

# **REPORT OF DEER HARVEST 2018-2019**

## **HARVEST REPORT STATEWIDE WILDLIFE RESEARCH AND SURVEYS BIG GAME PROGRAM**

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## Deer Harvest Survey 2018 – 2019

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 ([2018-19 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 2018-19 deer season was 179,247 (Fig. 1), which is a decline of 1.85% from 2017-18 and 7.00% below the five-year average. This is the fourth year in a row that deer permit sales have declined. Most of the declines are in resident over-the-counter permits. The largest declines were in Whitetail Any Season General Resident, Whitetail Any Season Landowner/Tenant, and Whitetail Any Season Youth. Non-resident permit sales have been steady since most non-resident permits are limited availability with quotas, but slight variation occurs with Hunt-Own-Land permits.

Deer Permits Sold by Residency 2010-2019

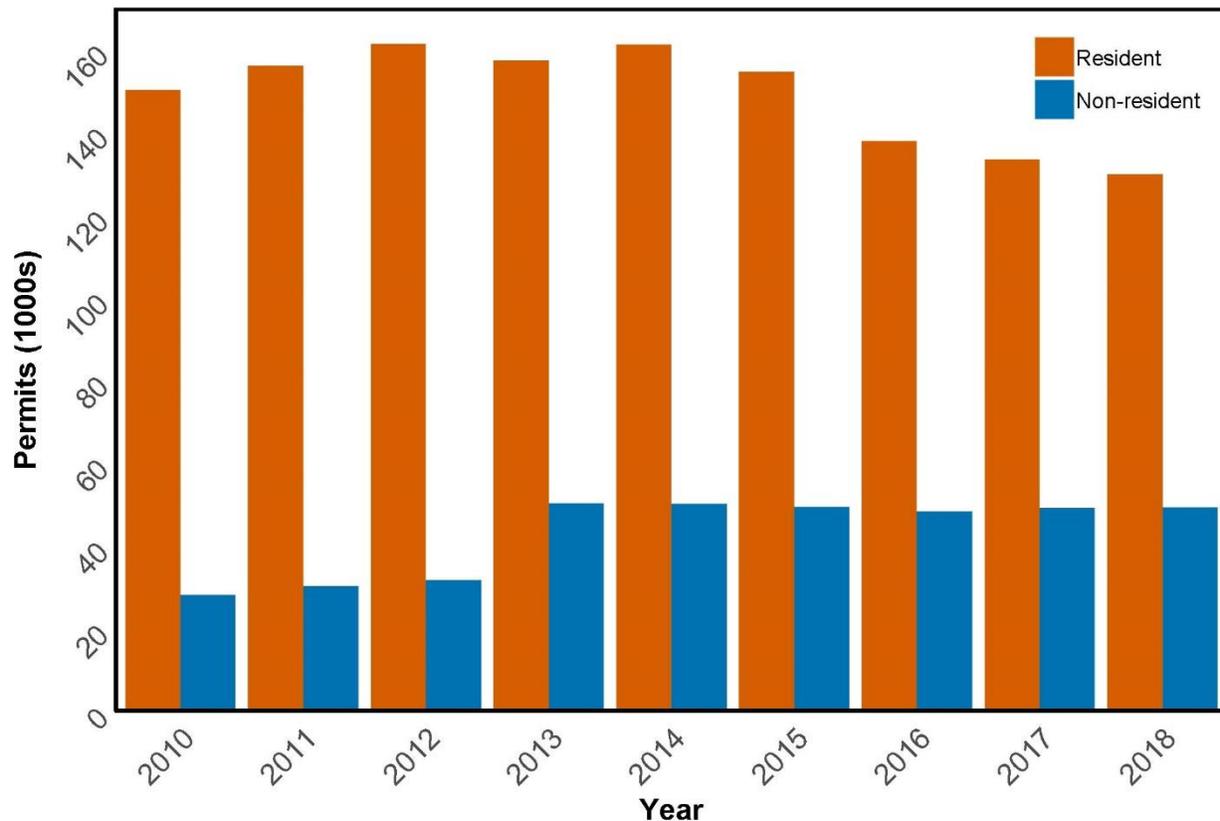


Figure 1. Deer permit sales 2010 to present. Resident sales (orange) have declined the last three years. Non-resident sales have remained steady since most non-resident permits are limited availability through the random draw, variation in non-resident permits is typically due to changes in the number 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 2018-19 deer season, hunters purchased 106,896 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 2018-19 post-season was 30,249, due to incorrect emails, closed emails, etc. A total of 13,707 responses were received, made up of 12,034 responses to email invitations, 810 responses to postcards, 197 phone

responses, and 666 responses from the Bowhunter form. These responses resulted in a total of 13,562 responses with usable data for analysis and estimation of deer harvest and hunter activity for the 2018-19 deer seasons. Recent changes in international privacy law prevented surveying youth hunters under 16, therefore all youth data were included in the equivalent general resident category. There was a total of only 247 leftover non-resident permits across all non-resident permit types; due to the low sample size the non-resident permits were combined with their respective permit type issued during the non-resident draw.

### Statewide Deer Harvest

The 2018-19 statewide deer harvest of 81,769 an increase of 2,202 deer from the previous season's harvest. Harvest in 2018-19 was 0.88% below the three-year harvest average of 82,492 and was 5.09% below the five-year harvest average of 86,152 (Fig. 2). The 2018-19 deer harvest was the 13<sup>th</sup> highest harvest in Kansas since modern deer hunting seasons began in 1965, the highest was the 2000 season, when 111,159 deer were harvested.

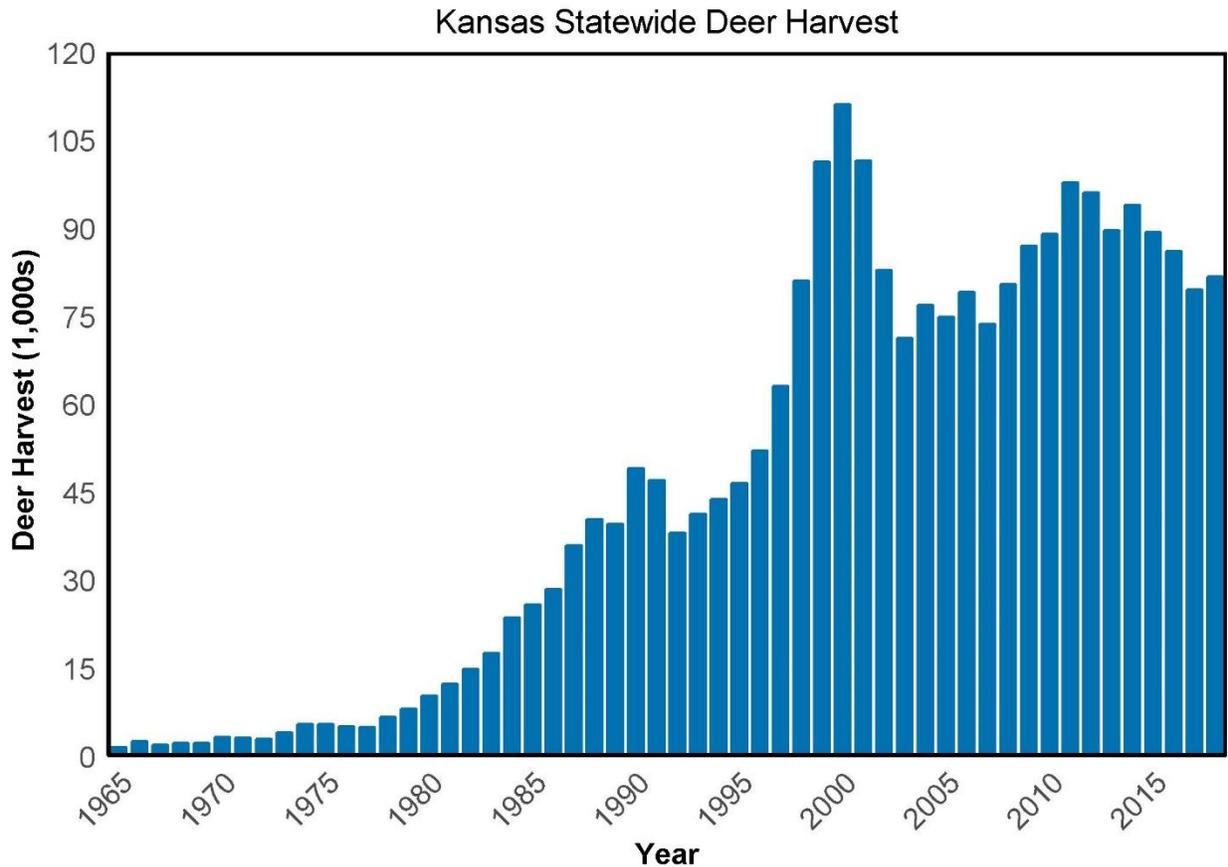


Figure 2. Kansas statewide deer harvest 1965 to present. Greatest harvest occurred in 2000 (111,159) lowest harvest occurred in 1965 (1,504). The first modern deer hunting season in Kansas was held in 1965.

