



Mississippi Department of
Wildlife, Fisheries, and Parks

19/20 DEER PROGRAM REPORT



prepared by
MDWFP **WILDLIFE BUREAU**

2019–2020 Deer Program Report



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Did you know?

Hunting license sales support white-tailed deer management, disease surveillance, and research that benefits all Mississippians.



Acknowledgments

Numerous people are responsible for the information presented in this report. The vision and work of Mississippi Game and Fish Commission patriarchs like Fannye Cook and Bill Turcotte initiated plans in the 1930s that ultimately provided Mississippi Sportsmen with the deer population we enjoy today.

Leaf River Refuge Manager Quinton Breland, Upper Sardis Refuge Manager Garald Mize and other dedicated Commission employees protected, trapped, and relocated hundreds of deer throughout the state during the days of Mississippi's deer restoration. In addition, game wardens of the deer restoration era protected a growing deer population through the early period of wildlife conservation. During this time in the history of Mississippi's Wildlife Management Agency, game wardens provided their own gun and vehicle. Mobile communication with other officers was little more than a futuristic dream. Wildlife enforcement, or the game warden that interfered with the "jack-lighting" of deer and illegal harvest of game, was not a welcome sight to some hunters at that time. Refuge managers and game wardens of the restoration era are pioneers of the deer population restoration success of today.

Today the conservation officer is considered differently. Most men and women who enjoy the bountiful wildlife that exist today regard the conservation officer as a partner in wildlife conservation. As those who are responsible for the deer populations we treasure are remembered, the conservation officers of today should not be forgotten.

The Mississippi Legislature is also to be thanked for their historic and sustained funding of this agency. Since the establishment of the Game and Fish Commission in the days of the Great Depression, the Mississippi Legislature has funded efforts necessary for the wildlife conservation success story of the white-tailed deer.

The Commission on Wildlife, Fisheries, and Parks and the Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP) Executive Committee is to be commended for the foresight and vision to allow the Wildlife Bureau the ability to assemble a team of dedicated biologists.

Mississippi landowners have made deer in the Magnolia State a reality. Without landowner desire to have deer, most agency efforts would have proved ineffective. Those of us who hunt, study, or admire the white-tailed deer truly thank you.

This report would not have been possible without the efforts and cooperation of MDWFP Wildlife Bureau technical staff and field personnel. An extra-special appreciation is extended to Linda Taylor for assistance with many aspects of producing and mailing this report and to Matt Goss who was responsible for the report layout and design. Also, a special thanks to all the biologists who had a part in developing this report.

Additionally, Mississippi's deer hunters deserve special recognition. Your data collection efforts, concern, and support for white-tailed deer are vital to the success of the White-tailed Deer Program.

Look for this information on www.mdwfp.com/deer. If you have any questions, feel free to contact us.

**FEDERAL AID IN WILDLIFE
RESTORATION**



**A PITTMAN-ROBERTSON
FUNDED PROJECT**

This report is produced by the Technical Guidance Project, Statewide Wildlife Development Project and Statewide Wildlife Investigations Project and is primarily funded by Federal Aid in Wildlife Restoration.

The first Deer Management Assistance Program (DMAP) report was completed in 1982. The DMAP report evolved into the Mississippi Deer Program Report in 1992. Since its inception, the purpose of this report was to consolidate all deer-related information obtained by Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP) personnel. Compilation of these data provides managers the opportunity to analyze trends in deer harvest and physiological condition. In the future, managers will have a chronicled reference to more effectively critique effects of changes in season framework, hunter success, and climatic conditions on the deer population.

Decision makers such as the Mississippi Legislature and the Mississippi Commission on Wildlife, Fisheries, and Parks have served the sportsmen of the state well. Deer harvest and management opportunities exist today that were considered far-fetched a few decades ago.

Annual surveys are used to monitor trends in hunter harvest and effort in Mississippi. The current harvest survey was conducted by Responsive Management in a phone survey format. This method provided harvest estimates much earlier than the previous surveys. The survey revealed that total deer harvest remains alarmingly low, compared to just five years ago.

Sample methods were unchanged for the following data sets:

- Hunter effort and harvest information collected on state-operated WMAs
- Enforcement Bureau monitoring of deer hunting-related citations
- Deer research projects conducted in cooperation with Mississippi State University Forest and Wildlife Research Center

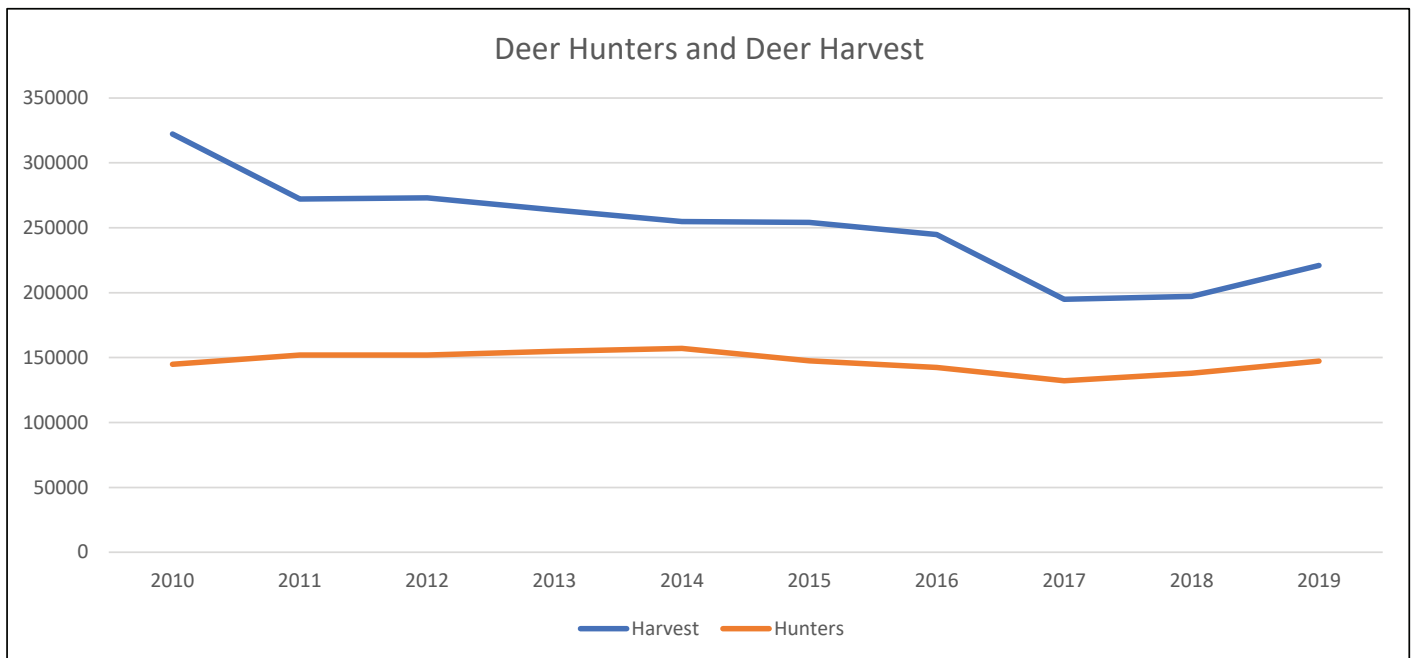
Several factors negatively impacted the deer herd in the 2019–2020 season. Wild hog numbers continue to increase statewide. For the third consecutive year, hunters harvested more wild hogs than deer in Mississippi. Statewide surveillance efforts continued for Chronic Wasting Disease (CWD). Unfortunately, CWD was detected in several more deer. MDWFP continues to combat this fatal deer disease. Additionally, excessive rainfall again resulted in extensive flooding in the Mississippi Delta displacing and congregating wildlife.

Department wildlife biologists continued to inform and educate sportsmen relative to deer management needs and issues. Our goals are to provide insight into current deer management needs while providing the leadership to identify and guide future issues. All known media sources were utilized in this process.

