

DMAP Harvest Summary

Date: 08/13/2024

*** Charles Ray Nix WMA ***

Club ID: 6481

Season: 2023	Acres: 4000
Location: Panola County, MS	Years on DMAP: 28
Soil Region: Upper Thick Loess	Biologist: Brad Holder
	% Data Collected: 88

Table 1. Harvest Summary

	Number Harvested	Acres Per Deer Harvested
Bucks	27	148
Does	41	98
Totals	68	59

Table 2. Harvest History

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	RG 2022	Club Avg
Acres	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	183983	4000
Total Deer	68	76	71	58	57	48	87	97	90	67	2606	72
Buck	27	25	27	33	23	12	32	29	36	28	896	27
Doe	41	51	44	25	34	36	55	68	54	39	1710	45
Acres/Deer	59	53	56	69	70	83	46	41	44	60	71	56
Acres/Buck	148	160	148	121	174	333	125	138	111	143	205	147
Acres/Doe	98	78	91	160	118	111	73	59	74	103	108	89

Table 3. Age Distribution

Age	Bucks		Does		Management Bucks		Criteria Bucks	
	#	%	#	%	#	%	#	%
0.5	3	12	1	3	0	0	3	12
1.5	2	8	8	22	0	0	2	8
2.5	4	17	9	25	0	0	4	17
3.5	6	25	5	14	0	0	6	25
4.5	6	25	2	6	0	0	6	25
5.5	3	12	4	11	0	0	3	12
6.5	0	0	3	8	0	0	0	0
7.5	0	0	2	6	0	0	0	0
8.5	0	0	2	6	0	0	0	0

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Table 4. Statistics for Doe Harvest

Age	Number Harvested	Avg Live Weight	Percent Lactating
0.5	1	50	0
1.5	8	84	0
2.5	9	97	33
3.5	5	98	60
4.5	2	110	50
5.5	4	110	75
6.5	3	110	100
7.5	2	118	50
8.5	2	118	50
Totals	36	99	

Table 5. Doe Harvest History

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	RG 2022	Club Avg
Total Does	36	51	44	25	34	36	55	68	54	39	1801	44
Acres/Doe	111	78	91	160	118	111	73	59	74	103	100	90
% Harvest By Age												
% 0.5	3	18	14	20	24	8	18	21	15	26	7	17
% 1.5	22	18	16	24	29	14	18	28	17	10	19	20
% 2.5	25	4	5	20	6	17	16	10	9	5	19	11
% 3.5+	50	59	64	36	41	61	47	41	59	59	53	52
Average Weight												
0.5	50	56	67	54	54	63	60	54	59	64	64	58
1.5	84	93	81	83	82	93	93	85	85	96	98	87
2.5	97	88	97	93	110	103	96	89	96	95	111	96
3.5+	108	104	104	103	100	105	106	109	105	113	115	103
% Lactation												
% 1.5	0	12	0	0	0	20	0	0	0	0	9	2
% 2.5	33	100	0	20	0	20	67	43	40	50	51	40
% 2.5+	56	53	66	50	20	57	69	66	59	52	58	57
% 3.5+	67	50	68	67	23	67	69	71	62	52	60	61

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Table 8. Buck Harvest History (All Bucks)

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	RG 2022	Club Avg
Bucks	24	25	27	33	23	12	32	28	36	28	929	27
Acres/Buck	167	160	148	121	174	333	125	143	111	143	194	149
% .5 Bucks	12	20	19	9	9	0	9	4	22	11	5	12
# .5 Bucks	3	5	5	3	2	0	3	1	8	3	51	33
Avg Weight	61	65	55	61	75	0	65	60	64	57	70	62
% 1.5 Bucks	8	16	11	9	4	0	16	11	6	7	18	9
# 1.5 Bucks	2	4	3	3	1	0	5	3	2	2	166	2.5
% Spikes	0	50	67	67	100	0	60	67	0	0	82	48
Avg Weight	112	110	100	108	80	0	101	74	105	120	112	102
Avg Points	4	3.67	2	2	2	0	2	1	1.5	2	2	2
Avg Base	2.4	2.3	2.1	2.0	0.5	0	1.7	1.0	0	1.5	1.7	1.8
Avg Length	8.2	6.0	6.7	5.2	1.0	0	3.9	6.5	6.8	10.0	3.9	5.7
Avg Spread	7.0	6.5	6.0	0	3.0	0	10.0	0	5.0	8.0	4.8	6.3
% 2.5 Bucks	17	4	11	6	35	25	9	4	3	14	5	11
# 2.5 Bucks	4	1	3	2	8	3	3	1	1	4	42	3
Avg Weight	142	100	127	148	138	162	135	0	129	141	150	139
Avg Points	7.75	6	5	8.5	6.38	9	6	0	8	4.75	7	7
Avg Base	2.9	3.5	2.6	3.7	3.4	3.9	3.0	2.5	3.0	2.7	3.4	3.2
Avg Length	17.3	17.2	12.2	17.0	14.8	18.5	15.8	15.5	13.8	15.4	14.2	15.7
Avg Spread	14.4	14.0	10.0	13.0	12.3	14.4	12.2	13.0	12.0	13.8	12.7	12.8
% 3.5 Bucks	25	16	26	39	30	25	34	36	25	14	17	28
# 3.5 Bucks	6	4	7	13	7	3	11	10	9	4	158	7.4
Avg Weight	139	137	145	151	148	150	162	147	145	153	169	149
Avg Points	7.6	8	8.67	7.92	8.29	7.67	7.82	6.8	7.89	7.75	8	8
Avg Base	3.9	4.0	4.0	3.9	3.9	3.8	4.0	3.7	4.1	3.9	4.0	3.9
Avg Length	18.9	16.4	19.3	18.8	18.0	18.0	17.2	17.5	18.4	16.7	17.4	18.0
Avg Spread	15.0	13.3	14.8	14.7	13.2	13.2	13.6	14.2	14.3	14.0	14.3	14.1
% 4.5 + Bucks	38	40	33	36	22	50	31	46	44	54	51	39
# 4.5 + Bucks	9	10	9	12	5	6	10	13	16	15	197	10.5
Avg Weight	160	155	158	160	163	151	160	149	154	156	185	156
Avg Points	7.67	7.78	7.5	8.42	8	7.5	7.7	7.23	8	7.33	8	8
Avg Base	4.2	4.1	4.6	4.3	4.4	4.7	4.3	3.9	4.0	4.0	4.5	4.5
Avg Length	19.6	17.6	18.9	19.6	19.3	19.0	19.4	19.2	17.7	17.9	19.6	18.7
Avg Spread	14.9	14.7	13.9	14.5	14.2	14.7	15.2	15.2	13.1	13.5	15.9	14.3

