

REPORT OF DEER HARVEST 2020-2021

HARVEST REPORT STATEWIDE WILDLIFE RESEARCH AND SURVEYS BIG GAME PROGRAM

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Brad Loveless
Secretary

Prepared by

Levi Jaster
Big Game Program Coordinator

Michael Miller
Assistant Secretary
Operations

Richard Schultheis
Research Section
Wildlife Division



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Deer Harvest Survey 2020 – 2021

Monitoring harvest is an integral part of deer management for the Kansas Department of Wildlife, Parks, and Tourism (KDWPT). Harvest data in conjunction with population monitoring directs more effective harvest goals and regulations. Additionally, hunter activity information increases the ability of deer managers to refine opportunities and adjust harvest goals as part of maintaining sustainable deer populations. KDWPT utilizes a post-season harvest survey to gather this data. This survey is administered once deer permit sales are summarized, so that a sample that is proportional to each permit type maybe randomly drawn. The survey period is approximately 21 days long. Participants selected for participation by email receive an initial email, and two follow up emails at one-week intervals if they have not completed the survey. Participants selected for participation by postcard receive one postcard at the beginning of the open survey period. Data summary and analysis was completed using the statistical program R.

The following summary includes information and is organized in the following order: permit sales, deer harvest by species, age, and sex, harvest by weapon type, hunter use, and deer kill on private, public and WIHA properties, season participation, hunter days afield, date of harvest, hunter satisfaction, and a summary of the special section questions. Additionally, an appendix (Appendix 1) includes estimated deer harvest by species, age, and sex for each of the 19 Deer Management Units in Kansas. An additional separate document ([2020-21 Deer Harvest Survey Supplementary Material – Hunter Comments](#)) contains all comments received through the survey as they were written, except that personal identifying information (e.g., names, phone numbers, etc.) are redacted.

This is a summary of the survey data compiled from responses of hunters completing the post-season survey. The accuracy of this summary relies on the accuracy of information provided by participants. When possible, survey responses with information that was not valid were corrected (e.g., a hunter marks one deer harvested but classifies two and the information in each classification is the same, one classification would be dropped) or removed from the dataset.

Permit Sales and Survey Sample Summary

The total deer permits sold in Kansas for the 2020-21 deer season was 182,821 (Fig. 1), which is an increase of 4.71% from 2019-20 and 0.94% above the five-year average. This was the first year since 2014 that year over year permit sales increased. Most of the increases were in resident over-the-counter permits. Non-resident permit sales have been relatively steady since most non-resident permits are limited availability with quotas, but slight variation occurs with Hunt-Own-Land permits.

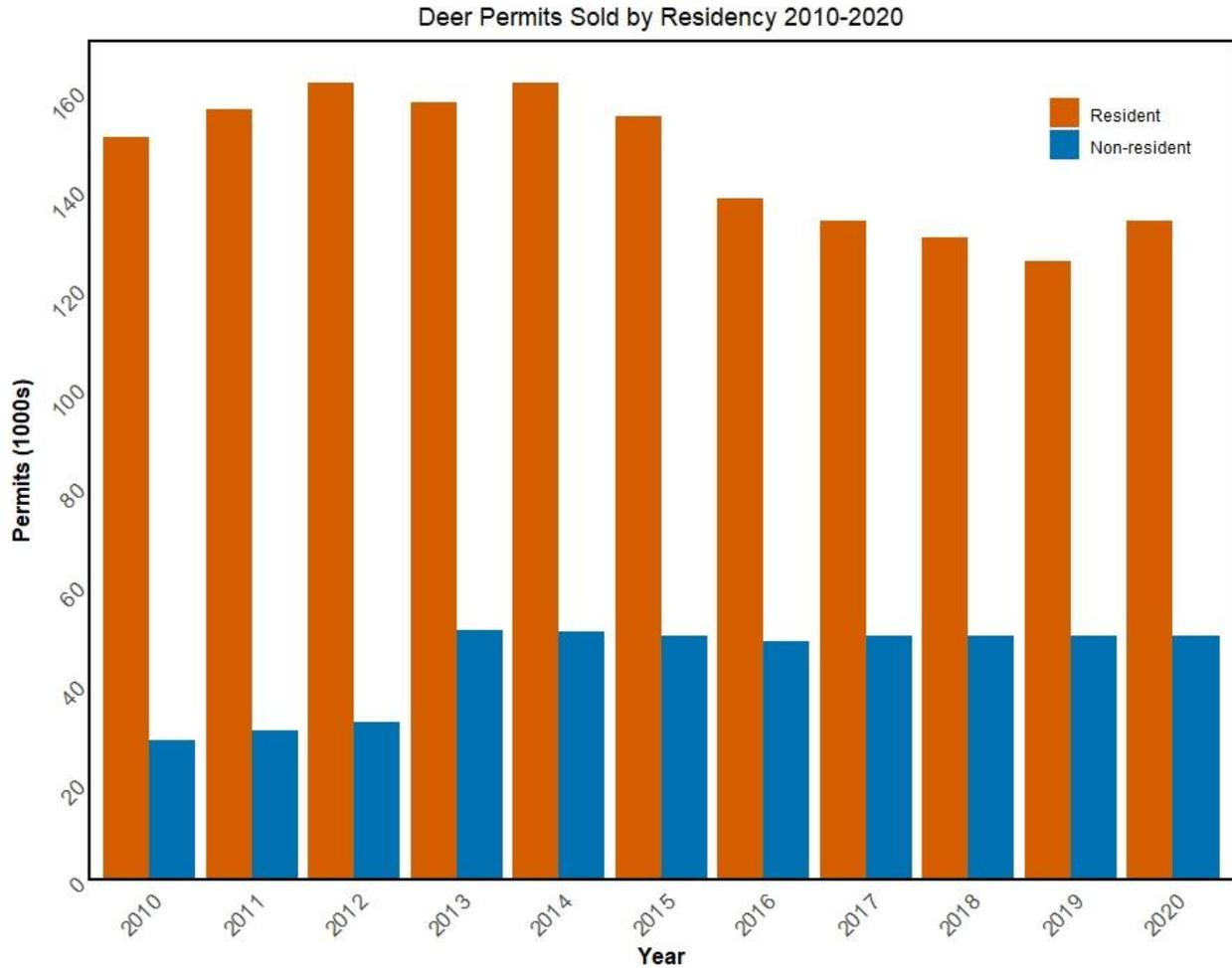


Figure 1. Deer permit sales 2010 to present. Resident sales (orange) have declined the last three years. Non-resident sales have remained steady since most non-resident permits are limited availability through the random draw, variation in non-resident permits is typically due to changes in the number of hunt-own-land or white-tail antlerless only permits sold.

Deer hunters in Kansas are limited to one permit allowing the take of an antlered deer (the buck permit; all permits allowing an antlered deer to be taken are either sex permits) and must purchase this permit before they may purchase antlerless-only permits unless they purchase antlerless only permits after December 30. During the 2020-21 deer season, hunters purchased 110,411 buck permits. A total sample size of 40,000 was drawn from hunters purchasing buck permits to receive the Kansas Deer Harvest Survey. The 40,000 hunters are sampled in proportion to the number of each type of permit sold. Thirty-two thousand hunters receive an email invitation with a weblink to participate in the survey. Eight thousand hunters are mailed a postcard with a weblink they may use to participate in the survey. Additionally, 3,500 bowhunters receive a paper form of the Deer Harvest Survey as part of participating in the Bowhunter Observation Diary, which they mail mail-in or follow the included weblink. All surveys include a hunter's KDWP number to prevent duplicate surveys from being included as

part of the results. The actual number of email invitations sent in the 2020-21 post-season was 33,122, due to incorrect emails, closed emails, etc. A total of 12,775 usable responses were received, made up of 10,474 responses to email invitations, 1,838 responses to postcards, and 463 responses from the Bowhunter form. Recent changes in international privacy law prevented surveying youth hunters under 16, therefore all youth data were included in the equivalent general resident category. All nonresident draw permits were issued through the draw. No leftover permits were available for the 2020-21 deer seasons.

Statewide Deer Harvest

The 2020-21 statewide deer harvest of 83,126 an increase of 5,226 deer from the previous season’s harvest. Harvest in 2020-21 was 2.71% above the three-year harvest average of 80,931 and was 1.75% above the five-year harvest average of 81,700 (Fig. 2). The 2020-21 deer harvest was the highest since 2016 and was the 12th highest harvest in Kansas since modern deer hunting seasons began in 1965; the highest was the 2000 season, when 111,159 deer were harvested.

