

# BIG GAME HARVEST SURVEY RESULTS 2005-06 THRU 2017-18

# WHITE-TAILED DEER

**MULE DEER** 

**JAVELINA** 

COMPILED BY JON PURVIS TEXAS PARKS AND WILDLIFE DEPARTMENT 26 JULY 2018

#### **EXECUTIVE SUMMARY**

The big game harvest survey tracks hunter and harvest trends for javelina (*Pecari tajacu*), mule deer (*Odocoileus hemionus*), and white-tailed deer (*Odocoileus virginianus*) at the statewide, management unit, and ecoregion level. The survey has been run every year since the 1972-73 hunting season. The analysis methodology had numerous changes made to it this year, and the analysis was rerun back through the 2005-06 hunting season. Because of the changes, the estimates are not comparable to seasons before 2005-06.

A survey form was mailed to 50,000 random hunters on 2 February 2018. Additionally, 25,000 randomly selected hunters for which we had an email address were sent a link to the online version of the survey on 2 February 2018. The mail survey had a link to the online survey printed on it, and respondents could choose to respond by mail or online. The mail survey was closed on 6 July 2018, and the online survey on 15 June 2018. 5,301 mail survey recipients responded, of which 822 responded online. 2,200 email recipients responded. Only one mailing was sent, and non-respondents were not contacted by other means.

A demographic analysis of all license buyers was performed; the same analysis was done for survey respondents. 14 statistics were estimated for each species at 13 different analysis levels, as well as the 95% confidence intervals for the estimates.

Table 1. 2017-18 big game harvest estimates.

Statistic	Javelina	Mule Deer	White-tailed deer
Hunters	51,198	43,682	837,805
Success rate	46.98%	35.83%	60.57%
Female kill	15,227	2,257	411,200
% Female Kill	40.47%	12.81%	44.79%
Male kill	22,399	15,362	506,809
% Male Kill	59.53%	87.19%	55.21%
Total kill	37,626	17,620	918,009
Kill per hunter	0.73	0.40	1.10
Hunter days	276,625	235,651	10,279,731
Days per hunter	5.40	5.39	12.27
Days per kill	7.35	13.37	11.20
Hunters per 1000 acres	0.45	0.39	7.39
Days per 1000 acres	2.44	2.08	90.64
Kill per 1000 acres	0.33	0.16	8.09

#### **SURVEY PURPOSE**

The main purpose of the survey is to track hunter and harvest trends for white-tailed deer (*Odocoileus virginianus*) at the statewide level, as well as unit (n = 44) and ecoregion (n = 12) levels. Mule deer (*Odocoileus hemionus*), and javelina (*Pecari tajacu*) are also tracked, but because of the smaller number of hunters, estimates below the statewide level may lack statistical power. The survey asks if the recipient hunted the targeted species, unit and counties hunted in, number of days spent hunting in each county, and sex and date of harvest of each individual harvested. Additionally, weapon usage is tracked for all species, and the harvest tag for mule deer and white-tailed deer. Harvest chronology and the demographics of license buyers and survey respondents are also analyzed.

#### HISTORIC SURVEY CHANGES

Prior to the 1972-73 deer hunting season, harvest estimates for white-tailed deer and mule deer were derived from a variety of methods including landowner surveys, game warden estimates, shooting preserve record books, and antlerless deer permit utilization. The one historic method that utilized statistical theory was based on interviews with randomly selected landowners who provided harvest estimates for their property.

The big game harvest survey in its current format was first done after the 1972-73 hunting season. Through the 1977-78 season, harvest data on white-tailed deer, mule deer, and the fall season of wild turkey (*Meleagris gallopavo*) was collected. Starting with the 1978-79 hunting season, harvest data on javelina was also collected. Wild turkey was removed after the 2004-05 hunting season, as it was also being surveyed on the Small Game Harvest Survey, and the duplication was seen as unnecessary. Starting with the 1999-00 hunting season, a question regarding types of weapons (rifle, archery, muzzleloader, and other) used in white-tailed deer hunting was added to the survey. Starting in 2015-16, the type of hunting tag used on white-tailed deer was asked.

Prior to the 1997-98 hunting season, the sample frame was license buyers from the previous year. Since the 1997-98 season, the point-of-sale license database has allowed us to draw the sample from the current year's buyers. There is a correction factor built into the analysis that accounts for this change in order to make the historic and current estimates comparable. Telephone follow-up of a limited number of non-respondents was performed in 1973, 1974, 1975, and 1977, and again in 2006 and 2007 in order to correct for non-response bias. The correction calculated in 2007 was retroactively applied back to the 2000-01 hunting season data, and thus data before the 2000-01 season is not strictly comparable with that from later seasons.

Starting with the 2016-17 season, the management unit that mule deer and white-tailed white were hunted in was asked. As these are not based on county boundaries, a map was added to the survey for each. This required a change in the survey form, and they are now printed on a custom form by a contract printer. Because the form change meant more space was available, the hunting tag use was added to mule deer, and weapon use added to mule deer and javelina. The area available for comments was also expanded. Due to interest in moving the survey to an online format, parallel mail and online surveys were run after the 2016-17 season. The instructions and questions were the same; the only difference was that the online survey skipped certain questions if they did not hunt one of the three species. While updating the code to handle the new questions and the online survey, the code underwent a significant review. Portions that were no longer needed were removed, and many sections were rewritten for clarity, conciseness, and to take advantage of improvements in SAS. Numerous additional analyses were added, and a more accurate manner of calculating confidence interval computations was introduced.

All data for the 1975-76 season was lost during the changeover from mainframe to PC in 1998. In order to give a continuous trend line, estimates before the 1976-77 season are not reported unless specifically requested.

#### CHANGES IMPLEMENTED FOR THE 2017-18 SEASON

Prior to the 2017-18 hunting season, numerous changes were made to the survey methodology and analysis.

First, the decision was made to send only a single mailing, but double the sample size. Because the first mailing gets a better response rate than the second, this would gain more responses, but end up costing about the same amount. A correction factor for having only one mailing was placed in the code to offset the lack of a second mailing.

Second, there were concerns that the responses had an age bias. It has long been known that survey respondents are older on average than the license buying population. It has been suggested that older hunters are less active, but may have access to better leases, and thus be more successful. There is also a known response bias by the license type purchased by respondents, but this is thought to be due to age. The actual effect on the estimates from the age bias is unknown. In order to combat this, a new analysis that stratified by seven age groups was made. The stratification occurs during analysis - the data are weighted by strata and the results of each strata are combined to get the final estimates.

Third, with the response rates continuing to fall, the number of responses was no longer adequate for some analyses. For the 2016-17 survey, the online responses were kept separate, and not used in the final analysis. It has been decided that in the future, all responses will be used, regardless of how gained.

Fourth, the non-response bias correction factor calculated in 2007 was likely to no longer be accurate. However, due to lack of funding, a telephone follow-up to calculate a new correction factor is unlikely to happen any time soon. Thus, rather than continue to use an out of date correction, it was decided to discontinue its use.

The new analysis was run on all seasons going back to 2005-06. It is expected that when the older sales data is put into the correct format, 2001-02 through 2004-05 will also be recalculated. The sales data do not exist for seasons earlier than 2001-02, and so the stratified analysis cannot be done on them. Due to the many changes in the survey methodology, the estimates derived from the new methodology are not comparable to the older analyses. Older estimates will no longer be displayed in public reports, and when given out, should come with warnings that they are not comparable.

#### SURVEY METHODOLOGY

The mail survey form was developed by Big Game and Technical Programs staff with assistance from TPWD Creative Services. It is printed by a contract printer on a custom form, and a post-paid envelope is supplied in which to return the survey. The last day of the white-tailed deer season was 28 February 2018. However, little harvest happens after 1 February of each year, and so the survey was sent out of 2 February 2018. The survey instructed them to wait until all hunting activity was finished before returning the survey.

The sample frame was all 2017-18 hunting season license buyers that had bought a license that qualified them to hunt deer or javelina. Of the 1,146,143 that had bought a license by this date, 50,000 with a U. S. mailing address were randomly chosen to receive a mail survey. Non-respondents were not contacted through other means. The survey was closed on 6 July 2018. Technical Program staff entered the data from returned mail surveys using custom data entry programs written in Delphi XE6.

