2023 BIG GAME LICENSE RECOMMENDATION SUMMARY BY SPECIES

April 14, 2023

SUMMARY

- CPW is recommending a total of 236,600 limited licenses for deer, elk, pronghorn, moose, and bear. These recommendations include a reduction of 32,000 (-12%) limited licenses from last year.
- The winter of 2022-2023 was above average in severity on the entire Western Slope.
- The severity of the winter was historic from Rangely and Maybell to Steamboat Springs and the Wyoming state line. We are recommending unprecedented license reductions in this severe winter zone.
- In the severe winter zone, male and either-sex deer license recommendations are reduced by 5,000 (-48%) combined in D-2 (Bears Ears), D-6 (Rangely), and D-7 (White River). Female licenses are reduced by 2,900 (-94%) combined and to the minimum of 10 licenses per hunt code in D-2 (Bears Ears) and D-7 (White River).
- In the severe winter zone, antlerless elk license recommendations are reduced in E-2 (Bears Ears) by 5,600 (-89%) with all public cow hunts reduced to the minimum of 10 licenses per hunt code. For E-6 (White River) we're recommending a reduction of 8,700 (-63%) antlerless licenses. For E-21 (Rangely) the reduction is 400 (-60%) antlerless licenses.
- In the severe winter zone, pronghorn male and female license quotas are reduced to the minimum of 10 per hunt code. Male licenses are reduced by 1,100 (-74%) and female licenses are reduced by 700 (-83%) combined for all DAUs. Affected DAUs include PH-9 (Great Divide), PH-10 (Maybell), PH-11 (Sand Wash), and PH-34 (Axial Basin).

DEER

- Statewide, CPW is recommending 12,600 (-12%) fewer deer licenses than last year.
- For the Northwest Region, we are recommending a reduction of 12,800 (-33%) deer licenses.
- For all rifle seasons, we are recommending statewide total reductions of 4,500 (-9%) buck, 2,000 (-28%) either-sex, and 5,000 (-26%) antlerless licenses.
- Buck license recommendations were reduced in herds that are now within or below Herd Management Plan (HMP) sex ratio objective ranges (examples include D-8 State Bridge, D-9 Middle Park, D-13 Maroon Bells, D-40 Cimarron, and D-41 Logan Mountain).
- Buck license recommendations were increased in herds that are above HMP sex ratio objectives. Examples include D-21 West Elks (+10 licenses), D22 Taylor River (+25 licenses), D-25 Powderhorn (+10 licenses), and D-49 Bijou Creek (+120 licenses).
- In DAUs where CWD prevalence is greater than 5%, management actions were taken to reduce prevalence, including buck license increases for several herds (examples include D-3 North Park (9% prevalence), D-19 Uncompahgre Plateau (14%), D-23 La Sal (27%) and D-51 South Grand Mesa (9% prevalence)).
- Antlerless license reductions are recommended in herds that are within or below HMP population objective ranges (examples include D-2 Bears Ears, D-5 Table Lands, D-7 White River, D-9 Middle Park, D-28 Arkansas River, D-42 Rifle Creek, and D-45 Las Animas).
- Antlerless license increases are recommended in herds that are within or above HMP population objective ranges (examples included D-8 State Bridge, D-17 Bailey, D-21 West Elk, and D-25 Powderhorn).

DEER in 2023	
# of DAUs	# Hunt Codes
54	994

ELK

- Statewide, CPW is recommending 107,700 limited elk licenses, down 15,400 (-12%) licenses from last year. The reduction is actually 18,800 (3,450 greater); however, see the next bullet for explanation.
- Archery hunting in elk DAU E-14 Grand Mesa was limited starting in 2023. Converting what were previously over-the-counter unlimited licenses to limited licenses results in an increase of 3,450 limited archery licenses, which masks the magnitude of the actual reduction in total limited licenses.
- Continuing with a 19-year trend, antlerless elk license recommendations are reduced from last year by 16,400 (-25%) to 48,300. The statewide total for antlerless elk licenses is now 36% of what it was at its peak in 2004 of 132,500.
- Antlerless license reductions are recommended in herds that are within or below HMP population objective ranges. Examples include E-8 (Troublesome), E-10 (Yellow Creek), E-13 (Williams Fork), and E-33 (Trinchera), and E-35 Cimarron.
- Antlerless license reductions are the result of a combination mortality from the severe winter of 2022-2023, herds achieving HMP population objectives through antlerless harvest, low calf/cow ratios reducing population productivity, and increases in HMP population objective ranges.

ELK in 2023	
# of DAUs	# Hunt Codes
42	1,049

PRONGHORN

- Statewide, CPW is recommending 18,700 limited pronghorn licenses, down 3,500 (-16%) licenses from last year.
- CPW is recommending reductions in half (9 of 18) of the DAUs in the Northeast and Southeast Regions. These reductions are intended to manage populations toward their HMP population objectives (examples include PH-1 Escarpment, PH-5 Haswell, PH-6 Hugo, PH-7 Thatcher, PH-13 Tobe).
- Pronghorn license reductions are the result of a combination of mortality from the severe winter of 2022-2023, previously high licenses to intentionally reduce populations, increases in population objective ranges, and lower fawn/doe ratios due to drought reducing population productivity.

PRONGHORN in 2023	
# of DAUs	# Hunt Codes
28	336

MOOSE

- CPW is recommending 644 limited moose licenses, an increase of 52 (+9%) from last year.
- These recommendations include 268 (+17, +7%) bull and either-sex licenses and 376 (+35, +10%) antlerless licenses.
- Antlerless moose license recommendations are designed to manage moose populations toward HMP population objectives and keep moose populations within the capability of their habitat. Additionally, antlerless licenses have considerably lower success rates than antlered licenses.

MOOSE in 2023	
# of DAUs	# Hunt Codes
12	156

BLACK BEAR

- CPW is recommending 20,100 limited black bear licenses, a decrease of 630 (-3%) from last year.
- Similar to last year under the 2020-2024 BGSS, in 2023, ten bear DAUs will have OTC licenses available during archery, muzzleloader and concurrent rifle. All PLO seasons statewide are also OTC.
- Annual license sales increases seen over the previous 3 years seem to have stabilized in 2022 with nearly identical statewide hunter numbers between 2022 and 2021.