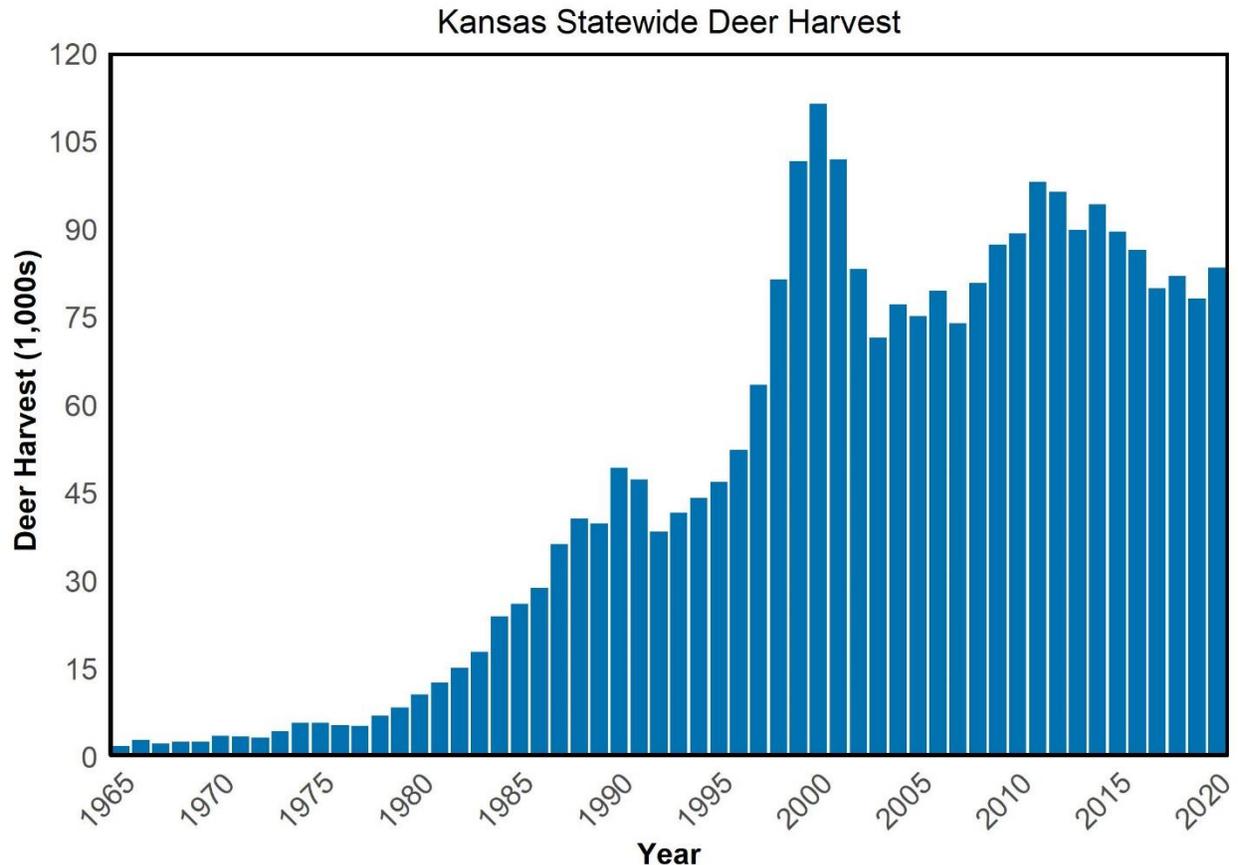


Figure 2. Kansas statewide deer harvest 1965 to present. Greatest harvest occurred in 2000 (111,159) lowest harvest occurred in 1965 (1,504). The first modern deer hunting season in Kansas was held in 1965.

Resident hunters hunted at a slightly higher rate (95.0%) than non-resident hunters (93.0%), although 94.1% of all hunters who purchased a deer permit spent time afield. Residents had a slightly higher rate of successfully harvesting a deer than nonresidents. KDWPT again, for the third consecutive season, did not offer Either Species Antlerless Only permits to limit female mule deer harvest. The total mule deer harvest (1,772) was slightly higher than the previous season (1,732) and the number of antlerless mule deer harvested (167) increased from 2019-20 (112) but was still lower than in 2018-19 (214). Mule deer harvest made up 2.1% of the total deer harvest (Table 1). The total antlerless deer harvest made up 46.6% of the total deer harvest, which was similar to the 2019-20 season (47.7%). Deer harvest estimates by species, sex, and age for each Deer Management Unit are included in Appendix 1.

Table 1. Kansas state-wide deer harvest by species, sex, and age in 2020-21. Non-resident permit classes are gray shaded.

Permit Type	Total Permits Issued	Percent (%) Active Hunters	Hunter Success Rate	Whitetail					Total WT Antlerless	Mule Deer					Total MD Antlerless	Percent (%) WT Antlerless	Percent (%) MD Antlerless	Total
				Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn		Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn				
Any Deer, Gen Res + Youth	1,310	92.6%	62.2%	171	14	7	0	0	21	499	64	0	0	0	64	10.9%	11.4%	755
Any Deer, LO/Ten	203	92.9%	61.5%	29	0	0	0	0	0	80	7	0	0	0	7	0.0%	8.0%	116
Whitetail Either Sex, Gen Res + Youth	57,094	95.8%	55.2%	21,882	7,106	58	898	219	8,281	12	12	0	0	0	12	27.5%	50.0%	30,187
Whitetail Either Sex, LO/Ten	13,535	93.4%	54.1%	5,228	1,389	11	169	45	1,614	0	0	0	0	0	0	23.6%	0.0%	6,842
Muzzleloader, Gen Res + Youth	532	100.0%	56.4%	14	14	0	0	0	14	259	14	0	0	0	14	50.0%	5.1%	301
Muzzleloader, LO/Ten	47	100.0%	80.0%	28	0	9	0	0	9	0	0	0	0	0	0	24.3%	0.0%	37
HOL	4,950	89.5%	53.6%	1,636	394	0	49	25	468	209	49	0	12	0	61	22.2%	22.6%	2,374
STWD Archery, Gen Res + Youth	6,407	96.1%	46.7%	2,125	356	20	31	0	407	346	0	0	0	0	0	16.1%	0.0%	2,878
STWD Archery, LO/Ten	1,018	92.5%	44.4%	305	87	0	0	0	87	26	0	0	0	0	0	22.2%	0.0%	418
WTAO, Gen Res + Youth	48,366	97.3%	41.7%	0	17,417	343	1,093	759	19,612	0	0	0	0	0	0	100.0%	0.0%	19,612
Whitetail Either Sex + Youth, Draw	6,186	92.6%	61.9%	3,316	198	0	24	8	230	0	0	0	0	0	0	6.5%	0.0%	3,546
Muzzleloader + Youth, Draw	1,508	95.7%	54.1%	699	74	0	7	0	81	0	0	0	0	0	0	10.4%	0.0%	780
Muzzleloader + Youth, ESES	67	91.7%	54.5%	0	0	0	0	0	0	33	0	0	0	0	0	0.0%	0.0%	33
HOL	1,772	94.4%	43.6%	542	122	0	0	0	122	56	9	0	0	0	9	18.4%	13.8%	729
HOL Special	1,194	91.4%	57.9%	506	69	0	0	0	69	57	0	0	0	0	0	12.0%	0.0%	632
HOL NR Tenant	569	89.1%	43.8%	180	21	21	0	0	42	0	0	0	0	0	0	18.9%	0.0%	222
Archery + Youth, Draw	13,916	95.9%	48.6%	6,113	351	8	8	8	375	0	0	0	0	0	0	5.8%	0.0%	6,488
Archery + Youth, ESES	103	91.7%	30.0%	0	0	0	0	0	0	28	0	0	0	0	0	0.0%	0.0%	28
WTAO	24,044	94.9%	31.3%	0	6,559	307	154	128	7,148	0	0	0	0	0	0	100.0%	0.0%	7,148
Resident	133,462	95.0%	55.6%	31,418	26,777	448	2,240	1,048	30,513	1,431	146	0	12	0	158	29.7%	9.7%	63,520
Nonresident	49,359	93.0%	47.3%	11,356	7,394	336	193	144	8,067	174	9	0	0	0	9	19.1%	1.5%	19,606
Total	182,821	94.1%	51.7%	42,774	34,171	784	2,433	1,192	38,580	1,605	155	0	12	0	167	24.7%	5.8%	83,126

^aChanges to privacy laws prevented surveying youth hunters in separate categories, youth hunters were included in corresponding general hunter categories.

Statewide Harvest by Weapon Category

A greater proportion of deer were harvested by centerfire firearms (Table 2) than any other, but compound bows were the next most popular weapon choice. Pistols were the least used method (0.21%) of harvest although shotguns with slugs (0.37%), recurve or longbow (0.62%) and traditional muzzleloaders (0.56%) were also little used. As a group, muzzleloader hunters killed only 3.0% of the overall deer harvest. In 2019-20 archery methods were used to harvest 39.9% of all deer harvested, down from 40.5% in 2018-19. The proportion of the archery harvest by crossbows increased by 5.6%, and accounts for 34.0% of deer harvested by archery methods and 13.6% of the overall deer harvest (Fig.3).