The online survey was developed in SelectSurvey.net. Other than skipping appropriate questions if they did not hunt a species, it replicates the mail survey. After the mail survey sample was pulled, an additional 25,000 random hunting license buyers that had provided an email address were pulled. The GovDelivery email service was used to send each an email with a request to take the survey on 2 February 2017. Each email contained a link to the online survey and a survey ID number they were to input in the first question to the survey. The survey was closed on 15 June 2018. The online data were downloaded, cleaned, parsed, and then uploaded to

the database server. To combat potential fraudulent responses, all surveys that gave an invalid survey ID number were discarded, as were any surveys that contained a duplicated survey number.

The data were stored in an MS-SQL 2008 database (server = tpwd-aav-sqlpro\wltech; database = Surveys; tables = BGSample, BGHunted, BGHarvest, BGWeaponUse). All cleaning, parsing, and analysis was done using custom programs written in SAS EG 6.1.

#### ANALYSIS METHODOLOGY

A stratified analysis of the complete population was performed. All returns were assigned to one of seven strata based on the age of the person, and weights assigned to each based on the relative number of that strata in the population and returns.

Analyses include purchase chronology, number of each license purchased, demographics (gender, age distribution, mean age, and youth or adult) and location (TX county, state, and country of residence, TX residential status, and urban or rural county for US residents) and submission of an email address. The demographic and location analysis was also run on the respondents to check for potential bias.

The statewide daily and weekly harvest chronology for each species and sex was calculated, as well as the distribution of days hunted and total harvest by species. No analysis of the comments written on the surveys were made, but all comments were attached to the final report.

A stratified harvest analysis was done at the statewide level for all species. All returns were assigned to one of seven strata based on the age of the person, and weights assigned to each based on the relative number of that strata in the population and returns. Analyses at the mule deer management unit (n = 5) and white-tailed deer management units (n=44) were also made; there are no javelina management units. Javelina and mule deer were analyzed at the traditional ecoregion level (n = 10), which is based on county aggregations. White-tailed deer were analyzed at a separate ecoregion level (n = 12) that is based on management unit aggregation. For mule deer and white-tailed deer, an analysis by the antler restriction group (n = 11) was made. An additional analysis based on the hunter gender, youth or adult status, and Texas resident or non-resident status was performed at the statewide level.

For each species and analysis unit combination, 14 estimates and the 95% confidence intervals on the estimates were computed. The estimates are: hunters, hunter days, days per hunter, male game harvest, percent male harvest, female game harvest, percent female harvest, total harvest, mean kill per hunter, mean days per kill per hunter, and success rate. At the statewide level only, hunters, days, and kill per 1,000 acres of habitat were also calculated.

The subunit estimates of hunter days and kill are a portion of the statewide estimate and sums up to statewide estimate at each level. These estimates are calculated by proportioning out the statewide estimate based on statistics of returned survey samples. Subunit hunter estimates are calculated differently because many hunters hunt in more than one subunit. To calculate the correct hunter estimate for each subunit, the number of hunters from returned survey samples for a subunit was divided by total number of hunters in the survey sample and then multiplied by the statewide hunter estimate.

The percent of hunters using each of four weapon types (archery including crossbows, muzzleloader, rifle, and other), mean number days each was used, and percent killed by weapon type was calculated for each species at the statewide level. These were then expanded by the total number of hunters, days, or kills to get the weapon use estimates. The percent usage of each tag type used on mule deer (antlerless, hunting license, managed lands deer permit, and public hunting tag) and white-tailed deer (hunting license, managed lands deer permit, and public hunting tag) was calculated at the statewide level and expanded to get an estimate of total kill by tag type.

### **RESULTS**

Selected results are placed in this report; the most recent report can be downloaded from our website at (<a href="http://tpwd.texas.gov/publications/huntwild/hunt/">http://tpwd.texas.gov/publications/huntwild/hunt/</a>). For other results, or to have special analyses performed, contact Wildlife Technical Programs at <a href="http://tpwd.texas.gov">hunt@tpwd.texas.gov</a>.

## **Ecological Areas of Texas**

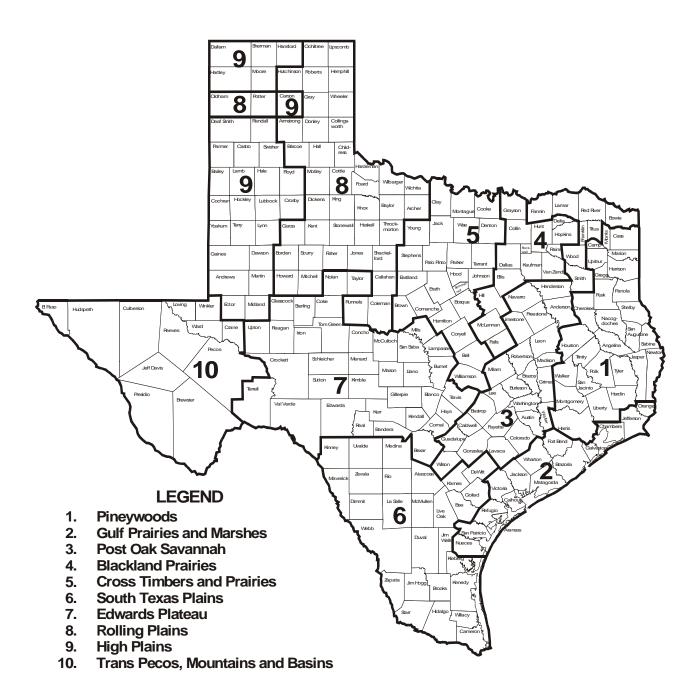


Table 1. 2017-18 big game harvest survey parameters.

	, ,		
Unique license buyers	1,146,143		
Provided email	156,321	13.64%	
Did not provide email	989,822	86.36%	
	<b>.</b>	0 !:	
	Mail	Online	
Date first mailing	2-Feb-2018	2-Feb-2018	
Date survey closed	6-Jul-2018	15-Jun-2018	
	Mail*	Online	Combined
Mailed	50,000	25,000	75,000
Responses	5,301	2,200	7,501
Undeliverable	3,849	2,867	6,716
Non-responses	40,850	19,933	60,783
Return rate	11.49%	9.94%	10.99%

st Includes 822 (15.51%) that were mailed a physical survey form, but chose to respond online.

Table 2. Statewide javelina harvest estimates. Estimates are not comparable to those before 2005-06 due to methodology changes.

Season	S	uccessful		<u>Hunters</u>			Days		Tot	tal Harvest		
•	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI
2005-06	58.37%	51.27%	65.47%	31,371	26,896	35,846	255,902	181,249	330,554	40,871	16,038	65,705
2006-07	52.27%	45.21%	59.32%	29,608	25,506	33,709	211,450	156,352	266,548	21,624	16,870	26,377
2007-08	55.65%	48.35%	62.94%	30,692	26,345	35,038	185,246	143,089	227,404	27,020	20,813	33,227
2008-09	56.44%	49.51%	63.38%	34,638	29,959	39,316	226,243	173,845	278,640	37,256	26,769	47,744
2009-10	58.99%	52.76%	65.21%	36,444	31,912	40,975	271,483	196,219	346,747	32,088	25,809	38,367
2010-11	55.84%	49.24%	62.43%	30,837	26,744	34,930	217,448	166,057	268,838	28,051	21,803	34,300
2011-12	57.20%	50.29%	64.11%	30,550	26,295	34,805	195,852	153,423	238,282	29,558	22,419	36,698
2012-13	62.78%	54.95%	70.62%	25,469	21,372	29,566	197,440	146,675	248,205	24,093	18,128	30,057
2013-14	62.95%	53.99%	71.92%	23,780	19,488	28,072	150,250	107,639	192,861	23,180	16,314	30,046
2014-15	56.06%	47.85%	64.27%	30,603	25,667	35,539	182,429	136,285	228,573	25,114	19,219	31,009
2015-16	50.38%	42.00%	58.75%	33,731	28,195	39,267	287,892	199,465	376,319	23,675	17,947	29,402
2016-17	43.97%	37.93%	50.01%	61,025	53,848	68,202	390,268	307,980	472,556	41,354	32,727	49,981
2017-18	46.98%	40.58%	53.39%	51,198	44,883	57,513	276,625	223,616	329,634	37,626	29,496	45,757
Average	55.22%	47.99%	62.45%	34,611	29,778	39,444	234,502	176,300	292,705	30,116	21,873	38,359

Table 3. 2017-18 javelina harvest estimates by ecoregion.