BLACK BEAR in 2023	
# of DAUs	# Hunt Codes
17	210

2023 BIG GAME LICENSE RECOMMENDATION SUMMARY BY REGION & SPECIES

April 14, 2023

Species	Region	All Limited Licenses 2022	All Limited Licenses 2023	Change #	Change %	All Limited Rifle Licenses 2022	All Limited Rifle Licenses 2023	Change #	Change %	All Limited Rifle Female & Either Sex Licenses 2022	All Limited Rifle Female & Either Sex Licenses 2023	Change #	Change %	All Limited Archery Licenses 2022	All Limited Archery Licenses 2023	Change #	Change %	All Limited Muzzleloader Licenses 2022	All Limited Muzzleloader Licenses 2023	Change #	Change %	Post Hunt Populations 2021 Estimate	Post Hunt Populations 2022 Estimate	Post Hunt Populations 2023 Projection	2023 Population Objective Min	2023 Population Objective Max	2023 Population Objective Target	Post-Hunt Inventory & Objectives: Number of Animals Classified in 2022**	Sex Ratio (Males/100 Females) Objective Range*** Min	Sex Ratio Objective Range*** Max	Sex Ratio Observed*** 2022	Sex Ratio Observed*** 3 Yr Avg	Region	Species
DEER																																		DEER
	NW	39,048	26,277	-12,771	-33%	31,376	20,040	-11,336	-36%	10,915	4,236	-6,679	-61%	4,341	3,576	-765	-18%	3,331	2,661	-670	-20%	165,510	135,760	125,350	165,400	208,400	187,900	44,381	23	28	23	27	NW	
	SW	20,425	20,920	495	2%	16,070	16,340	270	2%	2,295	2,405	110	5%	2,495	2,595	100	4%	1,860	1,985	125	7%	123,920	127,300	123,350	140,900	166,200	157,950	23,073	29	32	32	31	SW	
	NE	14,255	14,180	-75	-1%	10,360	10,265	-95	-1%	3,160	3,170	10	0%	2,380	2,380	0	0%	1,515	1,535	20	1%	40,750	42,090	41,540	37,000	43,900	40,700	3,096	26	32	42	39	NE	
	NE Plains	11,055	11,075	20	0%	8,905	8,795	-110	-1%	5,630	5,485	-145	-3%	1,395	1,435	40	3%	755	845	90	12%	18,880	18,880	18,990	17,300	20,200	19,700	7,475					NE Plains	
	SE	7,826	7,905	79	1%	5,881	5,950	69	1%	750	742	-8	-1%	1,230	1,230	0	0%	715	725	10	1%	45,200	44,473	42,060	52,600	61,000	56,500	4,292	30	35	31	30	SE	
	SE Plains	9,398	9,076	-322	-3%	6,253	5,976	-277	-4%	3,575	3,317	-258	-7%	2,055	2,000	-55	-3%	1,090	1,100	10	1%	22,170	23,416	23,050	17,700	21,200	19,450	4,492					SE Plains	
	TOTAL	**102,007**	**89,433**	**-12,574**	**-12%**	**78,845**	**67,366**	**-11,479**	**-15%**	**26,325**	**19,355**	**-6,970**	**-26%**	**13,896**	**13,216**	**-680**	**-5%**	**9,266**	**8,851**	**-415**	**-4%**	**416,430**	**391,921**	**374,340**	**430,900**	**520,900**	**482,200**	**86,809**	**26**	**31**	**30**	**30**		
ELK																																		ELK
	NW	72,503	56,088	-16,405	-23%	64,097	44,367	-19,720	-31%	55,112	36,882	-18,220	-33%	2,652	6,202	3,550	134%	5,754	5,519	-235	-4%	134,980	129,520	113,340	102,270	129,670	116,670	57,162	21	27	23	22	NW	
	SW	28,220	28,800	580	2%	17,835	18,450	615	3%	10,240	10,855	615	6%	7,540	7,430	-110	-1%	2,845	2,920	75	3%	124,410	124,360	127,230	110,200	129,700	123,200	38,064	16	22	18	18	SW	
	NE	12,247	12,392	145	1%	8,882	8,997	115	1%	4,607	4,772	165	4%	1,870	1,890	20	1%	1,495	1,505	10	1%	17,300	17,680	17,230	12,200	14,400	13,600	5,146	34	39	29	27	NE	
	SE	10,083	10,405	322	3%	7,775	8,117	342	4%	5,970	6,297	327	5%	833	833	0	0%	1,475	1,455	-20	-1%	32,220	31,630	32,740	27,450	31,900	30,750	9,142	31	37	24	28	SE	
	TOTAL	**123,053**	**107,695**	**-15,358**	**-12%**	**98,589**	**79,941**	**-18,648**	**-19%**	**75,929**	**58,816**	**-17,113**	**-23%**	**12,895**	**16,355**	**3,460**	**27%**	**11,569**	**11,399**	**-170**	**-1%**	**308,910**	**303,190**	**290,540**	**252,120**	**305,670**	**284,220**	**109,514**	**21**	**27**	**21**	**21**	**TOTAL**	
PRONGHORN																																		PRONGHORN
	NW	3,583	1,843	-1,740	-49%	2,803	1,133	-1,670	-60%	2,163	710	-1,453	-67%	455	335	-120	-26%	325	375	50	15%	25,050	22,690	17,040	23,000	23,400	23,300	11,264	53	54	49	49	NW	
	SW	346	341	-5	-1%	247	232	-15	-6%	242	222	-20	-8%	79	89	10	13%	20	20	0	0%	2,750	2,960	2,960	3,450	4,450	3,700	1,428	29	34	33	30	SW	
	NE	4,112	4,037	-75	-2%	3,302	3,227	-75	-2%	2,105	2,005	-100	-5%	350	340	-10	-3%	460	470	10	2%	17,230	16,790	16,460	15,000	17,900	16,400	600	29	34	23	39	NE	
	SE	14,151	12,494	-1,657	-12%	12,471	10,969	-1,502	-12%	6,509	6,276	-233	-4%	40	40	0	0%	1,640	1,485	-155	-9%	33,160	31,000	31,920	27,600	34,850	31,050	7,339	29	40	41	39	SE	
	TOTAL	**22,192**	**18,715**	**-3,477**	**-16%**	**18,823**	**15,561**	**-3,262**	**-17%**	**11,019**	**9,213**	**-1,806**	**-16%**	**924**	**804**	**-120**	**-13%**	**2,445**	**2,350**	**-95**	**-4%**	**78,190**	**73,440**	**68,380**	**69,050**	**80,600**	**74,450**	**20,631**	**39**	**43**	**43**	**45**	**TOTAL**	
MOOSE																																		MOOSE
	NW	406	433	27	7%					237	259	22	9%									2,310	2,240	2,160	1,175	1,565	1,430						NW	
	SW	32	35	3	9%					12	12	0	0%									460	480	490	400	500	450						SW	
	NE	143	163	20	14%					96	109	13	14%									580	630	570	575	625	600						NE	
	SE	11	13	2	18%					2	2	0	0%									150	110	100	110	110	110						SE	
	TOTAL	**592**	**644**	**52**	**9%**					**347**	**382**	**35**	**10%**									**3,500**	**3,460**	**3,320**	**2,260**	**2,800**	**2,590**						**TOTAL**	
BEAR																																		BEAR
	NW	12,197	11,827	-370	-3%	8,587	8,457	-130	-2%					2,560	2,500	-60	-2%	1,050	870	-180	-17%												NW	
	SW	5,105	4,855	-250	-5%	3,530	3,480	-50	-1%					1,175	975	-200	-17%	400	400	0	0%												SW	
	NE	1,365	1,365	0	0%	940	940	0	0%					280	280	0	0%	145	145	0	0%												NE	
	SE	2,047	2,041	-6	0%	1,424	1,418	-6	0%					439	439	0	0%	184	184	0	0%												SE	
	TOTAL	**20,714**	**20,088**	**-626**	**-3%**	**14,481**	**14,295**	**-186**	**-1%**					**4,454**	**4,194**	**-260**	**-6%**	**1,779**	**1,599**	**-180**	**-10%**												**TOTAL**	
GRAND TOTAL		**268,558**	**236,575**	**-31,983**	**-11.9**	**210,738**	**177,163**	**-33,575**	**-15.9**	**113,620**	**87,766**	**-25,854**	**-22.8**	**32,169**	**34,569**	**2,400**	**7.5**	**25,059**	**24,199**	**-860**	**-3.4**	**807,030**	**772,011**	**736,580**				**216,954**					**GRAND TOTAL**	

*For moose Antlerless and Either Sex licenses included for all manners of take

**Number of Animals Classified includes both flight & ground surveys

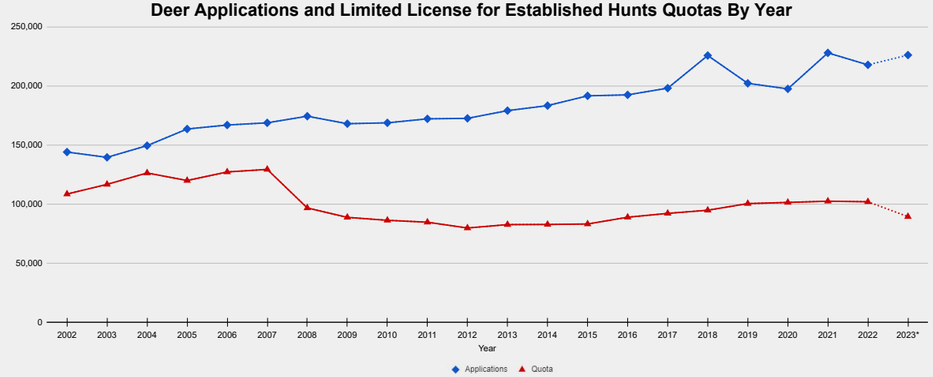
***Pronghorn inventory is pre hunt

BIG GAME HISTORY BY SPECIES

Established Hunts are Ranching for Wildlife and Auction & Raffle hunts or hunts approved annually by PWC.