Residents hunters hunted at a slightly lower rate (95.7%) than non-resident hunters (96.1%), although 95.8% of all hunters who purchased a deer permit spent time afield. Residents and non-residents had similar rates of successfully harvesting a deer. 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 (1,811) was the lowest in Kansas since 1984 (1,789) although the number of antlerless mule deer harvested (214) increased from 2017-18 (139). Mule deer harvest made up 2.2% of the total deer harvest (Table 1). The total antlerless deer harvest made up 47.8% of the total deer harvest, which was slightly higher than the 2017-18 season (46.6%). 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 2018-2019. 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	1,617	94.1%	58.2%	257	57	0	19	0	76	477	50	6	13	6	75	22.8%	13.6%	885
Any Deer, LO/Ten	261	87.8%	65.7%	41	0	0	0	0	0	96	14	0	0	0	14	0.0%	12.7%	151
Whitetail Either Sex, Gen Res + Youth	53,724	96.5%	52.9%	19,881	6,119	190	888	327	7,524	26	17	0	0	0	17	27.5%	39.5%	27,448
Whitetail Either Sex, LO/Ten	14,531	94.1%	53.1%	5,605	1,473	46	74	64	1,657	0	0	0	0	0	0	22.8%	0.0%	7,262
Muzzleloader, Gen Res + Youth	507	100.0%	51.6%	76	8	0	0	0	8	152	25	0	0	0	25	9.5%	14.1%	261
Muzzleloader, LO/Ten	67	100.0%	66.7%	6	6	0	0	6	12	22	6	0	0	0	6	66.7%	21.4%	46
HOL	4,524	91.1%	50.2%	1,340	337	19	37	0	393	290	37	9	0	0	46	22.7%	13.7%	2,069
STWD Archery, Gen Res + Youth	5,570	97.0%	46.3%	1,783	319	33	33	16	401	303	16	0	0	0	16	18.4%	5.0%	2,503
STWD Archery, LO/Ten	1,058	88.7%	49.2%	367	47	0	8	16	71	23	0	0	0	0	0	16.2%	0.0%	461
WTAO, Gen Res + Youth	48,004	95.8%	45.3%	0	17,949	269	1,292	1,326	20,836	0	0	0	0	0	0	100.0%	0.0%	20,836
Whitetail Either Sex + Youth, Draw	6,772	96.5%	64.9%	3,907	257	23	31	16	327	8	0	0	0	0	0	7.7%	0.0%	4,242
Muzzleloader + Youth, Draw	1,580	95.3%	51.6%	668	67	33	8	0	108	0	0	0	0	0	0	13.9%	0.0%	776
Muzzleloader + Youth, ESES	75	100.0%	66.7%	19	0	0	0	0	0	31	0	0	0	0	0	0.0%	0.0%	50
HOL	1,522	96.8%	51.7%	590	105	0	15	7	127	30	15	0	0	0	15	17.7%	33.3%	762
HOL Special	1,167	97.4%	56.3%	466	67	0	17	0	84	91	0	0	0	0	0	15.3%	0.0%	641
HOL NR Tenant	534	98.4%	35.0%	156	9	0	9	0	18	9	0	0	0	0	0	10.3%	0.0%	183
Archery + Youth, Draw	13,260	95.7%	49.8%	5,855	447	8	0	8	463	0	0	0	0	0	0	7.3%	0.0%	6,318
Archery + Youth, ESES	127	100.0%	61.1%	39	0	0	0	0	0	39	0	0	0	0	0	0.0%	0.0%	78
WTAO	24,347	95.8%	29.1%	0	6,144	177	282	194	6,797	0	0	0	0	0	0	100.0%	0.0%	6,797
Resident	129,863	94.5%	53.9%	29,356	26,315	557	2,351	1,755	30,978	1,389	165	15	13	6	199	30.7%	12.0%	61,922
Nonresident	49,384	97.3%	51.8%	11,700	7,096	241	362	225	7,924	208	15	0	0	0	15	19.1%	3.7%	19,847
Total	179,247	95.8%	52.9%	41,056	33,411	798	2,713	1,980	38,902	1,597	180	15	13	6	214	48.7%	11.8%	81,769

\*Changes 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 (0.18%) of harvest although shotguns with slugs (0.28%) and traditional muzzleloaders (0.50%) were also little used. As a group, muzzleloader hunters killed only 3.3% of the overall deer harvest. Archery methods were used to harvest 36.6% of the deer taken in 2018-19. Crossbow as a legal weapon for use during the archery season continues to be a contentious issue for some hunters. The proportion of the archery harvest by crossbows increased by 6.2% from 2017 to 2018, which was less than half the previous year's increase (15%) and accounts for 29.3% of deer harvested by archery methods (Fig.3).

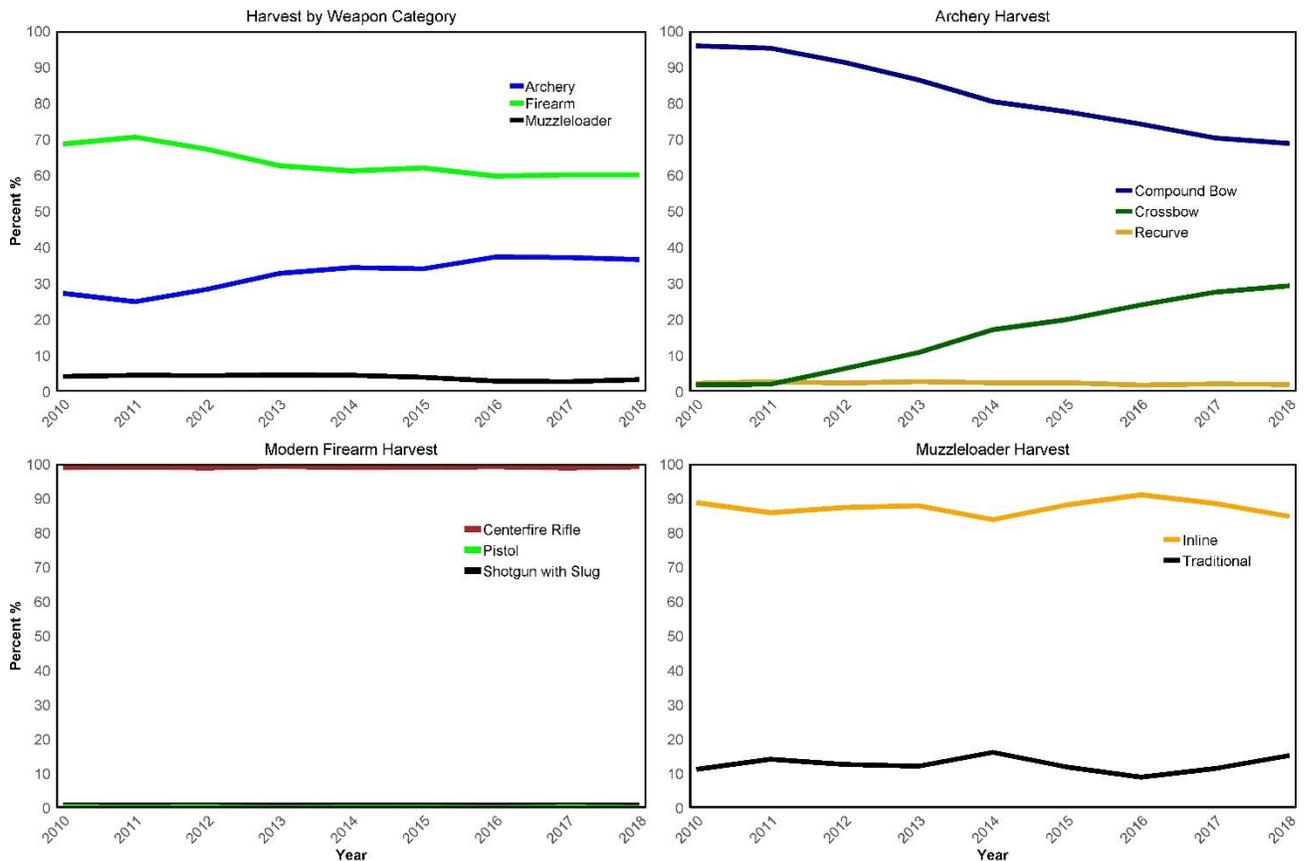


Figure 3. Proportion of harvest by weapon category and proportion of harvest by sub-category within weapon category. The proportion of deer harvest by archery methods has increased while the proportion of harvest by firearms methods has decreased. The proportion of deer harvest by weapon sub-category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

Table 2. Kansas state-wide deer harvest by weapon type in 2018-2019. 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	1,617	872	0	0	6	0	6	0	0	884
Any Deer, LO/Ten	261	151	0	0	0	0	0	0	0	151
Whitetail Either Sex, Gen Res + Youth	53,724	18,307	146	26	463	154	5,282	137	2,933	27,448
Whitetail Either Sex, LO/Ten	14,531	5,102	9	18	55	37	1,305	46	689	7,261
Muzzleloader, Gen Res + Youth	507	8	0	0	210	42	0	0	0	260
Muzzleloader, LO/Ten	67	0	0	0	34	12	0	0	0	46
HOL	4,524	1,732	0	0	9	0	159	9	159	2,068
STWD Archery, Gen Res + Youth	5,570	171	0	0	0	0	1,723	89	520	2,503
STWD Archery, LO/Ten	1,058	23	0	0	8	0	250	31	148	460
WTAO, Gen Res + Youth	48,004	14,198	76	101	487	101	3,877	151	1,846	20,837
Whitetail Either Sex + Youth, Draw	6,772	4,226	0	0	8	0	8	0	0	4,242
Muzzleloader + Youth, Draw	1,580	25	0	0	709	42	0	0	0	776
Muzzleloader + Youth, ESES	75	0	0	0	44	6	0	0	0	50
HOL	1,522	444	0	0	15	0	252	0	52	763
HOL Special	1,167	436	0	0	0	0	140	0	66	642
HOL NR Tenant	534	101	0	0	9	0	46	0	27	183
Archery + Youth, Draw	13,260	23	0	0	0	0	4,701	45	1,549	6,318
Archery + Youth, ESES	127	0	0	0	0	0	78	0	0	78
WTAO	24,347	2,913	0	0	247	18	2,772	71	777	6,798
Resident	129,863	40,564	231	145	1,272	346	12,602	463	6,295	61,918
Nonresident	49,384	8,168	0	0	1,032	66	7,997	116	2,471	19,850
Total	179,247	48,732	231	145	2,304	412	20,599	579	8,766	81,768