Ecoregion	S	Successful			Hunters		Days				Harvest		
	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	_	Estimate	L95CI	U95CI
Gulf Prairies	33.33%	0.00%	100.00%	617	3	3,447	8,300	49	17,190		172	1	471
Post Oak Savannah	40.00%	0.00%	100.00%	1,028	5	4,667	8,978	53	18,047		515	3	1,185
South Texas Plains	64.20%	54.94%	73.46%	33,310	20,940	45,679	165,839	131,572	200,107		26,974	22,073	31,875
Edwards Plateau	48.00%	27.58%	68.42%	10,281	50	20,674	62,846	43,193	82,500		6,185	3,830	8,540
Rolling Plains	66.67%	13.31%	100.00%	1,234	6	5,212	10,672	1,466	19,878		1,546	9	3,214
Trans-Pecos	30.43%	0.00%	67.26%	4,729	23	12,241	19,989	10,487	29,490		2,234	225	4,242

Table 4. 2017-18 javelina hunter weapon usage, regardless of success.

Weapon		Report	ed Use		Estimated Hunters				
	Count	Percent	L95CI	U95CI	 Estimate	L95CI	U95CI		
Archery	51	19.17%	14.41%	23.93%	9,816	7,378	12,253		
Muzzleloader	1	0.38%	0.00%	1.12%	192	0	571		
Other	4	1.50%	0.03%	2.98%	770	16	1,523		
Rifle	223	83.83%	79.38%	88.29%	42,920	40,640	45,200		

Table 5. 2017-18 javelina hunter mean weapon days, regardless of success.\*

Weapon		Reporte	d Use		Estimated Days
	Count	Mean	L95CI	U95CI	Estimate L95Cl U95Cl
Archery	51	4.45	3.37	5.53	227,872 172,380 283,365
Muzzleloader	1	5.00			255,980
Other	4	13.75	0.00	35.43	703,945 0 1,813,724
Rifle	223	6.68	5.61	7.74	341,842 287,412 396,273

<sup>\*</sup> Of those that reporting using it at least one day.

Table 6. 2017-18 javelina harvest weapon.

Weapon		Report	ed Use			Est	timated Har	vest	
	Count	Percent	L95CI	U95CI	Est	timate	L95CI	U95CI	
Archery	30	17.13%	10.88%	23.37%		6,445	4,095	;	8,795
Other	1	0.93%	0.00%	2.75%		348	0	;	1,036
Rifle	119	81.94%	75.51%	88.38%	3	30,832	28,411	3	3,252

Table 7. Statewide mule deer harvest estimates. Estimates are not comparable to those before 2005-06 due to methodology changes.

Season	S	uccessful		Hunters			Days		Harvest			
	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI
2005-06	41.00%	32.48%	49.51%	21,597	18,037	25,158	106,867	81,045	132,688	9,690	7,123	12,257
2006-07	33.09%	25.73%	40.45%	24,070	20,361	27,779	86,218	66,895	105,542	8,278	6,039	10,517
2007-08	36.27%	28.69%	43.86%	24,337	20,541	28,133	106,448	84,016	128,880	9,188	6,775	11,602
2008-09	38.28%	30.56%	45.99%	24,241	20,485	27,997	123,711	85,969	161,453	9,525	7,077	11,973
2009-10	40.21%	33.31%	47.10%	26,849	23,033	30,664	123,488	98,771	148,205	12,243	9,219	15,266
2010-11	41.23%	34.45%	48.00%	28,068	24,263	31,873	121,125	95,660	146,590	12,154	9,613	14,694
2011-12	28.26%	21.54%	34.99%	23,452	19,900	27,003	114,615	89,348	139,882	7,503	5,182	9,825
2012-13	33.71%	25.04%	42.37%	17,944	14,750	21,138	89,455	69,296	109,614	8,709	3,563	13,855
2013-14	33.61%	25.08%	42.15%	22,448	18,348	26,548	100,449	75,184	125,715	7,795	5,382	10,209
2014-15	32.67%	24.50%	40.85%	26,362	21,792	30,932	137,659	106,019	169,300	9,723	6,448	12,999
2015-16	37.26%	27.45%	47.07%	24,433	19,776	29,090	138,353	96,525	180,181	10,600	6,999	14,200
2016-17	33.81%	27.16%	40.47%	47,999	41,445	54,552	219,662	178,860	260,465	18,062	13,378	22,746
2017-18	35.83%	29.38%	42.28%	43,682	37,900	49,464	235,651	193,813	277,488	17,620	13,101	22,138
Average	35.79%	28.11%	43.47%	27,345	23,125	31,564	131,054	101,646	160,462	10,853	7,685	14,022

Table 8. 2017-18 mule deer harvest estimates by management unit.

Unit	Successful			Н	Hunters				Days		Harvest			
	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI		Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	
High	48.48%	23.19%	73.78%	7,317	33	17,005		52,021	35,839	68,204	4,353	2,533	6,174	
Medium	38.57%	19.86%	57.28%	15,522	3,105	27,938		91,608	70,140	113,075	6,012	4,294	7,729	
Low	28.00%	3.59%	52.41%	11,087	50	22,377		50,778	38,746	62,810	3,524	1,912	5,136	
Very Low	40.91%	17.53%	64.28%	9,756	44	20,562		41,244	30,947	51,541	3,731	2,462	5,001	

Table 9. 2017-18 mule deer harvest estimates by ecoregion.

Ecoregion	Successful			H	Hunters			Days				Harvest		
	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI		Estimate	L95CI	U95CI	_	Estimate	L95CI	U95CI
Edwards Plateau	31.43%	2.65%	60.21%	6,344	35	15,485		40,179	25,427	54,932		2,158	1,038	3,278
Rolling Plains	22.50%	2.65%	42.35%	14,500	2,283	26,717		79,511	58,571	100,452		3,416	2,045	4,787
High Plains	35.14%	8.12%	62.15%	6,706	37	16,059		32,720	19,369	46,071		2,517	1,320	3,714
Trans-Pecos	51.69%	37.08%	66.29%	16,132	3,611	28,652		83,241	64,513	101,969		9,529	6,873	12,185

Table 10. 2017-18 mule deer hunter weapon usage, regardless of success.

Weapon		Report	ed Use		Estir	ters	
	Count	Percent	L95CI	U95CI	Estimate	L95CI	U95CI
Archery	37	15.29%	10.72%	19.86%	6,678	4,684	8,673
Muzzleloader	2	0.83%	0.00%	1.98%	361	0	863
Other	1	0.41%	0.00%	1.23%	180	0	536
Rifle	225	92.98%	89.73%	96.22%	40,612	39,195	42,028

Table 11. 2017-18 mule deer hunter mean weapon days, regardless of success.\*

Weapon		Report	ed Use		Estimated Days	
	Count	Mean	L95CI	U95CI	Estimate L95CI U95C	I
Archery	37	5.27	3.88	6.66	230,205 169,509 29	90,902
Muzzleloader	2	1.50	0.00	7.85	65,520 0 34	13,024
Other	1	40.00	0.00		1,747,200 0	
Rifle	225	4.95	4.42	5.47	216,070 193,202 23	38,939

<sup>\*</sup> Of those that reporting using it at least one day.

Table 12. 2017-18 mule deer harvest weapon.

Weapon		Report	ed Use		Estin	nated H	arve	st
	Count	Percent	L95CI	U95CI	Estimate L	U95CI		
Archery	4	3.88%	0.07%	7.69%	684		13	1,355
Muzzleloader	0	0.00%	0.00%	0.00%	0			
Other	0	0.00%	0.00%	0.00%	0			
Rifle	92	96.12%	92.31%	99.93%	16,935	16,2	64	17,606

Table 13. 2017-18 mule deer harvest tag usage.