April 14, 2023

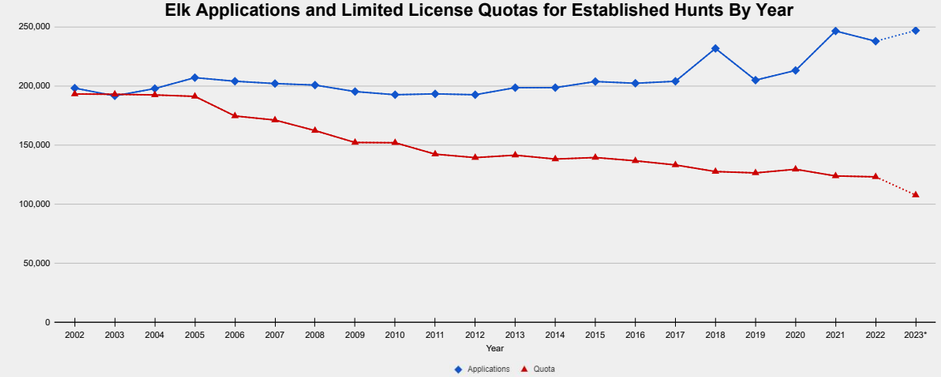
Deer Applications and Limited License for Established Hunts Quotas By Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Applications	144,122	139,629	149,532	163,636	166,993	168,862	174,465	168,107	168,862	172,234	172,650	179,182	183,431	191,708	192,538	198,205	225,855	202,305	197,604	228,087	217,937	226,240
License Quota	108,567	116,742	126,410	120,005	127,257	129,426	96,791	88,820	86,328	84,713	79,813	82,680	82,806	83,204	88,919	92,187	94,855	100,483	101,457	102,507	102,011	89,433

*Projected Estimate

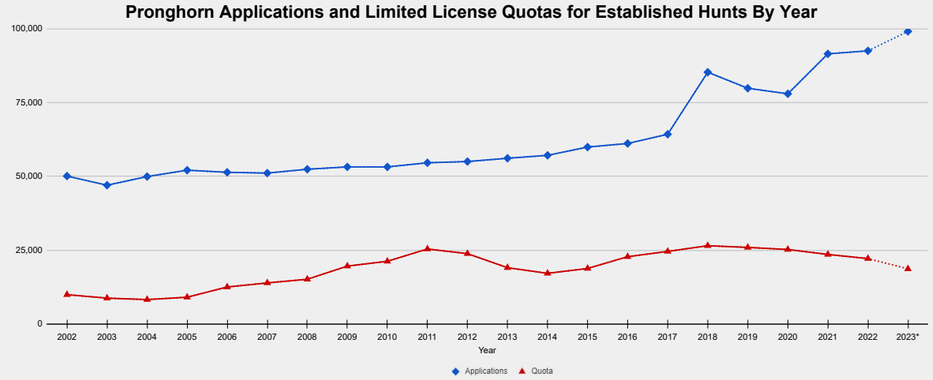
Elk Applications and Limited License Quotas for Established Hunts By Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Applications	198,245	191,714	197,866	207,108	204,074	202,111	200,826	195,332	192,655	193,380	192,638	198,621	198,649	203,823	202,364	204,024	231,846	204,984	213,230	246,602	237,959	247,015
License Quota	193,245	193,049	192,474	191,249	174,663	171,210	162,303	152,214	152,012	142,347	139,397	141,483	138,186	139,482	136,706	133,199	127,608	126,458	129,532	123,866	123,137	107,685

*Projected Estimate

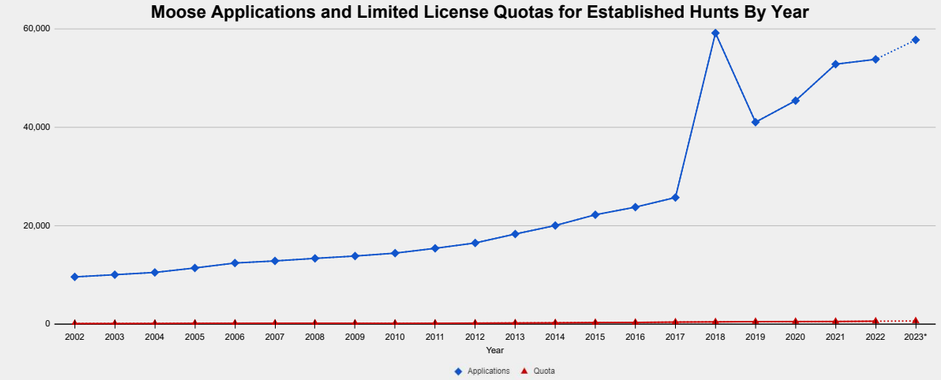
Pronghorn Applications and Limited License Quotas for Established Hunts By Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Applications	50,144	47,043	49,977	52,136	51,426	51,149	52,456	53,252	53,242	54,647	55,065	56,174	57,163	59,968	61,178	64,309	85,317	79,886	78,007	91,540	92,554	99,140
License Quota	9,980	8,802	8,314	9,116	12,573	13,957	15,196	19,651	21,286	25,454	23,866	19,113	17,202	18,853	22,844	24,625	26,563	25,981	25,278	23,596	22,199	18,718

*Projected Estimate

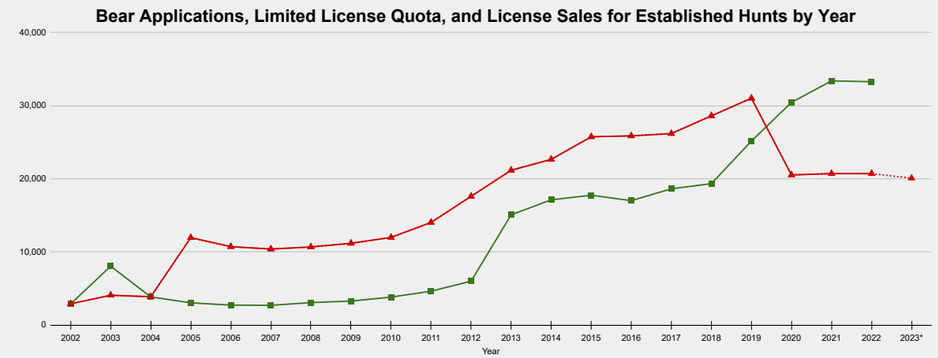
Moose Applications and Limited License Quotas for Established Hunts By Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Applications	9,600	10,044	10,504	11,412	12,417	12,842	13,361	13,836	14,425	15,404	16,494	18,311	20,037	22,226	23,776	25,728	59,157	41,037	45,412	52,823	53,808	57,757
License Quota	117	120	132	165	174	187	190	177	162	181	203	233	266	321	343	417	454	510	522	534	594	644

*Projected Estimate

Bear Applications, Limited License Quota, and License Sales for Established Hunts by Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Applications	11,308	11,788	12,349	11,292	11,036	11,106	11,997	12,168	12,616	12,753	13,737	15,248	16,614	16,021	17,118	17,152	31,994	27,801	30,873	36,718	37,264	39,175
License Quota	2,892	4,070	3,863	11,949	10,721	10,390	10,675	11,177	11,980	14,032	17,604	21,167	22,663	25,751	25,872	26,190	28,617	31,025	20,527	20,715	20,714	20,088
Total License Sales	2,884	8,048	3,838	3,034	2,718	2,691	3,066	3,272	3,816	4,628	5,995	15,082	17,121	17,751	17,016	18,633	19,336	25,165	30,458	33,396	33,284	

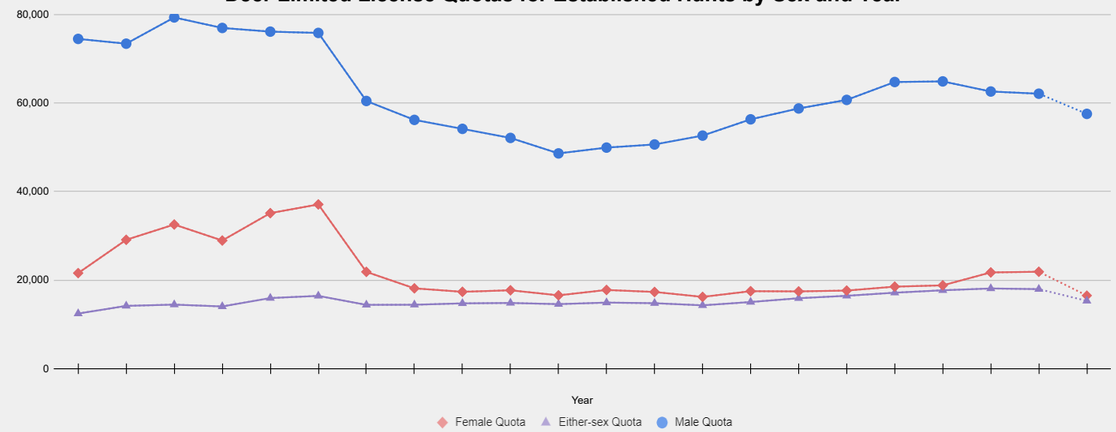
*Projected Estimate

BIG GAME QUOTA HISTORY FOR ESTABLISHED HUNTS BY SPECIES

Established Hunts are Ranching for Wildlife and Auction & Raffle hunts or hunts approved annually by PWC.

