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Union county.

### **Union County**

4/17/2020

#### **County Bonus Antlerless Quota**

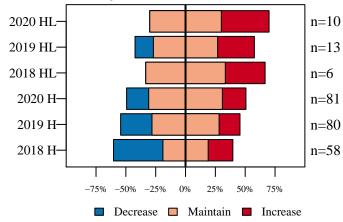


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

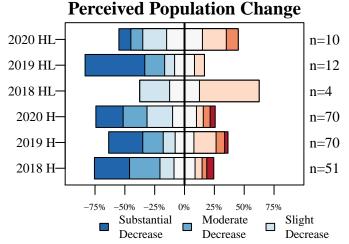


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

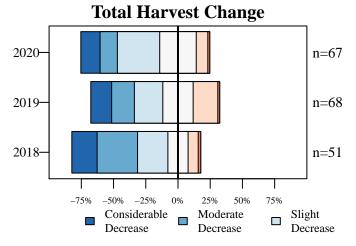


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

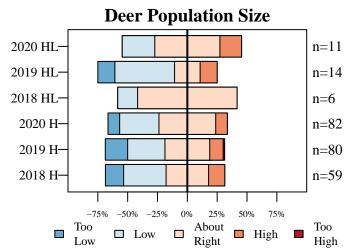
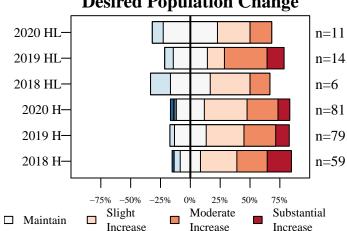


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

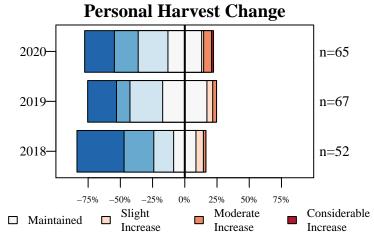


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

### **Union County**

4/17/2020

#### **Buck Quality**

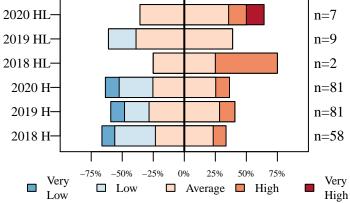
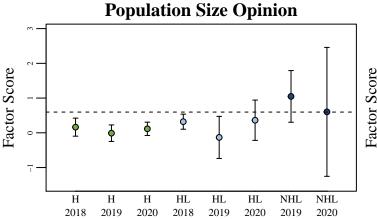


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



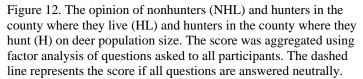




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

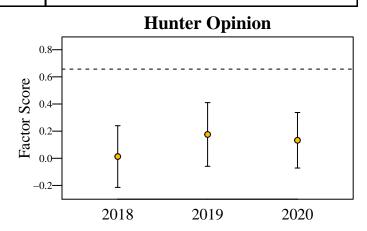
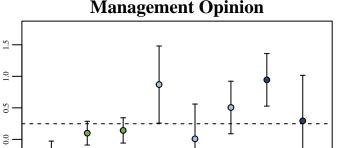


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-0.5 Н Η Η HL HL HL NHL NHL 2018 2019 2020 2018 2019 2020 2019 2020 Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed

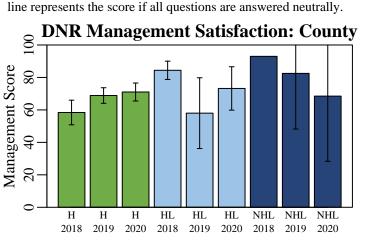


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 236 Square Miles of Deer Habitat: 73 Percent Deer Habitat: 31

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			MI Habitat		такеп	Traveled	DVC	
2006	825		442		6.31	383		5.47	46.42		49.98		8
2007	713		404		5.77	309		4.41	43.34		99.39		8
2008	763		405		5.79	358		5.11	46.92		98.61		8
2009	761		408		5.83	353		5.04	46.39		121.75		8
2010	755	-0.36	390	-1.52	5.57	365	0.57	5.21	48.34		120.16	1.10	8
2011	770	0.16	404	-0.30	5.77	366	0.45	5.23	47.53		138.60	1.40	8
2012	903	6.64	354	-6.87	5.06	549	8.41	7.84	60.80		118.09	0.14	8
2013	973	2.89	380	-0.54	5.43	593	2.31	8.47	60.95		112.94	-0.46	8
2014	990	1.58	381	-0.29	5.44	609	1.41	8.70	61.52		114.44	-0.81	8
2015	902	0.22	371	-0.59	5.30	531	0.28	7.59	58.87		120.77	-0.01	8
2016	776	-1.52	315	-3.48	4.32	461	-0.71	6.32	59.41	4	88.08	-3.18	8
2017	778	-1.55	306	-1.97	4.19	472	-1.31	6.47	60.67	3	97.14	-1.05	4
2018	685	-1.93	288	-1.69	3.95	397	-2.01	5.44	57.96	3	80.58	-1.93	2
2019	748	-0.65	344	0.29	4.71	404	-1.13	5.53	54.01	5	76.59	-1.38	2

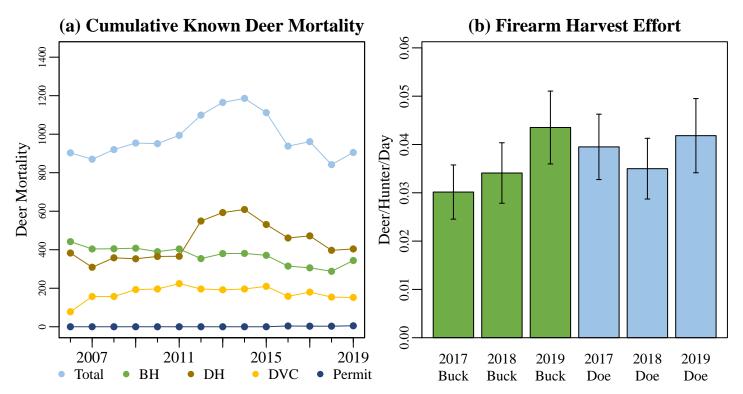


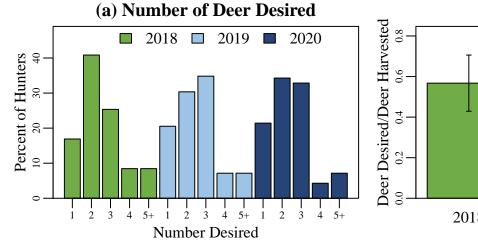
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4/17/2020

Total Square Miles: 236 Square Miles of Deer Habitat: 73 Percent Deer Habitat: 31

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	555	309	238	8	0	148	324	58	19	5	1	0	0	0	0	0
2017	539	317	217	5	0	121	321	72	17	6	1	1	0	0	0	0
2018	500	273	221	6	0	136	294	57	10	2	0	1	0	0	0	0
2019	512	245	255	12	0	158	271	63	13	5	0	1	1	0	0	0



#### (b) Estimated Success

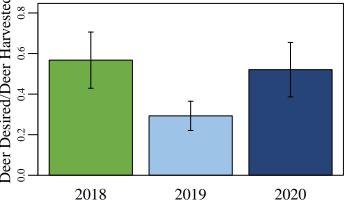


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(a) Vanderburgh County Map



(b) Deer Habitat in Vanderburgh County

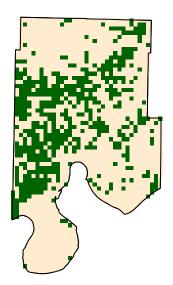


Figure 3. (a) Vanderburgh county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Vanderburgh county.

4/17/2020

#### **County Bonus Antlerless Quota**

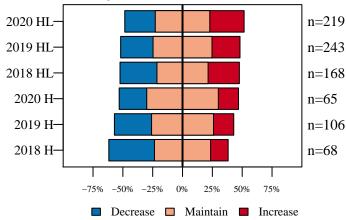


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

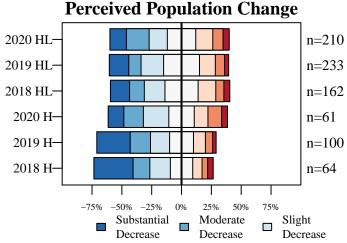


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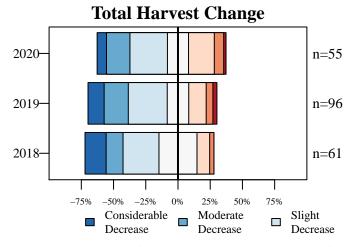


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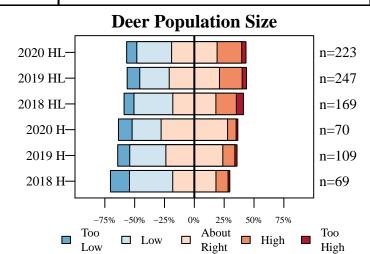
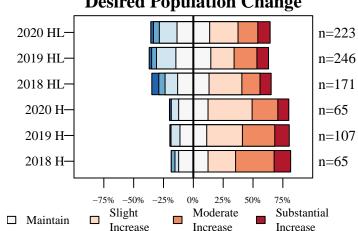


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**Desired Population Change** 

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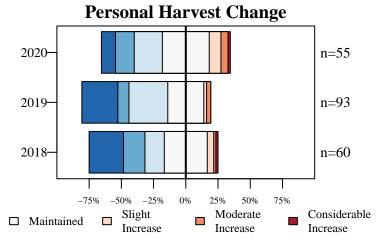


Figure 9. Opinion of hunters on how their personal number of harvested deer has changed over the last five years.

#### **Deer Management Survey Results**

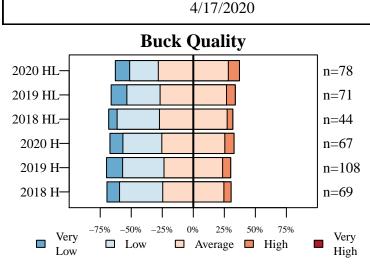


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

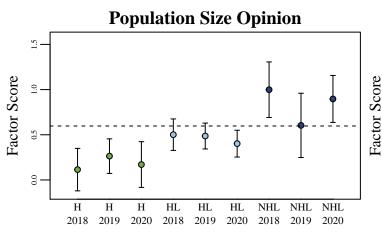


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

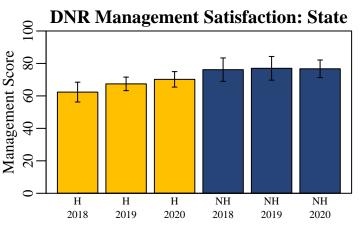


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

# Hunter Opinion

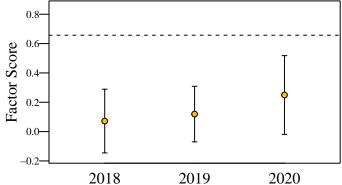


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

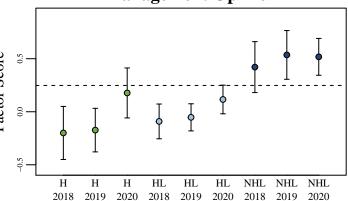


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

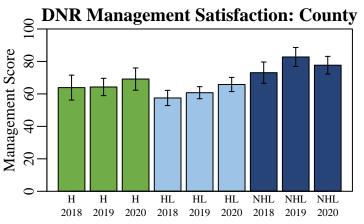


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

**Deer Management Survey Results** 

4/17/2020

Total Square Miles: 260 Square Miles of Deer Habitat: 78 Percent Deer Habitat: 30