Tag		Report	ed Use			vest		
	Count	Percent	L95CI	U95CI		Estimate	L95CI	U95CI
Antlerless	3	3.96%	0.00%	8.68%		698	C	1,530
Hunting License	54	55.45%	44.83%	66.06%		9,769	7,899	11,639
MLDP	33	36.63%	26.27%	46.99%		6,454	4,629	8,280
WMA / Public Hunt	4	3.96%	0.08%	7.85%		698	13	1,382

Table 14. Statewide white-tailed deer harvest estimates. Estimates are not comparable to those before 2005-06 due to methodology changes

Season	S	uccessful			Hunters			Days	Т	Total Harvest		
	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI
2005-06	60.71%	59.22%	62.21%	637,323	625,423	649,224	6,166,547	5,918,280	6,414,814	697,369	659,593	735,146
2006-07	61.02%	59.55%	62.50%	637,094	625,277	648,911	6,196,288	5,956,009	6,436,568	671,026	642,830	699,223
2007-08	60.36%	58.80%	61.93%	595,795	583,396	608,193	5,850,266	5,602,338	6,098,194	607,453	582,463	632,443
2008-09	62.92%	61.45%	64.38%	665,478	653,344	677,612	6,800,935	6,534,617	7,067,252	725,268	695,499	755,038
2009-10	56.87%	55.45%	58.30%	665,782	654,281	677,283	7,430,548	7,150,610	7,710,485	645,839	617,320	674,358
2010-11	61.21%	59.85%	62.57%	689,649	678,235	701,063	7,528,070	7,258,846	7,797,294	731,085	704,980	757,191
2011-12	58.88%	57.45%	60.31%	677,923	666,244	689,602	7,303,688	7,044,855	7,562,520	677,495	646,202	708,787
2012-13	60.37%	58.86%	61.89%	650,167	637,349	662,986	6,959,306	6,689,369	7,229,243	641,619	614,585	668,654
2013-14	58.99%	57.38%	60.60%	712,873	698,112	727,634	8,158,064	7,827,143	8,488,984	775,989	663,521	888,456
2014-15	56.34%	54.69%	57.98%	727,843	712,789	742,897	8,395,717	8,054,225	8,737,208	702,925	667,216	738,635
2015-16	57.33%	55.54%	59.13%	679,922	664,078	695,766	7,091,272	6,773,852	7,408,692	657,617	622,484	692,750
2016-17	57.28%	55.71%	58.84%	849,818	835,679	863,957	10,507,987	10,088,801	10,927,173	953,615	883,083	1,024,147
2017-18	60.57%	59.10%	62.04%	837,805	825,359	850,250	10,279,731	9,914,065	10,645,396	918,009	876,629	959,389

Table 15. 2017-18 white-tailed deer harvest estimates by management unit.