April 14, 2023

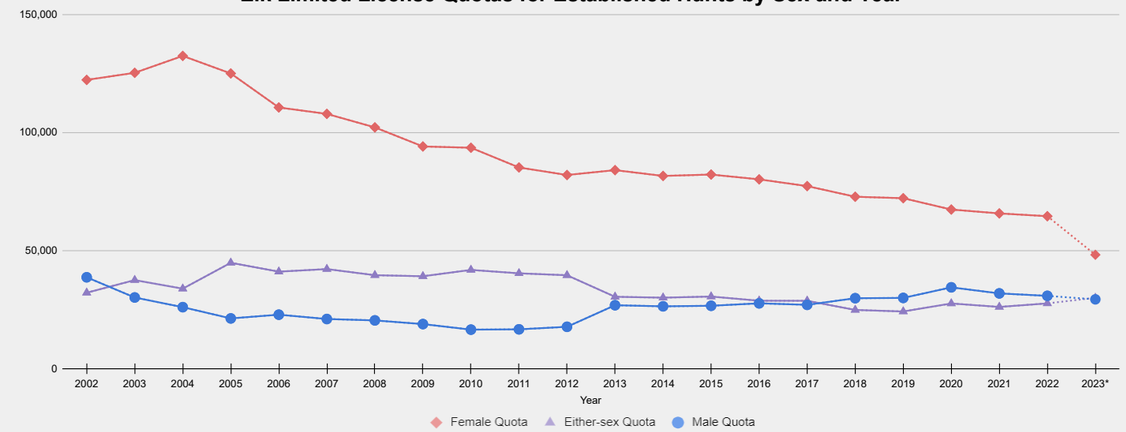
Deer Limited License Quotas for Established Hunts by Sex and Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Female Quota	21,602	29,122	32,575	28,962	35,150	37,114	21,881	18,159	17,376	17,723	16,580	17,791	17,343	16,227	17,515	17,470	17,654	18,541	18,833	21,756	21,905	16,531
Either-sex Quota	12,462	14,195	14,483	14,066	15,962	16,458	14,430	14,451	14,767	14,854	14,593	14,941	14,804	14,319	15,069	15,925	16,475	17,175	17,720	18,131	17,979	15,334
Male Quota	74,503	73,425	79,352	76,977	76,145	75,854	60,480	56,210	54,185	52,136	48,640	49,948	50,659	52,658	56,335	58,792	60,726	64,767	64,904	62,620	62,127	57,568

*Projected Estimate

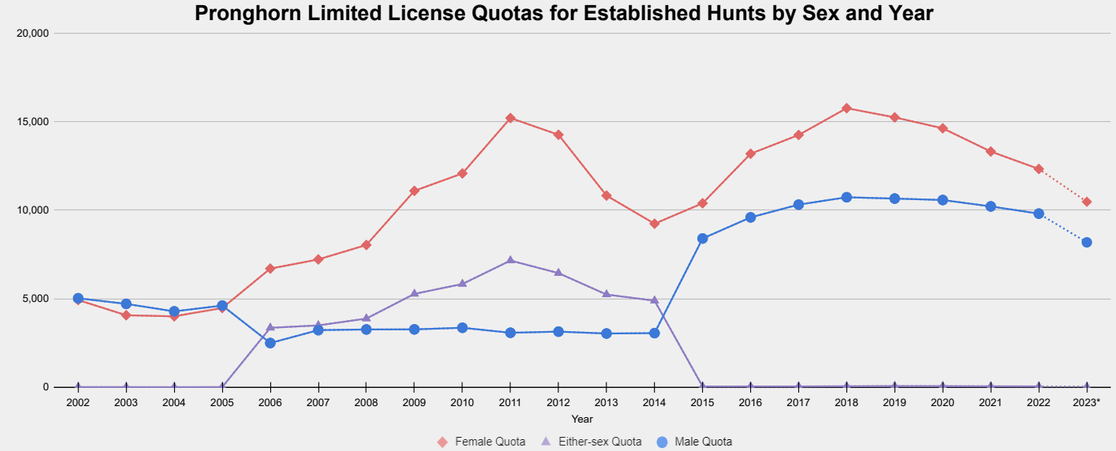
Elk Limited License Quotas for Established Hunts by Sex and Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Female Quota	122,329	125,339	132,489	125,062	110,657	107,938	102,221	94,136	93,599	85,246	82,049	84,118	81,657	82,247	80,209	77,353	72,843	72,224	67,424	65,785	64,606	48,246
Either-sex Quota	32,185	37,537	33,905	44,875	41,117	42,212	39,615	39,168	41,853	40,411	39,593	30,470	30,097	30,571	28,798	28,777	24,901	24,245	27,639	26,177	27,667	30,055
Male Quota	38,731	30,173	26,080	21,312	22,889	21,060	20,467	18,910	16,560	16,690	17,755	26,895	26,432	26,664	27,699	27,069	29,864	29,989	34,469	31,904	30,864	29,384

*Projected Estimate

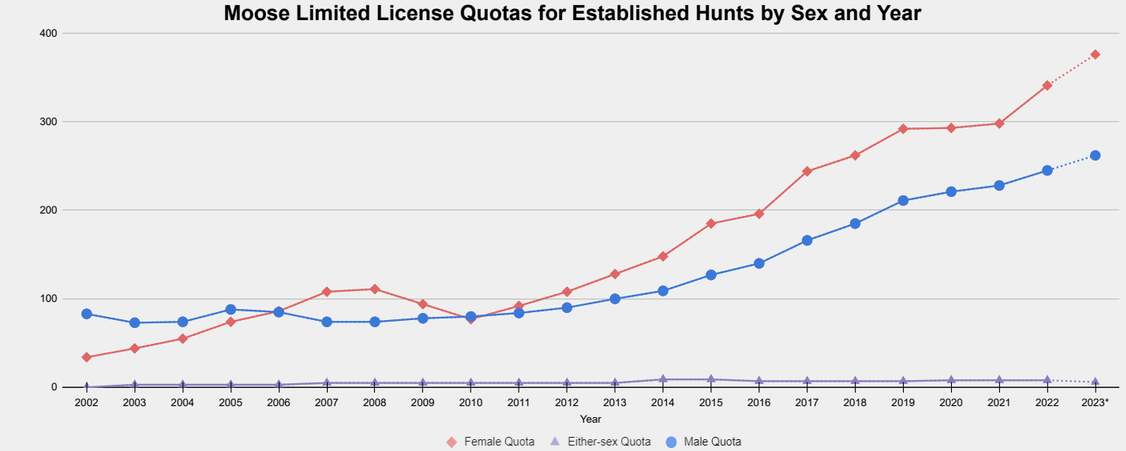
Pronghorn Limited License Quotas for Established Hunts by Sex and Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Female Quota	4,933	4,072	4,011	4,481	6,707	7,225	8,041	11,097	12,082	15,209	14,266	10,830	9,241	10,396	13,193	14,253	15,766	15,248	14,630	13,318	12,334	10,481
Either-sex Quota	16	15	12	16	3,363	3,500	3,885	5,279	5,838	7,162	6,452	5,242	4,897	50	52	52	62	72	68	59	54	47
Male Quota	5,031	4,715	4,291	4,619	2,503	3,232	3,270	3,275	3,366	3,083	3,148	3,041	3,064	8,407	9,599	10,320	10,735	10,661	10,580	10,219	9,811	8,190

*Projected Estimate

Moose Limited License Quotas for Established Hunts by Sex and Year



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
Female Quota	34	44	55	74	86	108	111	94	77	92	108	128	148	185	196	244	262	292	293	298	341	376
Either-sex Quota	0	3	3	3	3	5	5	5	5	5	5	5	9	9	7	7	7	7	8	8	8	6
Male Quota	83	73	74	88	85	74	74	78	80	84	90	100	109	127	140	166	185	211	221	228	245	262

*Projected Estimate

2023 BIG GAME LICENSE RECOMMENDATION DEFINITIONS

April 14, 2023

Add-on Black Bear License: Archery and muzzleloader unlimited OTC black bear licenses only available to purchase by hunters who have a deer or elk license for the same manner of take and GMU.