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	1,022		548		6.16	474		5.33	46.38		276.46		4
2007	1,014		558		6.27	456		5.12	44.97		282.12		4
2008	$1,\!188$		633		7.11	555		6.24	46.72		294.15		8
2009	1,204		641		7.20	563		6.33	46.76		329.68		8
2010	1,162	0.76	610	0.56	6.85	552	0.95	6.20	47.50		204.20	-1.69	8
2011	$1,\!379$	2.82	735	3.20	8.26	644	2.44	7.24	46.70		184.41	-2.03	8
2012	1,258	0.53	579	-0.88	6.51	679	1.87	7.63	53.97		303.36	0.72	8
2013	989	-2.89	481	-2.71	5.40	508	-1.54	5.71	51.37		273.11	0.15	8
2014	947	-1.76	496	-1.22	5.57	451	-1.97	5.07	47.62		219.49	-0.63	4
2015	1,093	-0.30	602	0.21	6.76	491	-0.80	5.52	44.92		266.14	0.59	4
2016	$1,\!104$	-0.16	605	0.26	7.76	499	-0.55	6.40	45.20	36	226.35	-0.49	4
2017	$1,\!085$	0.06	569	0.28	7.29	516	-0.11	6.62	47.56	28	256.31	-0.04	4
2018	$1,\!071$	0.39	562	0.19	7.21	509	0.63	6.53	47.53	23	274.18	1.08	4
2019	1,033	-0.42	582	0.35	7.46	451	-1.66	5.78	43.66	9	385.58	5.64	2

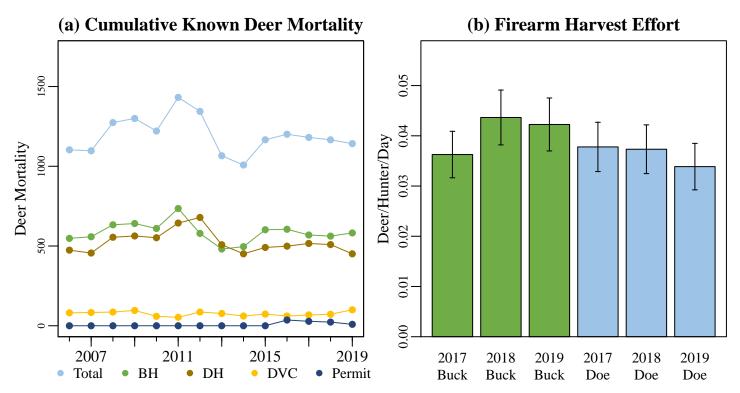


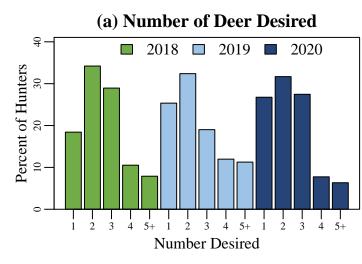
Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 260 Square Miles of Deer Habitat: 78 Percent Deer Habitat: 30

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	790	276	513	1	0	360	304	102	15	9	0	0	0	0	0	0
2017	776	292	484	0	0	331	328	92	13	11	0	1	0	0	0	0
2018	727	262	464	1	0	306	283	102	28	7	0	1	0	0	0	0
2019	754	255	498	1	0	355	283	102	11	2	1	0	0	0	0	0





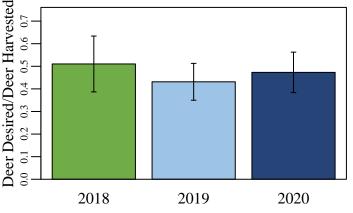


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Vermillion County Map



(b) Deer Habitat in Vermillion County



Figure 3. (a) Vermillion county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Vermillion county.

4/17/2020

#### **County Bonus Antlerless Quota**

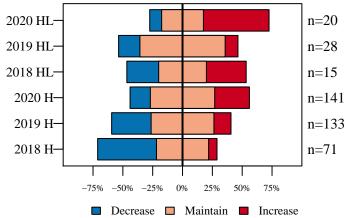


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

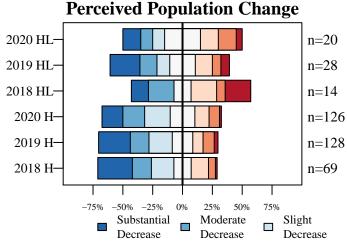


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

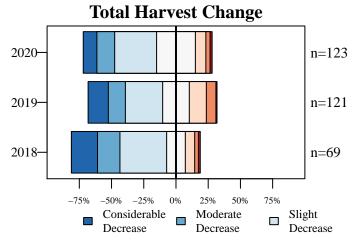


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.

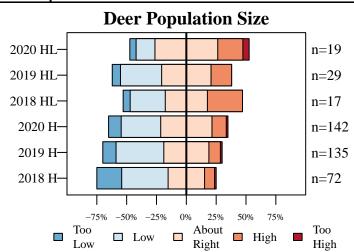


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

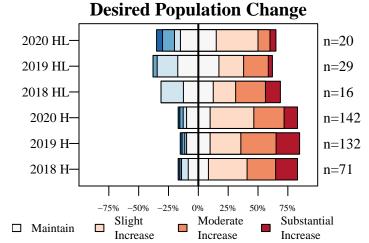
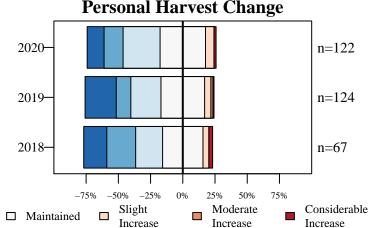


Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



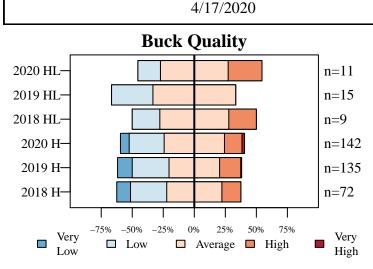


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

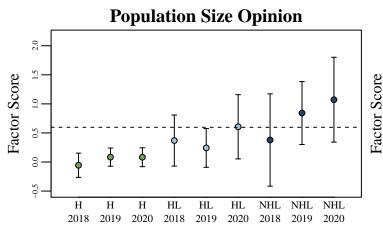


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

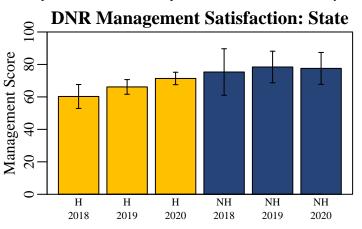


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

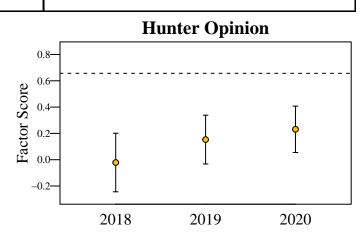


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

**Management Opinion** 

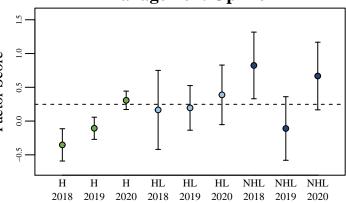


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

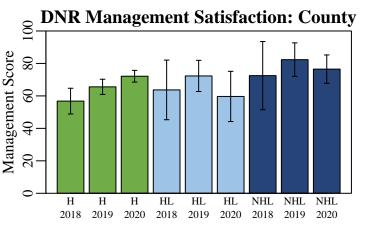


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 410 Square Miles of Deer Habitat: 157 Percent Deer Habitat: 38

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
	1 000		-			600			11.00				
2006	1,382		762		4.95	620		4.03	44.86		241.44		4
2007	1,327		744		4.83	583		3.79	43.93		266.01		4
2008	$1,\!439$		781		5.07	658		4.27	45.73		223.66		8
2009	1,419		744		4.83	675		4.38	47.57		218.35		8
2010	$1,\!443$	1.28	769	0.51	4.99	674	1.18	4.38	46.71		198.60	-2.01	8
2011	1,507	2.17	788	1.74	5.12	719	1.94	4.67	47.71		198.52	-1.22	8
2012	$1,\!607$	2.77	763	-0.11	4.95	844	3.68	5.48	52.52		167.70	-1.93	8
2013	$1,\!432$	-0.66	757	-0.70	4.92	675	-0.51	4.38	47.14		177.36	-1.09	8
2014	1,335	-1.88	710	-3.34	4.61	625	-1.26	4.06	46.82		181.26	-0.54	8
2015	1,560	0.95	797	1.37	5.18	763	0.67	4.95	48.91		187.41	0.20	8
2016	1,553	0.60	833	2.06	5.31	720	-0.06	4.59	46.36		195.82	1.16	8
2017	1,596	0.88	845	1.58	5.38	751	0.31	4.78	47.06	4	181.60	-0.03	4
2018	1,449	-0.42	823	0.62	5.24	626	-1.42	3.99	43.20	2	176.90	-1.08	3
2019	$1,\!434$	-0.61	829	0.51	5.28	605	-1.37	3.85	42.19	3	182.62	-0.27	2

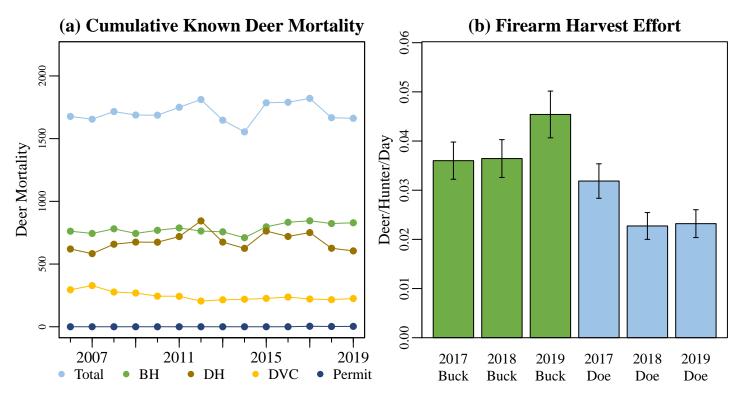


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 410 Square Miles of Deer Habitat: 157 Percent Deer Habitat: 38

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	$1,\!181$	484	696	1	0	525	502	120	25	7	2	0	0	0	0	0
2017	$1,\!187$	520	661	4	2	505	489	158	27	6	1	1	0	0	0	0
2018	$1,\!136$	446	687	2	1	532	473	112	18	1	0	0	0	0	0	0
2019	$1,\!137$	457	679	1	0	517	490	127	3	0	0	0	0	0	0	0

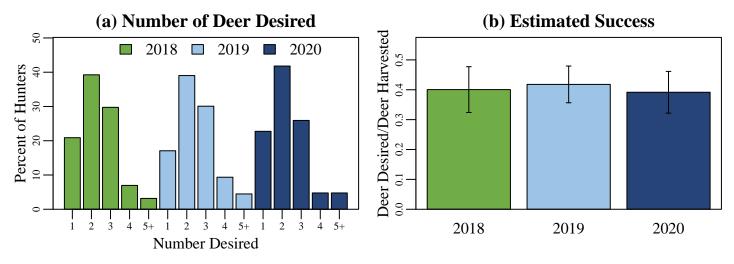


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Vigo County Map



(b) Deer Habitat in Vigo County

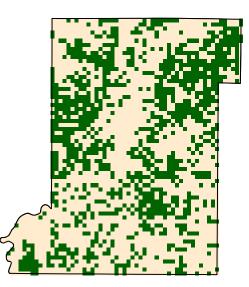


Figure 3. (a) Vigo county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Vigo county.