Deer Harvest Estimates

2019-2020														
	Total Harvest			Total Hunters			Average Seasonal Harvest		Total Man-days			Percent Successful Hunters		Deer Per Hunter
	Resident	Non-Resident	Total	Resident	Non-Resident	Total	Resident	Non-Resident	Resident	Non-Resident	Total	Resident	Non-Resident	
Total Deer	201,268	19,721	220,989	125,778	21,579	147,357	1.60	0.90	3,394,755	342,299	3,737,054	63.6	50.0	1.50
Buck	92,673	8,932	101,605									44.4	28.9	
Doe	106,877	10,750	117,627									45.9	33.2	
Archery Total	42,728	3,636	46,364	54,527	7,035	61,562	0.80	0.50	835,315	70,744	906,059	42.9	36.5	0.80
Buck	14,663	1,305	15,968									18.1	13.5	
Doe	27,836	2,292	30,128									34.2	26.4	
Primitive Total	26,232	1,818	28,050	47,425	6,007	53,432	0.60	0.30	475,964	46,320	522,284	37.4	23.0	0.50
Buck	9,737	869	10,606									15.7	11.8	
Doe	16,954	949	17,903									28.0	13.8	
Gun Total	132,308	14,267	146,575	115,778	19,524	135,302	1.10	0.70	2,083,476	225,235	2,308,711	59.0	47.6	1.10
Buck	69,877	6,758	76,635									41.5	27.5	
Doe	62,316	7,509	69,825									36.1	28.5	

Figure 1: Deer Harvest and Hunters



Deer Management Assistant Program (DMAP)

Table 1: Statewide Compiled Data From Public and Private Lands

Season	2019	2018	2017	2016	2015	2014
Acres	1,900,765	1,633,827	1,700,761	1,836,388	1,988,597	2,175,845
Total Deer	14,454	14,116	15,763	17,841	19,381	25,860
Bucks	6,049	5,737	6,430	6,980	7,237	9,341
Does	8,405	8,379	9,324	10,829	12,075	16,458
Acres/Deer	131.5	115.7	107.9	102.9	102.6	84.1
Bucks	314.2	285	264.5	263.1	274.8	232.9
Does	226.1	195	182.4	169.6	164.7	132.2
Avg. Age ALL Bucks	3.8	3.9	3.5	3.5	3.2	3.3
Avg. Points ALL Bucks	7	7.2	7.3	7.2	7.2	7.2
Avg. Length ALL Bucks	16.4	17.7	17.6	16.9	17	17.1
Avg. Spread ALL Bucks	13.5	14.5	14.4	13.9	14	14.2
Acres/3.5+ Bucks	465.2	402	377.3	369.7	396	361
% 0.5 Yr. Bucks	4.2	3.5	4.4	1.7	3.9	4.9
Weight	63	61	63.7	64	61	63
% 1.5 Yr.	10.6	10.7	10.3	9.3	12	11.1
Weight	102	108	111	107	103	106
Points	2.4	2.5	2.6	2.5	2.5	2.4
Length	3.6	3.8	6.1	4.9	5	4.9
Spread	4	4	5.9	5.5	5.4	5.4
% 2.5 Yr.	13.3	11.7	10.6	12.1	10.8	14.2
Weight	138	145	145.5	142	138	143
Points	6.4	6.7	6.6	6.7	6.6	6.6
Length	13.9	14.3	14.7	14.6	14.7	14.9
Spread	11.4	11.8	12.3	12	12.1	12.3
% 3.5 Yr.	22.3	22.2	25.3	22.3	23.6	21.9
Weight	157	163	166.1	164.1	159	166
Points	7.5	7.6	7.6	7.7	7.6	7.7
Length	16.2	16.9	17.2	17.3	17.1	17.6
Spread	13.4	13.8	14	14.1	13.9	14.3
% 4.5+ Yr.	45.3	51.9	49.4	52.2	45.7	42.6
Weight	176	181	186.8	184.7	176	181.3
Points	8.1	8.2	8.2	8.3	8.1	8.1
Length	18.5	19.2	19.9	19.9	19.3	19.6
Spread	15	15.4	15.9	16	15.5	15.8
Doe Age Classes						
% 0.5 Yr.	6.3	7.5	8.3	7.8	6.7	7.5
% 1.5 Yr.	18.4	21.3	20.5	16.1	19.6	17.7
% 2.5 Yr.	18.5	17.7	17	19.2	17.9	23.4
% 3.5+ Yr.	54.6	53.5	54.2	56.9	55.8	51.3
% Doe Lactation						
1.5 Yr.	7	9	12	11	8	11
2.5 Yr.	41	57	57	51	43	51
2.5+ Yr.	50	59	66	54	52	60
3.5+ Yr.	53	60	69	56	55	64

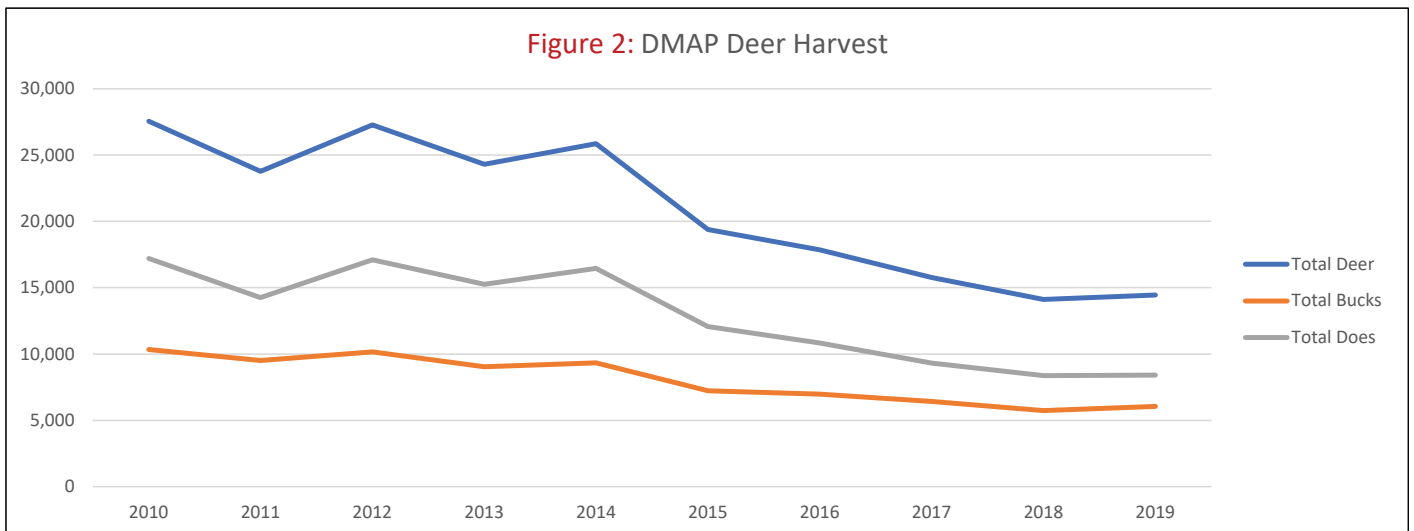
Deer Management Assistant Program (DMAP)

Table 2: Comparison of Bucks Harvested on Wildlife Management Areas and National Wildlife Refuges vs. Private Lands DMAP