Age Ratio: Number of young-of-the-year per 100 females in a herd. Age ratios are observed during big game surveys and provide an estimate of the number of young that were born in summer and survived until the survey. Age ratios are a measure of herd productivity and are used in population modeling.

Antlered License: A deer, elk, or moose license that is valid for the take of any animal with an antler or antlers of at least five inches in length.

Antlerless License: A deer, elk, or moose license that is valid for the take of any animal without antlers or with antlers of less than five inches in length.

Black Bear Age and Gender Composition: Metrics used as indicators of black bear population trajectory in relation to harvest levels. Harvested black bears are divided into 4 age-sex classes (adult male, adult female, subadult male, and subadult female).

% Adult Male in Harvest: The adult male segment of a population is the first to be reduced under increasing hunter pressure, therefore proportions of adult males (>5 yr old) in the harvest can indicate stability, increase or decrease in the population.

% Female in Harvest: As harvest levels increase and additional adult and sub-adult males are removed, the proportion of females of all ages in the harvest begins to increase. Therefore, proportions of females of all ages in the total harvest can indicate stability, increase or decrease in the population.

% Adult Females in Female Harvest: With increasing harvest, younger females are removed and older females (>5 yr old) become more common in the harvest. Thus, the proportion of adult females in the female harvest should rise with increasing harvest rates, indicating stability, increase or decrease in the population.

Classified Animals: During big game surveys, animals are categorized by age and sex. That is, animals are identified as adult males, adult females and young-of-the-year. These classifications are then used to calculate sex and age ratios.

Concurrent Rifle Season: Limited and unlimited black bear seasons that occur during the regular deer and elk rifle seasons. There are both regular concurrent and PLO concurrent black bear seasons.

Chronic Wasting Disease (CWD): A fatal neurological disease that attacks the brains of deer, elk and moose.

Data Analysis Unit (DAU): The geographic area that represents the year-round range of a specific big game herd/population. Each DAU is composed of one or more Game Management Units (GMUs). DAUs are used to monitor distinct herds/populations.

Either-sex License: A license that is valid for the take of either male or female animals.

Established Hunts: Ranching for Wildlife and Auction & Raffle hunts or hunts approved annually by PWC.

Game Management Unit (GMU): A defined geographic area that provides a practical framework where management goals can be refined and applied on a finer scale than a DAU, typically through hunting regulations. GMUs are used to monitor hunter distribution.

Leftover Draw: Deer and elk applicants unsuccessful in the primary draw have the first chance at the limited licenses that are remaining after the primary draw by selecting Leftover Draw on their application.

Limited Licenses: A set (limited) number of licenses are available for specific units and dates for each species, and are initially issued through an application and draw process.

Manner of Take: Colorado hunting seasons are based on hunting methods (i.e., archery, muzzleloader and rifle/associated) permissible during each season.

Modeled Estimates: Mathematical models that integrate observed data (e.g., sex ratios, age ratios, population estimates, survival estimates, harvest estimates) are used to estimate the population size and demographic composition of each herd. Estimates derived from these models are referred to as modeled estimates.

Non-Established Hunts: Hunts and quota not specified in regulation and approved by PWC, or Ranching for Wildlife or Auction & Raffle hunts. Non-Established hunts include game damage, dispersal, youth and novice outreach, etc.

Over-the-Counter (OTC) Season: In contrast to limited seasons, licenses in OTC seasons are not available through the draw. They do not require buying/having a qualifying license, do not use preference points and may be purchased any time through the end of the season. Prior to 2020, the number of licenses available in OTC seasons were either unlimited or capped at a predetermined number. Starting in 2020, there are no longer OTC with caps seasons.

Plains Units: GMUs east of Interstate I-25 except unit 140.

Private Land Only (PLO) License: Licenses that are only valid on private land.

Population Estimate: The estimate of the number post-season (winter) animals in a herd. CPW estimates the size of each herd annually based on population models.

Population Objective: The target number of animals in a herd. Population objectives are expressed as ranges and are established in the Herd Management Plan (HMP) for each herd. License numbers and hunting strategies are designed to reach or maintain the population objective of each herd.

Post-hunt: The period after the hunting seasons. Most big game populations are surveyed post-hunt (in the winter), when they are concentrated at lower elevations in open terrain by snow, in order to estimate winter population levels and demographics.

Pre-hunt: The period before the hunting season. Many pronghorn surveys are conducted pre-hunt (in the summer) to estimate summer population levels and demographics.

Primary Draw: The first, main big game draw of the year for hunters applying for limited hunting licenses.

September Rifle Season: Limited rifle black bear seasons that occur during the month of September (before the regular deer and elk rifle seasons). The majority of black bear harvest occurs during these seasons and, therefore, they have the largest effect on black bear management.

Sex Ratio: Number of males per 100 females in a herd. Sex ratios are observed during big game surveys and used in population models. Sex ratio objectives are established for each herd in a Herd Management Plan. Hunting licensing numbers and strategies are established to achieve and maintain these objectives.

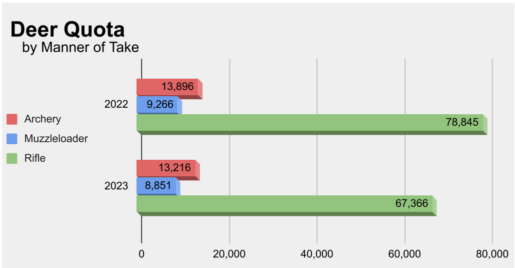
Unlimited Licenses: Licenses that are not restricted in number. They are not available through the draw.

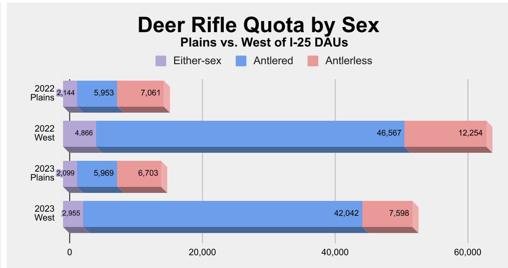
Weighted Average: An average that is calculated taking population size into account, so that larger populations contribute more to the average than smaller populations (i.e., populations influence the average in proportion to their size).

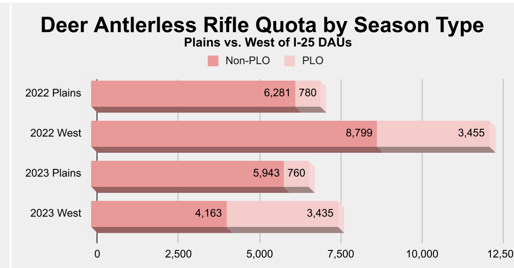
West of I-25 Units: GMUs west of Interstate I-25 and unit 140.