4/17/2020

#### **County Bonus Antlerless Quota**

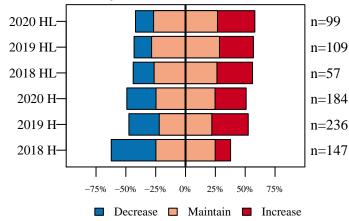


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

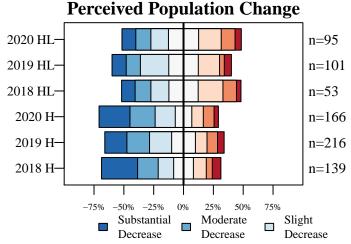


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

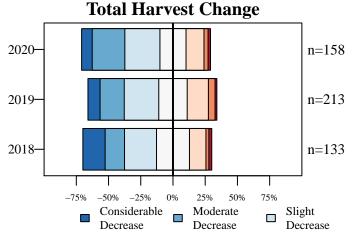


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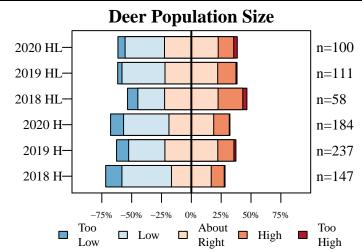
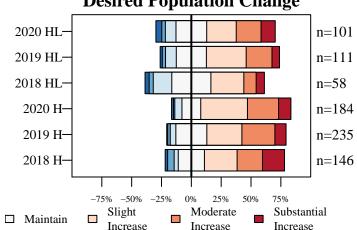
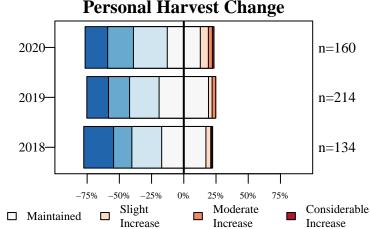


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

#### **Buck Quality**

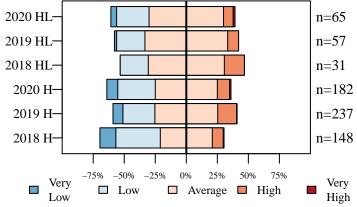


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

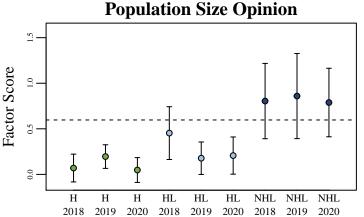


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

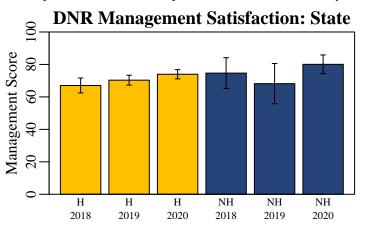


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

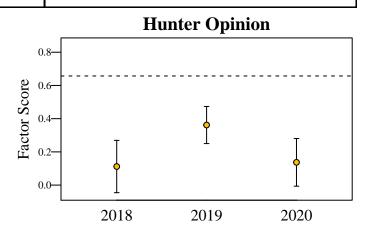
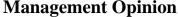


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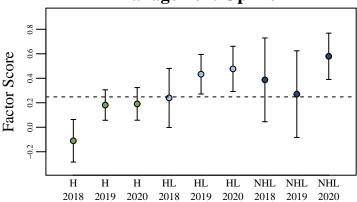


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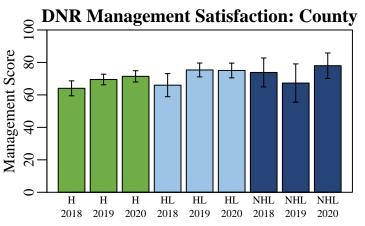


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4/17/2020

Total Square Miles: 421 Square Miles of Deer Habitat: 81 Percent Deer Habitat: 19

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	$1,\!339$		726		10.52	613		8.88	45.78		514.77		1
2007	$1,\!689$		864		12.52	825		11.96	48.85		545.84		2
2008	1,725		885		12.83	840		12.17	48.70		615.49		2
2009	1,729		834		12.09	895		12.97	51.76		587.66		3
2010	1,773	1.02	913	1.38	13.23	860	0.77	12.46	48.51		573.73	0.42	3
2011	1,798	0.83	871	0.37	12.62	927	1.08	13.43	51.56		608.62	1.06	4
2012	$1,\!696$	-1.09	747	-4.37	10.83	949	1.92	13.75	55.96		475.27	-3.96	4
2013	$1,\!183$	-13.77	608	-3.77	8.81	575	-7.06	8.33	48.61		541.87	-0.53	3
2014	1,338	-1.16	696	-0.82	10.09	642	-1.31	9.30	47.98		585.55	0.54	3
2015	$1,\!330$	-0.82	718	-0.39	10.41	612	-1.04	8.87	46.02		562.89	0.11	3
2016	1,235	-0.89	720	-0.08	8.89	515	-1.24	6.36	41.70		530.34	-0.48	3
2017	$1,\!091$	-1.32	594	-1.95	7.33	497	-0.96	6.14	45.55	4	501.50	-0.91	2
2018	$1,\!174$	-0.59	669	0.03	8.26	505	-1.02	6.23	43.02	2	523.21	-0.66	2
2019	$1,\!379$	1.39	791	2.15	9.77	588	0.50	7.26	42.64	2	571.06	0.91	2

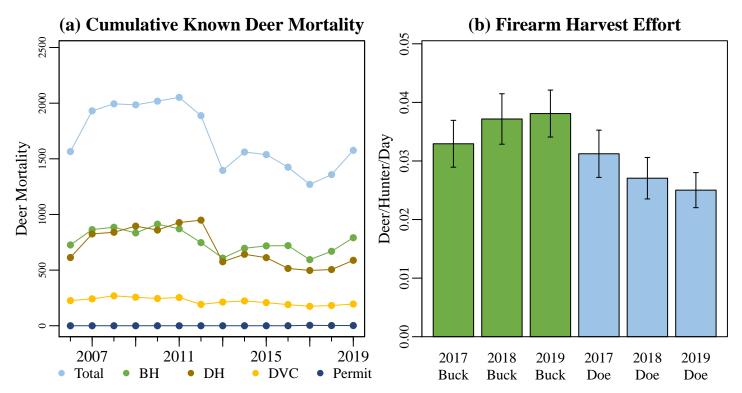


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 421 Square Miles of Deer Habitat: 81 Percent Deer Habitat: 19

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	${}^{8}_{\mathrm{AL}}$	9 AL	10 AL
2016	1,019	401	618	0	0	502	432	72	11	2	0	0	0	0	0	0
2017	888	409	478	1	0	373	428	79	7	1	0	0	0	0	0	0
2018	923	369	551	3	0	412	414	88	9	0	0	0	0	0	0	0
2019	$1,\!086$	430	654	2	0	487	487	103	8	1	0	0	0	0	0	0

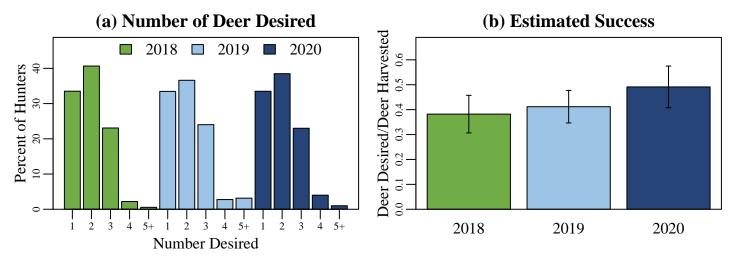


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Wabash County Map



(b) Deer Habitat in Wabash County

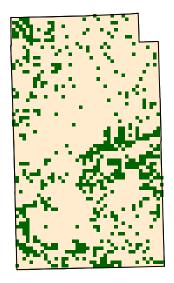


Figure 3. (a) Wabash county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Wabash county.

4/17/2020

#### **County Bonus Antlerless Quota**

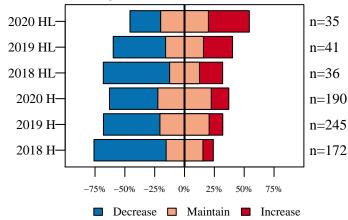


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

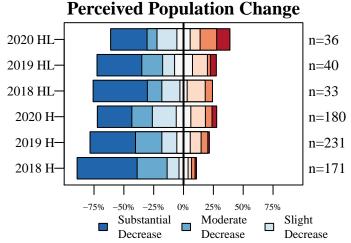


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

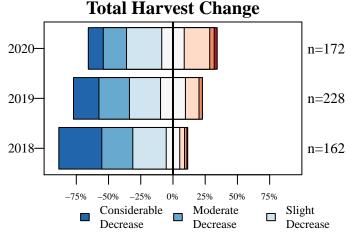


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



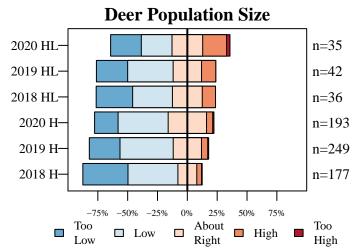
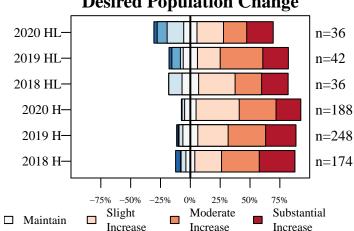
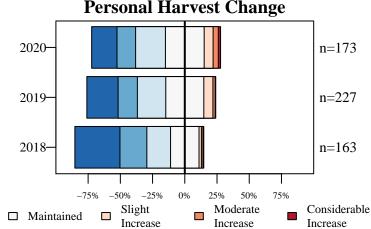


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020
Buck Quality

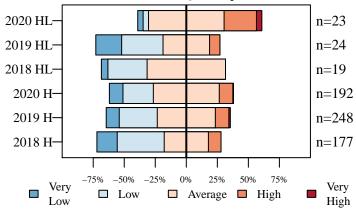
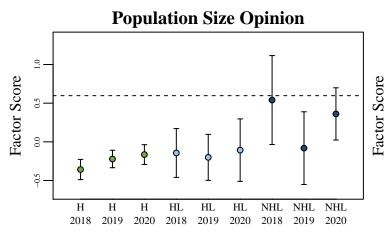


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



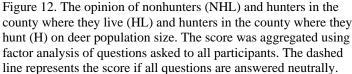




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

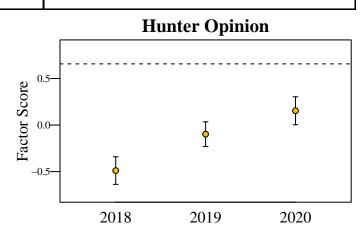


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.