Decomposity   Property   Prop	Table 15. 2017-18 whi			imates by m		Davis Hamist							
1	Unit					Hunters			Days			Harvest	
2         96.77%         90.43%         100.00%         4,716         2,775         6,657         3,774         2,772         12,725         12,243         4,941         11,537           3         81.59%         70.99%         9,889         7,878         11,5474         82,772         1,812         12,431         8,431         4,531           4         81.29%         7,73%         86.51%         5,444         4,808         60,860         60,560         593,795         80,367         63,888         60,701         9,908           6         82,62%         77,73%         86,53%         53,399         47,062         59,737         551,343         47,826         62,4880         81,813         69,189         94,411           7 North         70,28%         63,287         77,28%         63,247         30,212         313,179         439,295         31,511         25,244         31,277         75,000           8 Ewst         70,27%         77,28%         60,245         53,543         66,671         66,721         38,941         73,344         83,13         69,187         46,521         28,894         73,344         83,34         83,627         66,203         21,336         46,624         68,72													
31         48         79.99%         92.09%         9,889         70.687         12,691         11,5474         82,772         1148.175         12,431         8,491         16,371           5         82,12%         77,378         86,51%         54,664         48,068         60,860         56,6697         459,660         81,21%         77,73%         86,51%         54,664         48,068         60,860         56,6697         459,660         81,313         62,908         92,034           7 North         70,39%         63,38%         77,40%         35,447         30,225         40,670         368,826         30,635         431,347         39,027         31,627         46,427           7 South         67,29%         63,64%         74,92%         33,013         27,966         80,617         33,341         73,484         83,981         33,511         23,244         37,788           8 West         80,72%         67,75%         77,80%         60,248         23,690         279,932         21,640         325,824         41,199         30,927         31,479           10         60,02%         73,837         74,348         12,254         20,818         29,600         279,932         21,640         325,824					,	,		,					
4         81.29%         74.45%         88.13%         23.581         19.90         27.872         24.66%         19.878         199.939         35.125         25.388         44.892           5         81.21%         77.73%         86.51%         53.999         47.062         59.6737         551.343         477.826         62.4860         81.813         69.484         44.441           7 North         70.39%         63.88%         77.40%         30.215         20.966         38.061         376.217         313.179         439.027         31.627         46.427           7 South         67.28%         75.7%         77.80%         60.245         53.543         66.947         669.17         583.941         753.488         43.981         62.627         95.1469           8 West         80.72%         74.02%         87.3%         25.254         20.818         26.607         27.9982         21.6040         325.824         41.195         30.922         51.469           9         70.80%         61.21%         14.194         10.00         17.491         19.600         17.491         19.600         17.491         19.600         17.491         19.600         17.491         19.600         17.491         19.600													
Section         82.12%         77.73%         86.51%         54.646         48.068         60.860         52.6697         49.9600         593.795         80.367         69.01         92.934           7 North         70.39%         63.38%         77.40%         35.447         30.25         40.670         36.832         306.305         431.347         39.027         31.627         46.427           7 North         67.28%         59.64%         74.92%         33.013         27.966         36.661         376.313         31.319         49.929         31.511         25.244         377.288           8 West         67.27%         77.28%         60.245         25.543         66.947         668.712         533.941         753.484         83.981         68.267         99.695           8 West         60.72%         67.27%         77.88%         60.245         25.543         66.947         668.712         533.941         753.484         83.981         68.267         99.695           8 West         60.02%         77.38%         13.08         69.607         74.91         196.305         14.615         24.955         15.466         99.03         21.304           11         6.607%         55.21%         76.93						,							
6         82.62%         88.25%         88.25%         88.25%         85.399         47.062         59.737         551.343         477.826         624.860         81.813         69,184         94.44         74.947           7 South         67.28%         59.64%         74.92%         33.013         27.966         38.061         376.237         113.179         439.295         31.511         25.244         37.788           8 East         72.73%         77.57%         77.88%         60.245         53.543         66.947         66.8712         53.941         75.348         83.981         66.267         99.695           9         70.80%         61.71%         79.90%         20.842         10.800         27.941         196,305         14.055         248.555         15.66         9.803         21.366           10         60.22%         47.28%         74.34%         73.379         42.010         12.328         14.055         248.555         15.66         9.803         21.140           11         66.04%         59.62%         72.46%         45.73         45.337         72.070         12.618         15.130         22.411         13.366         14.015         24.82.45         46.544         38.743						,	,		,				
North         70.39%         63.38%         77.40%         33.447         30.225         40,670         368,826         30.503         431,347         39,027         31,627         42,427           8 East         72.73%         67.57%         77.88%         60.245         53,543         66,947         668,712         58.341         753,484         83,981         68,267         90,695           8 West         80.277         74,02%         87.43%         25,254         20,818         29,690         770,932         216,040         325,824         41,195         30,922         51,499           9         70.00%         61.71%         79.90%         20,842         16,802         24,883         213,366         160,551         266,184         22,933         17,299         22,726           10         60.224         72,81%         11,149         10,806         17,491         196,305         144,055         248,555         15,466         9,803         21,326           11         66.07%         55,21%         76,39%         17,039         13,377         20,701         16,300         25,418         14,310         10,288         23,227           13         50,384         50,37%         70,99%					,	,		,		,	,		
South         67.28%         59.64%         74.2%         33.013         27.966         38.061         376.237         31.5179         439.295         31.511         25.244         37.778           8 West         80.72%         74.02%         87.43%         65.245         53.543         66.947         668.712         583.941         75.3484         83.981         68,267         99.695           8 West         80.72%         74.02%         87.43%         25.224         20,818         29.695         270.922         216,640         325,224         41,195         30,922         51.469           10         60.2%         47.28%         73.15%         14,149         10,806         17.491         19.655         144,055         22,893         17.239         28,726           11         66.04%         59.62%         72.46%         48,379         42,327         64,300         752,302         640,057         864,347         46,544         38,743         84,344           12         66.04%         59.62%         72.46%         48,379         42,327         65,985         16,000         254,042         18,7801         320.283         91.06         6,757         17,101           13         14 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>													
REast         72,73%         67,57%         77,88%         69,245         53,543         66,947         668,712         58,341         753,484         83,981         68,267         99,695           9         70,80%         61,71%         79,90%         20,842         16,802         24,883         213,368         160,551         266,184         22,983         17,239         28,726           10         60,22%         47,28%         73,15%         14,149         10,806         17,491         196,305         144,655         248,555         1,546         69,803         21,130           11         66,07%         55,21%         75,93%         17,039         13,377         20,701         216,815         161,193         272,436         16,767         10,258         23,277           13         59,89%         42,97%         70,99%         1,3084         9,867         16,300         254,041         187,801         230,838         99,106         61,955         12,018           14         59,23%         52,88%         53,332         52,677         65,988         989,453         875,236         1,103,670         47,411         40,300         54,472           15         52,88%         42,014 <t< td=""><td>7 North</td><td>70.39%</td><td>63.38%</td><td>77.40%</td><td>35,447</td><td>30,225</td><td></td><td>368,826</td><td>306,305</td><td>431,347</td><td>39,027</td><td>31,627</td><td>46,427</td></t<>	7 North	70.39%	63.38%	77.40%	35,447	30,225		368,826	306,305	431,347	39,027	31,627	46,427
BWest         80.72%         74.02%         87.33%         25,254         20,818         29,690         270,932         216,040         325,824         41,195         30,922         51,469           10         60.2%         47.28%         73.15%         14,149         10.806         17,491         196,005         144,055         248,555         15,466         9,803         21,130           11         66.04%         59,62%         72.46%         48,379         42,227         54,430         752,302         640,057         864,547         46,544         38,743         54,344           12         66.04%         59,62%         70,99%         13,034         9,867         16,300         254,042         187,801         320,283         9,106         61,958         42,472           13         56,98%         42,937         70,99%         13,084         9,867         16,300         254,042         187,801         320,283         9,106         61,958         44,422           15         61,02%         44,66%         77,18%         89,76         20,014         11,955         32,850         15,650         9,862         51,791         21,430           18         56,44%         43,45%         69,42%<	7 South					27,966			313,179	439,295		25,244	
9	8 East	72.73%	67.57%	77.88%	60,245	53,543	66,947	668,712	583,941	753,484	83,981	68,267	99,695
10         60.22%         47.28%         73.15%         14,149         10,806         17.491         196,305         144,055         248,555         15,466         9,803         21.130           11         66.04%         59.62%         72.46%         48,379         42,327         54,340         752,322         640,057         864,547         46,544         38,733         54,344           12         66.07%         55.21%         76.93%         17,039         13,377         20,701         216,815         161,133         272,436         16,767         10,258         23,277           13         66.07%         55.23%         59.332         52,677         16,300         254,042         187,801         320,083         9,106         6,105         12,128           15         68.40%         47.01%         69.79%         19,017         15,153         22,881         321,085         254,110         388,061         14,310         10,501         18,119           16         61,025         46,34%         63.79%         20,082         16,114         24,050         300,576         240,014         361,338         31,306         10,322         17,301           18         50,566         43,348         43	8 West	80.72%	74.02%	87.43%		20,818			216,040	325,824	41,195	30,922	51,469
11       66,04%       59,62%       72,46%       48,379       42,327       54,330       752,302       640,057       646,547       46,544       38,743       52,327         13       56,98%       42,97%       70,99%       13,084       9,867       16,300       254,042       187,801       320,283       9,106       6,195       12,018         14       59,23%       52,88%       65,58%       59,332       52,677       65,988       988,943       875,236       1,103,670       47,411       40,350       54,722         15       61,02%       44,86%       77,18%       8,96       6,305       11,647       119,955       83,850       156,059       8,962       5,179       12,745         17       57,58       46,39%       68,76%       20,082       16,114       24,050       300,756       240,014       361,138       13,876       10,322       17,455         18       56,44%       43,45%       69,72%       15,366       11,385       20,862       207,328       169,750       284,906       11,419       8,881       14,757         19 North       49,56%       36,34%       32,34%       31,385       20,082       16,114       24,050       26,727	9	70.80%	61.71%	79.90%	20,842	16,802	24,883		160,551	266,184	22,983	17,239	28,726
12         66.07%         55.21%         76.93%         17.039         13,377         20,701         216,815         16.193         227,436         16,767         10,258         23,277           13         56.98%         42.97%         70.99%         13,084         9,867         16,300         254,042         187,801         320,283         9,106         6,195         12,018           14         59.23%         52.88%         65.58%         59,332         52,677         65,988         989,453         875,236         1,103,670         47,411         40,350         54,472           15         61.02%         44.86%         77.18%         8,976         63,05         11,647         119,955         83,850         156,059         8,962         5,179         12,745           17         57.58%         46,39%         68,76%         20,082         16,114         24,050         300,576         240,014         361,138         13,876         10,322         17,430           18         56,44%         43,45%         69,42%         15,366         11,885         18,847         227,328         169,750         284,906         11,419         8,081         14,757           19 North         49,56%         3	10	60.22%	47.28%	73.15%	14,149	10,806	17,491	196,305	144,055	248,555	15,466	9,803	21,130
13         56.98%         42.97%         70.99%         13,084         9,867         16,300         254,042         187,801         32,0283         9,106         6,195         12,018           14         59.23%         52.88%         65.58%         59,332         52,677         65,988         898,433         875,236         1,103,670         47,411         40,350         54,472           15         58.40%         47,014         69,79%         19,017         15,153         22,881         321,085         25,4110         388,061         14,310         10,501         18,119           16         61.02%         46.86%         77.18%         8,966         6,305         11,647         119,955         83,850         156,059         8,962         5,179         12,745           18         56.44%         43,45%         69,42%         15,366         11,885         18,847         227,328         169,750         284,906         11,130         7,112         14,548           19 South         60.61%         49,56%         36,34%         62,77%         17,191         13,513         20,869         200,786         151,892         249,680         11,130         7,712         14,548           19 South	11	66.04%	59.62%	72.46%	48,379	42,327	54,430	752,302	640,057	864,547	46,544	38,743	54,344
14         59.23%         52.88%         65.58%         59.332         52.677         65.988         989.453         875.236         1,103.670         47.411         40,350         54,472           15         58.40%         47.01%         69.79%         19,017         15,153         22,881         321,085         254,110         388,061         14,310         10,501         18,119           16         61.02%         44.86%         77.18%         8,976         6,305         11,647         119,955         83,850         156,059         8,962         5,179         12,745           18         56.44%         43.45%         69.42%         15,366         11,885         18,867         200,786         151,892         249,968         11,419         71,450           19 North         45.56%         36.34%         62.77%         17,191         13,513         20,869         200,786         151,892         249,968         11,130         7,712         14,548           19 North         45.56%         49.38%         71,38%         20,082         16,114         24,050         264,727         210,518         318,937         15,611         11,655         19,567           20         72.26%         45.80	12	66.07%	55.21%	76.93%	17,039	13,377	20,701	216,815	161,193	272,436	16,767	10,258	23,277
15         58.40%         47.01%         69.79%         19,017         51,513         22,881         321,085         254,110         388,061         14,310         10,501         18,119           16         61.02%         44.86%         77.18%         8,976         6,305         11,647         11,955         38,350         156,059         8,962         10,321         17,430           18         56.44%         43.45%         69.42%         15,366         11,885         18,847         227,328         169,750         284,906         11,419         8,081         14,757           19 North         49.56%         36.34%         62.77%         17,191         13,513         20,869         200,786         15,1892         249,660         11,419         8,081         14,757           19 South         66.61%         49.83%         71,38%         20,002         15,114         24,050         264,273         210,166         257,300         12,575         8,739         16,111           19 South         66.66%         47.27%         83.34%         3,195         1,596         4,794         42,570         18,266         66,874         2,457         790         4,124           21 North         33.33%	13	56.98%	42.97%	70.99%	13,084	9,867	16,300	254,042	187,801	320,283	9,106	6,195	12,018
16         61.02%         44.86%         77.18%         8,976         6,305         11,647         119,955         83,850         156,059         8,962         5,179         12,745           17         57.58%         46.39%         68.76%         20,082         16,114         24,050         300,576         240,014         361,138         13,876         10,322         17,430           18         65.44%         43.45%         69,42%         15,366         11,885         18,847         227,328         169,570         284,906         11,130         7,712         14,548           19 South         60.61%         49,83%         71,38%         20,082         16,114         24,050         264,727         210,518         318,937         15,611         11,655         19,567           20         72,62%         61,33%         83,90%         12,779         9,600         15,959         204,233         151,166         257,300         12,575         8,739         16,111           21         52,38%         21,42%         83,34%         3,195         1,596         4,794         42,570         18,266         66,874         2,457         790         4,124           21         52,38%         21,42%	14	59.23%	52.88%	65.58%	59,332	52,677	65,988	989,453	875,236	1,103,670	47,411	40,350	54,472
17         57.58%         46.39%         68.76%         20,082         16,114         24,050         300,576         240,014         361,338         13,876         10,322         17,430           18         56.44%         43.45%         69.42%         15,366         11,885         18,847         227,328         16,9750         284,960         11,419         8,081         14,757           19 North         49.56%         36.34%         62.27%         17,191         13,513         20,869         20,786         15,166         257,300         11,419         8,081         14,757           20         72.62%         61.33%         83.90%         12,779         9,600         15,959         204,233         151,166         257,300         12,575         8,739         16,411           21         25.38%         21,42%         83.34%         3,195         1,596         4,744         42,50         15,859         204,233         15,166         257,300         12,575         8,739         16,411           21         10         52.38%         21,42%         3,369         1,369         321         24,17         13,271         4,234         22,308         578         4         13,12	15	58.40%	47.01%	69.79%	19,017	15,153	22,881	321,085	254,110	388,061	14,310	10,501	18,119
18         56.44%         43.45%         69.42%         15,366         11,885         18,847         227,328         169,750         284,906         11,419         8,081         14,757           19 North         49.56%         36.34%         62.77%         17,191         13,513         20,082         200,786         151,892         249,680         11,130         7,712         14,548           19 South         60.61%         48.83%         71,38%         20,082         16,611         12,600         264,272         210,188         318,937         15,611         11,655         19,567           20         72.62%         61.33%         83.90%         12,779         9,600         15,959         204,233         151,166         257,300         12,575         8,739         16,411           21 North         33.33%         0.00%         98.68%         1,369         321         2,417         13,271         4,234         22,388         578         4         13,122           22 Collocios         44,70%         76.65%         9,280         6,565         11,995         108,924         75,723         142,125         8,817         5,395         12,239           23 Collocios         42,277         2,575	16	61.02%	44.86%	77.18%	8,976	6,305	11,647	119,955	83,850	156,059	8,962	5,179	12,745
19 North         49.56%         36.34%         62.77%         17,191         13,513         20,869         200,786         151,892         249,680         11,130         7,712         14,548           19 South         60.61%         49.83%         71.38%         20,082         16,114         24,050         264,727         210,518         318,937         15,611         11,655         19,567           20         72.62%         61.33%         83.90%         12,779         9,600         15,959         204,233         15,166         257,300         12,575         790         16,411           21 North         33.33%         0.00%         98.68%         1,369         321         2,417         13,271         4,234         22,308         578         4         1,312           22         60.66%         44.70%         76.62%         9,280         6,565         11,989         108,924         75,723         142,125         8,817         5,995         12,239           23         72.27%         65.56%         78,98%         36,208         30,933         41,484         428,631         36,4649         49,2613         40,762         33,24         42,277           24         60.00%         50.14%	17	57.58%	46.39%	68.76%	20,082	16,114	24,050	300,576	240,014	361,138	13,876	10,322	17,430