\*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. The majority of 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 2017-18 deer season 1,040,000 acres 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 5.79% of the total estimated deer harvest occurs on those properties (Table 3). The proportion of deer harvest on WIHA properties is 3.71%, but WIHA properties account for 1.98% of Kansas. Private property not in WIHA accounts for the remaining 97.28% of land and 90.50% 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 is 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	1,260	219	789	955	53	202	1,210
Any Deer, LO/Ten	304	17	113	189	8	8	205
Any Deer, Youth	107	61	91	43	0	14	57
Whitetail Either Sex, Gen Res	42,978	8,616	8,165	31,826	2,854	1,274	35,954
Whitetail Either Sex, LO/Ten	15,164	537	867	10,374	68	42	10,484
Whitetail Either Sex, Youth	7,219	882	1,111	4,706	210	210	5,126
Muzzleloader, Gen Res + Youth <sup>a</sup>	460	77	307	305	0	42	347
Muzzleloader, LO/Ten	76	0	38	81	0	0	81
HOL	4,723	22	162	2,625	0	19	2,644
STWD Archery, Gen Res	4,646	950	1,214	2,947	303	146	3,396
STWD Archery, LO/Ten	1,042	82	150	714	12	0	726
STWD Archery, Youth	367	0	39	275	0	0	275
Whitetail Either Sex, Draw	5,840	599	1,132	5,639	297	380	6,316
Whitetail Either Sex, Leftover	188	52	52	165	12	12	189
Muzzleloader, Draw	1,498	161	259	826	58	49	933
Muzzleloader, Leftover	73	9	18	35	0	0	35
Muzzleloader, ESES	69	25	19	48	0	7	55
HOL	1,413	9	27	1,288	0	0	1,288
HOL Special	1,195	9	26	963	0	0	963
HOL NR Tenant	538	11	21	405	0	0	405
Archery, Draw	11,164	1,652	2,028	7,305	715	524	8,544
Archery, Leftover	463	41	51	227	22	22	271
Archery, ESES	106	21	49	63	0	0	63
Resident	78,346	11,463	13,046	55,040	3,508	1,957	60,505
Nonresident	22,547	2,589	3,682	16,964	1,104	994	19,062
<b>Total</b>	<b>100,893</b>	<b>14,052</b>	<b>16,728</b>	<b>72,004</b>	<b>4,612</b>	<b>2,951</b>	<b>79,567</b>

<sup>a</sup>Low response rate of resident youth hunting with a muzzleloader permit were combined with general residents hunting with a muzzleloader permit.

## **Hunter Participation by Season**

During the 2018-19 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 86.5%. 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 96.8% Kansas resident and only 3.2% 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 88.5% resident participation. A slightly greater than expected proportion of residents indicated that they did not participate in any season and didn't 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	1,617	12	66	96	78	1,486	66	168	54	0	95
Any Deer, LO/Ten	261	0	0	0	0	229	0	13	0	0	32
Whitetail Either Sex, Gen Res + Youth	53,724	1,268	4,115	27,070	3,416	40,256	2,239	7,654	2,938	831	1,863
Whitetail Either Sex, LO/Ten	14,531	237	932	6,609	527	10,907	571	2,039	554	158	856
Muzzleloader, Gen Res + Youth	507	16	229	33	25	450	8	74	8	0	0
Muzzleloader, LO/Ten	67	0	28	0	6	56	6	6	0	0	0
HOL	4,524	62	141	1,239	88	3,586	70	396	79	26	402
STWD Archery, Gen Res + Youth	5,570	77	70	5,347	201	945	147	449	155	85	169
STWD Archery, LO/Ten	1,058	8	23	923	23	153	53	61	31	23	120
Whitetail Either Sex, Draw + Youth	6,772	90	7	49	28	6,481	14	167	14	0	235
Muzzleloader, Draw + Youth	1,580	45	1,378	0	8	384	0	15	8	0	75
Muzzleloader + Youth, ESES	75	6	25	0	0	56	0	0	0	0	0
HOL	1,522	14	198	843	35	949	0	50	0	7	49
HOL Special	1,167	0	46	514	0	783	8	46	0	0	31
HOL NR Tenant	534	0	61	306	9	298	0	0	9	0	9
Archery, Draw + Youth	13,260	63	70	12,624	63	126	7	140	14	14	573
Archery + Youth, ESES	127	0	0	120	0	7	7	0	0	0	0
Resident	81,859	1,680	5,604	41,317	4,364	58,068	3,160	10,860	3,819	1,123	3,537
Nonresident	25,037	218	1,785	14,456	143	9,084	36	418	45	21	972
Total	106,896	1,898	7,389	55,773	4,507	67,152	3,196	11,278	3,864	1,144	4,509

<sup>a</sup>Changes to privacy laws prevented surveying youth hunters in separate categories, youth hunters were included in corresponding general hunter categories.

## Hunter Days Afield

During the 2018-19 deer seasons hunters in Kansas spent over 1.1 million days hunting deer (Table 5). Not including antlerless permits, residents averaged 12.0 days hunted per permit purchased, while non-residents averaged 7.4 days hunted per permit purchased. General resident and youth hunters who held a statewide archery permit hunted the most days per permit at an average 15.8 days, with resident landowner/tenants holding a statewide archery permit hunted second most averaging 15.7 days per permit. Resident landowner/tenants hunted the fewest average days per permit at 3.3 days with an Any Deer permit. Among non-residents the most days hunted were by hunters using a Hunt-Own-Land permit at an average of 10.2 days per permit, while non-residents with a whitetail either sex permit hunted on average of only 5.1 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	1,617	30	288	1,170	120	6,465	66	426	168	0	8,733
Any Deer, LO/Ten	261	0	0	0	0	824	0	26	0	0	850
Whitetail Either Sex, Gen Res + Youth	53,724	3,862	15,612	432,873	6,066	169,213	2,239	17,440	9,275	3,299	659,879
Whitetail Either Sex, LO/Ten	14,531	737	3,244	101,833	1,010	49,270	571	4,755	1,636	395	163,451
Muzzleloader, Gen Res + Youth	507	80	1,088	256	58	2,144	8	132	16	0	3,782
Muzzleloader, LO/Ten	67	0	146	0	18	291	6	36	0	0	497
HOL	4,524	292	370	15,430	158	14,010	70	845	255	87	31,517
STWD Archery, Gen Res + Youth	5,570	200	319	87,885	317	3,424	147	944	612	286	94,134
STWD Archery, LO/Ten	1,058	24	69	16,637	23	451	53	152	85	115	17,609
Whitetail Either Sex, Draw + Youth	6,772	408	28	252	63	32,864	14	543	56	0	34,228
Muzzleloader, Draw + Youth	1,580	202	7,447	0	24	1,890	0	60	80	0	9,703
Muzzleloader + Youth, ESES	75	18	188	0	0	218	0	0	0	0	424
HOL	1,522	49	905	9,988	84	4,341	0	107	0	7	15,481
HOL Special	1,167	0	138	4,189	0	3,032	8	130	0	0	7,497
HOL NR Tenant	534	0	227	2,509	9	1,315	0	0	18	0	4,078
Archery, Draw + Youth	13,260	301	378	110,879	168	560	7	434	56	98	112,881
Archery + Youth, ESES	127	0	0	1,080	0	35	7	0	0	0	1,122
Resident	81,859	5,225	21,136	656,084	7,770	246,092	3,160	24,756	12,047	4,182	980,452
Nonresident	25,037	978	9,311	128,897	348	44,255	36	1,274	210	105	185,414
Total	106,896	6,203	30,447	784,981	8,118	290,347	3,196	26,030	12,257	4,287	1,165,866