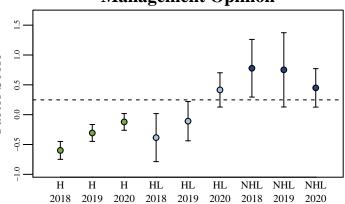


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

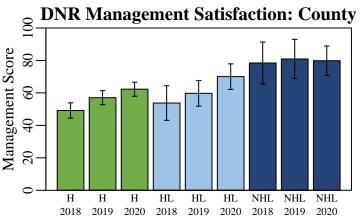


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 366 Square Miles of Deer Habitat: 74 Percent Deer Habitat: 20

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles	Total Trend in DVC	CBAQ
					Habitat			Habitat			Traveled		
2006	1,002		526		6.19	476		5.60	47.50		406.26		4
2007	1,086		587		6.91	499		5.87	45.95		390.13		4
2008	1,244		638		7.51	606		7.13	48.71		481.64		4
2009	1,203		591		6.95	612		7.20	50.87		539.66		8
2010	1,288	1.65	647	1.54	7.61	641	1.58	7.54	49.77		446.88	-0.33	8
2011	1,271	0.90	650	1.08	7.65	621	0.73	7.31	48.86		492.81	0.66	8
2012	1,496	3.44	665	1.37	7.82	831	4.22	9.78	55.55		621.85	2.72	8
2013	1,255	-0.40	572	-2.35	6.73	683	0.22	8.04	54.42		619.53	1.52	8
2014	1,060	-2.15	531	-2.30	6.25	529	-1.65	6.22	49.91		587.52	0.56	4
2015	1,114	-1.03	566	-0.81	6.66	548	-1.02	6.45	49.19		540.64	-0.16	4
2016	1,052	-1.10	581	-0.27	7.85	471	-1.41	6.36	44.77		531.30	-0.74	4
2017	806	-2.09	438	-2.92	5.92	368	-1.69	4.97	45.66		496.40	-1.96	3
2018	882	-1.08	513	-0.42	6.93	369	-1.31	4.99	41.84		710.59	3.20	2
2019	1,086	0.78	605	1.41	8.18	481	0.28	6.50	44.29		594.13	0.25	2

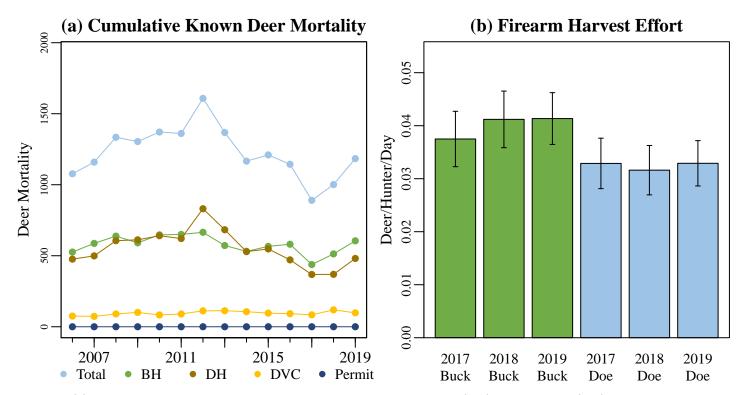


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 366 Square Miles of Deer Habitat: 74 Percent Deer Habitat: 20

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	3 AL	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	775	307	468	0	0	339	315	97	21	3	0	0	0	0	0	0
2017	627	254	373	0	0	284	260	76	7	0	0	0	0	0	0	0
2018	691	267	421	3	0	322	291	70	8	0	0	0	0	0	0	0
2019	811	293	518	0	0	361	345	96	5	4	0	0	0	0	0	0

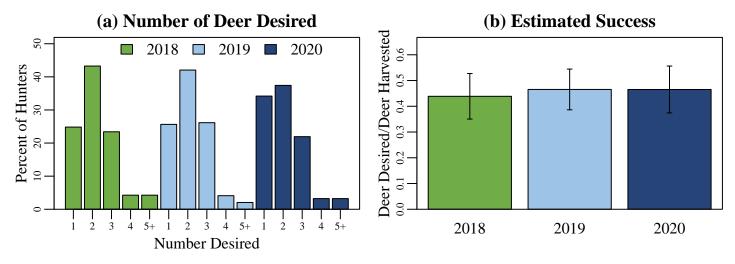


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Warren County Map



(b) Deer Habitat in Warren County

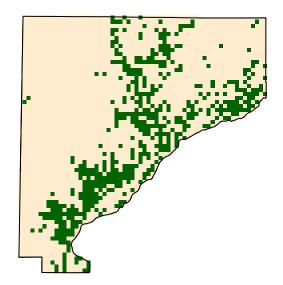


Figure 3. (a) Warren county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Warren county.

4/17/2020

#### **County Bonus Antlerless Quota**

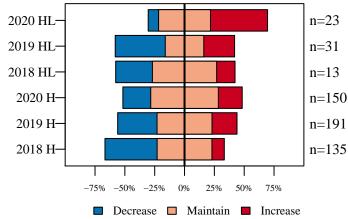


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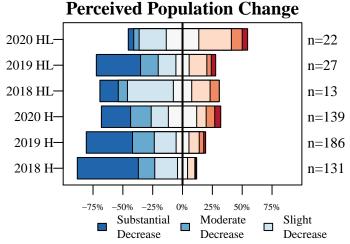


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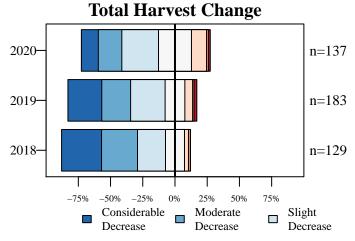


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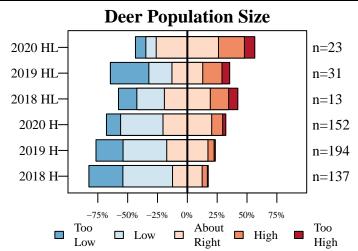
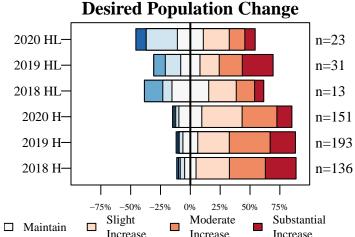


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

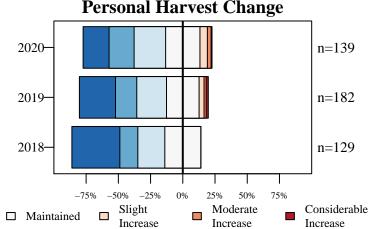


 Maintain
 Slight Increase
 Moderate Increase
 Substantial Increase

 Figure 7. The desired change in the size of the deer population

described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

#### **Buck Quality**

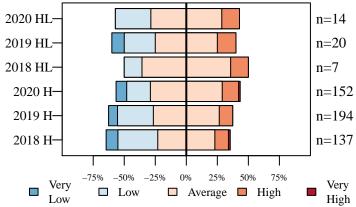
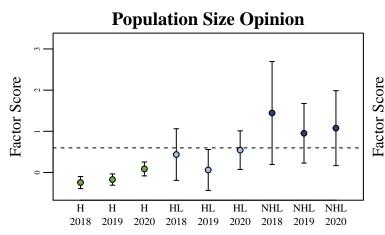


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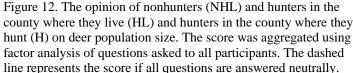




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

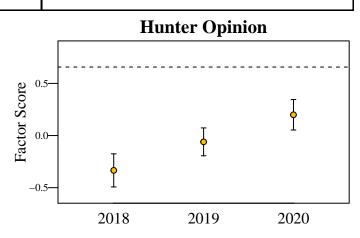


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

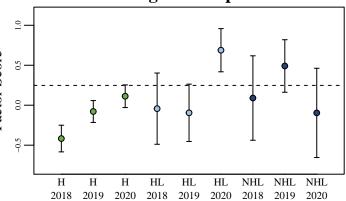


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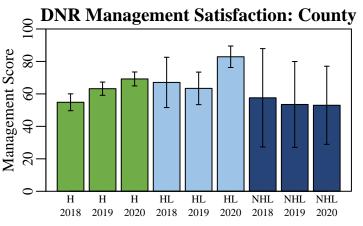


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4/17/2020

Total Square Miles: 391 Square Miles of Deer Habitat: 209 Percent Deer Habitat: 53

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	1,584		879		4.86	705		3.90	44.51		421.35		2
2007	1,303		658		3.64	645		3.56	49.50		457.24		4
2008	1,502		814		4.50	688		3.80	45.81		414.55		4
2009	1,400		767		4.24	633		3.50	45.21		403.14		4
2010	1,452	-0.07	799	0.10	4.41	653	-0.53	3.61	44.97		414.32	0.11	4
2011	$1,\!355$	-0.88	719	-0.79	3.97	636	-0.95	3.51	46.94		413.34	-0.42	4
2012	$1,\!671$	3.43	769	0.28	4.25	902	11.34	4.98	53.98		390.82	-1.41	4
2013	1,555	0.65	853	2.18	4.71	702	0.00	3.88	45.14		379.34	-2.70	3
2014	$1,\!453$	-0.26	784	0.05	4.33	669	-0.32	3.70	46.04		373.78	-1.76	3
2015	$1,\!405$	-0.77	776	-0.18	4.29	629	-0.77	3.48	44.77		367.25	-1.44	3
2016	$1,\!391$	-0.77	785	0.10	3.76	606	-0.90	2.90	43.57	24	341.94	-2.37	3
2017	$1,\!259$	-2.01	687	-3.13	3.29	572	-1.10	2.74	45.43	30	375.34	0.26	2
2018	$1,\!344$	-0.64	719	-0.98	3.44	625	-0.21	2.99	46.50	33	360.91	-0.44	2
2019	$1,\!374$	0.05	781	0.69	3.74	593	-0.77	2.84	43.16	25	317.40	-3.44	2

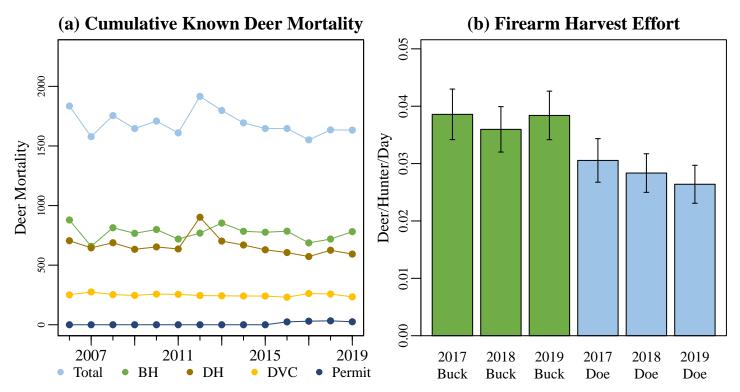


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

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Year	Total Hunter	0 ·s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	1,084	417	664	3	0	494	474	104	10	1	1	0	0	0	0	0
2017	1,021	448	573	0	0	457	456	95	12	1	0	0	0	0	0	0
2018	1,098	458	637	2	1	506	492	92	8	0	0	0	0	0	0	0
2019	$1,\!088$	426	656	6	0	505	475	98	7	2	0	1	0	0	0	0

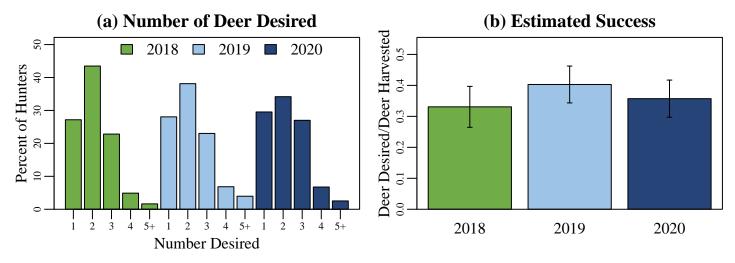


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(a) Warrick County Map



(b) Deer Habitat in Warrick County

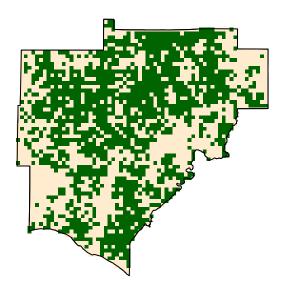


Figure 3. (a) Warrick county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Warrick county.