19 North         49.56%         36.34%         62.77%         17,191         13,513         20,869         200,786         151,892         249,680         11,130         7,712         14,548           19 South         60.61%         49.83%         71.38%         20,082         16,114         24,055         264,727         210,518         318,937         15,611         11,655         19,567           20         72.62%         61.33%         83.90%         12,779         9,600         15,959         204,233         15,166         257,300         12,575         790         4,124           21 North         33.33%         0.00%         98.68%         1,369         321         2,417         13,271         4,234         22,308         578         4         1,312           22         60.66%         44.70%         76.62%         9,280         6,565         11,995         108,924         75,723         142,125         8,817         5,995         12,239           23         72.27%         65.56%         78,98%         36,208         30,933         41,484         428,631         364,649         49,2613         40,762         33,247         48,272           24         60.00%         50.14%	18	56.44%	43.45%	69.42%	15,366	11,885	18,847	227,328	169,750	284,906	11,419	8,081	14,757
19 South         60.61%         49.83%         71.38%         20,082         16,114         24,050         264,727         210,518         318,937         15,611         11,655         19,567           20         72,62%         61.33%         83.90%         12,779         9,600         15,959         204,233         151,166         257,300         12,575         8,739         16,411           21         52.38%         21.42%         83.34%         3,195         1,596         4,794         42,570         18,266         66,874         2,457         790         4,124           21 North         33.33%         0.00%         98.68%         1,369         321         2,417         13,271         4,234         22,308         578         4         1,312           22         60.66%         44.70%         76,62%         9,280         65,565         11,995         108,924         75,723         142,125         8,817         5,395         12,239           23         72.27%         66,66%         78,98%         36,208         21,373         30,350         349,351         281,743         416,958         20,525         15,930         25,142           25         60.01%         75,758 <td< td=""><td>19 North</td><td>49.56%</td><td>36.34%</td><td>62.77%</td><td>17,191</td><td>13,513</td><td>20,869</td><td>200,786</td><td>151,892</td><td></td><td>11,130</td><td>7,712</td><td></td></td<>	19 North	49.56%	36.34%	62.77%	17,191	13,513	20,869	200,786	151,892		11,130	7,712	
20         72.62%         61.33%         83.90%         12,779         9,600         15,959         204,233         15,166         257,300         12,575         8,739         16,411           21         52.38%         21.42%         83.34%         3,195         1,596         4,794         42,570         18,266         66,687         2,457         790         4,124           21 North         33.33%         0.00%         98.68%         1,369         321         2,417         13,271         4,234         22,308         578         4         1,312           22         60.66%         44.70%         76.62%         9,280         65.565         11,995         108,924         75,723         142,125         8,817         5,395         12,239           23         72.27%         65.56%         78.98%         36,208         30,933         41,484         428,631         364,649         492,613         40,762         33,247         48,277           24         60.00%         50.44%         69.56%         25,863         21,376         30,350         349,351         281,743         416,958         20,525         15,930         25,121           25 South         80.41%         71,554			49.83%										
21         52.38%         21.42%         83.34%         3,195         1,596         4,794         42,570         18,266         66,874         2,457         790         4,124           21 North         33.33%         0,00%         98.68%         1,369         321         2,417         13,271         4,234         22,308         578         4         1,312           22         60.66%         44.70%         76.62%         9,280         6,565         11,995         108,924         75,723         142,125         8,817         5,395         12,239           23         72.27%         65.56%         78,98%         36,208         30,933         41,484         428,631         364,649         492,613         40,762         33,247         48,277           24         60.00%         50.44%         69.56%         25,863         21,376         30,350         349,351         281,743         416,958         20,525         15,930         25,121           25         60.91%         52.15%         69.68%         29,971         25,152         34,789         376,926         315,663         438,190         30,005         23,447         36,684           25         50uth         71,788         6,27%			61.33%										
21 North         33.33%         0.00%         98.68%         1,369         321         2,417         13,271         4,234         22,308         578         4         1,312           22         60.66%         44.70%         76.62%         9,280         6,565         11,995         108,924         75,723         142,125         8,817         5,395         12,239           23         72.27%         65.56%         78.98%         36,208         30,933         41,484         428,631         364,649         492,613         40,762         33,247         48,277           24         60.00%         50.44%         69.56%         25,863         21,376         30,350         349,351         281,743         416,958         20,525         15,930         25,121           25         60.91%         52.15%         69.68%         29,971         25,152         34,789         376,926         315,663         438,190         30,065         23,447         36,684           25         50uth         80.41%         71,55%         89.28%         14,757         11,344         18,170         142,705         103,096         182,314         19,803         14,227         25,379         26         77.27%         62.97%		52.38%	21.42%			1,596						790	
22         60.66%         44.70%         76.62%         9,280         6,565         11,995         108,924         75,723         142,125         8,817         5,395         12,239           23         72.27%         65.56%         78.98%         36,208         30,933         41,484         428,631         364,649         492,613         40,762         33,247         48,277           24         60.00%         50.44%         69.56%         25,863         21,376         30,350         349,351         281,743         416,958         20,525         15,930         25,121           25         60.91%         52.15%         69.68%         29,971         25,152         34,789         376,926         315,663         438,190         30,065         23,447         36,684           25         80.41%         71,55%         89.28%         14,757         11,344         18,170         142,705         103,096         182,314         19,803         14,427         55,379           26         77.27%         62.97%         91.57%         6,694         4,384         9,004         79,453         52,187         106,718         6,74         4,205         9,383           27         77.98%         70.85%	21 North		0.00%									4	
23         72.27%         65.56%         78.98%         36,208         30,933         41,484         428,631         364,649         492,613         40,762         33,247         48,277           24         60.00%         50.44%         69.56%         25,863         21,376         30,350         349,351         281,743         416,958         20,525         15,930         25,121           25         60.91%         52.15%         69.68%         29,971         25,152         34,789         376,926         315,663         438,190         30,065         23,447         36,684           25         South         80.41%         71.55%         89.28%         14,757         11,344         18,170         142,705         103,096         182,314         19,803         14,227         25,379           26         77.27%         62.97%         91.57%         66,694         4,384         9,004         79,453         52,187         106,718         67,94         42,05         9,383           27         77.98%         70.85%         85.10%         25,559         21,097         30,020         280,239         229,846         330,632         31,945         24,916         38,973           28         90.00th													
24         60.00%         50.44%         69.56%         25,863         21,376         30,350         349,351         281,743         416,958         20,525         15,930         25,121           25         60.91%         52.15%         69.68%         29,971         25,152         34,789         376,926         315,663         438,190         30,065         23,447         36,684           25 South         80.41%         71.55%         89.28%         14,757         11,344         18,170         142,705         103,096         182,314         19,803         14,227         25,379           26         77.27%         62.97%         91.57%         6,694         4,384         9,004         79,453         52,187         106,718         6,794         4,205         9,383           27         77.98%         70.85%         85.10%         25,559         21,097         30,020         280,239         229,846         330,632         31,945         24,916         38,973           28         90.00%         81.92%         98.08%         9,128         6,435         11,821         86,174         61,436         110,913         13,876         9,287         18,466           29 South         76.64%													
25         60.91%         52.15%         69.68%         29,971         25,152         34,789         376,926         315,663         438,190         30,065         23,447         36,684           25 South         80.41%         71.55%         89.28%         14,757         11,344         18,170         142,705         103,096         182,314         19,803         14,227         25,379           26         77.27%         62.97%         91.57%         6,694         4,384         9,004         79,453         52,187         106,718         6,794         4,205         9,383           27         77.98%         70.85%         85.10%         25,559         21,097         30,020         280,239         229,846         330,632         31,945         24,916         38,973           28         90.00%         81.92%         98.08%         9,128         6,435         11,821         86,174         61,436         110,913         13,876         9,287         18,466           29 North         66.95%         53.07%         76.83%         14,757         11,344         18,170         132,881         100,505         165,257         12,575         8,882         16,268           29 South         76.64%													
25 South         80.41%         71.55%         89.28%         14,757         11,344         18,170         142,705         103,096         182,314         19,803         14,227         25,379           26         77.27%         62.97%         91.57%         66,694         4,384         9,004         79,453         52,187         106,718         6,794         4,205         9,383           27         77.98%         70.85%         85.10%         25,559         21,097         30,020         280,239         229,846         330,632         31,945         24,916         38,973           28         90.00%         81.92%         98.08%         9,128         6,435         11,821         86,174         61,436         110,913         13,876         9,287         18,668           29 North         64.95%         53.07%         76.83%         14,757         11,344         18,170         132,881         100,505         165,257         12,575         8,882         16,268           29 South         76.64%         67.42%         85.85%         16,278         12,697         19,859         189,239         139,658         238,820         20,381         14,904         25,858           30         66.08%					,	,	,	,		,	,		,
26         77.27%         62.97%         91.57%         6,694         4,384         9,004         79,453         52,187         106,718         6,794         4,205         9,383           27         77.98%         70.85%         85.10%         25,559         21,097         30,020         280,239         229,846         330,632         31,945         24,916         38,973           28         90.00%         81.92%         98.08%         9,128         6,435         11,821         86,174         61,436         110,913         13,876         9,287         18,466           29 North         64.95%         53.07%         76.83%         14,757         11,344         18,170         132,881         100,505         165,257         12,575         8,882         16,268           29 South         76.64%         67.42%         85.85%         16,278         12,697         19,859         189,239         139,658         238,200         20,381         14,904         25,858           30         66.08%         57.31%         74.85%         26,015         21,515         30,515         311,779         249,605         373,952         21,393         16,761         26,024           31 East         73.08%													
27         77.98%         70.85%         85.10%         25,559         21,097         30,020         280,239         229,846         330,632         31,945         24,916         38,973           28         90.00%         81.92%         98.08%         9,128         6,435         11,821         86,174         61,436         110,913         13,876         9,287         18,466           29 North         64.95%         53.07%         76.83%         14,757         11,344         18,170         132,881         100,505         165,257         12,575         8,882         16,268           29 South         76.64%         67.42%         85.85%         16,278         12,697         19,859         189,239         139,658         238,820         20,381         14,904         25,858           30         66.08%         57.31%         74.85%         26,015         21,515         30,515         311,779         249,605         373,952         21,393         16,761         26,024           31         50.00%         31.80%         68.20%         9,128         6,435         11,821         86,864         61,549         112,179         6,360         3,719         9,001           31 East         73.08%													
28         90.00%         81.92%         98.08%         9,128         6,435         11,821         86,174         61,436         110,913         13,876         9,287         18,466           29 North         64.95%         53.07%         76.83%         14,757         11,344         18,170         132,881         100,505         165,257         12,575         8,882         16,268           29 South         76.64%         67.42%         85.85%         16,278         12,697         19,859         189,239         139,658         238,820         20,381         14,904         25,858           31         50.00%         57.31%         74.85%         26,015         21,515         30,515         311,779         249,605         373,952         21,393         16,761         26,024           31         50.00%         31.80%         68.20%         9,128         6,435         11,821         86,864         61,549         112,179         6,360         3,719         9,001           31 East         73.08%         52.58%         93.57%         3,955         2,177         5,734         43,259         21,366         65,153         3,903         1,766         6,040           31 West         80.00% <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>													
29 North         64.95%         53.07%         76.83%         14,757         11,344         18,170         132,881         100,505         165,257         12,575         8,882         16,268           29 South         76.64%         67.42%         85.85%         16,278         12,697         19,859         189,239         139,658         238,820         20,381         14,904         25,858           30         66.08%         57.31%         74.85%         26,015         21,515         30,515         311,779         249,605         373,952         21,393         16,761         26,024           31         50.00%         31.80%         68.20%         9,128         6,435         11,821         86,864         61,549         112,179         6,360         3,719         9,001           31 East         73.08%         52.58%         93.57%         3,955         2,177         5,734         43,259         21,366         65,153         3,903         1,766         6,040           31 West         80.00%         34.73%         100.00%         761         5         1,542         7,239         189         14,289         434         3         952           33         46.15%         2.45%         <								,	,	,			
29 South         76.64%         67.42%         85.85%         16,278         12,697         19,859         189,239         139,658         238,820         20,381         14,904         25,858           30         66.08%         57.31%         74.85%         26,015         21,515         30,515         311,779         249,605         373,952         21,393         16,761         26,024           31         50.00%         31.80%         68.20%         9,128         6,435         11,821         86,864         61,549         112,179         6,360         3,719         9,001           31 East         73.08%         52.58%         93.57%         3,955         2,177         5,734         43,259         21,366         65,153         3,903         1,766         6,040           31 West         80.00%         34.73%         100.00%         761         5         1,542         7,239         189         14,289         578         4         1,177           32         60.00%         0.00%         100.00%         761         5         1,542         3,619         21         8,250         434         3         952           33         46,15%         2,45%         89,86%         1,978													
30         66.08%         57.31%         74.85%         26,015         21,515         30,515         311,779         249,605         373,952         21,393         16,761         26,024           31         50.00%         31.80%         68.20%         9,128         6,435         11,821         86,864         61,549         112,179         6,360         3,719         9,001           31 East         73.08%         52.58%         93.57%         3,955         2,177         5,734         43,259         21,366         65,153         3,903         1,766         6,040           31 West         80.00%         34.73%         100.00%         761         5         1,542         7,239         189         14,289         578         4         1,177           32         60.00%         10.00%         761         5         1,542         3,619         21         8,250         434         3         952           33         46.15%         2.45%         89.86%         1,978         719         3,237         41,019         6,224         75,814         1,735         41         3,429           Urban Houston         75.0%         49.41%         100.00%         2,434         1,038													
31     50.00%     31.80%     68.20%     9,128     6,435     11,821     86,864     61,549     112,179     6,360     3,719     9,001       31 East     73.08%     52.58%     93.57%     3,955     2,177     5,734     43,259     21,366     65,153     3,903     1,766     6,040       31 West     80.00%     34.73%     100.00%     761     5     1,542     7,239     189     14,289     578     4     1,177       32     60.00%     100.00%     761     5     1,542     3,619     21     8,250     434     3     952       33     46.15%     2.45%     89.86%     1,978     719     3,237     41,019     6,224     75,814     1,735     41     3,429       Urban Houston     75.00%     49.41%     100.00%     2,434     1,038     3,831     20,682     8,865     32,498     2,024     685     3,362       Urban San Antonio     57.14%     1.13%     100.00%     1,065     141     1,989     10,341     2,672     18,010     2,024     14     5,359						,		,		,	,		,
31 East 73.08% 52.58% 93.57% 3,955 2,177 5,734 43,259 21,366 65,153 3,903 1,766 6,040 31 West 80.00% 34.73% 100.00% 761 5 1,542 7,239 189 14,289 578 4 1,177 32 60.00% 0.00% 100.00% 761 5 1,542 3,619 21 8,250 434 3 952 33 46.15% 2.45% 89.86% 1,978 719 3,237 41,019 6,224 75,814 1,735 41 3,429 Urban Houston 75.00% 49.41% 100.00% 2,434 1,038 3,831 20,682 8,865 32,498 2,024 685 3,362 Urban San Antonio 57.14% 1.13% 100.00% 1,065 141 1,989 10,341 2,672 18,010 2,024 14 5,359						,		,			,		,
31 West     80.00%     34.73%     100.00%     761     5     1,542     7,239     189     14,289     578     4     1,177       32     60.00%     0.00%     100.00%     761     5     1,542     3,619     21     8,250     434     3     952       33     46.15%     2.45%     89.86%     1,978     719     3,237     41,019     6,224     75,814     1,735     41     3,429       Urban Houston     75.00%     49.41%     100.00%     2,434     1,038     3,831     20,682     8,865     32,498     2,024     685     3,362       Urban San Antonio     57.14%     1.13%     100.00%     1,065     141     1,989     10,341     2,672     18,010     2,024     14     5,359													
32     60.00%     0.00%     100.00%     761     5     1,542     3,619     21     8,250     434     3     952       33     46.15%     2.45%     89.86%     1,978     719     3,237     41,019     6,224     75,814     1,735     41     3,429       Urban Houston     75.00%     49.41%     100.00%     2,434     1,038     3,831     20,682     8,865     32,498     2,024     685     3,362       Urban San Antonio     57.14%     1.13%     100.00%     1,065     141     1,989     10,341     2,672     18,010     2,024     14     5,359													
33 46.15% 2.45% 89.86% 1,978 719 3,237 41,019 6,224 75,814 1,735 41 3,429 Urban Houston 75.00% 49.41% 100.00% 2,434 1,038 3,831 20,682 8,865 32,498 2,024 685 3,362 Urban San Antonio 57.14% 1.13% 100.00% 1,065 141 1,989 10,341 2,672 18,010 2,024 14 5,359													
Urban Houston         75.00%         49.41%         100.00%         2,434         1,038         3,831         20,682         8,865         32,498         2,024         685         3,362           Urban San Antonio         57.14%         1.13%         100.00%         1,065         141         1,989         10,341         2,672         18,010         2,024         14         5,359								,					
Urban San Antonio         57.14%         1.13%         100.00%         1,065         141         1,989         10,341         2,672         18,010         2,024         14         5,359													
UTUGHT VALLEY U.UU% 6U9 4 1,307 2,413 55 4,7/1 0			1.13%	100.00%								14	5,359
	Orban valley	0.00%			609	4	1,307	2,413	55	4,//1	0		