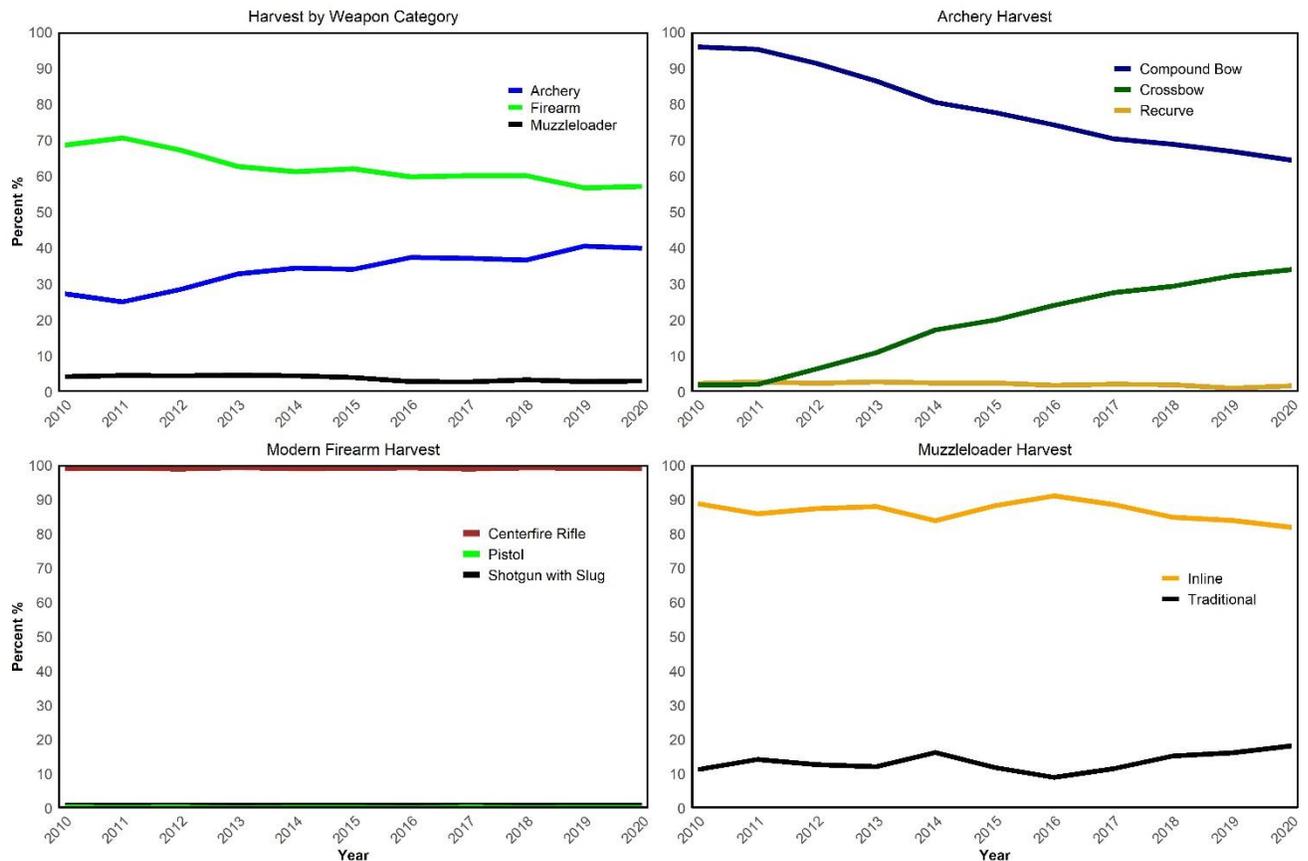


Figure 3. Proportion of harvest by weapon category and proportion of harvest by sub-category within weapon category. The proportion of deer harvest by archery methods has increased while the proportion of harvest by firearms methods has decreased. The proportion of deer harvest by weapon sub-category has remained steady within the weapon categories, except for crossbow and compound bow sub-categories in the archery harvest category.

Table 2. Kansas state-wide deer harvest by weapon type in 2020-2021. Non-resident permit classes are gray shaded. Unfilled permits may be used as a firearm whitetail antlerless permit during January antlerless seasons, thus there may be deer legally harvested with firearms on an archery permit. Totals may not match estimated harvest due to rounding.

Permit Type	Permits Issued	Centerfire Rifle	Shotgun with Slug	Pistol	Inline Muzzleloader	Traditional Muzzleloader	Compound Bow	Recurve Longbow	Crossbow	Total
Any Deer, Gen Res + Youth	1,310	748	0	0	0	0	0	0	7	755
Any Deer, LO/Ten	203	116	0	0	0	0	0	0	0	116
Whitetail Either Sex, Gen Res + Youth	57,094	18,958	161	58	449	81	5,920	138	4,423	30,188
Whitetail Either Sex, LO/Ten	13,535	4,584	0	0	56	45	1,219	23	915	6,842
Muzzleloader, Gen Res + Youth	532	0	0	0	274	27	0	0	0	301
Muzzleloader, LO/Ten	47	0	0	0	18	18	0	0	0	36
HOL	4,950	1,808	0	0	25	0	185	12	344	2,374
STWD Archery, Gen Res + Youth	6,407	122	0	0	0	0	2,024	51	681	2,878
STWD Archery, LO/Ten	1,018	44	0	0	0	0	287	9	78	418
WTAO, Gen Res + Youth	48,366	13,158	139	83	222	102	3,750	194	1,963	19,611
Whitetail Either Sex + Youth, Draw	6,186	3,522	8	0	8	8	0	0	0	3,546
Muzzleloader + Youth, Draw	1,508	30	0	0	639	111	0	0	0	780
Muzzleloader + Youth, ESES	67	0	0	0	33	0	0	0	0	33
HOL	1,772	383	0	0	9	0	187	19	131	729
HOL Special	1,194	368	0	0	11	0	138	11	103	631
HOL NR Tenant	569	159	0	0	0	0	21	0	42	222
Archery + Youth, Draw	13,916	30	0	8	0	0	4,750	53	1,647	6,488
Archery + Youth, ESES	103	0	0	0	0	0	19	9	0	28
WTAO	24,044	2,972	0	26	307	77	2,818	0	948	7,148
Resident	133,462	39,538	300	141	1,044	273	13,385	427	8,411	63,519
Nonresident	49,359	7,464	8	34	1,007	196	7,933	92	2,871	19,605
Total	182,821	47,002	308	175	2,051	469	21,318	519	11,282	83,124

*Changes to privacy laws prevented surveying youth hunters in separate categories, youth hunters were included in corresponding general hunter categories.

Hunter Use and Deer Harvest on Public, Private, and WIHA Properties

Kansas has multiple types of land available for hunters to utilize. Most land in Kansas is under private ownership. A portion of privately-owned land is open to public hunting through the Walk-In Hunting Access Program (WIHA). During the 2019-20 deer season 1,180,000 acres of WIHA was available for public hunting. There were also approximately 390,000 acres of state and federal land, much of which is specifically managed to maximize wildlife resources. The value of these publicly accessible properties to deer hunters in Kansas can be seen by the proportion of the total deer harvest that comes from those properties. Public land makes up 0.74% of land in Kansas, yet 5.84% of the total estimated deer harvest occurs on those properties (Table 3). The proportion of deer harvest on WIHA properties is 3.88%, but WIHA properties account for 2.25% of Kansas. Private property not in WIHA accounts for the remaining 97.01% of land and 90.28% of deer harvest, respectively.

Table 3. Hunter Use and Deer Harvest on Public, Private, and Walk-In Hunting Access Property. Non-resident permit types are grey shaded. The sum of the number of hunters using property types exceeds the total number of hunters as a hunter may use more than one property type. All hunter activity and harvest are accounted for on a hunter's buck permit, thus no whitetail antlerless only permit categories are included.

Permit Type	Number of Hunters			Deer Harvest			Total Deer Harvest
	Private Land	Public Land	Walk-In Hunting Area	Private Land	Public Land	Walk-In Hunting Area	
Any Deer, Gen Res + Youth	926	300	555	575	26	153	755
Any Deer, LO/Ten	176	40	61	102	7	7	116
Whitetail Either Sex, Gen Res + Youth	45,704	10,655	9,119	26,200	2,755	1,232	30,187
Whitetail Either Sex, LO/Ten	11,540	504	546	6,784	22	36	6,842
Muzzleloader, Gen Res + Youth	423	150	314	231	10	60	301
Muzzleloader, LO/Ten	47	0	19	37	0	0	37
HOL	3,921	65	65	2,374	0	0	2,374
STWD Archery, Gen Res + Youth	5,118	1,413	1,566	2,435	285	158	2,878
STWD Archery, LO/Ten	848	39	94	402	11	5	418
WTAO, Gen Res + Youth				17,179	1,684	749	19,612
Whitetail Either Sex + Youth, Draw	4,875	430	790	3,176	135	235	3,546
Muzzleloader + Youth, Draw	1,201	124	186	682	58	40	780
Muzzleloader + Youth, ESES	56	10	20	33	0	0	33
HOL	1,539	34	34	723	0	6	729
HOL Special	998	10	10	632	0	0	632
HOL NR Tenant	442	0	9	222	0	0	222
Archery + Youth, Draw	10,970	1,955	1,991	5,612	629	247	6,488
Archery + Youth, ESES	70	16	55	14	0	14	28
WTAO				6,309	509	330	7,148
Resident	68,703	13,166	12,339	56,319	4,800	2,400	63,520
Nonresident	20,151	2,579	3,095	17,403	1,331	872	19,606
Total	88,854	15,745	15,434	73,722	6,131	3,272	83,126

^aChanges to privacy laws prevented surveying youth hunters in separate categories, youth hunters were included in corresponding general hunter categories.