4/17/2020

#### **County Bonus Antlerless Quota**

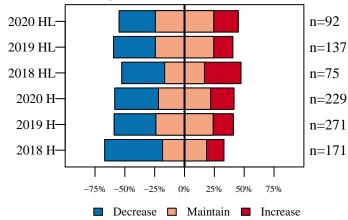


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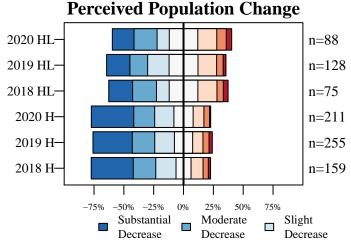


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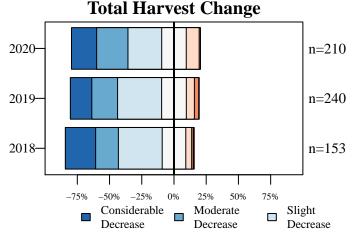
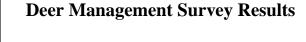


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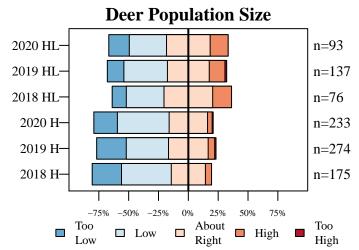
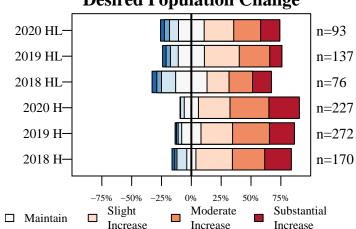
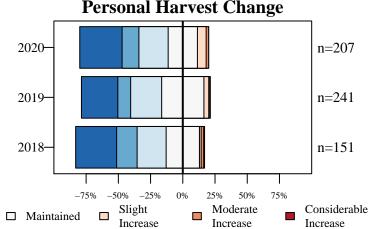


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#### **Desired Population Change**

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4/17/2020

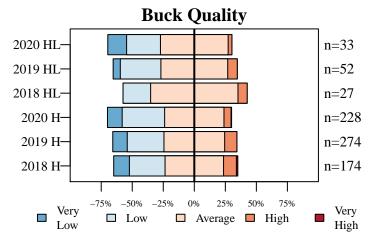


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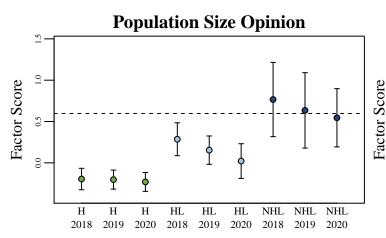


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

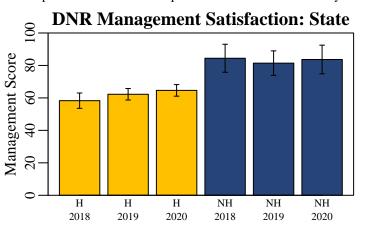


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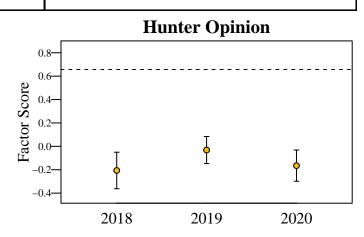


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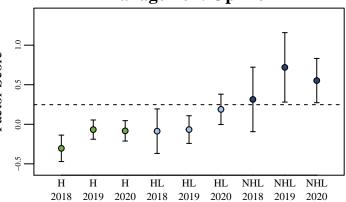


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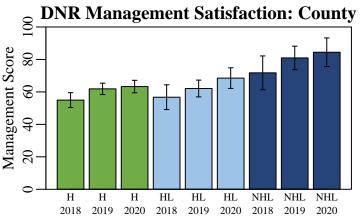


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4/17/2020

Total Square Miles: 516 Square Miles of Deer Habitat: 338 Percent Deer Habitat: 65

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	2,803		1,331		3.63	1,472		4.01	52.52		883.79		8
2007	2,346		$1,\!172$		3.19	1,174		3.20	50.04		727.60		8
2008	$2,\!477$		1,161		3.16	1,316		3.59	53.13		587.94		8
2009	2,601		1,275		3.47	1,326		3.61	50.98		667.96		8
2010	2,726	1.00	1,315	1.14	3.58	$1,\!411$	0.82	3.84	51.76		690.74	-0.19	8
2011	$2,\!614$	0.13	1,233	-0.22	3.36	1,381	0.37	3.76	52.83		648.88	-0.58	8
2012	2,910	2.46	1,288	0.86	3.51	1,622	3.29	4.42	55.74		573.54	-1.75	8
2013	$3,\!153$	3.00	$1,\!432$	2.96	3.90	1,721	2.50	4.69	54.58		729.15	1.87	8
2014	2,803	0.01	1,310	0.02	3.57	$1,\!493$	0.00	4.07	53.26		653.11	-0.15	8
2015	2,892	0.25	$1,\!409$	1.28	3.84	$1,\!483$	-0.30	4.04	51.28		626.29	-0.57	8
2016	$2,\!606$	-1.38	1,313	-0.26	3.88	1,293	-1.86	3.83	49.62	142	654.33	0.14	8
2017	2,532	-1.72	1,256	-1.45	3.72	1,276	-1.53	3.78	50.39	117	573.62	-1.31	8
2018	2,210	-2.38	$1,\!121$	-3.02	3.32	1,089	-2.01	3.22	49.28	95	730.26	1.47	4
2019	$1,\!942$	-2.51	1,072	-1.99	3.17	870	-2.73	2.57	44.80	144	673.35	0.46	2

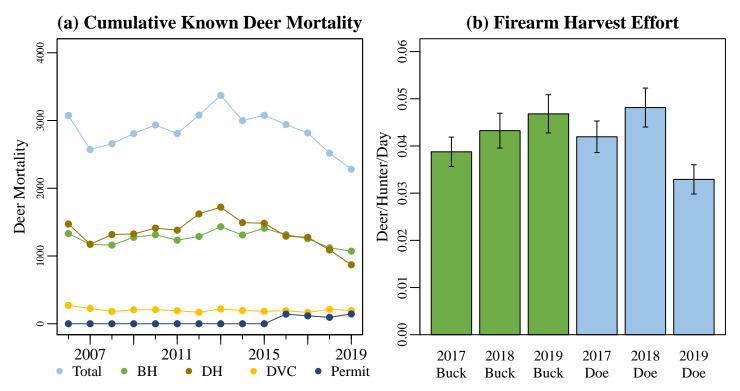


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4/17/2020

Total Square Miles: 516 Square Miles of Deer Habitat: 338 Percent Deer Habitat: 65

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 s A	1 A	2 A	3 A	0 AL	1 AL	2 AL	$_{\rm AL}^3$	4 AL	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	$1,\!877$	800	1,076	1	0	798	763	230	56	19	7	2	2	0	0	0
2017	$1,\!800$	801	998	1	0	742	737	228	60	17	9	5	0	2	0	0
2018	$1,\!587$	711	875	1	0	628	672	221	46	19	1	0	0	0	0	0
2019	$1,\!480$	622	855	3	0	641	618	203	15	3	0	0	0	0	0	0

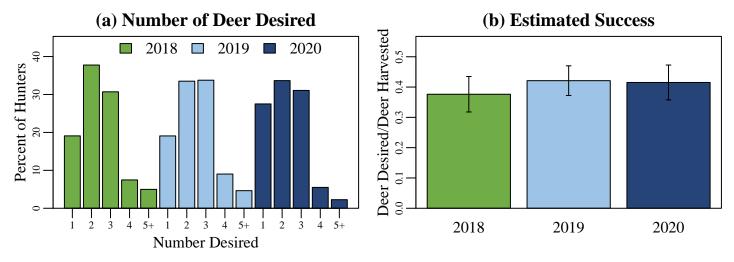


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Washington County Map



(b) Deer Habitat in Washington County

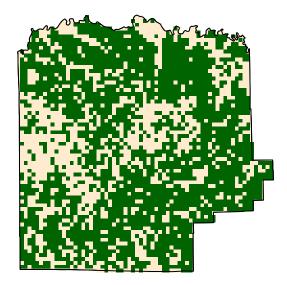


Figure 3. (a) Washington county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Washington county.

4/17/2020

#### **County Bonus Antlerless Quota**

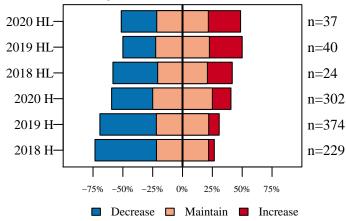


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

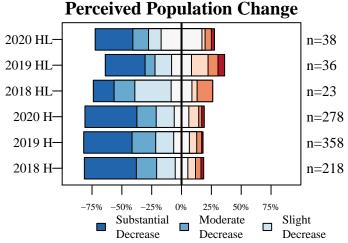


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

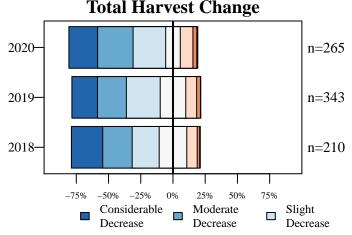
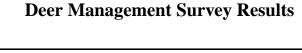


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



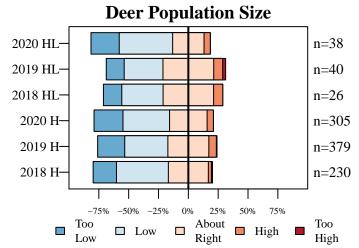
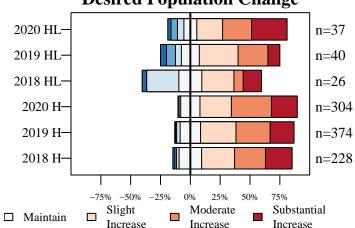
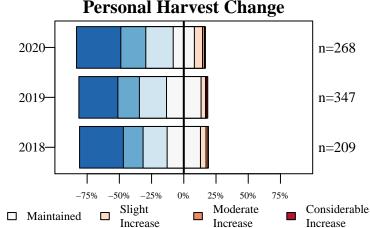


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).





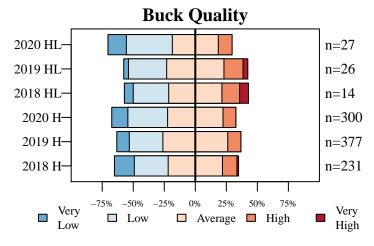
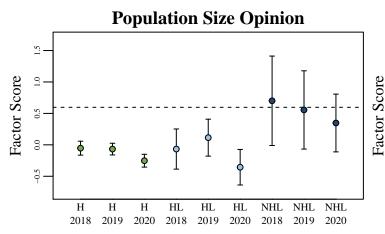


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).