Table 16. 2017-18 white-tailed deer harvest estimates by ecoregion.

Ecoregion	S	uccessful			Hunters			Days			Harvest	
	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI	Estimate	L95CI	U95CI
Pineywoods	57.43%	52.76%	62.09%	121,458	112,324	130,592	1,996,868	1,834,916	2,158,821	92,059	82,492	101,625
Gulf Coast & Prairies	60.22%	47.28%	73.15%	14,981	11,543	18,419	199,792	147,542	252,042	16,228	10,564	21,891
Post Oak Savannah	59.97%	55.41%	64.53%	119,525	110,452	128,599	1,673,237	1,518,155	1,828,318	101,007	89,402	112,612
Blackland Prairies	65.49%	54.58%	76.39%	18,203	14,420	21,985	262,589	203,712	321,466	16,379	12,034	20,725
Cross Timber	65.79%	61.51%	70.07%	115,820	106,866	124,775	1,416,612	1,293,868	1,539,355	119,510	107,075	131,944
South Texas Plains	73.83%	69.92%	77.73%	106,477	97,836	115,119	1,153,672	1,040,498	1,266,846	147,870	128,830	166,910
Edwards Plateau	76.69%	74.02%	79.35%	203,129	192,010	214,247	2,109,306	1,969,031	2,249,581	279,816	258,134	301,498
Eastern Rolling Plains	74.31%	69.31%	79.30%	63,951	57,062	70,840	687,958	605,707	770,209	73,253	63,400	83,105
Southern High Plains	79.17%	66.08%	92.25%	7,732	5,251	10,213	81,215	43,312	119,118	10,920	7,115	14,724
Trans Pecos	85.00%	78.56%	91.44%	22,552	18,353	26,751	212,246	171,626	252,867	24,114	19,251	28,978
Western Rolling Plains	63.82%	56.28%	71.36%	39,627	34,120	45,134	452,207	380,632	523,782	32,607	26,886	38,329
Urban	59.26%	34.39%	84.13%	4,349	2,485	6,214	34,030	19,755	48,304	4,247	653	7,840