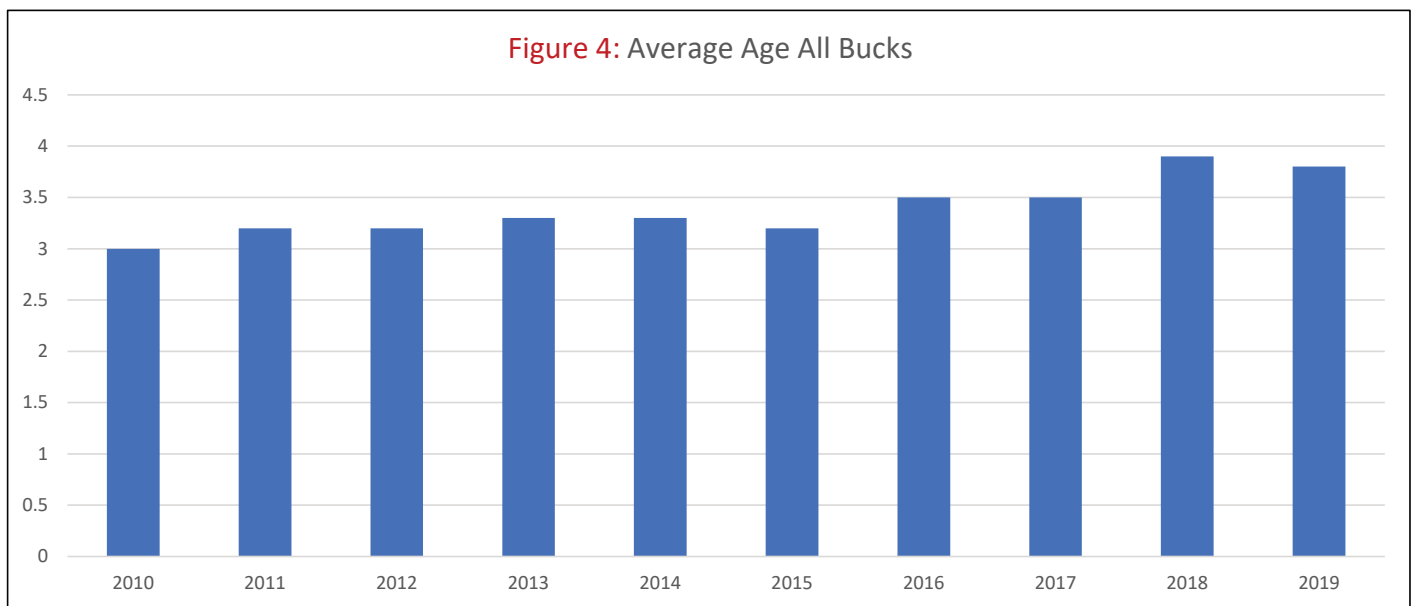
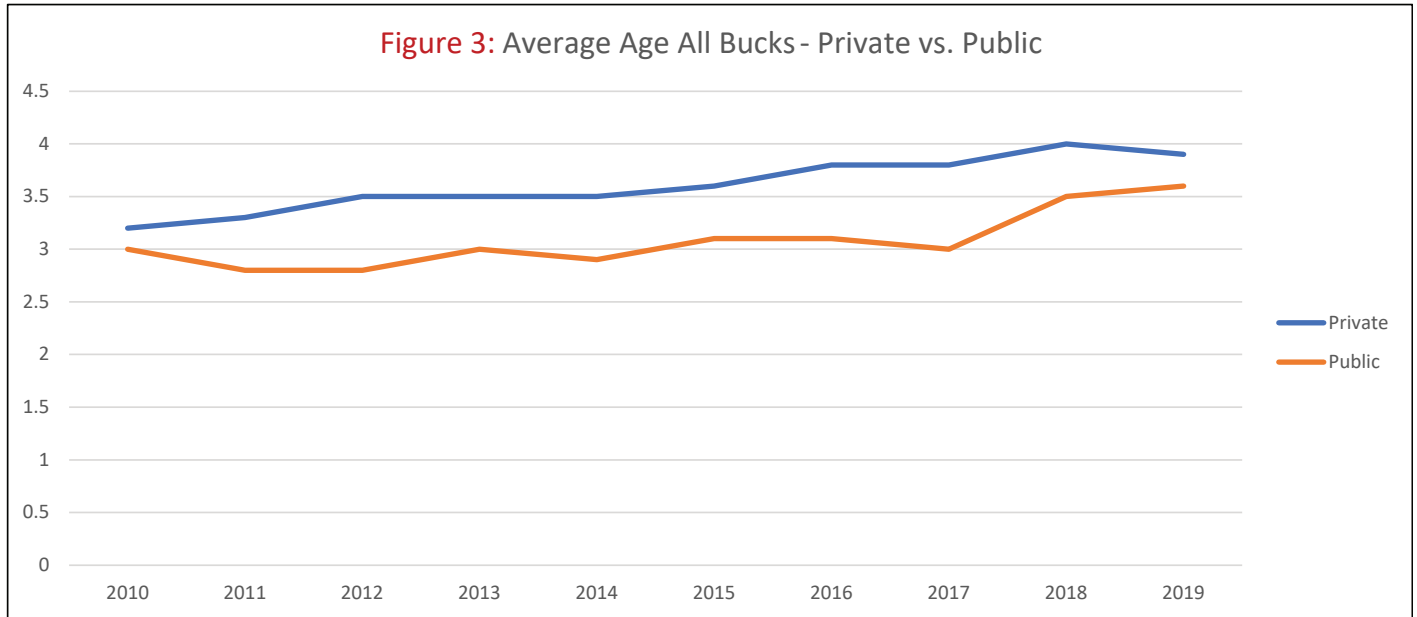
Season	Average Age		Average Points		Average Beam Length		Average Inside Spread	
	Private	Public	Private	Public	Private	Public	Private	Public
2010	3.2	3.0	7.3	7.2	17.3	15.9	14.0	13.0
2011	3.3	2.8	7.4	6.9	17.1	15.0	14.1	12.4
2012	3.5	2.8	7.4	7.1	17.5	15.7	14.5	13.0
2013	3.5	3.0	7.1	7.0	17.1	15.7	14.2	13.0
2014	3.5	2.9	7.2	7.1	17.4	15.9	14.4	13.2
2015	3.6	3.1	7.2	7.1	17.2	15.9	14.1	13.2
2016	3.8	3.1	7.5	7.2	17.9	16.4	14.7	13.6
2017	3.8	3.0	7.3	7.2	17.9	16.2	14.6	13.5
2018	4.0	3.5	7.2	7.0	18.0	16.3	14.7	13.4
2019	3.9	3.6	7.0	7.1	17.3	16.2	14.1	13.3

Table 3: Comparison of Deer Harvest on Wildlife Management Areas and National Wildlife Refuges vs. Private Lands DMAP

Season	Acres		Total Deer		Bucks		Does		Acres/Deer	
	Private	Public	Private	Public	Private	Public	Private	Public	Private	Public
2010	1,543,744	726,671	23,993	3,545	8,782	1,559	15,211	1,986	64	205
2011	1,336,729	803,417	19,563	4,203	7,449	2,066	12,114	2,137	68	191
2012	1,511,078	761,895	23,616	3,649	8,436	1,734	15,180	1,915	64	209
2013	1,407,704	762,132	21,000	3,291	7,394	1,646	13,606	1,645	67	232
2014	1,406,799	765,872	21,884	3,241	7,551	1,571	14,333	1,670	64	236
2015	1,255,453	718,213	16,268	2,730	5,873	1,275	10,395	1,455	77	263
2016	1,086,657	749,731	14,944	2,897	5,586	1,417	9,386	1,472	73	259
2017	973,154	728,701	13,557	2,219	5,249	1,192	8,308	1,027	72	328
2018	931,114	702,713	12,123	1,993	4,663	1,074	7,460	919	77	353
2019	988,438	725,324	11,022	1,938	4,359	1,069	6,663	869	89	375



Deer Management Assistant Program (DMAP)



DMAP HARVEST TAGS

MDWFP issues DMAP Antlerless and DMAP Management Buck tags to DMAP properties to allow the harvest of deer in excess of the annual and daily bag limits. DMAP tags are issued by biologists based on an individual landowner's or manager's need. The management buck harvest criteria are determined by the DMAP biologist. DMAP tags may only be used on the property to which they were issued. A total of 5,562 DMAP Antlerless tags were issued to 213 DMAP properties. A total of 2,306 DMAP Management Buck tags were issued to 172 DMAP properties, of which 238 of the tags were used.