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Table 9. Criteria Buck Harvest History

	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	RG 2022	Club Avg
Bucks	24	25	27	33	23	12	32	28	36	28	750	27
Acres/Buck	167	160	148	121	174	333	125	143	111	143	241	149
% .5 Bucks	12	20	19	9	9	0	9	4	22	11	7	12
# .5 Bucks	3	5	5	3	2	0	3	1	8	3	51	33
Avg Weight	61	65	55	61	75	0	65	60	64	57	70	62
% 1.5 Bucks	8	16	11	9	4	0	16	11	6	7	12	9
# 1.5 Bucks	2	4	3	3	1	0	5	3	2	2	93	2.5
% Spikes	0	50	67	67	100	0	60	67	0	0	68	48
Avg Weight	112	110	100	108	80	0	101	74	105	120	112	102
Avg Points	4	3.67	2	2	2	0	2	1	1.5	2	2	2
Avg Base	2.4	2.3	2.1	2.0	0.5	0	1.7	1.0	0	1.5	1.9	1.8
Avg Length	8.2	6.0	6.7	5.2	1.0	0	3.9	6.5	6.8	10.0	4.7	5.7
Avg Spread	7.0	6.5	6.0	0	3.0	0	10.0	0	5.0	8.0	5.4	6.3
% 2.5 Bucks	17	4	11	6	35	25	9	4	3	14	5	11
# 2.5 Bucks	4	1	3	2	8	3	3	1	1	4	37	3
Avg Weight	142	100	127	148	138	162	135	0	129	141	152	139
Avg Points	7.75	6	5	8.5	6.38	9	6	0	8	4.75	7	7
Avg Base	2.9	3.5	2.6	3.7	3.4	3.9	3.0	2.5	3.0	2.7	3.5	3.2
Avg Length	17.3	17.2	12.2	17.0	14.8	18.5	15.8	15.5	13.8	15.4	15.0	15.7
Avg Spread	14.4	14.0	10.0	13.0	12.3	14.4	12.2	13.0	12.0	13.8	13.1	12.8
% 3.5 Bucks	25	16	26	39	30	25	34	36	25	14	17	28
# 3.5 Bucks	6	4	7	13	7	3	11	10	9	4	131	7.4
Avg Weight	139	137	145	151	148	150	162	147	145	153	169	149
Avg Points	7.6	8	8.67	7.92	8.29	7.67	7.82	6.8	7.89	7.75	8	8
Avg Base	3.9	4.0	4.0	3.9	3.9	3.8	4.0	3.7	4.1	3.9	4.0	3.9
Avg Length	18.9	16.4	19.3	18.8	18.0	18.0	17.2	17.5	18.4	16.7	17.7	18.0
Avg Spread	15.0	13.3	14.8	14.7	13.2	13.2	13.6	14.2	14.3	14.0	14.4	14.1
% 4.5 + Bucks	38	40	33	36	22	50	31	46	44	54	54	39
# 4.5 + Bucks	9	10	9	12	5	6	10	13	16	15	160	10.5
Avg Weight	160	155	158	160	163	151	160	149	154	156	185	156
Avg Points	7.67	7.78	7.5	8.42	8	7.5	7.7	7.23	8	7.33	8	8
Avg Base	4.2	4.1	4.6	4.3	4.4	4.7	4.3	3.9	4.0	4.0	4.6	4.6
Avg Length	19.6	17.6	18.9	19.6	19.3	19.0	19.4	19.2	17.7	17.9	19.8	18.7
Avg Spread	14.9	14.7	13.9	14.5	14.2	14.7	15.2	15.2	13.1	13.5	16.0	14.3