Table 17. 2017-18 white-tailed deer hunter weapon usage, regardless of success.

Weapon		Report	ed Use		Estimated Hunters					
	Count	Percent	L95CI	U95CI	Estimate L9	5CI	U95CI			
Archery	1,216	26.14%	24.88%	27.41%	219,032	208,448	229,616			
Muzzleloader	174	3.74%	3.20%	4.29%	31,342	26,771	35,912			
Other	51	1.10%	0.80%	1.40%	9,186	6,678	11,695			
Rifle	4,335	93.21%	92.48%	93.93%	780,842	774,780	786,903			

Table 18. 2017-18 white-tailed deer hunter mean weapon days, regardless of success.\*

Weapon		Reporte	d Use	Estimated Days				
	Count	Mean	L95CI	U95CI	Estimate L95CI U95	SCI .		
Archery	1,215	9.04	8.48	9.60	7,575,704 7,107,338	8,044,069		
Muzzleloader	174	4.34	3.76	4.92	3,635,112 3,149,614	4,120,610		
Other	51	7.45	4.24	10.66	6,242,141 3,552,179	8,932,103		
Rifle	4,334	10.16	9.85	10.47	8,512,533 8,249,683	8,775,383		

<sup>\*</sup> Of those that reporting using it at least one day.

Table 19. 2017-18 white-tailed deer harvest weapon.

Weapon		Report	ed Use		Estimated Harvest				
	Count	Percent	L95CI	U95CI		Estimate l	_95CI		U95CI
Archery	532	10.53%	9.53%	11.52%		96,636		87,498	105,774
Muzzleloader	54	0.99%	0.72%	1.26%		9,065		6,608	11,521
Other	18	0.34%	0.18%	0.49%		3,076		1,622	4,529
Rifle	4,079	88.15%	87.11%	89.19%		809,184	7	99,658	818,710

Table 20. 2017-18 white-tailed deer harvest tag usage.

Tag		Report	ed Use		Estimated Harvest				
	Count	Percent	L95CI	U95CI		Estimate L95	U95CI		
Hunting License	3,928	80.33%	78.21%	82.46%		737,421	717,916	756,926	
MLDP	596	18.09%	15.96%	20.22%		166,096	146,542	185,650	
WMA / Public Hunt	75	1.57%	1.18%	1.97%		14,443	10,820	18,067	

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