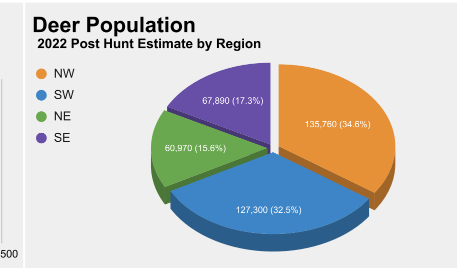
2023 DEER

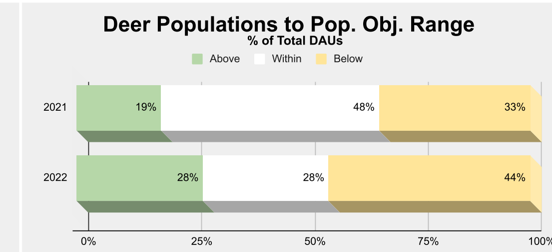
Colorado Parks and Wildlife
April 14, 2023

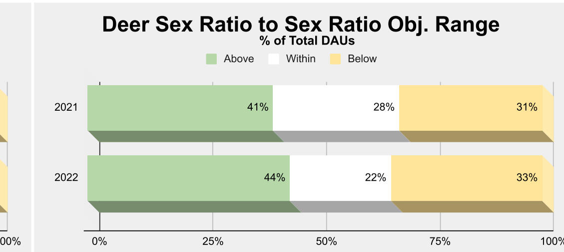












Prevalence

Prevalence
< 1% (Not detected)
1% - 5%
5% - 10%
> 10%

Estimated Population to Population Objective Range
% of Total DAUs

	2021	2022	% Change
Above	19%	28%	9%
Within	48%	28%	-20%
Below	33%	44%	11%

Estimated Sex Ratio to Sex Ratio Objective Range
% of Total DAUs

	2021	2022	% Change
Above	41%	44%	4%
Within	28%	22%	-6%
Below	31%	33%	2%

positive % change = increase in licenses
negative % change = decrease in licenses

			LIMITED ARCHERY SEASONS			LIMITED MUZZLELOADER SEASONS			LIMITED RIFLE SEASONS* — ALL LIMITED RIFLE			EITHER-SEX LICENSES			ANTLERED LICENSES			ANTLERLESS LICENSES**			PLO ANTLERLESS RIFLE		
Region	DAU	Units Involved	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE
NW	01	1, 2, 201	16	16	0%	16	16	0%	106	106	0%	0	0	0%	106	106	0%	0	0	0%	0	0	0%
NW	02	3, 4, 5, 14, 214, 301, 441	605	510	-16%	175	110	-37%	6,580	2,665	-59%	2,024	1,070	-47%	2,848	1,490	-48%	1,708	105	-94%	0	0	0%
NW	03	6, 16, 17, 161, 171	170	185	9%	105	115	10%	624	662	6%	0	0	0%	624	652	4%	0	10	100%	0	10	100%
NE	04	7, 8, 9, 19, 191	1,000	1,000	0%	825	825	0%	3,290	3,100	-6%	0	0	0%	2,420	2,320	-4%	870	780	-10%	100	100	0%
NE	05	87, 88, 89, 90, 95	100	85	-15%	90	80	-11%	1,940	1,645	-15%	350	330	-6%	730	620	-15%	860	695	-19%	0	0	0%
NW	06	10	5	5	0%	5	5	0%	52	27	-48%	0	0	0%	52	27	-48%	0	0	0%	0	0	0%
NW	07	11, 12, 13, 22, 23, 24, 131, 211, 231	525	525	0%	350	305	-13%	6,899	2,882	-58%	1,680	868	-48%	3,825	1,930	-50%	1,394	84	-94%	0	0	0%
NW	08	15, 35, 36, 45	385	350	-9%	450	425	-6%	3,040	2,825	-7%	125	105	-16%	2,575	2,320	-10%	340	400	18%	0	0	0%
NW	09	18, 27, 28, 37, 181, 371	1,015	510	-50%	1,035	535	-48%	6,180	3,325	-46%	305	75	-75%	3,550	2,665	-25%	2,325	585	-75%	0	0	0%
NE	10	20	300	300	0%	120	120	0%	2,085	2,085	0%	0	0	0%	1,505	1,505	0%	580	580	0%	550	550	0%
NW	11	21, 30	135	135	0%	25	25	0%	570	575	1%	0	0	0%	550	555	1%	20	20	0%	0	0	0%
NW	12	41, 42, 421	500	410	-18%	260	260	0%	1,700	1,700	0%	0	0	0%	1,680	1,680	0%	20	20	0%	0	0	0%
NW	13	43, 47, 471	225	180	-20%	220	180	-18%	810	665	-18%	50	50	0%	720	575	-20%	40	40	0%	0	0	0%
NW	14	44	65	65	0%	70	70	0%	190	190	0%	20	20	0%	120	120	0%	50	50	0%	0	0	0%
SE	15	48, 56, 481, 561	200	200	0%	110	110	0%	670	670	0%	0	0	0%	560	560	0%	110	110	0%	90	90	0%
SE	16	49, 57, 58, 581	330	330	0%	175	175	0%	1,490	1,490	0%	0	0	0%	1,350	1,350	0%	140	140	0%	100	100	0%
NE	17	39, 46, 51, 391, 461	530	530	0%	275	295	7%	2,020	2,110	4%	0	0	0%	1,430	1,480	3%	590	630	7%	485	525	8%
NW	18	40	80	70	-13%	35	30	-14%	321	284	-12%	0	0	0%	321	284	-12%	0	0	0%	0	0	0%
SW	19	61, 62	250	250	0%	120	170	42%	1,270	1,380	9%	100	100	0%	1,150	1,260	10%	20	20	0%	20	20	0%
SW	20	53,63	100	100	0%	45	45	0%	645	695	8%	0	0	0%	555	605	9%	90	90	0%	90	90	0%
SW	21	54	55	80	45%	50	75	50%	520	560	8%	0	0	0%	445	455	2%	75	105	40%	0	30	100%
SW	22	55, 551	110	145	32%	100	135	35%	1,030	1,005	-2%	0	0	0%	605	630	4%	425	375	-12%	0	30	100%
SW	23	60	45	50	11%	10	10	0%	205	235	15%	0	0	0%	195	225	15%	10	10	0%	10	10	0%
SW	24	70, 71, 711	245	245	0%	140	140	0%	1,865	1,865	0%	0	0	0%	1,835	1,835	0%	30	30	0%	30	30	0%
SW	25	66, 67	130	160	23%	125	140	12%	810	905	12%	0	0	0%	500	550	10%	310	355	15%	0	0	0%
SW	26	68, 681, 682	115	115	0%	115	115	0%	555	555	0%	0	0	0%	555	555	0%	0	0	0%	0	0	0%
NE	27	29, 38	350	350	0%	180	180	0%	2,390	2,395	0%	200	220	10%	1,390	1,335	-4%	800	840	5%	375	325	-13%
SE	28	122, 125, 126, 127, 130, 132, 137, 138, 139,	605	675	12%	160	170	6%	1,785	1,455	-18%	355	370	4%	785	665	-15%	645	420	-35%	25	0	-100%
SW	29	72, 73	145	145	0%	120	120	0%	1,250	1,250	0%	0	0	0%	1,070	1,070	0%	180	180	0%	180	180	0%
SW	30	75, 77, 78, 751, 771	525	525	0%	450	450	0%	3,235	3,240	0%	0	0	0%	2,810	2,815	0%	425	425	0%	285	285	0%
SW	31	83	10	15	50%	10	10	0%	70	75	7%	0	0	0%	70	75	7%	0	0	0%	0	0	0%
SE	32	85, 140, 851	190	190	0%	60	70	17%	1,056	1,075	2%	0	0	0%	923	950	3%	133	125	-6%	125	125	0%
SE	33	143, 144, 145	0	25	100%	0	25	100%	0	330	100%	0	25	100%	0	195	100%	0	110	100%	0	25	100%
SE	34	69, 84, 86, 691, 861	335	335	0%	280	280	0%	2,030	2,080	2%	0	0	0%	1,825	1,875	3%	205	205	0%	130	130	0%
SW	35	80, 81	250	250	0%	200	200	0%	650	650	0%	0	0	0%	650	650	0%	0	0	0%	0	0	0%
SW	36	76, 79, 791	35	35	0%	45	45	0%	330	330	0%	0	0	0%	255	255	0%	75	75	0%	75	75	0%
SW	37	82	50	50	0%	60	60	0%	365	365	0%	0	0	0%	365	365	0%	0	0	0%	0	0	0%
NE	38	50, 500, 501	200	200	0%	115	115	0%	575	575	0%	0	0	0%	455	455	0%	120	120	0%	0	0	0%
SW	40	64, 65	165	165	0%	85	85	0%	930	880	-5%	50	50	0%	880	830	-6%	0	0	0%	0	0	0%
NW	41	31, 32	135	135	0%	100	100	0%	575	485	-16%	0	0	0%	575	485	-16%	0	0	0%	0	0	0%
NW	42	33	150	150	0%	160	160	0%	1,210	1,130	-7%	0	0	0%	970	970	0%	240	160	-33%	240	160	-33%
NW	43	25, 26, 34	210	210	0%	240	240	0%	1,919	1,919	0%	147	147	0%	1,575	1,575	0%	197	197	0%	0	0	0%
NE	44	91, 92, 94, 96, 951	405	405	0%	235	235	0%	2,020	2,060	2%	0	0	0%	795	835	5%	1,225	1,225	0%	575	575	0%
SE	45	128, 129, 133, 134, 135, 136, 141, 142, 147	325	280	-14%	95	85	-11%	858	661	-23%	109	64	-41%	398	344	-14%	351	253	-28%	0	0	0%
SE	46	107, 112, 113, 114, 115, 120, 121	300	300	0%	215	215	0%	1,295	1,295	0%	300	300	0%	530	530	0%	465	465	0%	0	0	0%
SE	47	103, 109, 116, 117	375	375	0%	380	380	0%	1,540	1,540	0%	320	320	0%	570	570	0%	650	650	0%	100	100	0%
SE	48	110, 111, 118, 119, 123, 124	450	345	-23%	240	225	-6%	775	695	-10%	110	90	-18%	395	355	-10%	270	250	-7%	0	0	0%
NE	49	104, 105, 106	650	700	8%	170	260	53%	2,145	2,325	8%	100	100	0%	825	945	15%	1,220	1,280	5%	0	0	0%
SE	50	59, 511, 512, 591	175	175	0%	90	90	0%	635	635	0%	0	0	0%	473	473	0%	162	162	0%	80	80	0%
SW	51	52, 411, 521	130	130	0%	80	80	0%	1,780	1,780	0%	15	100	567%	1,315	1,230	-6%	450	450	0%	450	450	0%
SW	52	74, 741	135	135	0%	105	105	0%	560	570	2%	0	0	0%	520	530	2%	40	40	0%	40	40	0%
NW	53	444	120	120	0%	85	85	0%	600	600	0%	150	150	0%	370	370	0%	80	80	0%	0	0	0%
NE	54	93, 97, 98, 99, 100	150	155	3%	170	180	6%	1,985	2,020	2%	300	300	0%	650	685	5%	1,035	1,035	0%	0	0	0%
NE	55	101, 102	90	90	0%	90	90	0%	815	745	-9%	200	200	0%	275	225	-18%	340	320	-6%	80	60	-25%
		STATEWIDE TOTALS	13,896	13,216	-5%	9,266	8,851	-4%	78,845	67,366	-15%	7,010	5,054	-28%	52,520	48,011	-9%	19,315	14,301	-26%	4,235	4,195	-1%