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

## Date of Harvest

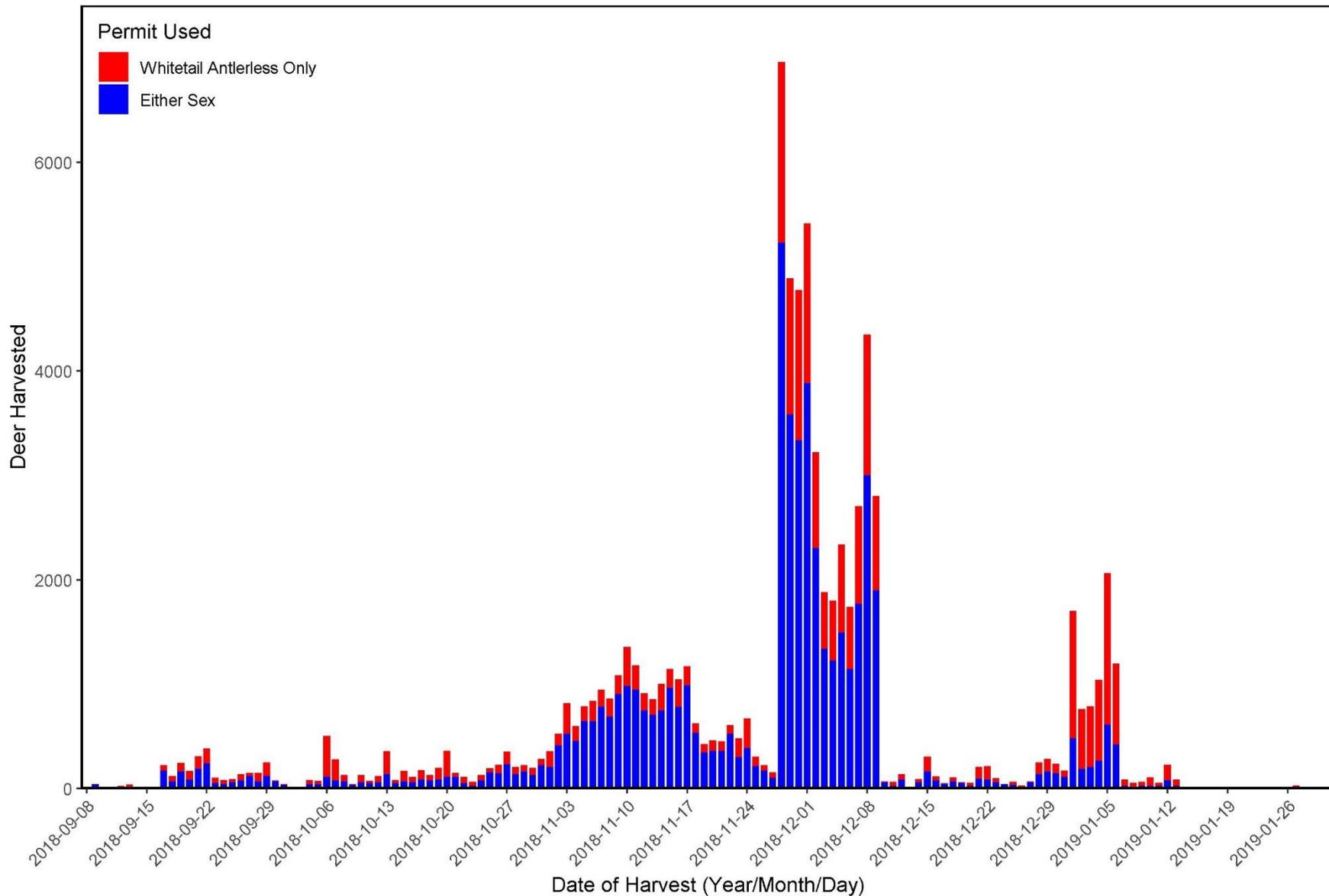


Figure 4. Deer Harvest by Date. Harvest is split by permit type used as either the Either Sex permit (Buck permit) and Whitetail antlerless only permit. Dates (in Year/Month/Day format) labeled on the x-axis are Saturdays during the 2018-19 season. More deer (23.4%) were harvested on Saturdays than any other day of the week, while Mondays have the least amount of harvest (6.9%). January antlerless seasons accounted for 10.2% of the deer harvest, the 12-day firearms season for 52.4%, and only 1.1% occurred during the 3-day October pre-rut antlerless season.

## Hunter Satisfaction

Satisfaction of Kansas deer hunters was largely tied to whether or not 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 2017-18 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	3859	4.6	9.3	9.8	21.8	13.1	33.9	7.6	23.7	54.6
Resident	Yes	4986	1.1	2.2	3.2	6.3	9.1	50.7	27.4	6.5	87.2
Non-resident	No	1385	2.2	4.3	6.3	12.9	14.1	39.7	20.5	12.8	74.3
Non-resident	Yes	1674	0.2	0.7	1.9	2.4	6.6	37.9	50.4	2.8	94.9

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

## Special Section

### Hunter Preferences for January Antlerless Season Structure

The 2018-19 Kansas Deer Harvest Survey asked hunters for their satisfaction with current January Whitetail Antlerless Only (WAO) season opening day and length structure. We used the potential for conflict index (Manfredo et al. 2003) to evaluate deer hunters' satisfaction with the opening date and season length by Deer Management Unit because DMUs have varying season lengths in January depending on deer population size estimates and goals.

Hunters in general were satisfied with the opening date of January 1 (Fig. 5) although the units with the most potential for conflict and lowest average satisfaction were DMUs that have had only a single day for January antlerless seasons. DMUs with the longest January season lengths were the most satisfied with the date of opening day and most hunters answered the same way as indicated by low potential for conflict index values.

Hunters, except those in DMUs with only a single day January WAO season, were mostly satisfied with their current season length (Fig. 6). Hunters in DMUs with only a single day January WAO season were on average dissatisfied with the season length in the DMU the hunt most in. Also, hunters in DMUs with one day seasons also showed the most potential for conflict indicating they answered more in the extremes of satisfaction or dissatisfaction. Again, hunters in DMUs with the longest January WAO seasons had the most homogenous answers.

We asked hunters to select their choice from among different options for opening dates for the January WAO seasons. The options we asked about were keeping the current Jan. 1 opener, opening the season on the first Friday in January, opening the season on the first Saturday, or they did not have a preference. Most hunters indicated they preferred keeping the current Jan. 1 opening day (Fig. 7), and the next largest group was those hunters who had no preference.

We asked hunters to select their choice in January season structure also. The options we asked hunters to pick from included the current structure in which the shortest season would run through the first Sunday in January unless doing so would include more than four days upon which the season would only be Jan. 1; always including a weekend in the shortest season and an additional weekend for each increase in the season length; season lengths that were a set number of days (e.g. 5, 10, 15 or 4, 8, 12 days) and no preference. Hunters selected no preference (Fig. 8) at the highest rate but nearly the same percentage selected always having a weekend in the shortest season.

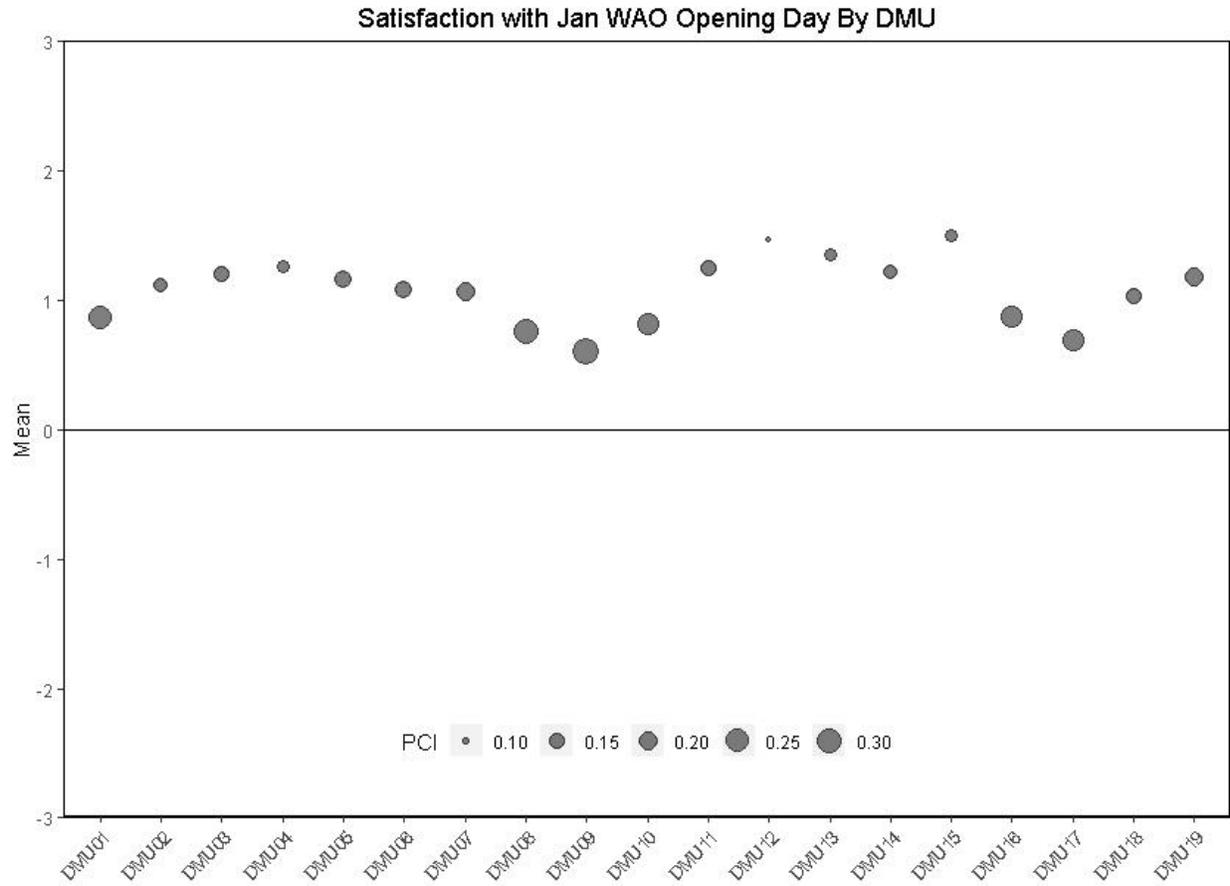


Figure 5. Potential for conflict index for January Whitetail Antlerless Only season opening date by deer management unit. January 1 has been the opening date for all DMUs. The mean satisfaction in a DMU is greater the further above zero a dot is located. The further below zero a dot is located indicates greater mean dissatisfaction. Dot size indicates potential for conflict around the mean, larger dots show more potential for conflict which indicates answers were more extreme in satisfaction or dissatisfaction.