Figure 5: Buck Tags Issued and Used on DMAP Properties

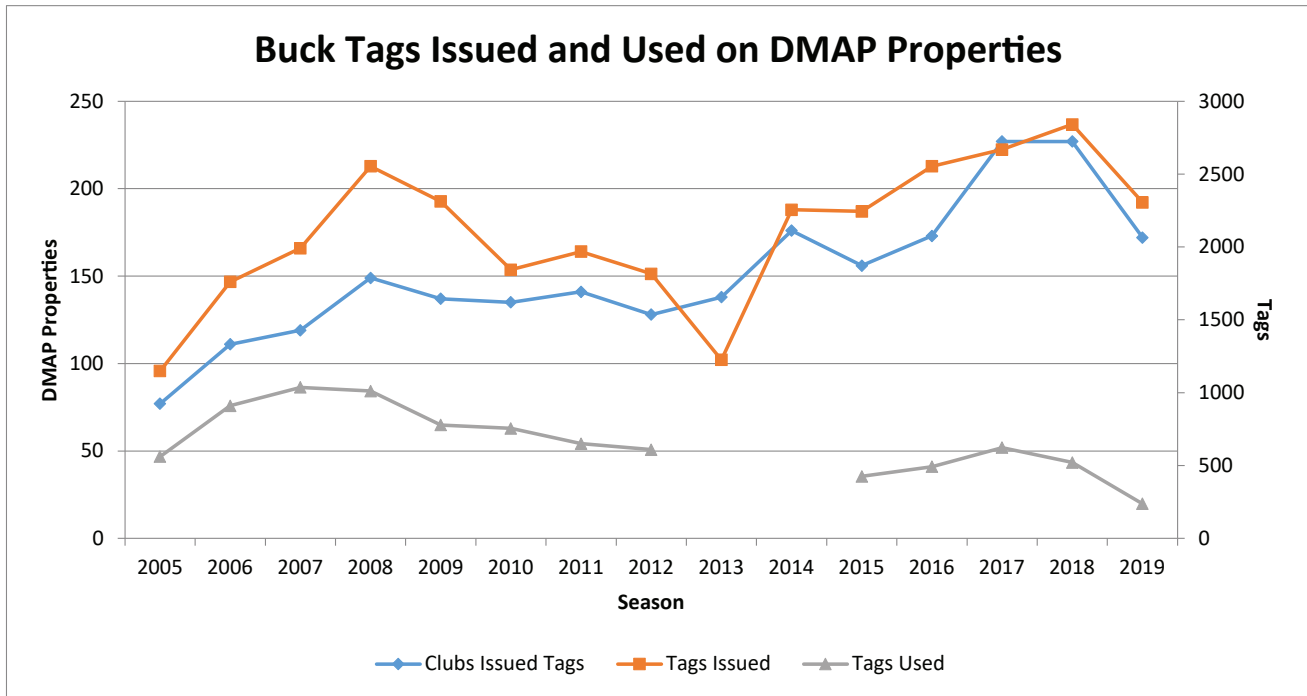
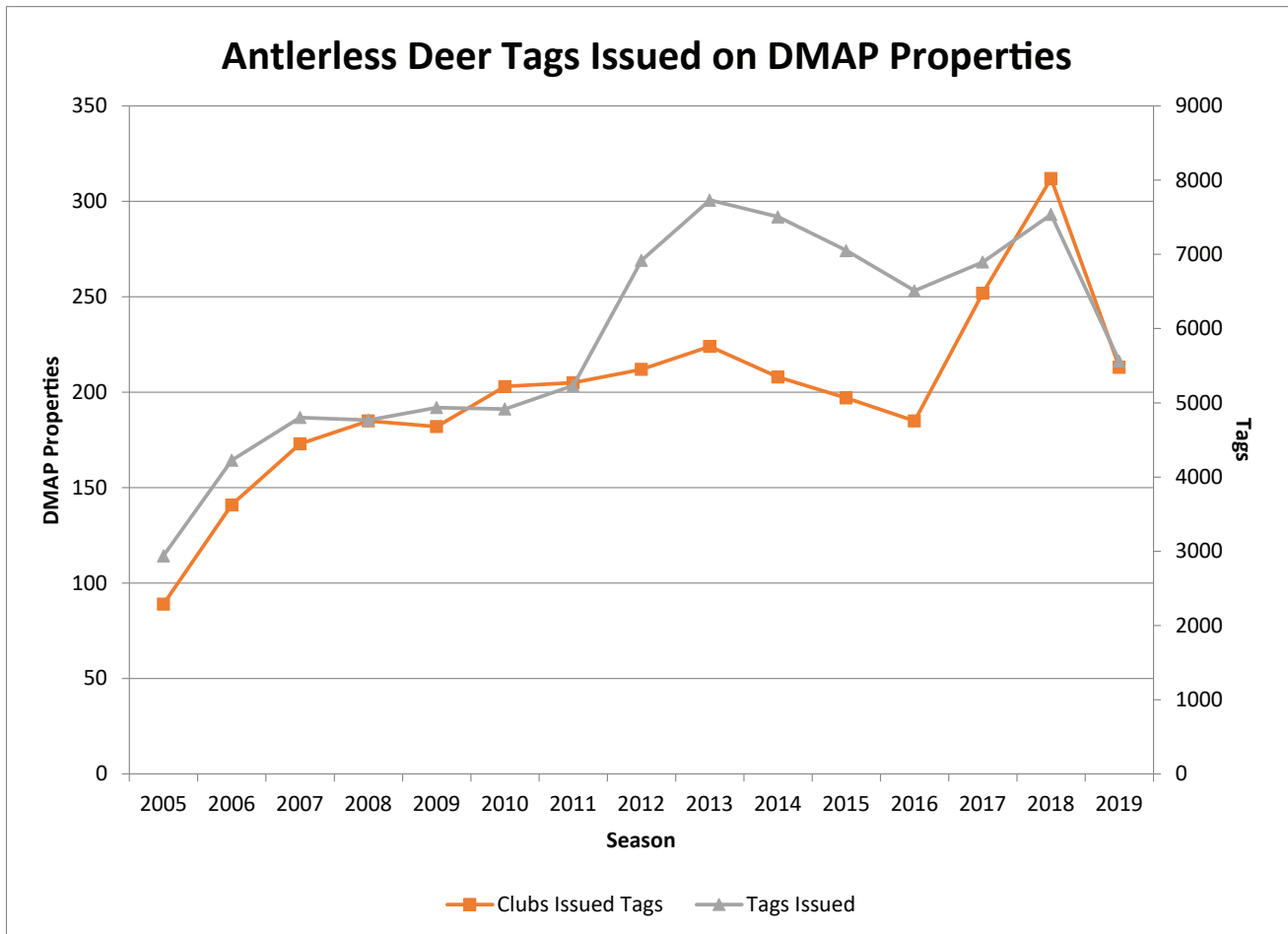