DAU	CHRONIC WASTING DISEASE (CWD) TESTING — Adult Bucks Tested: Mandatory Testing Year(s)	Sample Size	Prevalence (%)	Confidence Interval (%)	POPULATION OBJECTIVES: 2022 Pop. Relative to Obj. Range	2022 Min.	2022 Max.	2022 Target	MODELED POST-HUNT POPULATIONS: 2021 ESTIMATE	2022 ESTIMATE	2023 PROJECTION	SEX RATIO OBJECTIVES: 2022 Sex Ratio Relative to Obj. Range	2022 Min.	2022 Max.	2022 Target	MODELED POST-HUNT SEX RATIOS: 2021 ESTIMATE	2022 ESTIMATE	2023 PROJECTION	Number of Animals Classified in 2022***	DAU	Region
01	2020-21	93	5%	2-12	Below	13,500	13,500	13,500	1,378	1,089	957	Above	15	15	15	25	18	6	3,012	01	NW
02	2018	1,505	18%	17-21	Below	37,800	37,800	37,800	38,859	27,703	19,782	Below	22	22	22	27	20	12	8,566	02	NW
03	2020-21	293	9%	6-13	Below	5,400	6,600	5,400	5,747	5,264	5,200	Within	30	40	40	45	37	32	433	03	NW
04	2022	362	5%	3-7	Above	13,000	15,000	14,000	13,974	15,173	14,340	Above	25	30	28	28	37	34	534	04	NE
05	2018-19	345	31%	26-36	Within	2,500	3,000	3,000	2,978	2,557	2,666	Within	30	35	35	38	34	31	427	05	NE
06	2020	23	4%	0-22	Below	7,000	7,000	7,000	957	702	639	Above	20	20	20	45	33	31	960	06	NW
07	2022	1,144	24%	21-26	Below	25,000	35,000	30,000	32,279	21,636	17,647	Within	18	25	20	24	21	15	13,749	07	NW
08	2022	442	3%	2-6	Within	10,000	14,000	12,000	14,463	13,665	14,308	Below	26	30	28	21	21	26	4,816	08	NW
09	2022	312	8%	5-12	Below	10,500	14,000	12,500	13,994	9,928	10,500	Below	30	35	32	35	28	27	748	09	NW
10	2022	212	8%	5-13	Below	8,000	10,000	9,000	8,407	7,472	7,501	Above	25	30	25	45	40	39	729	10	NE
11	2020	225	3%	1-6	Below	10,000	12,000	11,000	8,662	7,960	7,983	Within	30	35	33	33	31	31	1,246	11	NW
12	2018	489	1%	1-3	Within	17,000	23,000	20,000	16,550	17,184	17,251	Within	25	30	28	23	25	26	2,691	12	NW
13	2020	122	0%	0-3	Below	7,500	8,500	8,000	5,931	4,897	4,927	Below	30	35	33	27	22	21	1,948	13	NW
14	2020-21	63	0%	0-6	Within	1,500	3,500	2,500	2,190	2,230	2,232	Within	35	45	40	36	38	37	1,093	14	NW
15	2020	94	0%	0-4	Below	6,300	7,700	7,000	3,596	4,099	3,682	Below	30	35	30	24	26	29	428	15	SE
16	2020	302	0%	0-1	Below	16,000	20,000	18,000	13,536	13,121	12,802	Within	30	35	30	26	31	30	1,168	16	SE
17	2022	275	3%	1-5	Above	7,500	8,300	7,900	7,635	8,307	8,437	Above	20	30	25	32	37	37	604	17	NE
18	2020	81	0%	0-4	Below	6,500	8,500	7,500	3,904	3,802	3,833	Below	30	35	32	27	28	31	670	18	NW
19	2022	278	14%	10-19	Below	36,000	38,000	36,000	10,520	10,343	10,249	Below	34	36	34	30	33	31	1,972	19	SW
20	2020	191	0%	0-2	Within	7,500	9,500	9,500	7,849	8,745	8,751	Above	33	38	35	38	41	41	1,942	20	SW
21	2020	82	0%	0-4	Above	5,000	5,500	5,500	5,261	5,581	5,304	Above	35	40	38	48	47	45	1,569	21	SW
22	2020	142	0%	0-3	Above	5,000	5,500	5,500	6,221	6,539	5,767	Above	35	40	38	46	49	48	3,588	22	SW
23	2020	15	27%	8-55	Below	2,500	3,000	2,500	1,439	1,533	1,523	Above	25	30	30	34	32	31		23	SW
24	2020	424	3%	2-5	Within	15,000	19,000	17,000	14,949	17,649	16,262	Within	23	28	25	21	24	24	2,867	24	SW
25	2020	186	0%	0-2	Above	5,400	5,900	5,900	6,213	6,777	6,100	Above	35	40	38	41	45	41	2,746	25	SW
26	2020	130	0%	0-3	Below	5,500	6,500	6,000	5,425	5,455	5,459	Within	26	29	28	28	29	29	866	26	SW
27	2022	109	19%	12-28	Above	6,000	7,500	7,000	7,146	7,694	7,774	Above	25	30	27	53	55	55	545	27	NE
28	2019	262	9%	6-13	Above	3,600	3,600	3,600	6,308	6,368	6,296	Below	43	43	43	33	25	18	3,698	28	SE
29	2020	175	2%	1-6	Above	5,500	7,000	7,000	8,500	8,721	7,575	Above	23	28	25	30	30	20	1,051	29	SW
30	2020	578	0%	0-1	Below	23,000	27,000	25,000	24,349	22,737	22,860	Above	26	30	28	29	32	32	1,679	30	SW
31	2020	27	0%	0-13	Below	2,000	2,500	2,250	2,219	1,754	1,754	Above	35	40	35	46	42	42	726	31	SW
32	2019	209	0%	0-3	Within	9,800	10,800	10,000	10,418	9,815	9,444	Above	25	29	27	39	38	35	637	32	SE
33	2019-20	137	0%	0-3	Above	2,350	2,350	2,350	1,782	2,750	2,751	Within	33	33	33	36	50	50		33	SE
34	2019	396	0%	0-1	Below	16,500	17,500	17,000	13,075	13,667	12,504	Above	20	25	23	32	31	26	1,575	34	SE
35	2020	146	0%	0-2	Above	5,500	6,500	6,000	6,343	6,817	6,871	Above	23	25	25	29	30	31	1,036	35	SW
36	2020	75	0%	0-5	Within	2,200	2,800	2,500	2,566	2,625	2,605	Above	23	28	26	26	30	28	786	36	SW
37	2020	47	0%	0-8	Within	2,300	3,000	2,800	2,526	2,441	2,455	Within	25	29	28	31	29	30	263	37	SW
38	2020	145	1%	0-4	Above	2,500	3,100	2,800	3,587	3,445	3,488	Within	25	30	28	24	27	28	684	38	NE
40	2022	205	4%	2-8	Below	6,500	8,500	8,500	6,166	5,854	5,836	Below	25	30	25	25	22	22	625	40	SW
41	2020-21	234	6%	3-10	Below	6,500	8,500	7,500	4,478	4,172	4,218	Below	25	30	27	24	20	22	1,274	41	NW
42	2022	156	9%	5-15	Below	7,700	9,400	8,400	6,390	6,213	6,168	Within	30	35	32	24	27	26	1,138	42	NW
43	2022	193	7%	4-11	Within	5,000	6,000	5,500	5,464	5,203	5,216	Within	28	32	30	17	23	18	1,756	43	NW
44	2018-19	349	21%	17-26	Within	3,500	4,000	4,000	3,837	3,689	3,735	Above	30	35	35	37	38	30	3,296	44	NE
45	2019-20	131	1%	0-4	Below	3,400	3,400	3,400	3,136	3,291	3,337	Below	70	70	70	21	27	28		45	SE
46	2019	206	18%	13-24	Above	2,500	2,500	2,500	5,007	4,321	4,996	Below	50	50	50	38	37	37	185	46	SE
47	2019	169	26%	20-33	Above	2,000	2,000	2,000	3,348	3,319	3,227	Below	40	40	40	32	35	31	609	47	SE
48	2019-20	195	6%	3-10	Above	1,800	1,800	1,800	2,589	3,367	2,441	Below	45	45	45	11	11	5		48	SE
49	2019	278	10%	7-15	Above	5,500	6,500	6,000	5,778	6,607	6,484	Above	30	35	33	39	47	45	927	49	NE
50	2019-20	316	5%	3-8	Below	4,000	5,000	4,500	4,576	3,771	3,624	Below	35	40	38	36	31	30	484	50	SE
51	2020-21	381	7%	5-10	Within	8,000	10,000	10,000	9,108	9,151	9,100	Above	25	30	27	37	36	35	922	51	SW
52	2020	95	0%	0-4	Within	4,000	6,000	6,000	4,263	4,576	4,876	Below	25	30	30	19	24	28	435	52	SW
53	2020-21	192	1%	0-3	Within	4,000	6,000	5,000	4,262	4,112	4,492	Within	32	40	36	29	33	27	281	53	NW
54	2019	297	22%	18-27	Within	3,500	4,000	4,000	3,902	3,802	3,748	Above	30	35	35	40	35	32	1,497	54	NE
55	2019	175	30%	24-38	Below	2,300	2,700	2,700	2,386	2,228	2,353	Below	35	40	35	36	35	34	1,328	55	NE
		13,708				438,350	520,250	484,100	416,430	391,921	374,340		27	31	29	30	31	29	86,809		