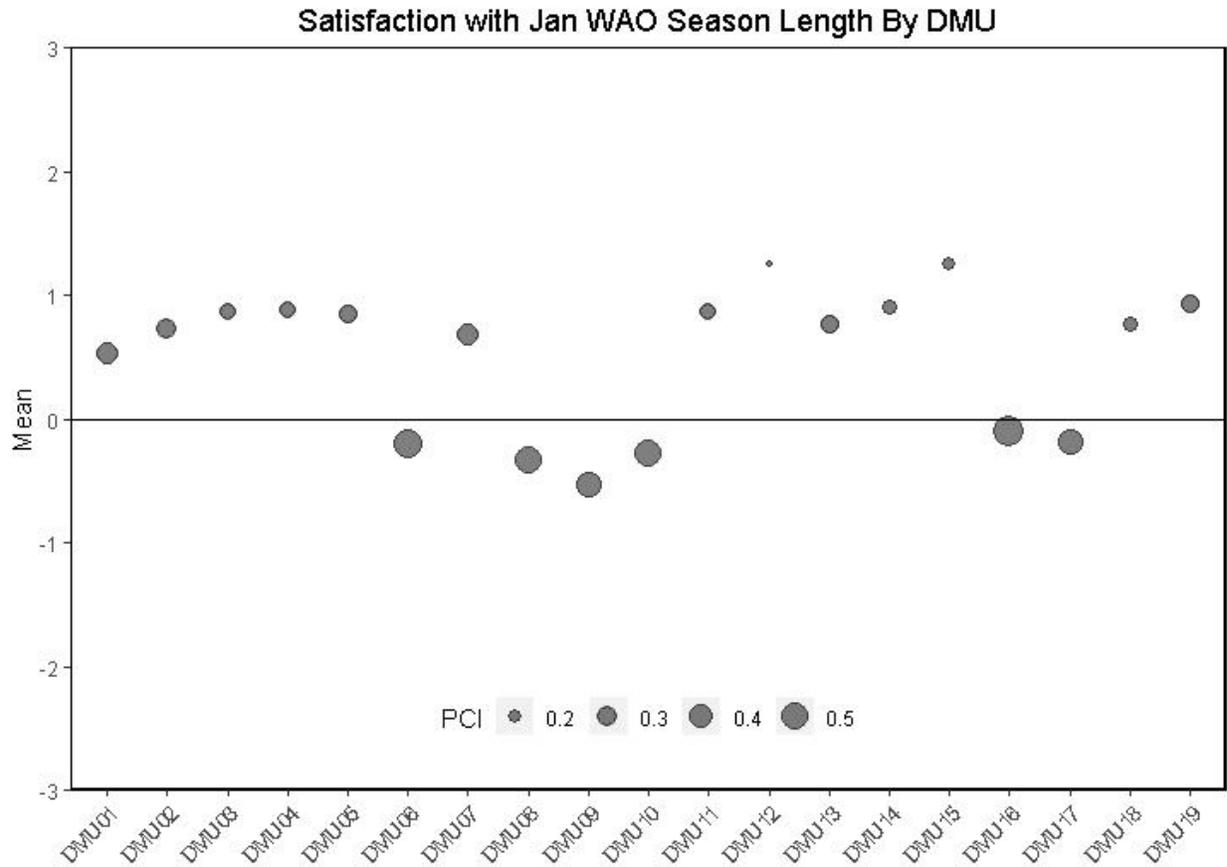


Figure 6. Potential for conflict index for January Whitetail Antlerless Only season length by deer management unit. January 1 has been the opening date for all DMUs. The mean satisfaction in a DMU is greater the further above zero a dot is located. The further below zero a dot is located indicates greater mean dissatisfaction. Dot size indicates potential for conflict around the mean, larger dots show more potential for conflict which indicates answers were more extreme in satisfaction or dissatisfaction.

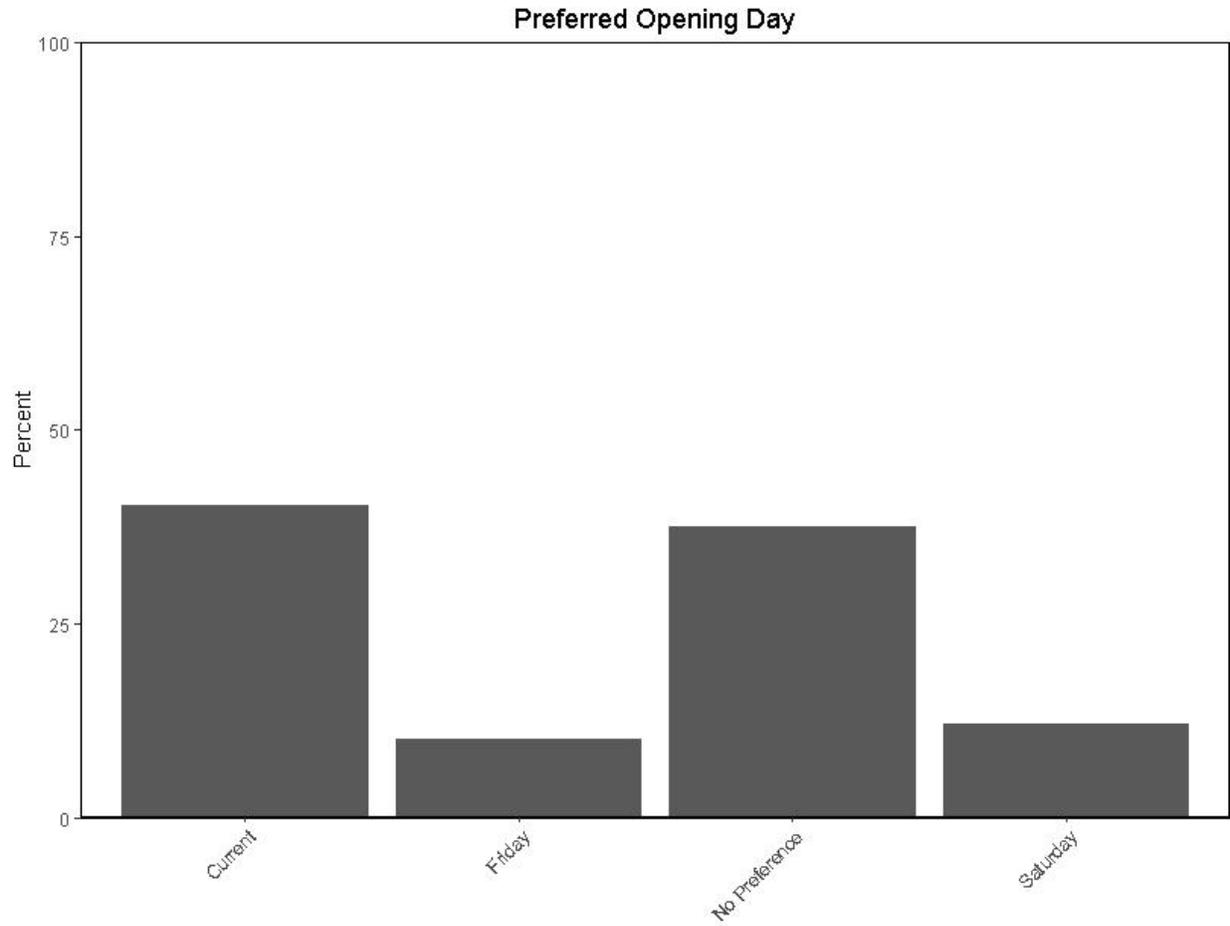


Figure 7. Percent of respondents preferring different options for opening date of Kansas January whitetail antlerless only seasons. Options included where continuing with the current opening date of January 1, opening on the first Friday in January, opening on the first Saturday in January, and no preference.

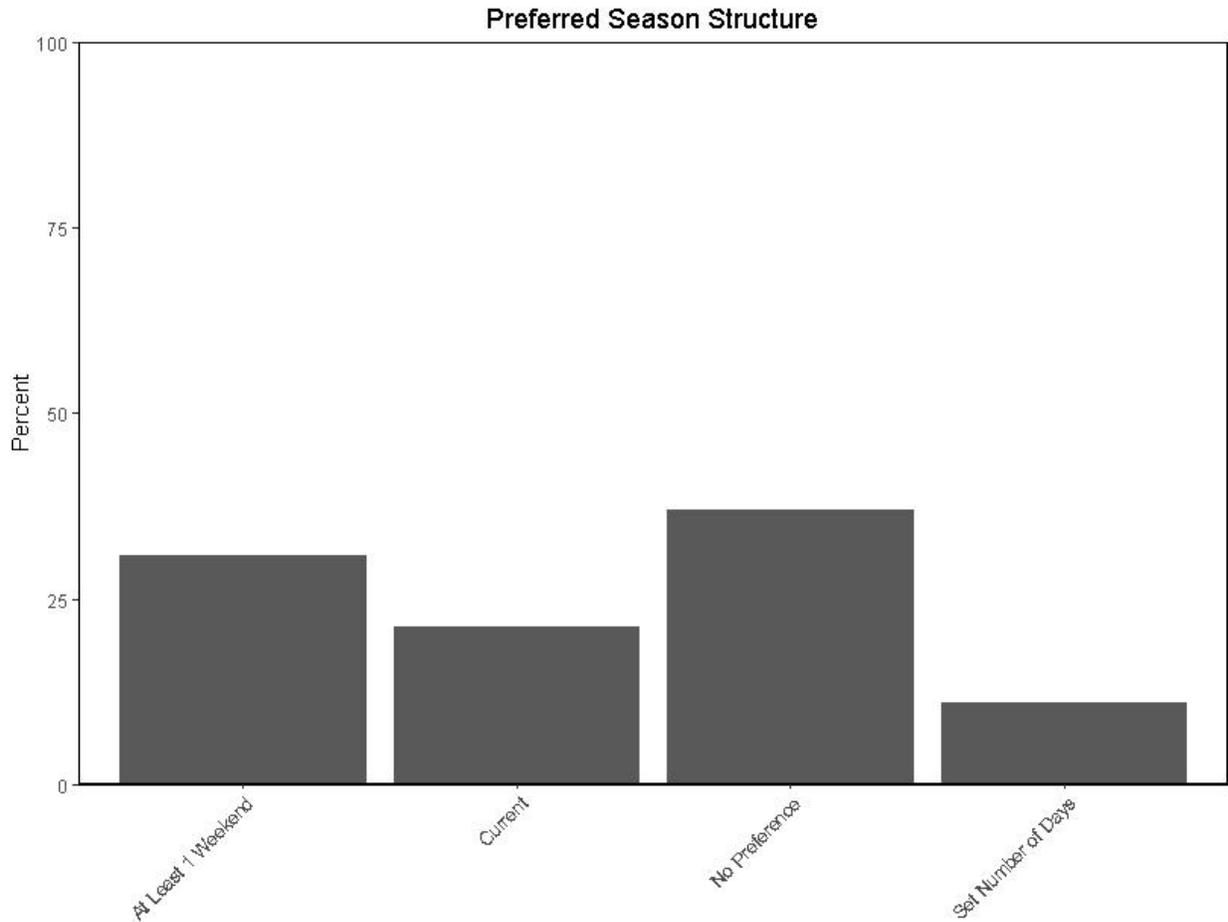
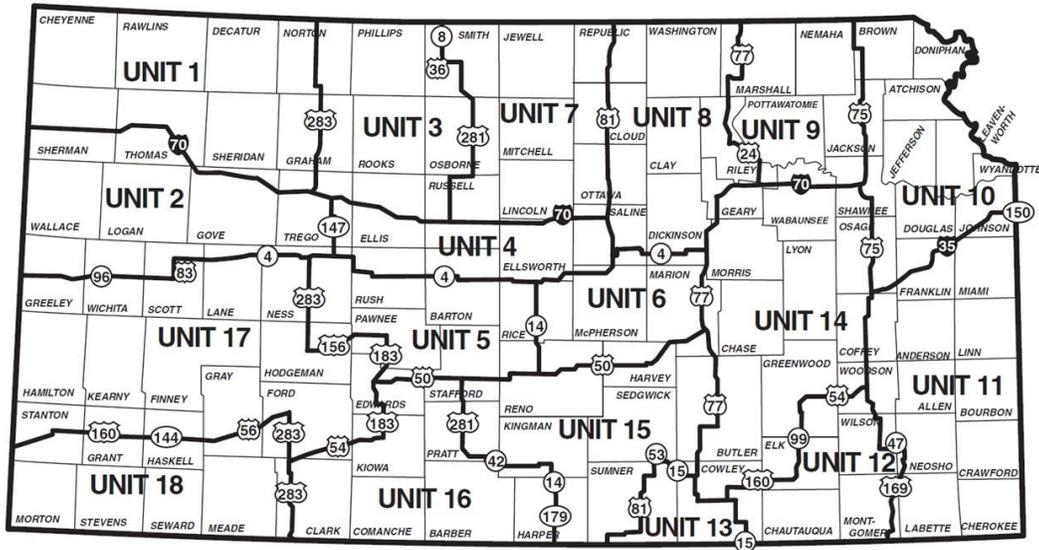