Figure 6: Antlerless Deer Tags Issued on DMAP Properties



Wildlife Management Areas

Figure 7: WMA Region Map

WMA REGIONS

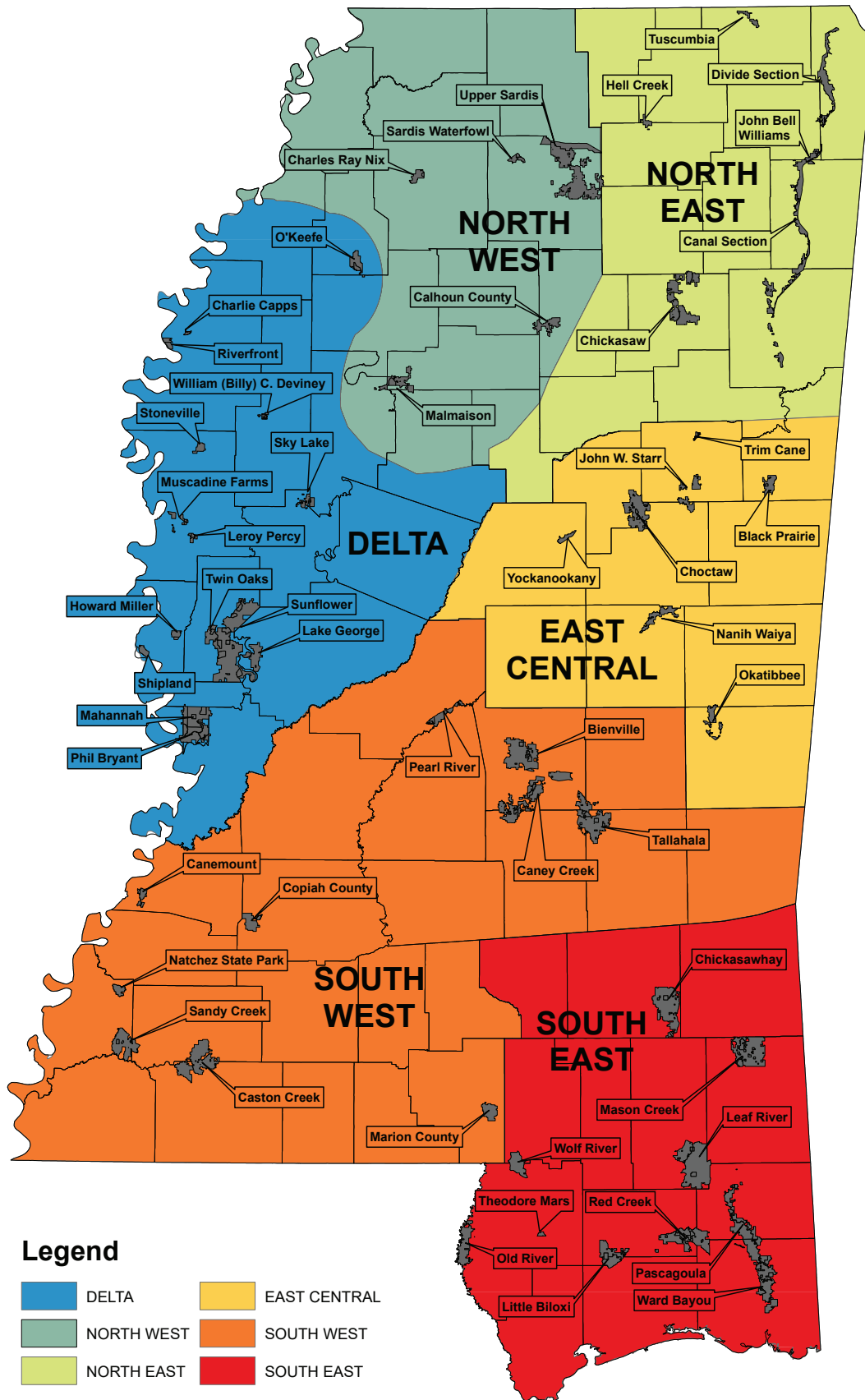


Table 4: Wildlife Management Area Harvest Information for the 2019–2020 Season

Region	Wildlife Management Area	Antler Criteria	Acreage	Total Harvest	Acres/Deer	Buck Harvest	Acres/Buck	Doe Harvest	Acres/Doe	Total Man days
Delta	Lake George	15/18	8,383	38	221	28	299	10	838	759
	Leroy Percy	12/15	1,642	13	126	9	182	4	411	292
	Mahannah	16/20	12,675	40	317	19	667	21	604	678
	O'Keefe	16/20	5,914	40	148	25	237	15	394	938
	Phil Bryant	16/20	17,860	48	372	25		23		184
	Sky Lake	15/18	4,306	25	172	9	478	16	269	172
	Shipland	15/18	1,800	4	450	2	900	2	900	214
	Stoneville	12/15	2,500	13	192	10	250	3	833	368
	Sunflower	15/18	58,480	49	1,193	39	1,499	10	5,848	1,563
	Twin Oaks	16/20	5,675	17	334	4	1,419	13	437	252
	Delta Total		119,235	287		170		117		5,420
	Delta Average		11,924	29	353	17	659	12	1,170	542
East Central	Black Prairie	15/18	6,001	61	98	25	400	36	206	371
	Choctaw	10/13	24,314	48	900	34	972	14	12,157	979
	John Starr	10/13	8,244	22	375	19	588	3	1,030	722
	Nanih Waiya	10/13	8,040	42	171	14	365	28	321	481
	Okatibbee	10/13	6,883	22	254	12	529	10	491	488
	Trim Cane	10/13	891	2	446	2	0	0	891	4
	Yockanookany	12/15	2,379	7	340	3	339	4	475	111
		East Central Total		56,752	95		50		45	
	East Central Average		8,107	29	369	16	456	14	2,224	451
North East	Canal Section	12/15	29,672	27	1,099	16	1,855	11	2,697	2,353
	Chickasaw	10/13	26,815	36	745	29	925	7	3,831	1,928
	Divide Section	12/15	15,337	21	730	7	2,191	14	1,096	929
	Hell Creek	12/15	2,344	26	90	3	781	23	102	194
	John Bell Williams	12/15	3,198	3	1,066	1	3,198	2	1,599	290
	Tuscumbia	10/13	2,693	4	673	2	1,347	2	1,347	152
		North East Total		80,059	117		58		59	
	North East Average		13,343	20	734	10	1,716	10	1,779	974
North West	Calhoun County	10/13	7,545	15	503	3	1,886	12	0	404
	Charles Ray Nix	15/18	3,812	54	71	22	238	32	81	634
	Cossar State Park	10/13	459	4	36	1	604	3	40	13
	Malmaison	15/18	9,953	53	151	26	663	27	216	1,349
	Sardis Waterfowl	None/Youth Only	2,480	23	100	11	225	12	177	56
	Upper Sardis	10/13	50,485	54	935	35	2,103	19	25,242	2,521
	North West Total		74,734	203		98		105		4,977
	North West Average		12,456	34	299	16	953	18	4,293	830



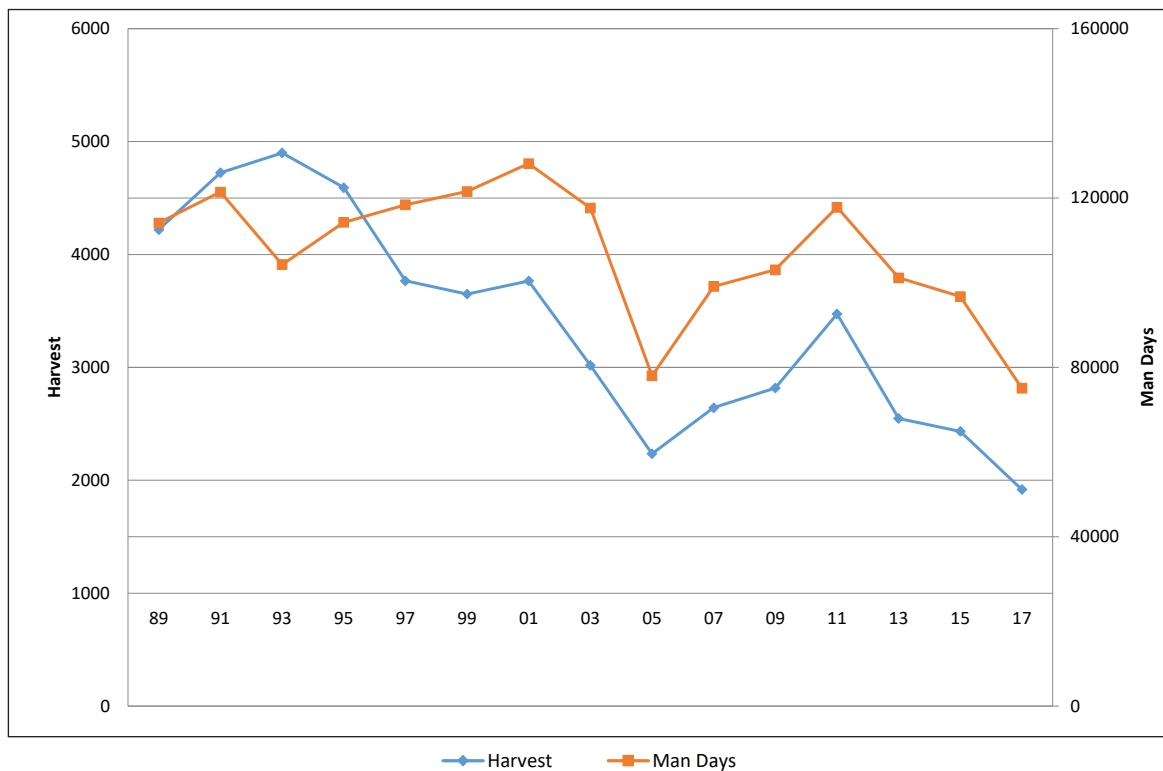
Riverfront WMA

Wildlife Management Areas

Table 4 Continued: Wildlife Management Area Harvest Information for the 2019–2020 Season

Region	Wildlife Management Area	Antler Criteria	Acreage	Total Harvest	Acres/Deer	Buck Harvest	Acres/Buck	Doe Harvest	Acres/Doe	Total Man-days
South East	Chickasawhay	10/13	30,000	28	1,071	18	1,667	10	3,000	1,227
	Leaf River	12/15	41,411	176	235	94	441	82	505	3,324
	Little Biloxi	10/13	14,540	51	285	31	469	20	727	2,239
	Mason Creek	10/13	28,000	3	9,333	3	9,333	0	NA	368
	Old River	10/13	13,000	16	813	9	1,444	7	1,857	747
	Pascagoula River	10/13	37,415	26	1,439	19	1,969	7	5,345	1,740
	Red Creek	10/13	22,954	5	4,591	2	11,477	3	NA	620
	Theodore A. Mars Jr.	None/Youth Only	900	0		0	NA	0		23
	Ward Bayou	10/13	13,234	5	2,647	3	4,411	2	6,617	547
	Wolf River	10/13	10,881	34	320	19	573	15	725	1,243
South East Total			212,335	344		198		146		12,078
South East Average			21,234	34		20	3,532	15		1,208
South West	Bienville	12/15	26,136	32	817	23	1,136	9	2,904	1,481
	Canemount	16/20	3,500	25	140	16	219	9	389	384
	Caney Creek	12/15	28,000	47	596	20	1,400	27	1,037	1,461
	Caston Creek	10/13	27,785	31	896	24	1,158	7	NA	1,684
	Copiah County	12/15	7,386	24	308	16	462	8	923	1,448
	Marion County	12/15	7,125	32	223	19	375	13	548	1,373
	Natchez State Park	12/15	2,457	41	60	22	112	19	129	414
	Pearl River	10/13	6,925	10	693	5	1,385	5	1,385	651
	Sandy Creek	10/13	16,407	11	1,492	10	1,641	1	16,407	1,374
	Tallahala	12/15	28,120	30	937	15	1,875	15	1,875	1,023
South West Total			153,841	283		170		113		11,293
South West Average			15,384	28		17	976	11	2,844	1,129
TOTAL			696,956	1,438		803		635		42,770
AVERAGE			14,224	29		16	1,419	13		873

Figure 8: WMA Deer Harvest and Man-days



Chronic Wasting Disease

Chronic Wasting Disease was first confirmed in Mississippi on February 9, 2018 in Issaquena County in a 4.5-year-old buck. As of June 2020, Mississippi has 54 confirmed CWD-positive white-tailed deer across six counties. These counties are Benton, Issaquena, Marshall, Panola, Pontotoc, and Tallahatchie. A total of 8,510 CWD samples were collected from July 2019–June 2020. For more information on CWD, go to mdwfp.com/wildlife-hunting/chronic-wasting-disease/.