Hunter Participation by Season

During the 2020-21 deer seasons, only the muzzleloader and archery seasons had a greater than expected proportion of participation by non-residents. Of the three major seasons (muzzleloader, archery, firearms), firearms season has the greatest proportion of participation by Kansas residents at 87.6%. Seasons that limited harvest to antlerless deer, are proportionally more heavily participated in by residents. While most antlerless seasons are specific to deer management units and occur after seasons allowing antlered deer harvest; the proportion of participation in the Pre-rut season, which is available statewide, was 99.3% Kansas resident and only 0.7% non-resident. The same applies to seasons that limit participation to a specific segment of the hunter population like the designated persons season (Youth/Disabled Season) at 91.8% resident participation. A slightly greater than expected proportion of residents indicated that they did not participate in any season and did not hunt at all.

Table 4. Number of hunters participating in a season. Non-resident permit classes are grey shaded. Totals may exceed permits issued as hunters may participate in multiple seasons with the appropriate permit(s). All seasonal participation is included in a hunter's buck permit classification.

Permit Type	Permits Issued	Youth	Muzzleloader	Archery	Pre-rut	Firearm	Short Antlerless	Mid Antlerless	Long Antlerless	Extended Archery	Did Not Hunt
Any Deer, Gen Res + Youth	1,310	35	35	111	49	1,200	35	132	21	0	97
Any Deer, LO/Ten	203	0	0	0	0	188	0	7	0	0	15
Whitetail Either Sex, Gen Res + Youth	57,094	1,518	3,534	28,871	3,364	40,718	4,768	7,385	3,681	883	2,399
Whitetail Either Sex, LO/Ten	13,535	123	614	6,316	402	9,596	881	1,406	681	89	893
Muzzleloader, Gen Res + Youth	532	14	327	27	14	382	41	41	0	0	0
Muzzleloader, LO/Ten	47	0	28	0	0	28	0	19	0	0	0
HOL	4,950	85	243	1,533	73	3,529	195	292	207	24	520
STWD Archery, Gen Res + Youth	6,407	80	80	6,139	100	747	289	448	159	159	248
STWD Archery, LO/Ten	1,018	9	17	924	26	60	43	78	26	17	76
Whitetail Either Sex, Draw + Youth	6,186	61	8	76	8	5,622	38	15	8	0	457
Muzzleloader, Draw + Youth	1,508	29	1,255	22	7	368	7	29	0	0	65
Muzzleloader + Youth, ESES	67	0	33	0	0	45	0	0	0	0	6
HOL	1,772	18	201	1,079	0	1,006	18	37	37	9	98
HOL Special	1,194	11	57	591	0	603	23	34	34	0	102
HOL NR Tenant	569	10	31	269	0	269	10	21	21	0	62
Archery, Draw + Youth	13,916	37	59	13,246	15	52	0	66	30	44	574
Archery + Youth, ESES	103	0	0	94	0	9	0	0	0	0	9
Resident	85,096	1,864	4,878	43,921	4,028	56,448	6,252	9,808	4,775	1,172	4,248
Nonresident	25,315	166	1,644	15,377	30	7,974	96	202	130	53	1,373
Total	110,411	2,030	6,522	59,298	4,058	64,422	6,348	10,010	4,905	1,225	5,621

^aChanges to privacy laws prevented surveying youth hunters in separate categories, youth hunters were included in corresponding general hunter categories.

Hunter Days Afield

During the 2020-21 deer seasons hunters in Kansas spent over 1.26 million days hunting deer (Table 5). Not including antlerless permits, residents averaged 12.7 days hunted per permit purchased, while non-residents averaged 7.5 days hunted per permit purchased. General resident and youth hunters who held a statewide archery permit hunted the second most days per permit at an average 16.9 days, behind resident landowner/tenants holding a statewide archery permit hunted second most averaging 17.0 days per permit. Resident landowner/tenants hunted the fewest average days per permit at 4.0 days with a Muzzleloader permit. Among non-residents the most days hunted were by hunters using a Hunt-Own-Land permit or Archery permit at an average of 8.9 days per permit, while non-residents with a whitetail either sex permit hunted on average of only 4.8 days per permit.

Table 5. Hunter Days Afield by Season. Non-resident permit classes are gray shaded. All hunter activity in days afield are included on a hunter's buck permit classification, including whitetail antlerless only permits, thus a hunter with a muzzleloader permit may hunt during archery season, with archery equipment for antlerless whitetail deer if they held an antlerless whitetail deer permit.

Permit Type	Permits Issued	Youth	Muzzleloader	Archery	Pre-rut	Firearm	Short Antlerless	Mid Antlerless	Long Antlerless	Extended Archery	Total
Any Deer, Gen Res + Youth	1,310	98	189	1,332	63	5,050	98	424	98	0	7,352
Any Deer, LO/Ten	203	0	0	0	0	933	0	21	0	0	954
Whitetail Either Sex, Gen Res + Youth	57,094	4,724	13,490	481,735	6,026	175,943	13,828	24,636	17,680	2,434	740,496
Whitetail Either Sex, LO/Ten	13,535	347	2,311	99,829	726	44,722	2,476	5,501	3,171	289	159,372
Muzzleloader, Gen Res + Youth	532	126	1,417	189	14	1,637	109	96	0	0	3,588
Muzzleloader, LO/Ten	47	0	75	0	0	84	0	28	0	0	187
HOL	4,950	182	790	20,744	146	14,603	488	1,253	1,059	48	39,313
STWD Archery, Gen Res + Youth	6,407	290	380	102,499	120	2,331	767	1,065	527	427	108,406
STWD Archery, LO/Ten	1,018	63	34	16,563	52	189	95	251	69	26	17,342
Whitetail Either Sex, Draw + Youth	6,186	282	40	486	16	28,369	152	30	56	0	29,431
Muzzleloader, Draw + Youth	1,508	80	6,506	95	21	1,862	7	80	0	0	8,651
Muzzleloader + Youth, ESES	67	0	104	0	0	321	0	0	0	0	425
HOL	1,772	45	822	10,177	0	4,490	27	46	83	18	15,708
HOL Special	1,194	99	171	5,819	0	2,401	46	125	68	0	8,729
HOL NR Tenant	569	10	124	2,390	0	1,024	20	52	52	0	3,672
Archery, Draw + Youth	13,916	133	251	122,070	30	230	0	183	105	183	123,185
Archery + Youth, ESES	103	0	0	658	0	27	0	0	0	0	685
Resident	85,096	5,830	18,686	722,891	7,147	245,492	17,861	33,275	22,604	3,224	1,077,010
Nonresident	25,315	649	8,018	141,695	67	38,724	252	516	364	201	190,486
Total	110,411	6,479	26,704	864,586	7,214	284,216	18,113	33,791	22,968	3,425	1,267,496

^aChanges to privacy laws prevented surveying youth hunters in separate categories, youth hunters were included in corresponding general hunter categories.