Figure 8. Percent of respondents preferring different options for structure of Kansas January whitetail antlerless only seasons. Options included were always including at least one weekend in the shortest season, seasons were always a set number of days regardless of weekends, no preference and the current structure that includes a weekend in the shortest season only if the season length would be less than 5 days otherwise the season is one day.

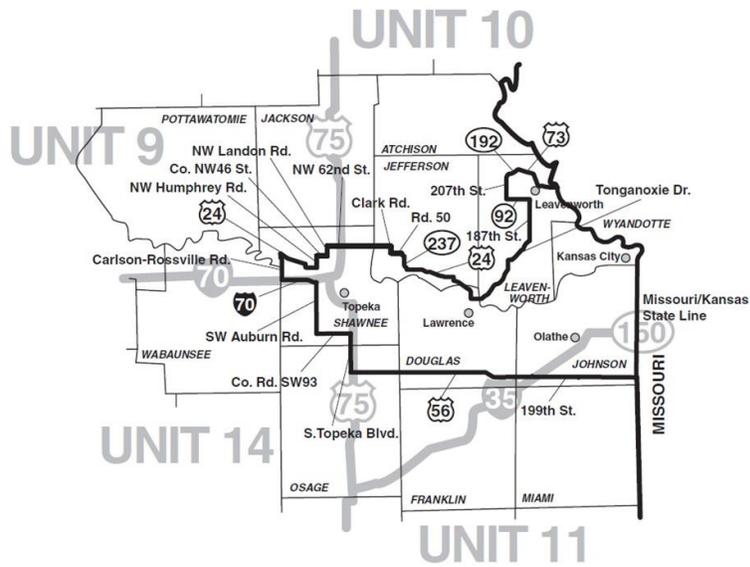
### **Appendix 1. KS Deer Harvest by Species, Sex, and Age for Each Deer Management Unit**

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	52	20	0	0	0	204	26	6	6	6	320
Any Deer, LO/Ten	0	0	0	0	0	51	7	0	0	0	58
Whitetail Either Sex, Gen Res + Youth	345	71	0	9	18	9	0	0	0	0	452
Whitetail Either Sex, LO/Ten	36	18	0	0	0	0	0	0	0	0	54
Muzzleloader, Gen Res + Youth	8	8	0	0	0	58	17	0	0	0	91
Muzzleloader, LO/Ten	0	0	0	0	6	11	0	0	0	0	17
HOL	40	0	0	0	0	139	28	0	0	0	207
STWD Archery, Gen Res + Youth	59	42	17	0	0	165	16	0	0	0	299
STWD Archery, LO/Ten	8	0	0	0	0	0	0	0	0	0	8
WTAO, Gen Res + Youth	0	10	23	58	452	0	0	0	0	0	543
Whitetail Either Sex, Draw + Youth	147	15	0	8	0	0	0	0	0	0	170
Muzzleloader, Draw + Youth	31	16	0	0	0	0	0	0	0	0	47
Muzzleloader + Youth, ESES	13	0	0	0	0	12	0	0	0	0	25
HOL	29	0	0	0	0	22	8	0	0	0	59
HOL Special	45	0	0	0	0	35	0	0	0	0	80
HOL NR Tenant	0	0	0	0	0	9	0	0	0	0	9
Archery, Draw + Youth	203	15	0	0	0	0	0	0	0	0	218
Archery + Youth, ESES	0	0	0	0	0	13	0	0	0	0	13
WTAO+ Youth	0	21	15	17	92	0	0	0	0	0	145
Resident	548	169	40	67	476	637	94	6	6	6	2,049
Nonresident	468	67	15	25	92	91	8	0	0	0	766
Total	1,016	236	55	92	568	728	102	6	6	6	2,815

## 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	39	7	0	0	0	147	0	0	7	0	200
Any Deer, LO/Ten	20	0	0	0	0	19	0	0	0	0	39
Whitetail Either Sex, Gen Res + Youth	199	26	0	9	0	0	0	0	0	0	234
Whitetail Either Sex, LO/Ten	45	18	0	0	9	0	0	0	0	0	72
Muzzleloader, Gen Res + Youth	36	0	0	0	0	37	0	0	0	0	73
Muzzleloader, LO/Ten	0	0	0	0	0	11	6	0	0	0	17
HOL	0	11	0	0	0	41	0	0	0	0	52
STWD Archery, Gen Res + Youth	77	0	8	0	0	25	0	0	0	0	110
STWD Archery, LO/Ten	16	0	0	0	0	15	0	0	0	0	31
WTAO, Gen Res + Youth	0	0	0	40	4	0	0	0	0	0	44
Whitetail Either Sex, Draw + Youth	184	8	0	0	0	0	0	0	0	0	192
Muzzleloader, Draw + Youth	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	7	0	0	0	0	0	0	0	0	0	7
HOL Special	16	0	0	0	0	24	0	0	0	0	40
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery, Draw + Youth	80	0	0	0	0	0	0	0	0	0	80
Archery + Youth, ESES	8	0	0	0	0	6	0	0	0	0	14
WTAO	0	0	0	0	11	0	0	0	0	0	11
Resident	432	62	8	49	13	295	6	0	7	0	872
Nonresident	326	8	0	0	11	30	0	0	0	0	375
Total	758	70	8	49	24	325	6	0	7	0	1,247

## 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	68	0	0	6	0	12	0	0	0	0	86
Any Deer, LO/Ten	7	0	0	0	0	0	0	0	0	0	7
Whitetail Either Sex, Gen Res + Youth	614	169	9	44	0	0	0	0	0	0	836
Whitetail Either Sex, LO/Ten	125	81	0	0	0	0	0	0	0	0	206
Muzzleloader, Gen Res + Youth	8	0	0	0	0	0	0	0	0	0	8
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	49	12	0	0	0	11	0	0	0	0	72
STWD Archery, Gen Res + Youth	143	8	8	0	0	0	0	0	0	0	159
STWD Archery, LO/Ten	16	0	0	0	0	0	0	0	0	0	16
WTAO, Gen Res + Youth	0	1,184	0	8	0	0	0	0	0	0	1,192
Whitetail Either Sex, Draw + Youth	184	15	0	8	0	0	0	0	0	0	207
Muzzleloader, Draw + Youth	54	9	0	0	0	0	0	0	0	0	63
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	51	29	0	0	7	0	8	0	0	0	95
HOL Special	32	0	0	0	0	8	0	0	0	0	40
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery, Draw + Youth	355	23	0	0	0	0	0	0	0	0	378
Archery + Youth, ESES	16	0	0	0	0	6	0	0	0	0	22
WTAO	0	55	0	44	0	0	0	0	0	0	99
Resident	1,030	1,454	17	58	0	23	0	0	0	0	2,582
Nonresident	692	131	0	52	7	14	8	0	0	0	904
Total	1,722	1,585	17	110	7	37	8	0	0	0	3,486

## Deer Management Unit 04

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	25	6	0	0	0	6	6	0	0	0	43
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	579	281	9	26	26	0	0	0	0	0	921
Whitetail Either Sex, LO/Ten	149	75	0	0	0	0	0	0	0	0	224
Muzzleloader, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, LO/Ten	6	6	0	0	0	0	0	0	0	0	12
HOL	46	28	0	0	0	0	0	0	0	0	74
STWD Archery, Gen Res + Youth	87	24	0	0	0	0	0	0	0	0	111
STWD Archery, LO/Ten	8	0	0	0	0	0	0	0	0	0	8
WTAO, Gen Res + Youth	0	249	0	0	56	0	0	0	0	0	305
Whitetail Either Sex, Draw + Youth	153	16	0	0	0	0	0	0	0	0	169
Muzzleloader, Draw + Youth	19	9	9	8	0	0	0	0	0	0	45
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	15	7	0	0	0	0	0	0	0	0	22
HOL Special	8	0	0	0	0	8	0	0	0	0	16
HOL NR Tenant	9	0	0	0	0	0	0	0	0	0	9
Archery, Draw + Youth	196	8	0	0	0	0	0	0	0	0	204
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	219	14	0	0	0	0	0	0	0	233
Resident	900	669	9	26	82	6	6	0	0	0	1,698
Nonresident	400	259	23	8	0	8	0	0	0	0	698
Total	1,300	928	32	34	82	14	6	0	0	0	2,396