Figure 10: CWD Positive Counties

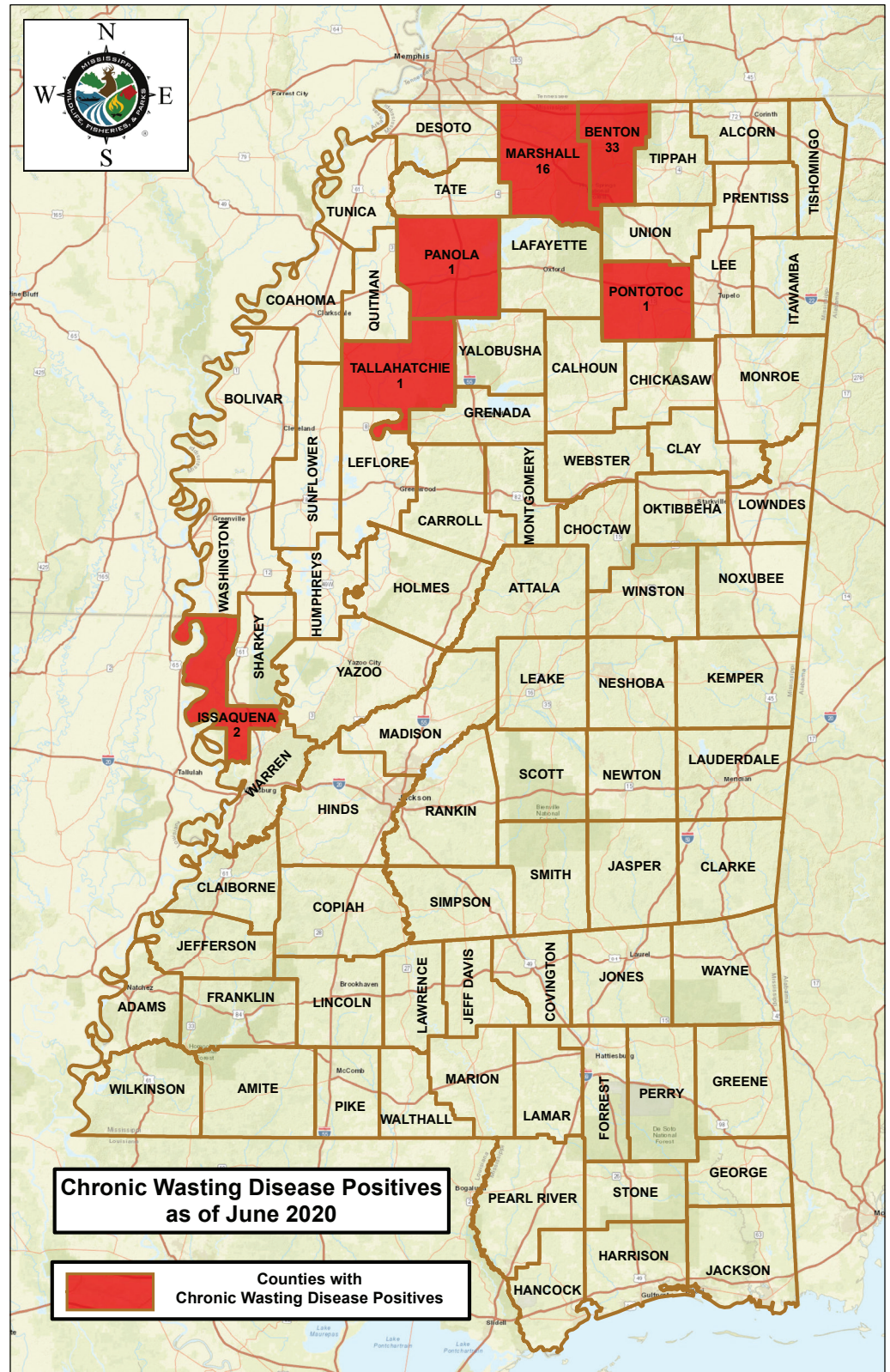
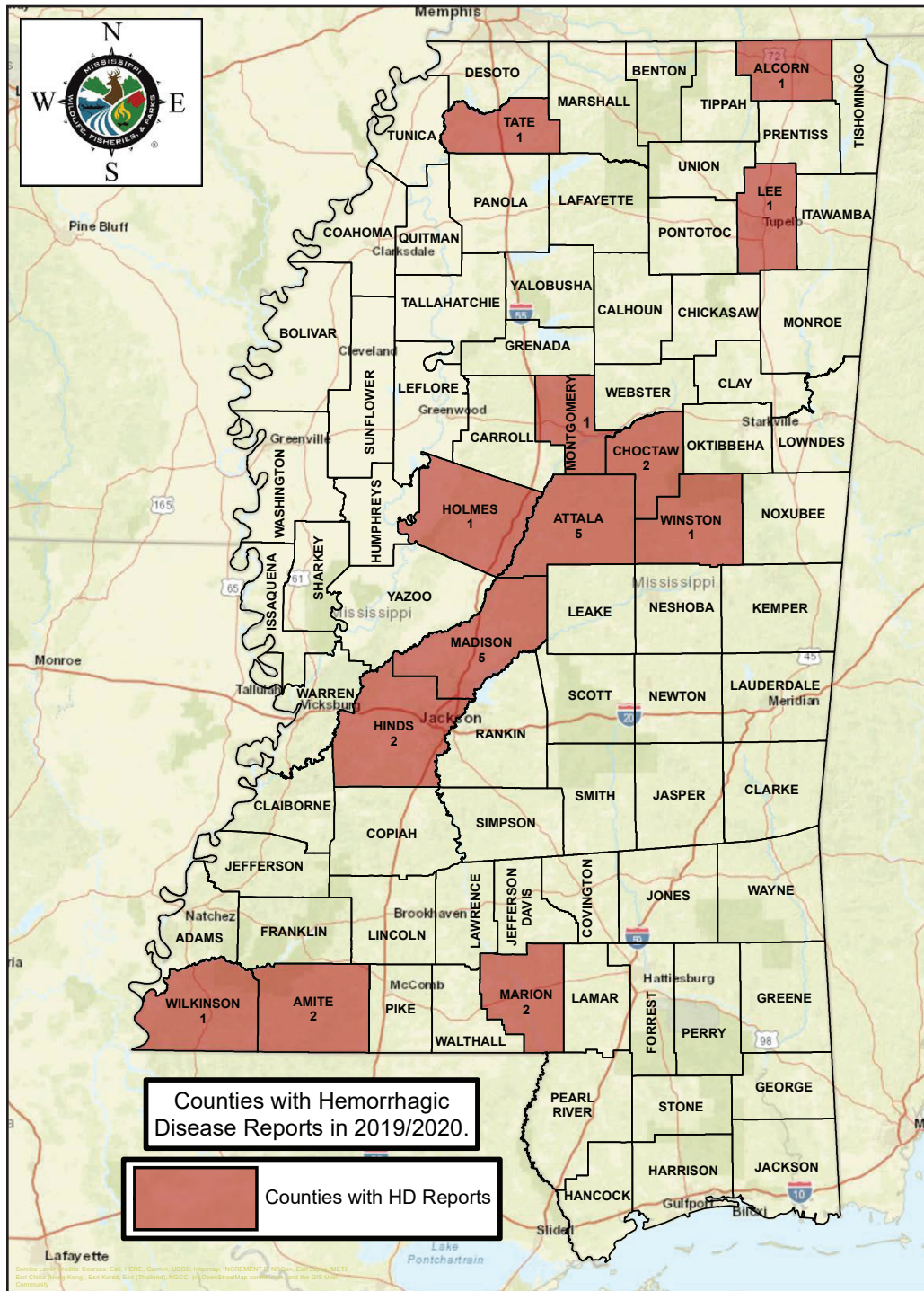


Figure 11: Hemorrhagic Disease Reports



Hemorrhagic Disease (HD), also recognized as Epizootic Hemorrhagic Disease (EHD) or Blue-tongue (BT), is considered the most important viral disease of white-tailed deer in the United States. There are currently six subtypes of BT virus and two subtypes of EHD virus known in North America. Wildlife biologists refer to both viruses collectively as HD, due to the indistinguishable differences in symptoms.