Date of Harvest

Deer Harvested by Date

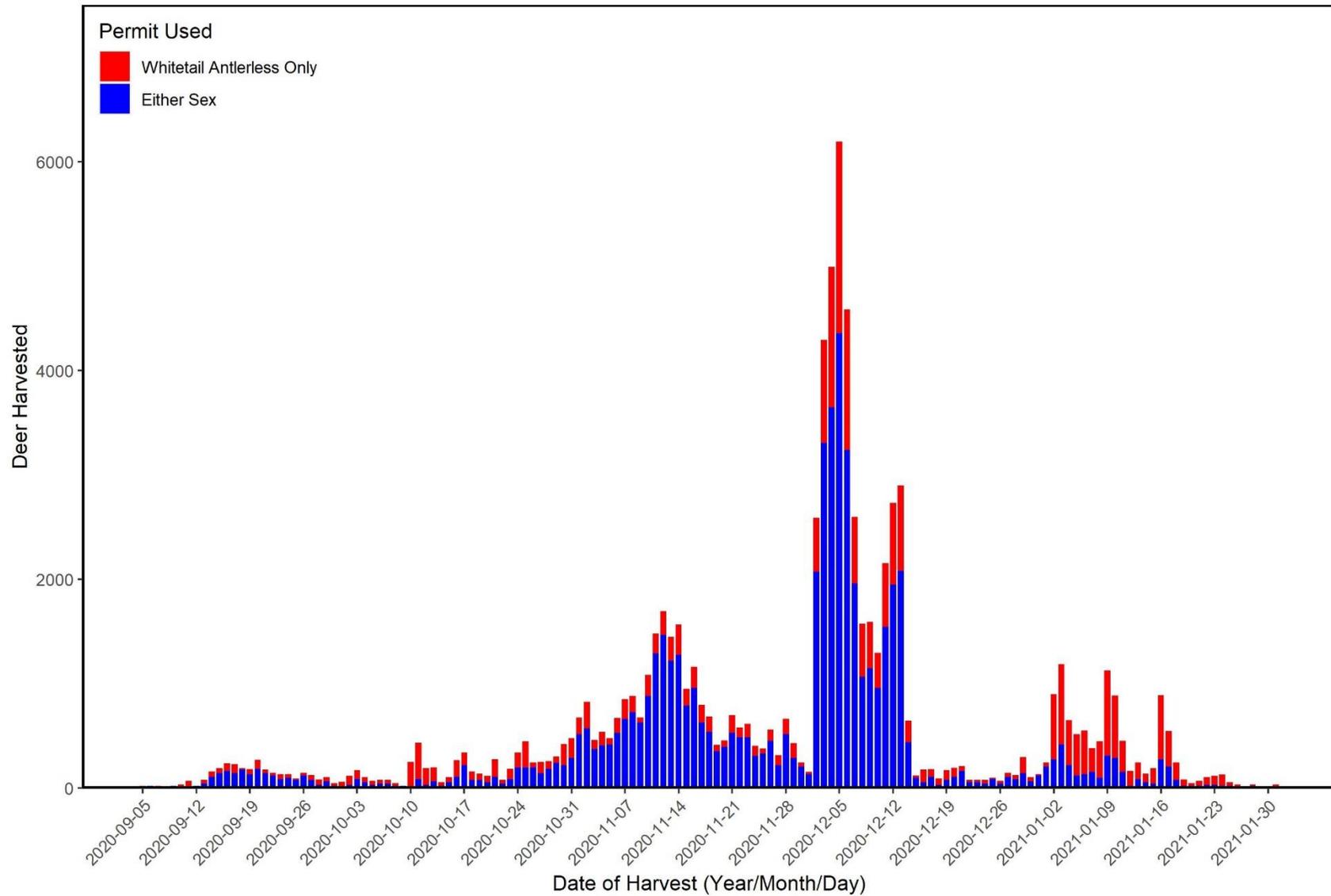


Figure 4. Deer Harvest by Date. Harvest is split by permit type used as either the Either Sex permit (Buck permit) and Whitetail antlerless only permit. Dates (in Year/Month/Day format) labeled on the x-axis are Saturdays during the 2020-21 season. More deer (21.5%) were harvested on Saturdays than any other day of the week, while Tuesdays have the least amount of harvest (8.25%). January antlerless seasons accounted for 12.2% of the deer harvest, the 12-day firearms season for 45.3%, and only 1.0% occurred during the 3-day October pre-rut antlerless season.

Hunter Satisfaction

Satisfaction of Kansas deer hunters was largely tied to whether they harvested a deer (Table 6). A greater number of hunters that harvested a deer also completed the satisfaction portion of the survey. In general, hunters harvesting a deer displayed greater satisfaction rates than those that did not. Non-residents were also likely to display greater satisfaction than residents.

Table 6. Hunter Satisfaction by Residency for 2020-2021 Deer Season. Harvesting a deer is closely tied to hunter satisfaction.

Residency	Did they harvest a deer this season?	Hunters Completing Satisfaction Question	Percent (%) Extremely Dissatisfied	Percent (%) Dissatisfied	Percent (%) Mildly Dissatisfied	Percent (%) Neutral	Percent (%) Mildly Satisfied	Percent (%) Satisfied	Percent (%) Extremely Satisfied	Percent (%) Dissatisfied Total	Percent (%) Satisfied Total
Resident	No	2779	6.66	7.16	9.90	20.76	12.92	27.31	15.29	23.7	55.5
Resident	Yes	4207	1.40	1.88	2.61	4.54	8.30	36.80	44.47	5.9	89.6
Non-resident	No	1342	3.28	3.35	5.29	8.57	11.40	33.31	34.80	11.9	79.5
Non-resident	Yes	1628	0.49	0.37	1.11	1.66	4.05	26.60	65.72	2.0	96.4

Total percentages may be slightly under or over 100% due to rounding.

Special Section

Wounding Loss and Tracking Dog Use

As part of the 2020-21 Kansas Deer Harvest Survey, we asked hunters to report the number of deer they hit but did not recover, the number of times they utilized tracking dogs to pursue wounded deer and how many deer they recovered that they would not have found without utilizing a tracking dog. Some wounded deer may recover from being wounded by hunters and hunters may have reported some deer they shot at as wounded although the deer may not actually have been wounded, further confounding this would be deer that were not reported as wounded but actually were wounded which could not be estimated with this data. Since it is impossible to know how many deer were inaccurately reported, or not reported, as wounded or survived and recovered, the estimates reported here do not necessarily mean that all deer reported as wounded were removed from the population.

Estimates indicate that a substantial number of deer are wounded by hunters but not recovered (Fig. 7) and adding the total wounding loss to the total harvest would increase the total harvest by 10.5%. Total white-tailed deer wounding loss equates to 10.6% of the overall white-tailed deer harvest, while wounding loss only equates to 7.6% of the total harvest for mule deer. There may be multiple possible reasons that wounding loss may be substantial and greater for some age and sex classes of deer, but here these are no more than speculation as we did not attempt to collect data to verify them. While hunters generally take ethical shots, conditions while hunting can lower the probability of a successful shot, and hunters may risk taking shot opportunities with lower probabilities of success at deer they place higher value on such as adult bucks. We note also that hunters with less experience of hunting or shooting may be less successful with shot placement or in finding deer they have hit and conditions during the 2020-21 season with more people utilizing the outdoors due to SARS-CoV-2 (COVID-19) may have increased the number of less experienced hunters afield. Since hunters were asked about deer they hit but did not recover, deer they value less may have been reported at lesser rates if hunters expended less effort confirming a hit compared to higher value deer (e.g. search less for a fawn versus more for an adult buck).

White-tailed deer adult buck wounding loss equates to 12.6% of the total white-tailed deer adult buck harvest. Adult bucks also make up 62.6% of the white-tailed deer estimated wounding loss but only 52.6% of the actual white-tailed deer harvest. All other ages and sex classes of white-tailed deer made up a lower proportion of wounding loss than the equivalent age and sex class proportion of the total harvest. Mule deer wounding loss equates to a lower proportion (7.6%) of mule deer harvest than in white-tailed deer. Sample sizes for mule deer wounding loss were small and the resulting estimates have wide confidence intervals. Still wounding loss may have a greater impact on mule deer which tend to occur at low densities and have lower fecundity rates than white-tailed deer in Kansas. The adult antlerless mule deer wounding loss estimate equates to 21.9% of the adult antlerless mule deer harvest and 25% of the wounding loss in mule deer, while adult antlerless mule deer only make up 8.7% of mule deer harvest.

Wounding loss of deer might have been greater in Kansas but tracking dog use may have mitigated the potential loss by up to 27%. We estimated that hunters utilized tracking dogs in 4,561 (95% CI: 3,963 – 5,160) searches in Kansas during the 2020-21 season and that estimates from hunter reports indicated that 3,227 deer (95% CI: 2,850 – 3,604) would not have been found without a tracking dog. When hunters utilized tracking dogs, they successfully recovered a deer 70.8% of the time. Hunters are strongly encouraged to utilize a tracking dog if their initial search for a deer is unsuccessful.

Wounding loss can be more accurately included in deer management with these estimated rates. While the estimated wounding loss of deer in this analysis may not equate to the same number of deer removed from the deer herd, conservatively using it as the rate of deer lost from the population will allow more precision when assessing the effects of hunting on deer populations in Kansas. Tracking dogs also play an important role in recovering deer in Kansas which reduces wounding loss impacts; therefore, hunters are recommended to utilize them and support trainers that develop tracking dogs.