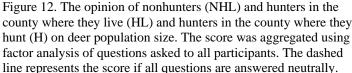




Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

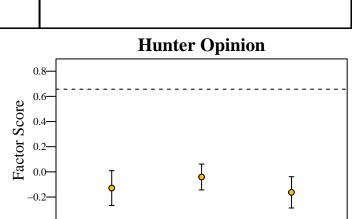
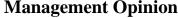


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

2019

2020

2018



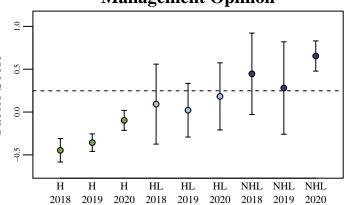


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

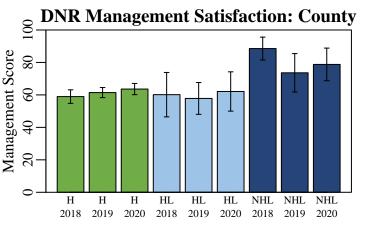


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

#### **Deer Management Survey Results**

4/17/2020

Total Square Miles: 404 Square Miles of Deer Habitat: 103 Percent Deer Habitat: 26

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
		in op		III OD	MI		III OD	MI	1101 (050	Taken	Miles	DVC	
					Habitat			Habitat			Traveled		
2006	925		525		4.53	400		3.45	43.24		187.28		3
2007	968		516		4.45	452		3.90	46.69		200.52		3
2008	887		450		3.88	437		3.77	49.27		177.12		3
2009	1,109		599		5.16	510		4.40	45.99		189.02		3
2010	1,131	1.94	626	1.79	5.40	505	1.37	4.35	44.65		209.73	2.21	4
2011	1,121	1.06	580	0.52	5.00	541	1.72	4.66	48.26		216.16	1.86	4
2012	1,131	0.80	568	0.19	4.90	563	1.71	4.85	49.78		195.59	-0.19	4
2013	998	-0.73	482	-1.22	4.16	516	0.10	4.45	51.70		198.43	0.06	4
2014	1,136	0.67	593	0.40	5.11	543	0.66	4.68	47.80		229.12	2.49	3
2015	1,129	0.43	604	0.64	5.21	525	-0.37	4.53	46.50		260.07	3.68	3
2016	$1,\!117$	0.24	623	1.19	6.05	494	-2.41	4.80	44.23	4	231.94	0.46	3
2017	1,058	-0.75	536	-0.69	5.20	522	-0.24	5.07	49.34	2	225.63	0.10	3
2018	$1,\!126$	0.65	615	0.82	5.97	511	-0.51	4.96	45.38	3	233.65	0.21	3
2019	1,203	2.84	670	2.20	6.50	533	0.77	5.17	44.31		243.56	0.54	2

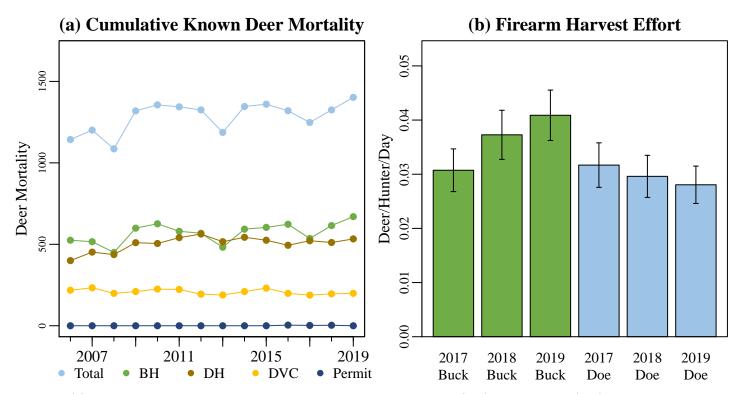


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 404 Square Miles of Deer Habitat: 103 Percent Deer Habitat: 26

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\mathrm{AL}}^{6}$	7 AL	${}^{8}_{\mathrm{AL}}$	9 AL	10 AL
2016	888	376	512	0	0	398	393	81	15	0	1	0	0	0	0	0
2017	804	386	417	1	0	295	389	110	10	0	0	0	0	0	0	0
2018	887	406	480	1	0	371	402	100	14	0	0	0	0	0	0	0
2019	931	392	537	2	0	386	433	107	5	0	0	0	0	0	0	0

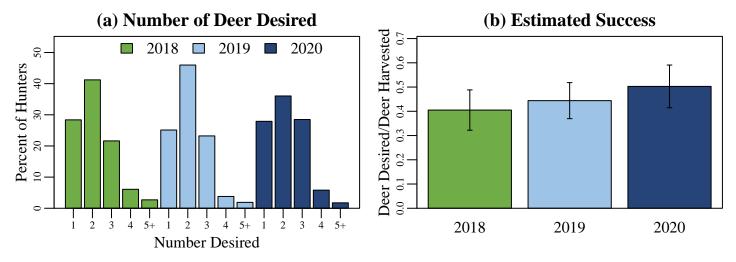


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Wayne County Map



(b) Deer Habitat in Wayne County

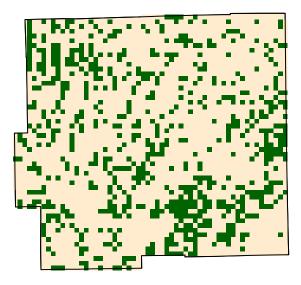


Figure 3. (a) Wayne county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Wayne county.

4/17/2020

#### **County Bonus Antlerless Quota**

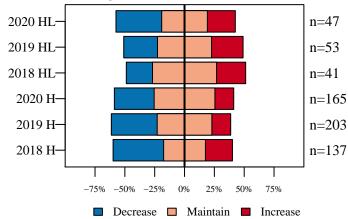


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

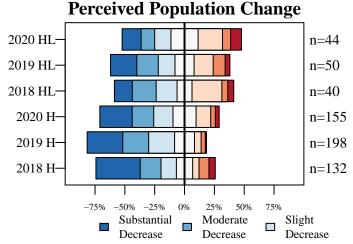


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

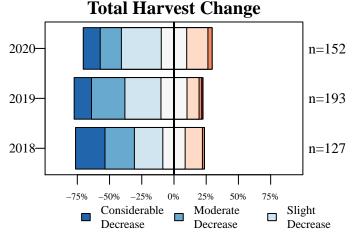


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



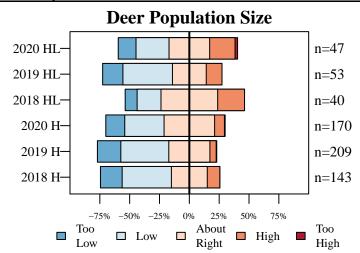
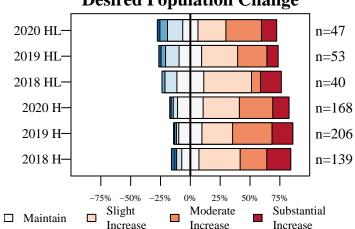
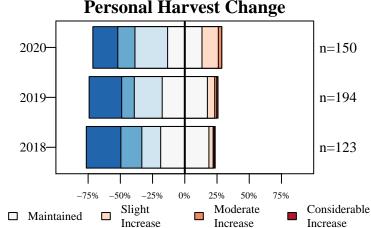


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

#### **Buck Quality**

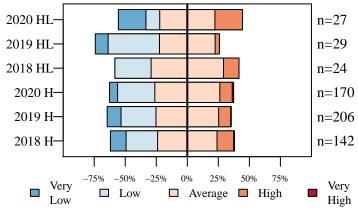


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

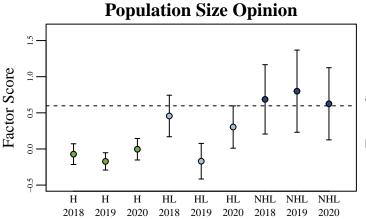


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

#### **Deer Management Survey Results**

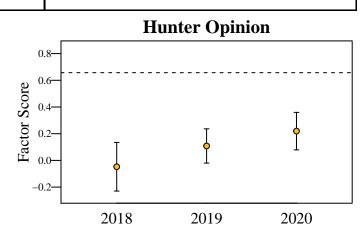


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

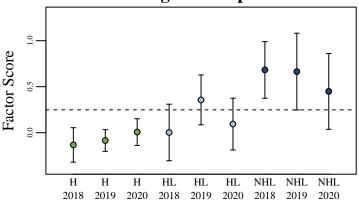


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

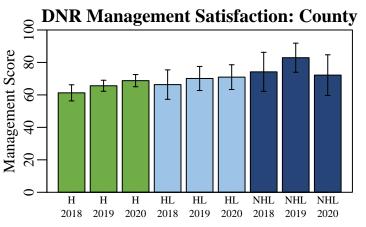


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 370 Square Miles of Deer Habitat: 31 Percent Deer Habitat: 8

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ MI Habitat	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ MI Habitat	% Doe in Harvest	Damage Permit Deer Taken	DVC per Billion Miles Traveled	Total Trend in DVC	CBAQ
2006	497		254		8.76	243		8.38	48.89		353.49		1
2007	576		329		11.34	247		8.52	42.88		345.12		1
2008	594		321		11.07	273		9.41	45.96		316.90		1
2009	557		333		11.48	224		7.72	40.22		295.27		1
2010	524	-0.68	288	-0.56	9.93	236	-0.42	8.14	45.04		351.42	0.95	1
2011	511	-0.98	292	-0.39	10.07	219	-1.41	7.55	42.86		301.02	-1.24	1
2012	508	-1.28	285	-1.31	9.83	223	-0.78	7.69	43.90		211.73	-4.34	1
2013	454	-2.33	241	-2.89	8.31	213	-0.99	7.34	46.92		283.33	-0.23	1
2014	440	-1.90	271	-0.51	9.34	169	-6.39	5.83	38.41		382.09	1.86	А
2015	431	-1.50	269	-0.31	9.28	162	-1.96	5.59	37.59		399.82	1.43	А
2016	452	-0.44	287	0.79	9.26	165	-1.10	5.32	36.50		338.95	0.30	А
2017	426	-1.03	238	-1.77	7.68	188	0.05	6.06	44.13		337.49	0.19	А
2018	453	1.00	260	-0.06	8.39	193	0.64	6.23	42.60		443.17	2.09	А
2019	635	16.03	411	8.13	13.26	224	3.44	7.23	35.28	4	534.40	3.47	A

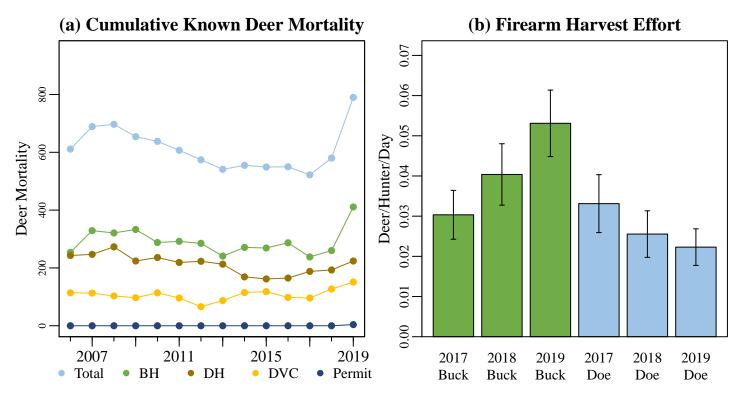


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 370 Square Miles of Deer Habitat: 31 Percent Deer Habitat: 8

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	396	159	236	1	0	202	175	18	1	0	0	0	0	0	0	0
2017	356	159	197	0	0	154	178	21	3	0	0	0	0	0	0	0
2018	376	157	218	1	0	170	181	23	2	0	0	0	0	0	0	0
2019	519	175	343	1	0	271	212	30	6	0	0	0	0	0	0	0

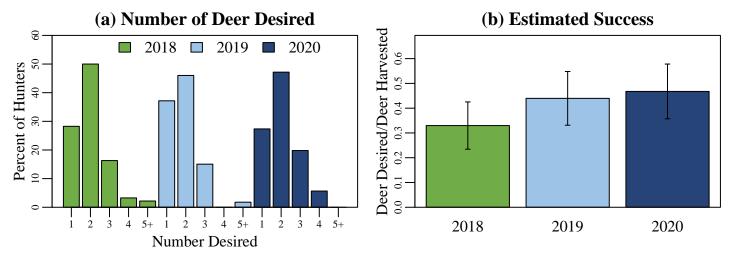


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Wells County Map



(b) Deer Habitat in Wells County

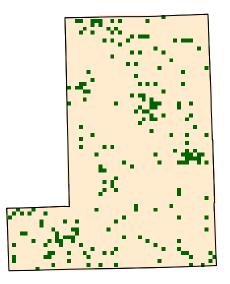


Figure 3. (a) Wells county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Wells county.