MDWFP biologists have been monitoring the presence of HD in Mississippi by several methods: through investigation of sudden, unexplained high deer mortality during late summer and early fall, necropsy diagnosis, isolation of EHD or BT virus, and observation of hoof lesions on hunter-harvested deer. The occurrence of HD during the 2018–2019 hunting season lower than average for the third consecutive year, with evidence of HD reported in 26 deer across 14 counties. Researchers have documented a distinctive 2–3 year cycle in HD outbreaks. Assuming that these cyclic outbreaks occur, we can expect a higher occurrence of HD during the 2020–2021 hunting season.

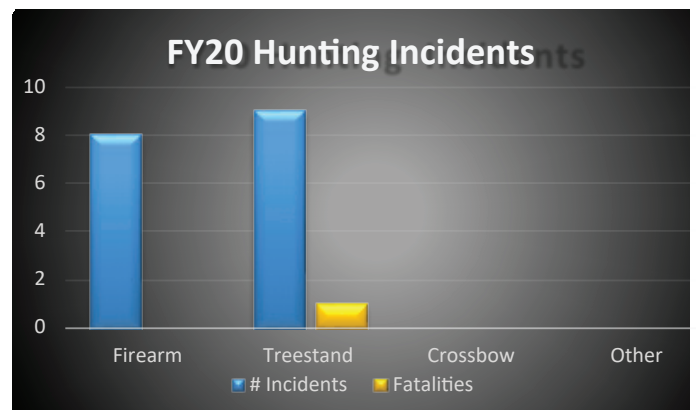
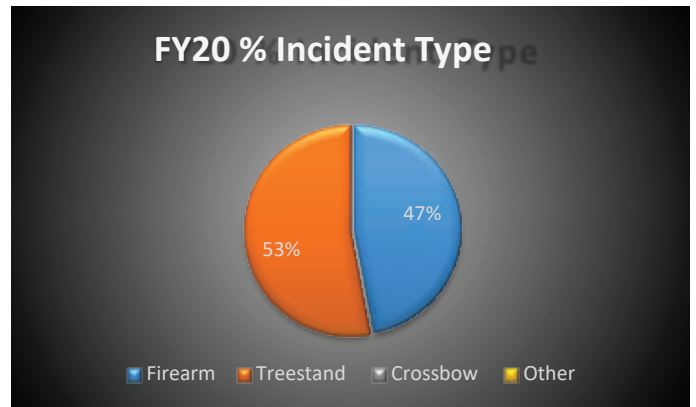
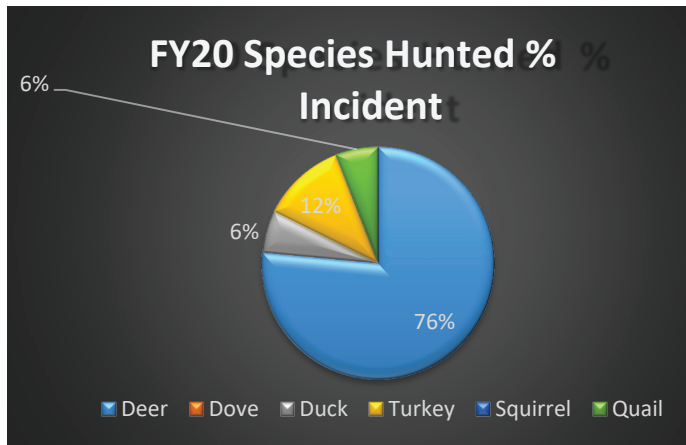
HUNTING ACCIDENTS

For the purposes of this report, a hunting accident includes an injury to a person(s) by the discharge of a hunting weapon or during the maneuvering of a treestand while engaged in the activity of hunting.

Hunting accidents in Mississippi average about 10 injuries per 100,000 participants. For comparison, football averages around 3,500 injuries per 100,000 participants. Based on relative rates of injury, hunting may be considered a very safe sport.

There were 17 total hunting related accidents investigated in Mississippi during the 2019–2020 hunting season. Eight of these were firearm-related and nine were treestand-related. One of the accidents was fatal.

Figure 14: FY20 Species Hunted % Incident



HUNTER EDUCATION

Without question, the most important component of accident prevention is education. Volunteer instructors and Conservation Officers certified 9,788 sportsmen in Hunter Education during the 2019–2020 season. For more information about hunter safety and Hunter Education, including dates for classes in your area, visit mdwfp.com.

Year	Students Trained
2014	12,148
2015	10,954
2016	9,858
2017	8,917
2018	8,708
2019	9,788



Enforcement of Deer Hunting-Related Citations 2019–2020

Mississippi Department of Wildlife, Fisheries, and Parks began electronic tracking of citations in 1996. Twenty-three deer hunting violations were extracted from the database and summarized from 2008 to 2019. These violations were chosen because they are commonly cited, or because they represent recent changes in Administrative Rules or policy. Some citations were combined into one category because they represent similar violations (i.e., “unlawful shot/weapon” includes hunting with restricted calibers and inappropriate weapons for the season).

Table 8: Statewide Citations Summary for Most Frequent Deer-Related Violations By Season

Violation	'08-'09	'09-'10	'10-'11	'11-'12	'12-'13	'13-'14	'14-'15	'15-'16	'16-'17	'17-'18	'18-'19	'19-'20
NO LICENSE - NON-RES	108	78	96	116	83	102	91	80	68	104	139	95
NO LICENSE - RESIDENT	337	354	346	275	308	272	266	289	258	347	363	360
BAITING	214	235	205	188	154	131	86	14	26	33	11	18
SUPPLEMENTAL FEED	NA	44	54	124	170	224	174	188	185	266	160	257
DUMPING WILDLIFE PARTS	6	5	7	4	8	12	3	16	13	23	22	10
EXCEEDING BAG LIMIT	12	10	11	6	14	11	11	8	6	7	6	9
HEADLIGHTING DEER	175	178	128	105	168	171	105	130	95	148	159	188
WILDLIFE HARASSMENT (ILLEGAL SHINING)	36	37	26	23	29	17	18	68	19	42	39	20
GAME / FUR-BEARING ANIMALS IN CAPTIVITY	1	0	3	2	4	7	3	2	1	13	2	0
HUNTING AFTER HOURS	49	53	37	33	37	26	25	35	13	33	42	11
HUNTING CLOSED SEASON	56	84	63	43	76	78	32	44	18	33	24	30
HUNTING FROM PUBLIC ROAD/MOTORIZED VEHICLE	47	31	18	34	34	35	17	25	186	301	287	333
HOMOCHITTO DOG LAW	NA	NA	1	8	4	8	11	2	5	9	3	9
KILLING DOE OUT OF SEASON	7	10	9	10	3	7	4	2	4	7	14	8
NO ARCHERY/ PRIMITIVE WEAPON PERMIT	24	23	9	15	10	6	15	24	20	25	25	27
NO HUNTER ORANGE	266	231	225	204	242	217	190	160	162	254	220	197
WMA REGS	167	134	130	112	110	108	125	146	32	171	148	95
No WMA Permit	34	29	44	44	26	39	32	49	132	29	42	31
TRESPASSING	176	180	149	100	119	119	104	120	80	108	137	133
UNDERSIZED ANTLERS	41	30	28	29	34	26	47	57	21	69	37	14
UNLAWFUL POSSESSION	115	127	97	93	113	155	91	89	101	126	141	112
UNLAWFUL WEAPON/ SHOT SIZE	143	140	100	94	129	81	42	58	33	71	55	98
PROHIBITION OF IMPORTATION OF CERVID CARCASS	NA	NA	NA	NA	NA	NA	NA	NA	2	3	2	3
Totals	2,014	2,013	1,786	1,662	1,875	1,852	1,492	1,606	1,480	2,222	2,078	2,058

Mississippi Department of Wildlife, Fisheries, and Parks supports these research projects using Federal Aid in Wildlife Restoration Funds.