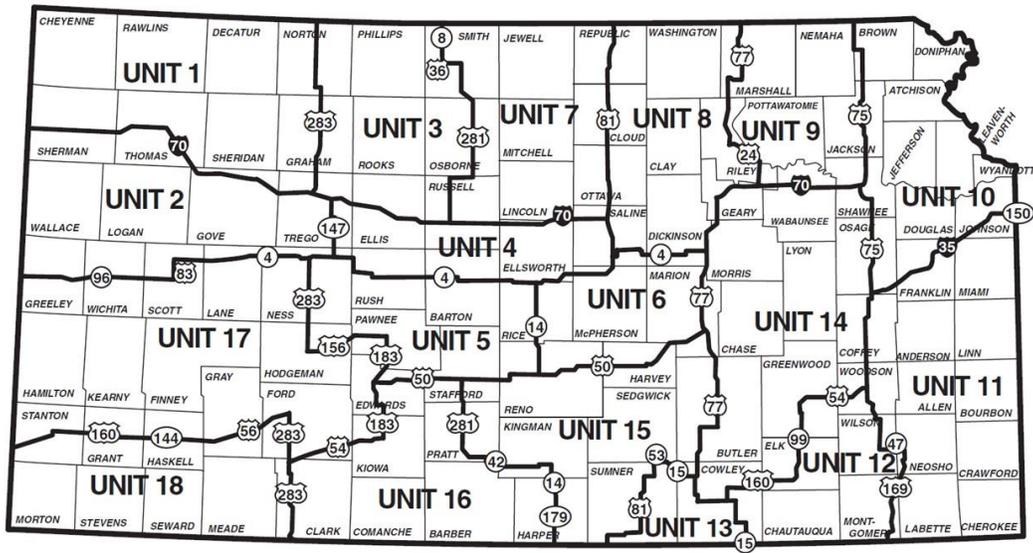
Table 7. Estimated wounding loss of deer in Kansas during the 2020-21 deer season.

Age/Sex Class	White-tailed Deer		Mule Deer	Mule Deer
	White-tailed Deer	95% CI		95% CI
Adult Bucks	5,378	4,925 - 5,831	101	35 - 167
Adult Antlerless	3,110	2,768 - 3,451	34	0 - 72
Fawn	12	0 - 28	0	NA
Unknown	89	31 - 148	0	NA

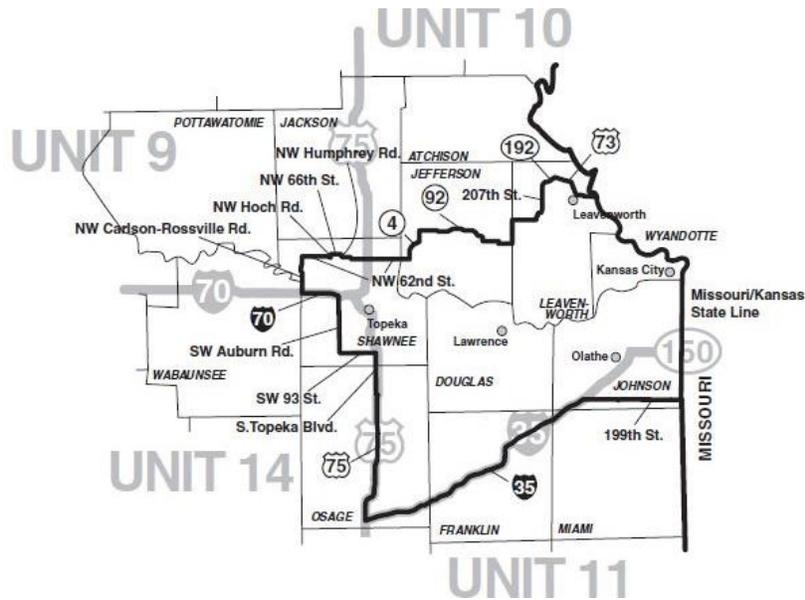
Appendix 1. KS Deer Harvest by Species, Sex, and Age for Each Deer Management Unit

The total estimated deer harvested across all deer management units may not match the statewide estimated total harvest due to rounding. Surveying youth hunters was prevented by changes to privacy laws, youth permits are included with the general permits of the same type.

Deer Management Units 01 - 18 Map



Deer Management Unit 19 Map



Deer Management Unit 01

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	73	0	0	0	0	367	64	0	0	0	504
Any Deer, LO/Ten	10	0	0	0	0	64	0	0	0	0	74
Whitetail Either Sex, Gen Res + Youth	176	72	0	0	10	0	9	0	0	0	267
Whitetail Either Sex, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, Gen Res + Youth	0	10	0	0	0	73	0	0	0	0	83
Muzzleloader, LO/Ten	10	0	0	0	0	0	0	0	0	0	10
HOL	31	10	0	0	0	83	37	0	0	0	161
STWD Archery, Gen Res + Youth	104	41	0	0	0	119	0	0	0	0	264
STWD Archery, LO/Ten	0	10	0	0	0	28	0	0	0	0	38
WTAO, Gen Res + Youth	0	298	0	22	11	0	0	0	0	0	331
Whitetail Either Sex + Youth, Draw	176	0	0	0	0	0	0	0	0	0	176
Muzzleloader + Youth, Draw	41	10	0	0	0	0	0	0	0	0	51
Muzzleloader + Youth, ESES	0	0	0	0	0	28	0	0	0	0	28
HOL	0	0	0	0	0	18	9	0	0	0	27
HOL Special	10	10	0	0	0	28	0	0	0	0	48
HOL NR Tenant	10	0	0	0	0	0	0	0	0	0	10
Archery + Youth, Draw	218	10	0	0	0	0	0	0	0	0	228
Archery + Youth, ESES	0	0	0	0	0	18	0	0	0	0	18
WTAO	0	133	0	0	0	0	0	0	0	0	133
Resident	404	441	0	22	21	734	110	0	0	0	1732
Nonresident	455	163	0	0	0	92	9	0	0	0	719
Total	859	604	0	22	21	826	119	0	0	0	2451

Deer Management Unit 02

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	31	0	0	0	0	147	0	0	0	0	178
Any Deer, LO/Ten	21	0	0	0	0	9	9	0	0	0	39
Whitetail Either Sex, Gen Res + Youth	280	21	0	0	0	0	0	0	0	0	301
Whitetail Either Sex, LO/Ten	41	0	0	0	0	0	0	0	0	0	41
Muzzleloader, Gen Res + Youth	0	0	0	0	0	37	0	0	0	0	37
Muzzleloader, LO/Ten	10	0	0	0	0	0	0	0	0	0	10
HOL	10	0	0	0	0	18	0	0	0	0	28
STWD Archery, Gen Res + Youth	83	21	0	0	0	92	0	0	0	0	196
STWD Archery, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
WTAO, Gen Res + Youth	0	243	0	11	22	0	0	0	0	0	276
Whitetail Either Sex + Youth, Draw	186	10	0	0	0	0	0	0	0	0	196
Muzzleloader + Youth, Draw	21	0	0	0	0	0	0	0	0	0	21
Muzzleloader + Youth, ESES	0	0	0	0	0	9	0	0	0	0	9
HOL	0	0	0	0	0	18	0	0	0	0	18
HOL Special	21	10	0	0	0	18	0	0	0	0	49
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	83	10	0	0	0	0	0	0	0	0	93
Archery + Youth, ESES	0	0	0	0	0	9	0	0	0	0	9
WTAO	0	44	0	11	0	0	0	0	0	0	55
Resident	476	285	0	11	22	303	9	0	0	0	1106
Nonresident	311	74	0	11	0	54	0	0	0	0	450
Total	787	359	0	22	22	357	9	0	0	0	1556

Deer Management Unit 03

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	10	10	0	0	0	0	0	0	0	0	20
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	466	114	0	31	0	0	0	0	0	0	611
Whitetail Either Sex, LO/Ten	93	41	0	0	0	0	0	0	0	0	134
Muzzleloader, Gen Res + Youth	0	0	0	0	0	9	0	0	0	0	9
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	52	0	0	0	0	0	0	0	0	0	52
STWD Archery, Gen Res + Youth	72	0	10	0	0	9	0	0	0	0	91
STWD Archery, LO/Ten	21	10	0	0	0	0	0	0	0	0	31
WTAO, Gen Res + Youth	0	561	0	11	0	0	0	0	0	0	572
Whitetail Either Sex + Youth, Draw	300	41	0	0	0	0	0	0	0	0	341
Muzzleloader + Youth, Draw	31	10	0	0	0	0	0	0	0	0	41
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	31	10	0	0	0	0	0	0	0	0	41
HOL Special	31	10	0	0	0	0	0	0	0	0	41
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	528	21	0	0	10	0	0	0	0	0	559
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	101	11	0	11	0	0	0	0	0	123
Resident	714	736	10	42	0	18	0	0	0	0	1520
Nonresident	921	193	11	0	21	0	0	0	0	0	1146
Total	1635	929	21	42	21	18	0	0	0	0	2666