Description of the Data and Glossary of Terms

This report is based on data MDWFP receives from DMAP clubs. The club/cooperator information in the heading, including acres under management and soil region, is based on the Annual DMAP Application. Please contact your DMAP Biologist if any of the information in the heading is incorrect. The “% Data Collected” field is the percentage of deer reported on the DMAP datasheet for which jawbones were received. Harvest totals in Tables 1 and 2 are based on deer harvest reported on the DMAP datasheet (regardless of whether a jawbone was received). All other tables are based on submitted jawbones in adequate condition to age using the tooth wear and replacement technique. For all tables including Soil Region Average data, the regional data column is labeled “RG20xx.” For all tables, Criteria Buck and Management Buck are defined below. Buck designations are made by the DMAP Biologist. If no designations are made, all bucks are classified as Criteria. If you have questions about Management and Criteria bucks, please contact your DMAP Biologist.

Soil Region Average (e.g., Regional Average or RG20xx) – the average of all deer in a specified parameter (i.e., harvest total, lactation, weight, etc.) reported for the year in question is used as an indicator of overall deer herd health by comparing club averages to other DMAP clubs in the same soil region.

Criteria Buck or perhaps a “trophy buck” – a buck deemed to have antler characteristics that satisfy the club’s goals for antler quality. This determination is generally made by the DMAP biologist in collaboration with the DMAP club and considers buck age, antler characteristics, soil region averages, and the goals of the DMAP club.

Management Buck or perhaps a “cull buck” – a harvested buck deemed to have below average antler characteristics compared to other bucks in the same age class and soil region. As with Criteria bucks, this determination is generally made by the DMAP biologist in collaboration with the DMAP club.

Lactation Index – the percentage of does for which a DMAP club recorded “detecting lactation” on the datasheet. Where sample sizes are sufficient, this index is used to determine the number of adult does that successfully raised fawns and is used to help estimate fawn recruitment. These data may be highly variable based on the timing of doe harvest in the annual cycle, as well as how thoroughly club members check for lactation. Generally, a favorable lactation index would be 60% or greater for adult does. A low lactation index (with adequate sample size) may indicate poor habitat, overpopulation, or a significant predation influence. Doe harvest early in the season (Oct- Dec) is generally better in estimating fawn recruitment vs late season harvest (after does finish lactating). For this report, lactation index is adjusted to account for late-season harvest.

Dressed Weights - average weight to the nearest pound of a dressed animal. A dressed animal should have both the forward (heart and lungs and rear (intestines) viscera removed but not any part of the remaining carcass. Comparing club average body weights from year to year or to the coordinating soil region average can be an indicator of overall herd health. Typically, doe carcass condition is a more reliable indicator of herd health than that of bucks due to the drastic fluctuation of buck body weights during the rut. Significant annual changes in carcass condition may indicate changes in habitat, mast crop, herd density, disease influence, or even severe weather conditions.

Age Distribution of Harvest – an estimate of age structure of the population, though generally only the doe segment is assessed, as buck harvest is often biased. Balanced deer herds typically show some harvest across all age classes. However, an age structure with more older animals (>40% 3 years old or greater) may indicate a stockpile of older animals which could signal an overabundant deer herd. Age distribution data is generally best considered in context with other harvest data (i.e., lactation index, doe body weights), as well as observation data (i.e., adult sex ratio, fawn recruitment) and even camera survey data (i.e., deer density, buck age structure).

Fawn Recruitment – a measurement of the number of fawns per adult doe that survive to at least 4-6 months of age. Recruitment tends to improve with increased harvest due to freeing up available resources. Generally fawn recruitment is measured using hunter observation data or camera surveys.

Adult Sex Ratio – ratio of the total number of does to total number of bucks in a deer herd. Typically, adult sex ratio is measured using observation data or camera surveys. Deer are born at nearly a 1:1 ratio of does to bucks. Thus, adult sex ratios closer to 1:1 are ideal. In trophy management scenarios adult sex ratio may be skewed towards more bucks, but most deer herds range from 1.5:1 to 3:1.

Important DMAP Reminders for Each Season

- For more information, visit www.mdwfp.com/DMAP and check out the Deer Managers Toolkit.
- If club acreages are incorrect, they should be updated on your DMAP Application. Contact your DMAP Biologist for help updating your DMAP Application.
- Calibrate your body weight scale(s) each year, especially if your club has multiple scales.
- Don't forget to retrieve jawbones from taxidermy bucks. The mature bucks are the most important to have aged.
- Do your best to collect all data completely. Check udders thoroughly for lactation.
- Hunter observation data can provide useful information, especially in clubs with small harvest data sets. Ask your biologist about hunter observation books.