EFFECTS OF FIRE TIMING AND STUMP SPROUTING ON SUMMER NUTRITIONAL CARRYING CAPACITY FOR DEER (2017-2020) FINAL SUMMARY

Steve Demarais, Marcus Lashley, Bronson Strickland, Rick Hamrick, John Gruchy, and Rainer Nichols

ALTER FIRE TIMING TO OPTIMIZE DEER HABITAT QUALITY AND USE

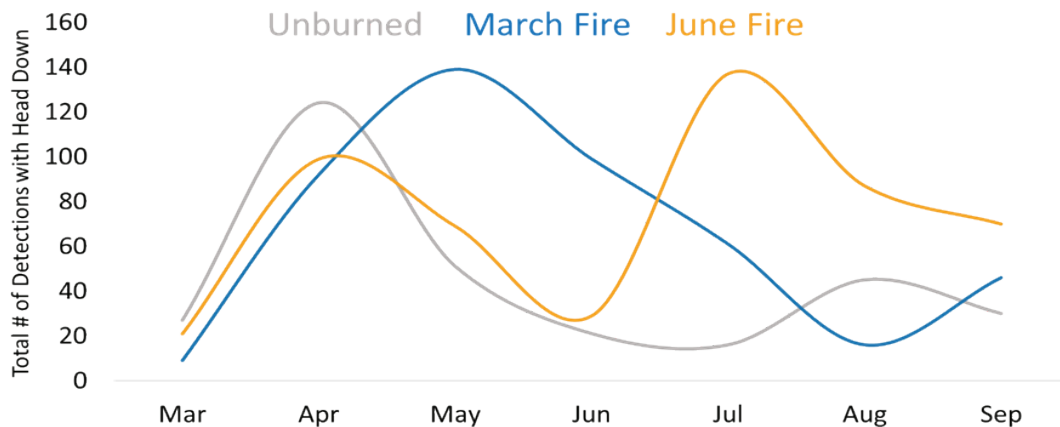
- Growing season fire (June) increased forage protein during the same season.
- Dormant season fire (March) increased protein-based CC during the same season.
- Both fire season treatments increased CC 1-year post fire.
- Deer fed more in areas with greater protein content across the growing season.
- Diversifying fire timing optimizes nutrient availability during summer nutritional stress period for deer on a landscape level.

STUMP SPROUTS: LOCALIZED HIGH-QUALITY FORAGING FOR DEER IN CLOSED CANOPY FORESTS

- Mechanical stump sprouting increased protein content of high (Blackgum), medium (Maple), and low (Sweetgum) preference forage.
- Mechanical stump sprouting increased deer use of high (Blackgum), medium (Maple), and even low (Sweetgum) preference forages.

EMPOWER HUNTERS AND LANDOWNERS TO CREATE LOCALIZED NUTRITIONAL PULSES

- Vary timing of fire to optimize deer habitat quality and quantity across the landscape, while attracting deer to their property with seasonal nutrient pulses.
- Create stump sprouts to move forage from mid-story to ground level.
- Stump sprouts to attract deer to localized nutrient pulses in closed canopy forests.
- Mechanical- and fire-caused stump sprouting increases quality and use of woody species normally un-used by deer.



Deer Research Projects

BUCK MOVEMENT RESPONSE TO VARIATION IN HUMAN ACTIVITY (2016-2020)

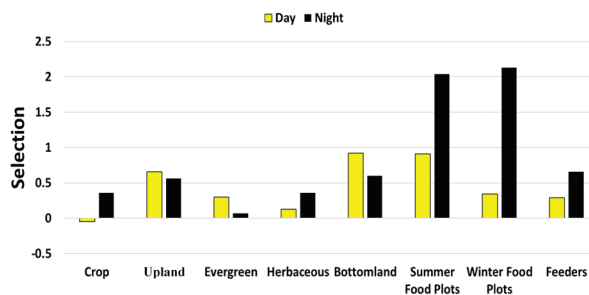
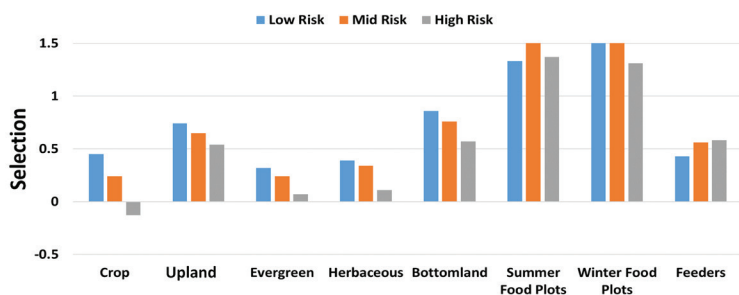
Steve Demarais, Garrett Street, Bronson Strickland, William McKinley, and Colby Henderson

BUCKS RESPOND TO HUNTER DENSITY ON THE LANDSCAPE

- Deer selection of natural land covers decreased with increasing hunter risk.
- Food plot results were surprising at first look, being selected more than double any other land cover, including feeders.
- Hunters' selection of natural habitats perfectly mismatched selection by bucks. Deer identified where hunters were located and altered their selection appropriately.
- Day vs Night analysis further clarified deer selection of land covers.
- Deer selected winter food plots 5-times more at night than daytime.
- Daytime use of natural areas included areas with greater cover to avoid hunter risk.
- Deer selected sites with greater oak tree density when acorns were dropping prior to peak rut.

DEPREDAATION PERMITS ACTIVITIES ALTER BUCK USE OF AG FIELDS

- Deer stayed farther away from fields that had a depredation permit than those without one. This effect even carried over into the non-depredation season.

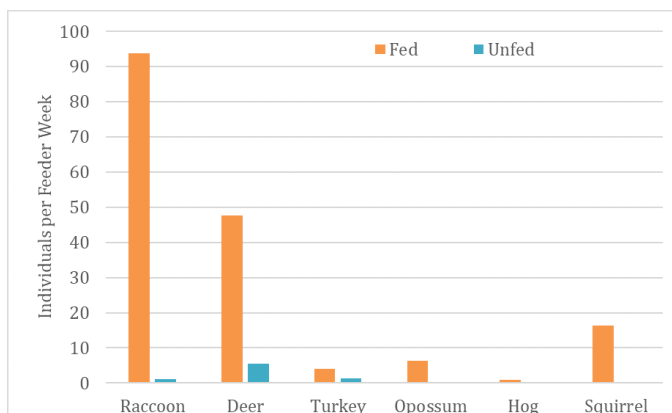


SUPPLEMENTAL FEEDING EFFECTS ON BUCK MOVEMENT, ZONOTIC DISEASES, AND HABITAT (2018-2021)

Steve Demarais, Bronson Strickland, Marcus Lashley, Garrett Street, Brandon Barton, Cooper Brookshire, Miranda Huang, Beau Navarre, and Zoe Johnson

DISEASE AND HABITAT EFFECTS AT FED AND ECOLOGICALLY-EQUIVALENT UNFED SITES

- Sampling is expanding during Summer 2020 to 30-40 additional pairs in the retrospective study and continuing at the 25 pairs in the manipulative study.
- Feeding significantly increases potential for disease transfer among wildlife due to the artificially greater concentration of species and individuals within species. Turkeys, wild hogs, raccoons, squirrels, and deer visit feeders much more frequently than unfed sites.
- Tick Diseases: Ehrlichia, a group of bacteria which affect humans and wildlife occurred in 3% of ticks. Another bacteria, Rickettsia amblyommatis, was found in 50% of ticks, but is not known to cause human disease. However, this significant difference in prevalence demonstrates how feeding can increase risk of important zoonotic diseases.
- Protozoan Diseases in Feces: Giardia, the protozoan cause of human intestinal distress, was found in two fecal samples.
- Feeding increases concentration of deer near the feeders, with significant impact on habitat quality. Repeated measurements of plants at the manipulative sites shows that after one year of feeding, blackberry is decreasing in height at fed sites while increasing at unfed controls.
- Feeders also concentrate birds, which could increase dispersal of non-native, noxious plant species, exemplified by the greater number of seeds recovered of native blackberry.



ATTENTION DEER HUNTERS!

GAME CHECK IS NOW AVAILABLE TO REPORT YOUR HARVEST



YOU CAN BE
ACTIVELY ENGAGED
IN WHITE-TAILED
DEER MANAGEMENT.



Hunters are asked to use Game Check to report their deer harvests to Mississippi Department of Wildlife, Fisheries, and Parks. By reporting your harvests, you will aid the future of wildlife conservation in Mississippi.

THERE ARE 2 WAYS TO REPORT:

1. MDWFP app on your mobile device
2. Online at mdwfp.com/gamecheck

To learn more about Game Check, visit mdwfp.com or call (601) 432-2400



Rick Small

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THE CONSERVATION AND ENHANCEMENT OF OUR FISH AND
WILDLIFE RESOURCES SO THEY SURVIVE AND THRIVE FOR
CURRENT AND FUTURE GENERATIONS**

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