## 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	18	6	0	0	0	6	0	0	0	0	30
Any Deer, LO/Ten	7	0	0	0	0	0	0	0	0	0	7
Whitetail Either Sex, Gen Res + Youth	620	172	26	9	9	0	0	0	0	0	836
Whitetail Either Sex, LO/Ten	178	81	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	74	9	0	9	0	0	0	0	0	0	92
STWD Archery, Gen Res + Youth	64	0	0	0	8	0	0	0	0	0	72
STWD Archery, LO/Ten	23	8	0	8	8	0	0	0	0	0	47
WTAO, Gen Res + Youth	0	611	0	121	4	0	0	0	0	0	736
Whitetail Either Sex, Draw + Youth	160	16	0	0	0	0	0	0	0	0	176
Muzzleloader, Draw + Youth	31	0	0	0	0	0	0	0	0	0	31
Muzzleloader + Youth, ESES	6	0	0	0	0	0	0	0	0	0	6
HOL	7	0	0	0	0	0	0	0	0	0	7
HOL Special	24	8	0	0	0	0	0	0	0	0	32
HOL NR Tenant	9	0	0	0	0	0	0	0	0	0	9
Archery, Draw + Youth	203	8	0	0	0	0	0	0	0	0	211
Archery + Youth, ESES	8	0	0	0	0	0	0	0	0	0	8
WTAO	0	497	0	0	0	0	0	0	0	0	497
Resident	984	887	26	147	29	6	0	0	0	0	2,079
Nonresident	448	529	0	0	0	0	0	0	0	0	977
Total	1,432	1,416	26	147	29	6	0	0	0	0	3,056

## 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	903	267	0	9	26	0	0	0	0	0	1,205
Whitetail Either Sex, LO/Ten	283	38	0	0	0	0	0	0	0	0	321
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	55	0	0	0	0	0	0	0	0	0	55
STWD Archery, Gen Res + Youth	56	8	0	8	0	0	0	0	0	0	72
STWD Archery, LO/Ten	31	8	0	0	0	0	0	0	0	0	39
WTAO, Gen Res + Youth	0	883	24	9	23	0	0	0	0	0	939
Whitetail Either Sex, Draw + Youth	74	7	0	0	7	0	0	0	0	0	88
Muzzleloader, Draw + Youth	8	0	0	0	0	0	0	0	0	0	8
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	8	0	0	0	0	0	0	0	0	0	8
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery, Draw + Youth	109	8	0	0	0	0	0	0	0	0	117
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	331	0	0	0	0	0	0	0	0	331
Resident	1,328	1,204	24	26	49	0	0	0	0	0	2,631
Nonresident	199	346	0	0	7	0	0	0	0	0	552
Total	1,527	1,550	24	26	56	0	0	0	0	0	3,183

## 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	6	0	0	0	0	0	0	6
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	949	345	17	35	17	0	0	0	0	0	1,363
Whitetail Either Sex, LO/Ten	303	90	0	9	18	0	0	0	0	0	420
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	18	28	0	0	0	0	0	0	0	0	46
STWD Archery, Gen Res + Youth	56	24	0	0	0	0	0	0	0	0	80
STWD Archery, LO/Ten	16	0	0	0	0	0	0	0	0	0	16
WTAO, Gen Res + Youth	0	835	16	59	23	0	0	0	0	0	933
Whitetail Either Sex, Draw + Youth	404	15	0	0	0	0	0	0	0	0	419
Muzzleloader, Draw + Youth	46	0	9	0	0	0	0	0	0	0	55
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	20	10	0	0	0	0	0	0	0	0	30
HOL Special	48	8	0	0	0	0	0	0	0	0	56
HOL NR Tenant	18	0	0	0	0	0	0	0	0	0	18
Archery, Draw + Youth	464	53	0	0	0	0	0	0	0	0	517
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	164	16	38	7	0	0	0	0	0	225
Resident	1,342	1,322	33	109	58	0	0	0	0	0	2,864
Nonresident	1,000	250	25	38	7	0	0	0	0	0	1,320
Total	2,342	1,572	58	147	65	0	0	0	0	0	4,184

## 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	1,394	378	0	67	34	0	0	0	0	0	1,873
Whitetail Either Sex, LO/Ten	435	109	0	9	0	0	0	0	0	0	553
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	37	0	0	0	0	0	0	0	0	0	37
STWD Archery, Gen Res + Youth	103	8	0	8	0	0	0	0	0	0	119
STWD Archery, LO/Ten	8	0	0	0	0	0	0	0	0	0	8
WTAO, Gen Res + Youth	0	641	24	69	4	0	0	0	0	0	738
Whitetail Either Sex, Draw + Youth	212	23	0	8	0	0	0	0	0	0	243
Muzzleloader, Draw + Youth	47	0	8	0	0	0	0	0	0	0	55
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	22	7	0	0	0	0	0	0	0	0	29
HOL Special	8	8	0	0	0	0	0	0	0	0	16
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery, Draw + Youth	326	30	0	0	0	0	0	0	0	0	356
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	138	0	22	0	0	0	0	0	0	160
Resident	1,977	1,136	24	153	38	0	0	0	0	0	3,328
Nonresident	615	206	8	30	0	0	0	0	0	0	859
Total	2,592	1,342	32	183	38	0	0	0	0	0	4,187

## 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	1,034	419	26	68	9	0	0	0	0	0	1,556
Whitetail Either Sex, LO/Ten	387	85	0	0	0	0	0	0	0	0	472
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	0	10	0	0	0	0	0	0	0	93
STWD Archery, Gen Res + Youth	87	0	0	0	8	0	0	0	0	0	95
STWD Archery, LO/Ten	16	0	0	0	0	0	0	0	0	0	16
WTAO, Gen Res + Youth	0	1,106	0	34	15	0	0	0	0	0	1,155
Whitetail Either Sex, Draw + Youth	147	15	0	0	0	0	0	0	0	0	162
Muzzleloader, Draw + Youth	16	0	0	0	0	0	0	0	0	0	16
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	15	0	0	0	0	0	0	0	0	0	15
HOL Special	8	0	0	0	0	0	0	0	0	0	8
HOL NR Tenant	9	0	0	0	0	0	0	0	0	0	9
Archery, Draw + Youth	276	8	8	0	0	0	0	0	0	0	292
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	809	0	15	0	0	0	0	0	0	824
Resident	1,607	1,610	36	102	32	0	0	0	0	0	3,387
Nonresident	471	832	8	15	0	0	0	0	0	0	1,326
Total	2,078	2,442	44	117	32	0	0	0	0	0	4,713

## 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	1,519	292	9	112	17	0	0	0	0	0	1,949
Whitetail Either Sex, LO/Ten	372	109	9	0	9	0	0	0	0	0	499
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	65	37	0	0	0	0	0	0	0	0	102
STWD Archery, Gen Res + Youth	103	8	0	0	0	0	0	0	0	0	111
STWD Archery, LO/Ten	31	0	0	0	0	0	0	0	0	0	31
WTAO, Gen Res + Youth	0	453	8	34	324	0	0	0	0	0	819
Whitetail Either Sex, Draw + Youth	71	24	7	0	0	0	0	0	0	0	102
Muzzleloader, Draw + Youth	16	0	0	0	0	0	0	0	0	0	16
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	7	7	0	8	0	0	0	0	0	0	22
HOL Special	21	0	0	9	0	0	0	0	0	0	30
HOL NR Tenant	9	0	0	0	0	0	0	0	0	0	9
Archery, Draw + Youth	218	0	0	0	0	0	0	0	0	0	218
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	299	0	0	51	0	0	0	0	0	350
Resident	2,090	899	26	146	350	0	0	0	0	0	3,511
Nonresident	342	330	7	17	51	0	0	0	0	0	747
Total	2,432	1,229	33	163	401	0	0	0	0	0	4,258

## Deer Management Unit 11

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	6	0	0	0	0	0	0	6
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	3,422	1,075	9	173	69	9	0	0	0	0	4,757
Whitetail Either Sex, LO/Ten	1,021	252	9	37	19	0	0	0	0	0	1,338
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	351	65	10	9	0	0	0	0	0	0	435
STWD Archery, Gen Res + Youth	229	65	0	0	0	0	0	0	0	0	294
STWD Archery, LO/Ten	55	8	0	0	0	0	0	0	0	0	63
WTAO, Gen Res + Youth	0	0	70	77	80	0	0	0	0	0	227
Whitetail Either Sex, Draw + Youth	470	35	8	0	9	0	0	0	0	0	522
Muzzleloader, Draw + Youth	102	0	8	0	0	0	0	0	0	0	110
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	132	15	0	0	0	0	0	0	0	0	147
HOL Special	56	17	0	0	0	0	0	0	0	0	73
HOL NR Tenant	24	0	0	9	0	0	0	0	0	0	33
Archery, Draw + Youth	995	118	0	0	0	0	0	0	0	0	1,113
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	0	94	37	0	0	0	0	0	0	131
Resident	5,078	1,465	98	302	168	9	0	0	0	0	7,120
Nonresident	1,779	185	110	46	9	0	0	0	0	0	2,129
Total	6,857	1,650	208	348	177	9	0	0	0	0	9,249

## 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	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	1,225	317	9	71	9	0	0	0	0	0	1,631
Whitetail Either Sex, LO/Ten	423	94	0	0	0	0	0	0	0	0	517
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	28	0	9	0	0	0	0	0	0	120
STWD Archery, Gen Res + Youth	40	8	0	0	0	0	0	0	0	0	48
STWD Archery, LO/Ten	8	8	0	0	0	0	0	0	0	0	16
WTAO, Gen Res + Youth	0	4,391	8	117	0	0	0	0	0	0	4,516
Whitetail Either Sex, Draw + Youth	381	15	7	0	0	0	0	0	0	0	403
Muzzleloader, Draw + Youth	39	0	0	0	0	0	0	0	0	0	39
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	109	15	0	0	0	0	0	0	0	0	124
HOL Special	71	0	0	8	0	0	0	0	0	0	79
HOL NR Tenant	26	9	0	0	0	0	0	0	0	0	35
Archery, Draw + Youth	509	57	0	0	8	0	0	0	0	0	574
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	1,563	0	31	0	0	0	0	0	0	1,594
Resident	1,779	4,846	17	197	9	0	0	0	0	0	6,848
Nonresident	1,135	1,659	7	39	8	0	0	0	0	0	2,848
Total	2,914	6,505	24	236	17	0	0	0	0	0	9,696