4/17/2020

#### **County Bonus Antlerless Quota**

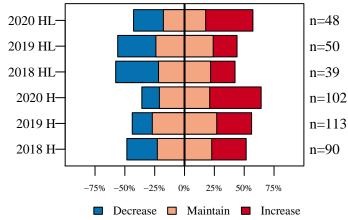


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

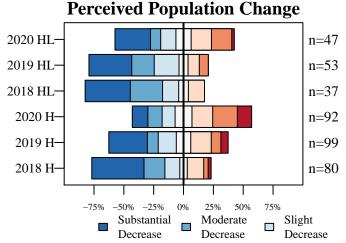


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

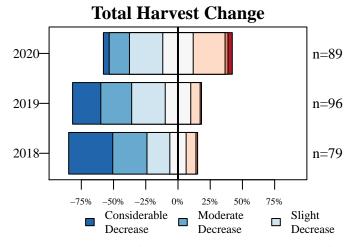


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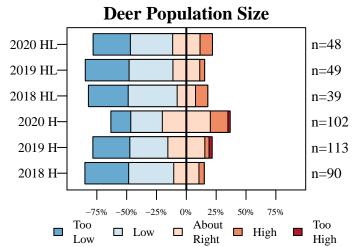
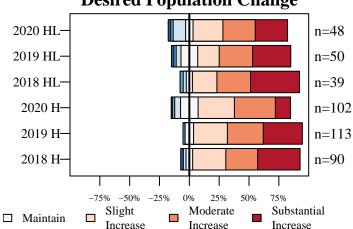
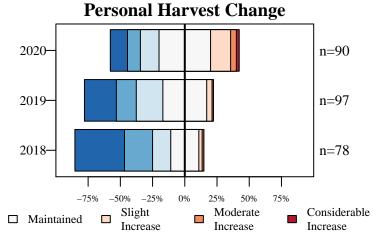


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

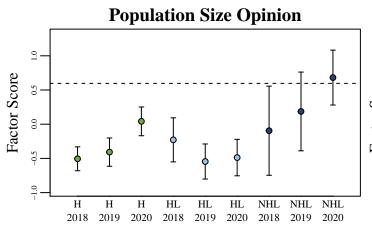
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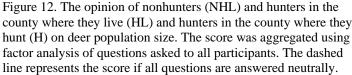


4/17/2020

**Buck Quality** 2020 HL n=21 2019 HLn=18 2018 HLn=17 2020 Hn=101 2019 Hn=113 n=90 2018 H· 25% 0% 50% -75% -50%-25%75% Very Very Low High Average High Low

Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).





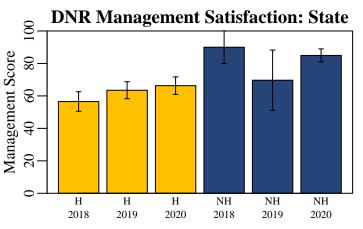
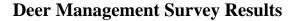


Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).



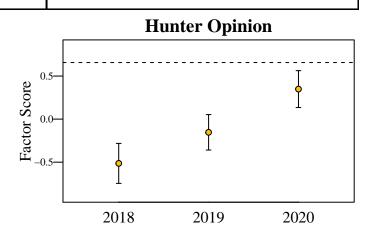


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**Management Opinion** 

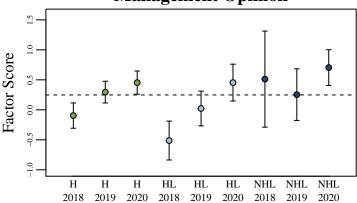


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

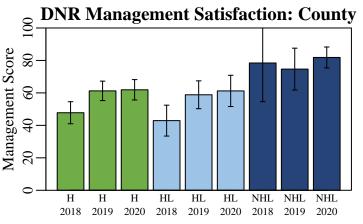


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 508 Square Miles of Deer Habitat: 34 Percent Deer Habitat: 7

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	954		510		12.75	444		11.10	46.54		411.45		2
2007	1,021		563		14.07	458		11.45	44.86		394.89		3
2008	1,210		625		15.62	585		14.62	48.35		444.01		3
2009	1,213		630		15.75	583		14.57	48.06		371.54		4
2010	$1,\!185$	0.87	616	0.82	15.40	569	0.88	14.22	48.02		340.65	-1.23	4
2011	1,233	0.96	623	0.66	15.57	610	1.17	15.25	49.47		361.81	-0.78	8
2012	1,320	1.71	559	-1.90	13.97	761	3.36	19.02	57.65		313.55	-1.75	8
2013	958	-5.28	473	-4.70	11.82	485	-1.72	12.12	50.63		302.79	-1.30	4
2014	955	-1.68	479	-1.53	11.97	476	-1.25	11.90	49.84		330.31	-0.26	4
2015	935	-1.18	486	-0.89	12.15	449	-1.13	11.22	48.02		261.25	-2.97	4
2016	937	-0.79	500	-0.37	14.71	437	-0.92	12.85	46.64	27	297.94	-0.43	4
2017	877	-0.86	423	-2.20	12.44	454	-0.50	13.35	51.77	30	268.84	-1.27	4
2018	784	-4.55	429	-1.48	12.62	355	-5.32	10.44	45.28	16	289.03	-0.11	3
2019	857	-0.58	495	0.90	14.56	362	-1.55	10.65	42.24		320.73	1.15	2

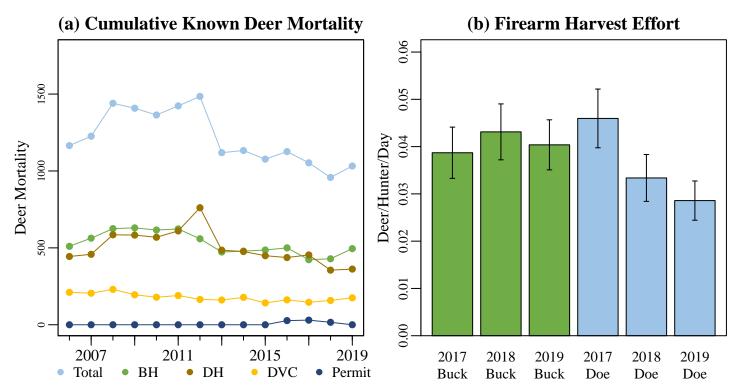


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 508 Square Miles of Deer Habitat: 34 Percent Deer Habitat: 7

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	2 AL	3 AL	4 AL	$5 \\ AL$	6 AL	7 AL	8 AL	9 AL	10 AL
2016	705	311	393	1	0	277	339	68	18	2	1	0	0	0	0	0
2017	607	291	314	1	0	204	285	88	25	4	1	0	0	0	0	0
2018	603	237	365	1	0	268	260	69	5	1	0	0	0	0	0	0
2019	639	217	420	2	0	292	270	68	9	0	0	0	0	0	0	0

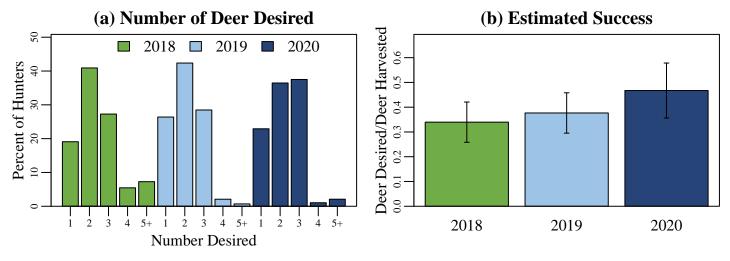


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) White County Map



(b) Deer Habitat in White County

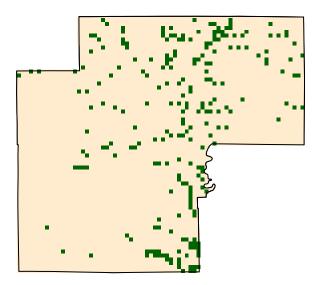


Figure 3. (a) White county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in White county.

4/17/2020

#### **County Bonus Antlerless Quota**

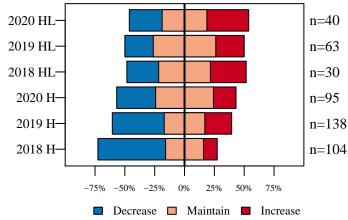


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).

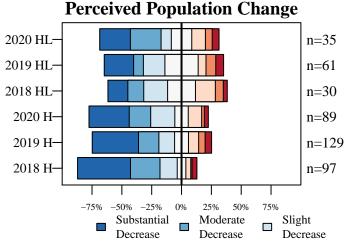


Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

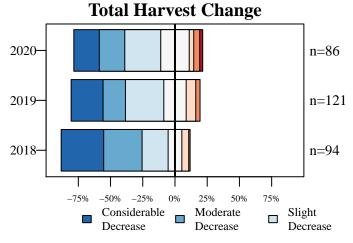
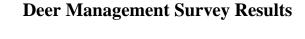


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



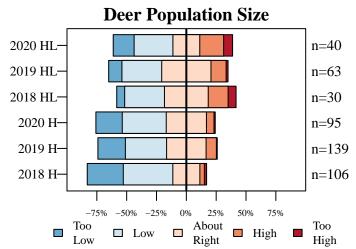
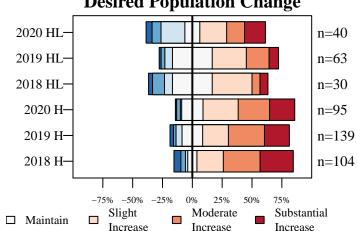
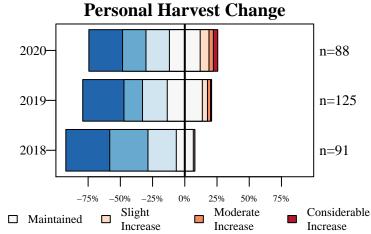


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Desired Population Change** 

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

#### **Buck Quality**

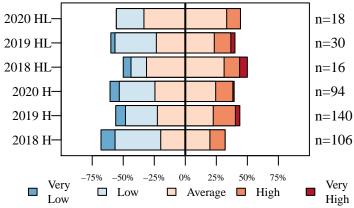


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

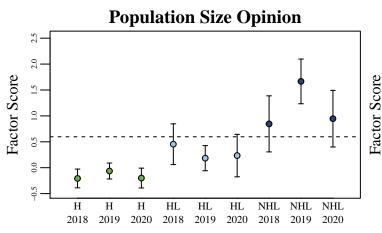


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



Figure 14. Hunters (H) and nonhunters (NH) were asked to score the DNR's statewide deer management on a scale of 0 (poor) to 100 (excellent).