Deer Management Unit 05

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	600	228	0	62	0	0	0	0	0	0	890
Whitetail Either Sex, LO/Ten	72	41	0	0	0	0	0	0	0	0	113
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	83	10	0	0	0	0	0	0	0	0	93
STWD Archery, Gen Res + Youth	72	10	0	0	0	0	0	0	0	0	82
STWD Archery, LO/Ten	21	0	0	0	0	0	0	0	0	0	21
WTAO, Gen Res + Youth	0	850	0	44	22	0	0	0	0	0	916
Whitetail Either Sex + Youth, Draw	217	0	0	0	0	0	0	0	0	0	217
Muzzleloader + Youth, Draw	31	10	0	0	0	0	0	0	0	0	41
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	21	10	0	0	0	0	0	0	0	0	31
HOL Special	0	0	0	0	0	0	0	0	0	0	0
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	290	41	0	0	0	0	0	0	0	0	331
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	166	0	11	0	0	0	0	0	0	177
Resident	848	1139	0	106	22	0	0	0	0	0	2115
Nonresident	559	227	0	11	0	0	0	0	0	0	797
Total	1407	1366	0	117	22	0	0	0	0	0	2912

Deer Management Unit 06

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	942	331	0	83	0	0	0	0	0	0	1356
Whitetail Either Sex, LO/Ten	197	52	0	10	0	0	0	0	0	0	259
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	104	31	0	0	0	0	0	0	0	0	135
STWD Archery, Gen Res + Youth	93	0	0	0	0	0	0	0	0	0	93
STWD Archery, LO/Ten	10	0	0	0	0	0	0	0	0	0	10
WTAO, Gen Res + Youth	0	671	11	89	11	0	0	0	0	0	782
Whitetail Either Sex + Youth, Draw	72	0	0	10	0	0	0	0	0	0	82
Muzzleloader + Youth, Draw	31	0	0	0	0	0	0	0	0	0	31
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	10	0	0	0	0	0	0	0	0	0	10
HOL Special	21	0	0	0	0	0	0	0	0	0	21
HOL NR Tenant	10	0	0	0	0	0	0	0	0	0	10
Archery + Youth, Draw	176	0	0	0	0	0	0	0	0	0	176
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	67	0	0	0	0	0	0	0	0	67
Resident	1346	1085	11	182	11	0	0	0	0	0	2635
Nonresident	320	67	0	10	0	0	0	0	0	0	397
Total	1666	1152	11	192	11	0	0	0	0	0	3032

Deer Management Unit 07

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	973	383	0	42	0	0	0	0	0	0	1398
Whitetail Either Sex, LO/Ten	290	73	0	31	0	0	0	0	0	0	394
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	10	0	0	0	0	0	0	0	10
HOL	31	10	0	0	0	0	0	0	0	0	41
STWD Archery, Gen Res + Youth	72	31	0	0	0	0	0	0	0	0	103
STWD Archery, LO/Ten	21	0	0	0	0	0	0	0	0	0	21
WTAO, Gen Res + Youth	0	1120	11	112	78	0	0	0	0	0	1321
Whitetail Either Sex + Youth, Draw	321	21	0	0	0	0	0	0	0	0	342
Muzzleloader + Youth, Draw	52	10	0	10	0	0	0	0	0	0	72
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	21	0	0	0	0	0	0	0	0	0	21
HOL Special	10	0	0	0	0	0	0	0	0	0	10
HOL NR Tenant	10	0	0	0	0	0	0	0	0	0	10
Archery + Youth, Draw	621	41	0	0	0	0	0	0	0	0	662
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	224	11	11	0	0	0	0	0	0	246
Resident	1387	1617	21	185	78	0	0	0	0	0	3288
Nonresident	1035	296	11	21	0	0	0	0	0	0	1363
Total	2422	1913	32	206	78	0	0	0	0	0	4651

Deer Management Unit 08

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	1678	228	0	31	41	0	0	0	0	0	1978
Whitetail Either Sex, LO/Ten	321	145	10	0	0	0	0	0	0	0	476
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	93	31	0	0	0	0	0	0	0	0	124
STWD Archery, Gen Res + Youth	104	10	0	0	0	0	0	0	0	0	114
STWD Archery, LO/Ten	21	0	0	0	0	0	0	0	0	0	21
WTAO, Gen Res + Youth	0	826	11	56	67	0	0	0	0	0	960
Whitetail Either Sex + Youth, Draw	145	10	0	0	0	0	0	0	0	0	155
Muzzleloader + Youth, Draw	114	0	0	0	0	0	0	0	0	0	114
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	21	0	0	0	0	0	0	0	0	0	21
HOL Special	31	10	0	0	0	0	0	0	0	0	41
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	580	10	0	0	0	0	0	0	0	0	590
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	100	0	0	0	0	0	0	0	0	100
Resident	2217	1240	21	87	108	0	0	0	0	0	3673
Nonresident	891	130	0	0	0	0	0	0	0	0	1021
Total	3108	1370	21	87	108	0	0	0	0	0	4694

Deer Management Unit 09

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	1077	424	21	31	10	0	0	0	0	0	1563
Whitetail Either Sex, LO/Ten	331	31	0	0	0	0	0	0	0	0	362
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	93	21	0	0	0	0	0	0	0	0	114
STWD Archery, Gen Res + Youth	114	31	0	0	0	0	0	0	0	0	145
STWD Archery, LO/Ten	10	0	0	0	0	0	0	0	0	0	10
WTAO, Gen Res + Youth	0	649	22	34	22	0	0	0	0	0	727
Whitetail Either Sex + Youth, Draw	155	0	0	0	0	0	0	0	0	0	155
Muzzleloader + Youth, Draw	31	0	0	0	0	0	0	0	0	0	31
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	31	0	0	0	0	0	0	0	0	0	31
HOL Special	31	0	0	0	0	0	0	0	0	0	31
HOL NR Tenant	10	0	0	0	0	0	0	0	0	0	10
Archery + Youth, Draw	342	0	10	0	0	0	0	0	0	0	352
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	45	0	0	0	0	0	0	0	0	45
Resident	1625	1156	43	65	32	0	0	0	0	0	2921
Nonresident	600	45	10	0	0	0	0	0	0	0	655
Total	2225	1201	53	65	32	0	0	0	0	0	3576

Deer Management Unit 10

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	2744	901	0	166	0	0	0	0	0	0	3811
Whitetail Either Sex, LO/Ten	632	155	0	0	21	0	0	0	0	0	808
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	155	41	0	10	0	0	0	0	0	0	206
STWD Archery, Gen Res + Youth	311	83	10	21	0	0	0	0	0	0	425
STWD Archery, LO/Ten	21	21	0	0	0	0	0	0	0	0	42
WTAO, Gen Res + Youth	0	869	11	79	23	0	0	0	0	0	982
Whitetail Either Sex + Youth, Draw	135	10	0	0	0	0	0	0	0	0	145
Muzzleloader + Youth, Draw	21	31	0	0	0	0	0	0	0	0	52
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	21	0	0	0	0	0	0	0	0	0	21
HOL Special	41	0	0	0	0	0	0	0	0	0	41
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	373	21	0	0	0	0	0	0	0	0	394
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	45	0	0	11	0	0	0	0	0	56
Resident	3863	2070	21	276	44	0	0	0	0	0	6274
Nonresident	591	107	0	0	11	0	0	0	0	0	709
Total	4454	2177	21	276	55	0	0	0	0	0	6983

Deer Management Unit 12

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	21	0	0	0	0	0	0	0	0	0	21
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	1087	300	0	10	0	0	0	0	0	0	1397
Whitetail Either Sex, LO/Ten	362	114	0	31	0	0	0	0	0	0	507
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	93	10	0	0	10	0	0	0	0	0	113
STWD Archery, Gen Res + Youth	52	21	0	0	0	0	0	0	0	0	73
STWD Archery, LO/Ten	31	0	0	0	0	0	0	0	0	0	31
WTAO, Gen Res + Youth	0	1818	33	89	100	0	0	0	0	0	2040
Whitetail Either Sex + Youth, Draw	487	31	0	10	10	0	0	0	0	0	538
Muzzleloader + Youth, Draw	104	21	0	0	0	0	0	0	0	0	125
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	114	52	0	0	0	0	0	0	0	0	166
HOL Special	52	0	0	0	0	0	0	0	0	0	52
HOL NR Tenant	31	10	0	0	0	0	0	0	0	0	41
Archery + Youth, Draw	746	73	0	0	0	0	0	0	0	0	819
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	477	11	11	0	0	0	0	0	0	499
Resident	1646	2263	33	130	110	0	0	0	0	0	4182
Nonresident	1534	664	11	21	10	0	0	0	0	0	2240
Total	3180	2927	44	151	120	0	0	0	0	0	6422