## 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	407	127	0	25	0	0	0	0	0	0	559
Whitetail Either Sex, LO/Ten	167	20	0	0	0	0	0	0	0	0	187
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	28	9	0	0	0	0	0	0	0	0	37
STWD Archery, Gen Res + Youth	16	8	0	0	0	0	0	0	0	0	24
STWD Archery, LO/Ten	16	0	0	0	0	0	0	0	0	0	16
WTAO, Gen Res + Youth	0	1,508	15	0	124	0	0	0	0	0	1,647
Whitetail Either Sex, Draw + Youth	81	7	0	0	0	0	0	0	0	0	88
Muzzleloader, Draw + Youth	16	0	0	0	0	0	0	0	0	0	16
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	7	0	0	0	0	0	0	0	0	0	7
HOL Special	8	0	0	0	0	0	0	0	0	0	8
HOL NR Tenant	9	0	0	0	0	0	0	0	0	0	9
Archery, Draw + Youth	101	8	0	0	0	0	0	0	0	0	109
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	552	0	0	0	0	0	0	0	0	552
Resident	634	1,672	15	25	124	0	0	0	0	0	2,470
Nonresident	222	567	0	0	0	0	0	0	0	0	789
Total	856	2,239	15	25	124	0	0	0	0	0	3,259

## 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	2,447	773	9	180	34	9	17	0	0	0	3,469
Whitetail Either Sex, LO/Ten	756	181	18	9	0	0	0	0	0	0	964
Muzzleloader, Gen Res + Youth	8	0	0	0	0	0	0	0	0	0	8
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	120	46	0	0	0	0	0	0	0	0	166
STWD Archery, Gen Res + Youth	171	43	0	9	0	0	0	0	0	0	223
STWD Archery, LO/Ten	16	0	0	0	0	0	0	0	0	0	16
WTAO, Gen Res + Youth	0	558	51	287	33	0	0	0	0	0	929
Whitetail Either Sex, Draw + Youth	380	24	0	8	0	0	0	0	0	0	412
Muzzleloader, Draw + Youth	63	8	0	0	0	0	0	0	0	0	71
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	37	7	0	8	0	0	0	0	0	0	52
HOL Special	32	0	0	0	0	0	0	0	0	0	32
HOL NR Tenant	18	0	0	0	0	0	0	0	0	0	18
Archery, Draw + Youth	692	44	0	0	0	0	0	0	0	0	736
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	118	13	47	28	0	0	0	0	0	206
Resident	3,518	1,601	78	485	67	9	17	0	0	0	5,775
Nonresident	1,222	201	13	63	28	0	0	0	0	0	1,527
Total	4,740	1,802	91	548	95	9	17	0	0	0	7,302

## 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	6	0	0	0	0	0	0	0	0	6
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	1,576	612	17	17	43	0	0	0	0	0	2,265
Whitetail Either Sex, LO/Ten	403	122	9	9	0	0	0	0	0	0	543
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	92	9	0	9	0	0	0	0	0	0	110
STWD Archery, Gen Res + Youth	135	40	0	0	0	0	0	0	0	0	175
STWD Archery, LO/Ten	23	8	0	0	0	0	0	0	0	0	31
WTAO, Gen Res + Youth	0	2,656	24	26	12	0	0	0	0	0	2,718
Whitetail Either Sex, Draw + Youth	308	16	0	0	0	0	0	0	0	0	324
Muzzleloader, Draw + Youth	47	8	0	0	0	0	0	0	0	0	55
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	37	7	0	0	0	0	0	0	0	0	44
HOL Special	32	17	0	0	0	0	0	0	0	0	49
HOL NR Tenant	18	0	0	0	0	0	0	0	0	0	18
Archery, Draw + Youth	406	45	0	0	0	0	0	0	0	0	451
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	476	26	15	0	0	0	0	0	0	517
Resident	2,229	3,453	50	61	55	0	0	0	0	0	5,848
Nonresident	848	569	26	15	0	0	0	0	0	0	1,458
Total	3,077	4,022	76	76	55	0	0	0	0	0	7,306

## 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	6	0	0	0	0	0	0	0	0	0	6
Any Deer, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Gen Res + Youth	675	169	8	8	0	0	0	0	0	0	860
Whitetail Either Sex, LO/Ten	152	54	0	0	0	0	0	0	0	0	206
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	18	0	0	0	0	0	0	0	0	101
STWD Archery, Gen Res + Youth	79	0	0	0	0	0	0	0	0	0	79
STWD Archery, LO/Ten	23	0	0	0	0	0	0	0	0	0	23
WTAO, Gen Res + Youth	0	1,940	0	51	106	0	0	0	0	0	2,097
Whitetail Either Sex, Draw + Youth	331	0	0	0	0	8	0	0	0	0	339
Muzzleloader, Draw + Youth	54	9	0	0	0	0	0	0	0	0	63
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	51	0	0	0	0	0	0	0	0	0	51
HOL Special	40	8	0	0	0	0	0	0	0	0	48
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery, Draw + Youth	487	23	0	0	0	0	0	0	0	0	510
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	478	0	0	0	0	0	0	0	0	478
Resident	1,018	2,181	8	59	106	0	0	0	0	0	3,372
Nonresident	963	518	0	0	0	8	0	0	0	0	1,489
Total	1,981	2,699	8	59	106	8	0	0	0	0	4,861

## 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	37	0	0	0	0	84	18	0	0	0	139
Any Deer, LO/Ten	0	0	0	0	0	19	7	0	0	0	26
Whitetail Either Sex, Gen Res + Youth	587	80	9	9	9	0	0	0	0	0	694
Whitetail Either Sex, LO/Ten	71	9	0	0	0	0	0	0	0	0	80
Muzzleloader, Gen Res + Youth	0	0	0	0	0	41	8	0	0	0	49
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	74	9	0	0	0	76	9	9	0	0	177
STWD Archery, Gen Res + Youth	107	0	0	8	0	97	0	0	0	0	212
STWD Archery, LO/Ten	23	8	0	0	8	8	0	0	0	0	47
WTAO, Gen Res + Youth	0	526	8	160	60	0	0	0	0	0	754
Whitetail Either Sex, Draw + Youth	162	7	0	0	0	0	0	0	0	0	169
Muzzleloader, Draw + Youth	39	8	0	0	0	0	0	0	0	0	47
Muzzleloader + Youth, ESES	0	0	0	0	0	19	0	0	0	0	19
HOL	29	0	0	0	0	8	0	0	0	0	37
HOL Special	8	0	0	0	0	8	0	0	0	0	16
HOL NR Tenant	9	0	0	0	0	0	0	0	0	0	9
Archery, Draw + Youth	116	0	0	0	0	0	0	0	0	0	116
Archery + Youth, ESES	8	0	0	0	0	13	0	0	0	0	21
WTAO	0	350	0	0	0	0	0	0	0	0	350
Resident	899	632	17	177	77	325	42	9	0	0	2,178
Nonresident	371	365	0	0	0	48	0	0	0	0	784
Total	1,270	997	17	177	77	373	42	9	0	0	2,962

## 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	12	12	0	0	0	18	0	0	0	0	42
Any Deer, LO/Ten	7	0	0	0	0	6	0	0	0	0	13
Whitetail Either Sex, Gen Res + Youth	201	33	8	0	0	0	0	0	0	0	242
Whitetail Either Sex, LO/Ten	53	0	0	0	0	0	0	0	0	0	53
Muzzleloader, Gen Res + Youth	16	0	0	0	0	16	0	0	0	0	32
Muzzleloader, LO/Ten	0	0	0	0	0	0	0	0	0	0	0
HOL	12	0	0	0	0	23	0	0	0	0	35
STWD Archery, Gen Res + Youth	40	16	0	0	0	16	0	0	0	0	72
STWD Archery, LO/Ten	16	0	0	0	0	0	0	0	0	0	16
WTAO, Gen Res + Youth	0	0	0	0	0	0	0	0	0	0	0
Whitetail Either Sex, Draw + Youth	59	0	0	0	0	0	0	0	0	0	59
Muzzleloader, Draw + Youth	8	0	0	0	0	0	0	0	0	0	8
Muzzleloader + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
HOL	7	0	0	0	0	0	0	0	0	0	7
HOL Special	0	0	0	0	0	8	0	0	0	0	8
HOL NR Tenant	0	0	0	0	0	0	0	0	0	0	0
Archery, Draw + Youth	66	0	0	0	0	0	0	0	0	0	66
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	357	61	8	0	0	79	0	0	0	0	505
Nonresident	140	0	0	0	0	8	0	0	0	0	148
Total	497	61	8	0	0	87	0	0	0	0	653

## Deer Management Unit 19

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	1,185	511	26	17	9	0	0	0	0	0	1,748
Whitetail Either Sex, LO/Ten	247	38	0	0	10	0	0	0	0	0	295
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	28	28	0	0	0	0	0	0	0	0	56
STWD Archery, Gen Res + Youth	132	19	0	0	0	0	0	0	0	0	151
STWD Archery, LO/Ten	16	0	0	0	0	0	0	0	0	0	16
WTAO, Gen Res + Youth	0	400	0	144	4	0	0	0	0	0	548
Whitetail Either Sex, Draw + Youth	0	0	0	0	0	0	0	0	0	0	0
Muzzleloader, Draw + Youth	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	7	0	0	0	0	0	0	0	0	0	7
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, Draw + Youth	51	0	0	0	0	0	0	0	0	0	51
Archery + Youth, ESES	0	0	0	0	0	0	0	0	0	0	0
WTAO	0	74	0	15	5	0	0	0	0	0	94
Resident	1,608	996	26	161	23	0	0	0	0	0	2,814
Nonresident	58	74	0	15	5	0	0	0	0	0	152
Total	1,666	1,070	26	176	28	0	0	0	0	0	2,966