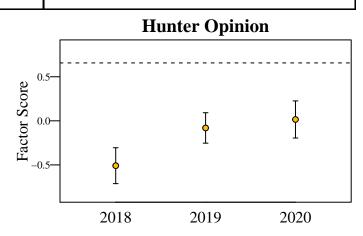


Figure 11. Hunter opinon scores over three years of the deer management survey. The score was aggregated using factor analysis of questions asked only to hunters. The dashed line represents the score if all questions are answered neutrally.

#### **Management Opinion**

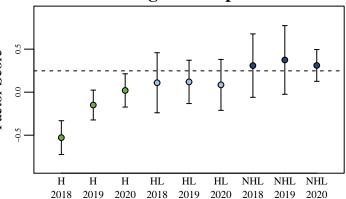


Figure 13. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer management. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.

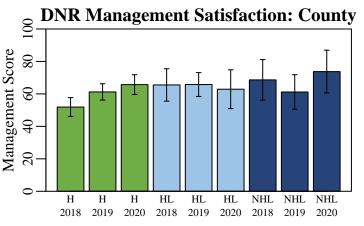


Figure 15. Opionion of county deer management on a scale of 0 (poor) to 100 (excellent) from individuals who hunt in a county (H), individuals that live in a county but hunt elsewhere (HL), and nonhunters that live in a county (NHL).

4/17/2020

Total Square Miles: 338 Square Miles of Deer Habitat: 61 Percent Deer Habitat: 18

Year	Total	Total Trend in SD	Buck Harvest	Buck Trend in SD	Buck Harvest per SQ	Doe Harvest	Doe Trend in SD	Doe Harvest per SQ	% Doe in Harvest	Damage Permit Deer	DVC per Billion	Total Trend in	CBAQ
					MI Habitat			MI Habitat		Taken	Miles Traveled	DVC	
2006	1,283		664		12.77	619		11.90	48.25		323.91		2
2007	1,286		665		12.79	621		11.94	48.29		288.10		2
2008	1,363		681		13.10	682		13.12	50.04		260.09		3
2009	1,322		666		12.81	656		12.62	49.62		341.26		3
2010	1,333	0.02	699	0.67	13.44	634	-0.57	12.19	47.56		284.67	-0.57	3
2011	$1,\!279$	-1.14	634	-2.71	12.19	645	0.10	12.40	50.43		287.17	-0.38	4
2012	1,161	-4.49	561	-4.51	10.79	600	-2.05	11.54	51.68		305.06	0.43	4
2013	967	-4.11	516	-2.44	9.92	451	-6.39	8.67	46.64		306.91	0.37	3
2014	996	-1.41	519	-1.28	9.98	477	-1.42	9.17	47.89		317.23	0.54	3
2015	999	-0.90	549	-0.46	10.56	450	-1.23	8.65	45.05		343.62	3.13	2
2016	1,058	-0.17	590	0.72	9.67	468	-0.62	7.67	44.23	2	358.65	2.25	2
2017	818	-2.83	452	-3.08	7.41	366	-1.96	6.00	44.74	1	458.32	5.56	1
2018	904	-0.71	544	0.37	8.92	360	-1.86	5.90	39.82		331.69	-0.42	1
2019	$1,\!015$	0.64	628	1.91	10.30	387	-0.66	6.34	38.13		439.27	1.38	1

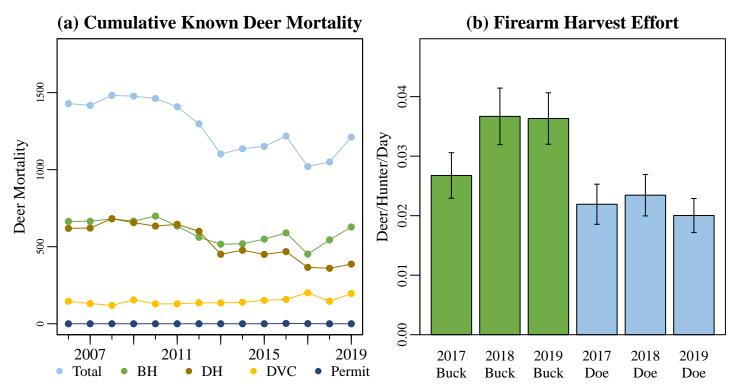


Figure 1. (a) The total known annual deer mortality based on buck harvests (BH), doe harvests (DH), deer vehicle collisions (DVC), and deer permit takes. (b) Firearm harvest effort is the number of deer killed by firearms per hunter divided by the mean number of days hunted per hunter during the firearm season based on data reported in the deer management survey.

4/17/2020

Total Square Miles: 338 Square Miles of Deer Habitat: 61 Percent Deer Habitat: 18

Table 2. Estimated number of antlered (A) and antlerless (AL) deer harvested per hunter. Estimated totals may not match exactly with total number of deer harvested. Reporting errors are examined and investigated as they are located; therefore, subsequent reports may contain corrected totals.

Year	Total Hunter	0 rs A	1 A	2 A	3 A	0 AL	1 AL	$^2_{\rm AL}$	$_{\rm AL}^3$	${}^{4}_{\mathrm{AL}}$	$5 \\ AL$	$_{\rm AL}^{6}$	7 AL	8 AL	9 AL	10 AL
2016	861	389	471	1	0	367	411	76	6	1	0	0	0	0	0	0
2017	697	330	367	0	0	286	374	34	3	0	0	0	0	0	0	0
2018	769	307	462	0	0	366	365	37	1	0	0	0	0	0	0	0
2019	885	338	546	1	0	447	411	25	2	0	0	0	0	0	0	0

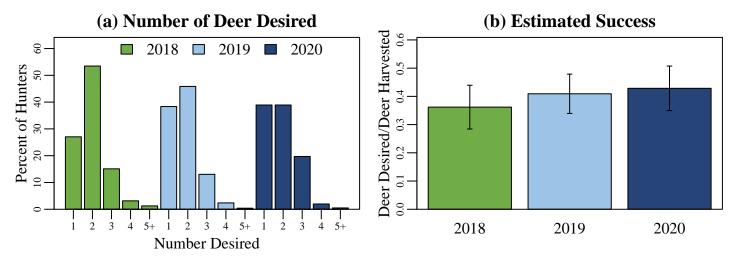


Figure 2. (a) The annual percent of hunters wishing to harvest each number of deer as reported in the deer management survey. (b) Success rate is estimated from the deer management survey as the Number of Harvested Deer/Number of Deer Desired (reported only; does not account for attempts that were not made).

(a) Whitley County Map



(b) Deer Habitat in Whitley County

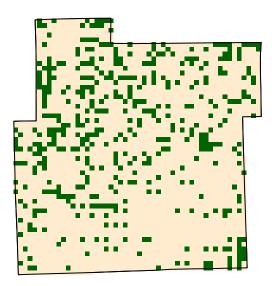


Figure 3. (a) Whitley county with the 2019 county bonus anterless quota. (b) Green represents the land use types classified as deer habitat in Whitley county.

4/17/2020

#### **County Bonus Antlerless Quota**

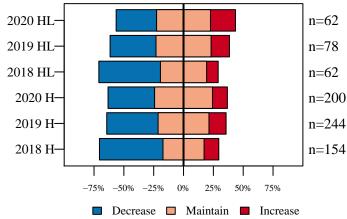
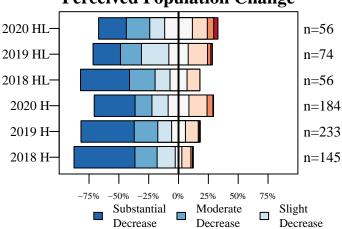


Figure 4. Opinion on how the County Bonus Antlerless Quota should change from hunters in the county where they live (HL) and hunters in the county where they hunt (H).



**Perceived Population Change** 

Figure 6. The number of deer seen compared to five years ago described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).

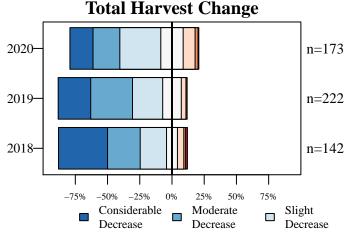
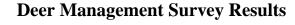


Figure 8. Opinion of hunters on how the total number of harvested deer has changed over the last five years.



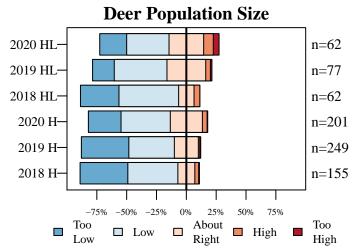
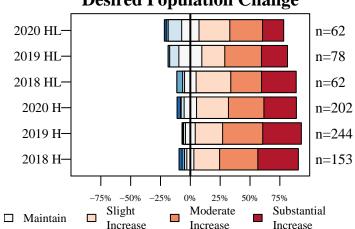
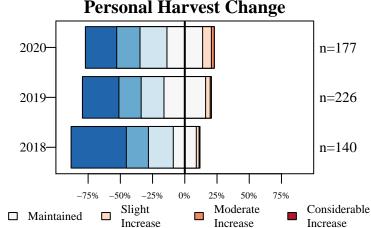


Figure 5. The current size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



#### **Desired Population Change**

Figure 7. The desired change in the size of the deer population described by hunters in the county where they live (HL) and hunters in the county where they hunt (H).



4/17/2020

#### **Buck Quality**

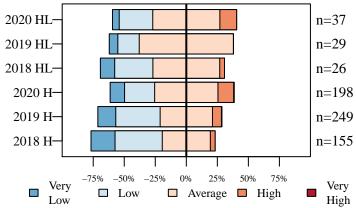


Figure 10. Hunters describe the quality of bucks in the county where they live (HL) and the county where they hunt (H).

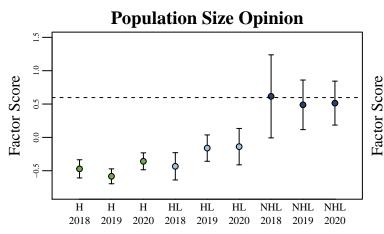
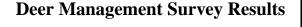


Figure 12. The opinion of nonhunters (NHL) and hunters in the county where they live (HL) and hunters in the county where they hunt (H) on deer population size. The score was aggregated using factor analysis of questions asked to all participants. The dashed line represents the score if all questions are answered neutrally.



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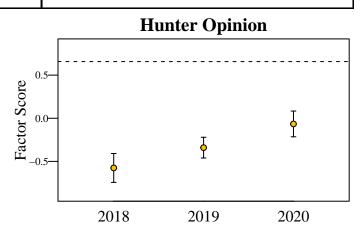


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**Management Opinion** 

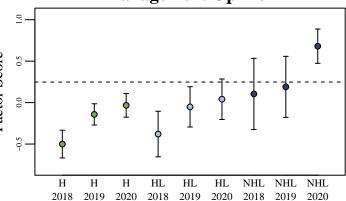


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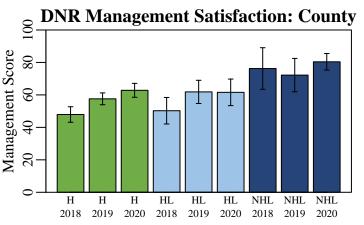


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