Deer Management Unit 13

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	466	228	0	21	0	0	0	0	0	0	715
Whitetail Either Sex, LO/Ten	41	0	0	0	0	0	0	0	0	0	41
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	21	10	0	0	0	0	0	0	0	0	31
STWD Archery, Gen Res + Youth	41	0	0	0	0	0	0	0	0	0	41
STWD Archery, LO/Ten	10	0	0	0	0	0	0	0	0	0	10
WTAO, Gen Res + Youth	0	649	34	78	22	0	0	0	0	0	783
Whitetail Either Sex + Youth, Draw	124	10	0	0	0	0	0	0	0	0	134
Muzzleloader + Youth, Draw	10	0	0	0	0	0	0	0	0	0	10
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	0	0	0	0	0	0	0	0	0	0	0
HOL Special	0	0	0	0	0	0	0	0	0	0	0
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	114	0	0	0	0	0	0	0	0	0	114
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	78	0	0	0	0	0	0	0	0	78
Resident	579	887	34	99	22	0	0	0	0	0	1621
Nonresident	248	88	0	0	0	0	0	0	0	0	336
Total	827	975	34	99	22	0	0	0	0	0	1957

Deer Management Unit 14

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	2330	746	10	114	62	0	0	0	0	0	3262
Whitetail Either Sex, LO/Ten	518	124	0	31	0	0	0	0	0	0	673
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	104	10	0	0	0	0	0	0	0	0	114
STWD Archery, Gen Res + Youth	269	41	0	0	0	0	0	0	0	0	310
STWD Archery, LO/Ten	41	0	0	0	0	0	0	0	0	0	41
WTAO, Gen Res + Youth	0	2875	89	189	112	0	0	0	0	0	3265
Whitetail Either Sex + Youth, Draw	549	41	0	0	0	0	0	0	0	0	590
Muzzleloader + Youth, Draw	83	10	0	0	0	0	0	0	0	0	93
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	83	0	0	0	0	0	0	0	0	0	83
HOL Special	41	0	0	0	0	0	0	0	0	0	41
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	1025	72	0	0	0	0	0	0	0	0	1097
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	256	11	0	11	0	0	0	0	0	278
Resident	3262	3796	99	334	174	0	0	0	0	0	7665
Nonresident	1781	379	11	0	11	0	0	0	0	0	2182
Total	5043	4175	110	334	185	0	0	0	0	0	9847

Deer Management Unit 15

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	1646	704	10	52	10	0	0	0	0	0	2422
Whitetail Either Sex, LO/Ten	393	197	0	10	0	0	0	0	0	0	600
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	52	41	0	10	0	0	0	0	0	0	103
STWD Archery, Gen Res + Youth	166	31	0	0	0	0	0	0	0	0	197
STWD Archery, LO/Ten	21	0	0	0	0	0	0	0	0	0	21
WTAO, Gen Res + Youth	0	1927	78	123	34	0	0	0	0	0	2162
Whitetail Either Sex + Youth, Draw	248	10	0	10	0	0	0	0	0	0	268
Muzzleloader + Youth, Draw	104	0	0	0	0	0	0	0	0	0	104
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	41	0	0	0	0	9	0	0	0	0	50
HOL Special	31	0	0	0	0	0	0	0	0	0	31
HOL NR Tenant	10	0	0	0	0	0	0	0	0	0	10
Archery + Youth, Draw	476	31	0	0	0	0	0	0	0	0	507
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	134	0	0	0	0	0	0	0	0	134
Resident	2278	2900	88	195	44	0	0	0	0	0	5505
Nonresident	910	175	0	10	0	9	0	0	0	0	1104
Total	3188	3075	88	205	44	9	0	0	0	0	6609

Deer Management Unit 16

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	9	0	0	0	0	9
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	580	135	0	0	10	0	0	0	0	0	725
Whitetail Either Sex, LO/Ten	197	62	0	0	0	0	0	0	0	0	259
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	31	21	0	10	0	0	0	0	0	0	62
STWD Archery, Gen Res + Youth	62	0	0	10	0	0	0	0	0	0	72
STWD Archery, LO/Ten	10	10	0	0	0	0	0	0	0	0	20
WTAO, Gen Res + Youth	0	585	0	11	22	0	0	0	0	0	618
Whitetail Either Sex + Youth, Draw	342	10	0	0	0	0	0	0	0	0	352
Muzzleloader + Youth, Draw	83	0	0	0	0	0	0	0	0	0	83
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	10	10	0	0	0	0	0	0	0	0	20
HOL Special	21	0	0	0	0	0	0	0	0	0	21
HOL NR Tenant	52	0	0	0	0	0	0	0	0	0	52
Archery + Youth, Draw	725	31	0	0	0	0	0	0	0	0	756
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	155	22	0	0	0	0	0	0	0	177
Resident	880	813	0	31	32	9	0	0	0	0	1765
Nonresident	1233	206	22	0	0	0	0	0	0	0	1461
Total	2113	1019	22	31	32	9	0	0	0	0	3226

Deer Management Unit 17

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	93	10	10	0	0	92	19	0	0	0	224
Any Deer, LO/Ten	0	0	0	0	0	18	0	0	0	0	18
Whitetail Either Sex, Gen Res + Youth	352	145	10	0	0	9	0	0	0	0	516
Whitetail Either Sex, LO/Ten	93	10	0	0	0	0	0	0	0	0	103
Muzzleloader, Gen Res + Youth	0	0	0	0	0	28	9	0	0	0	37
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	52	10	0	0	0	28	0	0	9	0	99
STWD Archery, Gen Res + Youth	83	0	0	0	0	92	0	0	0	0	175
STWD Archery, LO/Ten	31	21	0	0	0	0	0	0	0	0	52
WTAO, Gen Res + Youth	0	221	0	11	0	0	0	0	0	0	232
Whitetail Either Sex + Youth, Draw	228	21	0	0	0	0	0	0	0	0	249
Muzzleloader + Youth, Draw	52	0	0	0	0	0	0	0	0	0	52
Muzzleloader + Youth, ESES	0	0	0	0	0	18	0	0	0	0	18
HOL	21	0	0	0	0	9	0	0	0	0	30
HOL Special	21	0	0	0	0	0	0	0	0	0	21
HOL NR Tenant	31	10	10	0	0	0	0	0	0	0	51
Archery + Youth, Draw	145	0	0	0	0	0	0	0	0	0	145
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	121	11	0	0	0	0	0	0	0	132
Resident	704	417	20	11	0	267	28	0	9	0	1456
Nonresident	498	152	21	0	0	27	0	0	0	0	698
Total	1202	569	41	11	0	294	28	0	9	0	2154

Deer Management Unit 18

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	21	0	0	0	0	28	0	0	0	0	49
Any Deer, LO/Ten	10	0	0	0	0	9	0	0	0	0	19
Whitetail Either Sex, Gen Res + Youth	83	21	0	0	0	0	0	0	0	0	104
Whitetail Either Sex, LO/Ten	62	0	0	0	0	0	0	0	0	0	62
Muzzleloader, Gen Res + Youth	10	0	0	0	0	28	0	0	0	0	38
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	10	0	0	0	0	28	0	0	0	0	38
STWD Archery, Gen Res + Youth	41	10	0	0	0	0	0	0	0	0	51
STWD Archery, LO/Ten	10	0	0	0	0	0	0	0	0	0	10
WTAO, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex + Youth, Draw	52	0	0	0	0	0	0	0	0	0	52
Muzzleloader + Youth, Draw	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	10	0	0	0	0	0	0	0	0	0	10
HOL Special	10	0	0	0	0	0	0	0	0	0	10
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	41	0	0	0	0	0	0	0	0	0	41
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	0	0	0	0	0	0	0	0	0	0
Resident	247	31	0	0	0	93	0	0	0	0	371
Nonresident	113	0	0	0	0	0	0	0	0	0	113
Total	360	31	0	0	0	93	0	0	0	0	484

Deer Management Unit 19^a

Permit Type	Whitetail					Mule Deer					Total Harvest
	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	Antlered Buck	Adult Doe	Shed Buck	Male Fawn	Female Fawn	
Any Deer, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	0	0	0	0	0	0	0	0	0	0	0
STWD Archery, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
STWD Archery, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
WTAO, Gen Res + Youth	0	1787	44	78	89	0	0	0	0	0	1998
Whitetail Either Sex + Youth, Draw	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader + Youth, Draw	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	0	0	0	0	0	0	0	0	0	0	0
HOL Special	0	0	0	0	0	0	0	0	0	0	0
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, Draw	0	0	0	0	0	0	0	0	0	0	0
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	33	0	0	0	0	0	0	0	0	33
Resident	0	1787	44	78	89	0	0	0	0	0	1998
Nonresident	0	33	0	0	0	0	0	0	0	0	33
Total	0	1820	44	78	89	0	0	0	0	0	2031

^aDMU 19 deer harvest data only estimates antlerless deer harvested using a hunter's second to fifth antlerless permit. Antlered and antlerless deer harvested on an either sex permit or antlerless deer harvested on the first antlerless permit are estimated in the respective original DMU's harvest estimate, typically DMU 10, but also could be DMU 9, 11, or 14. This way the harvest estimate for DMU 19 reflects only the additional antlerless deer harvest DMU 19 was created to achieve.