* Rifle license numbers include regular rifle, Ranching for Wildlife, PLO, early rifle, late rifle, and Season Choice seasons
** Includes PLO Antlerless licenses
*** Number of Animals Classified includes both flight & ground surveys

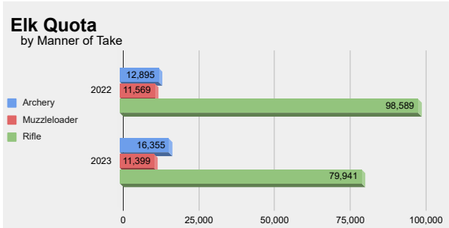
Plains DAUs

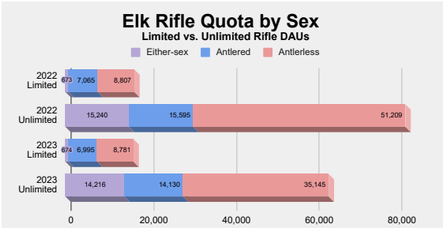
Plains DAUs

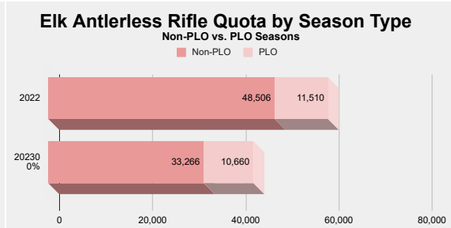
Region DAU Units Involved | 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE | LIMITED ARCHERY SEASONS | LIMITED MUZZLELOADER SEASONS | ALL LIMITED RIFLE | EITHER-SEX LICENSES | ANTLERED LICENSES | ANTLERLESS LICENSES** | PLO ANTLERLESS RIFLE | LIMITED RIFLE SEASONS* | DAU | Mandatory Testing Year(s) Sample Size Prevalence (%) Confidence Interval (%) | Adult Bucks Tested | CHRONIC WASTING DISEASE (CWD) TESTING | 2022 Pop. Relative to Obj. Range 2022 Min. 2022 Max. 2022 Target | POPULATION OBJECTIVES | 2021 ESTIMATE 2022 ESTIMATE 2023 PROJECTION | MODELED POST-HUNT POPULATIONS | 2022 Sex Ratio Relative to Obj. Range 2022 Min. 2022 Max. 2022 Target | SEX RATIO OBJECTIVES | 2021 ESTIMATE 2022 ESTIMATE 2023 PROJECTION | MODELED POST-HUNT SEX RATIOS | Number of Animals Classified in 2022*** | DAU Region

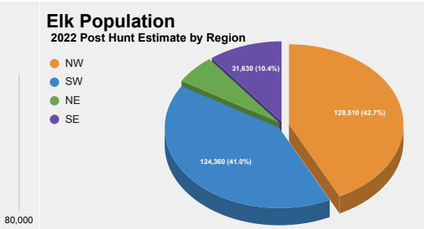
2023 ELK

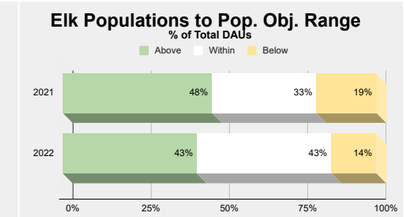
Colorado Parks and Wildlife
April 14, 2023

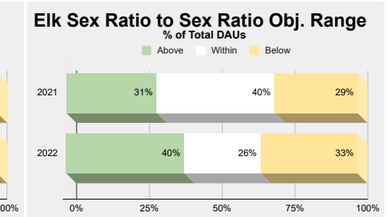












Estimated Population to Population Objective Range
% of Total DAUs

	2021	2022	% Change
Above	48%	43%	-5%
Within	33%	43%	10%
Below	19%	14%	-5%

Estimated Sex Ratio to Sex Ratio Objective Range
% of Total DAUs

	2021	2022	% Change
Above	31%	40%	10%
Within	40%	26%	-14%
Below	29%	33%	5%

positive % change = increase in licenses
negative % change = decrease in licenses

			LIMITED ARCHERY SEASONS			LIMITED MUZZLELOADER SEASONS			LIMITED RIFLE SEASONS*																		POPULATION OBJECTIVES				MODELED POST-HUNT POPULATIONS			SEX RATIO OBJECTIVES				MODELED POST-HUNT SEX RATIOS					
									ALL LIMITED RIFLE			EITHER-SEX LICENSES			ANTLERED LICENSES			ANTLERLESS LICENSES**			PLO ANTLERLESS RIFLE																						
Region	DAU	Units Involved	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	DAU	2023 Pop. Relative to Obj. Range	2023 Min.	2023 Max.	2023 Target	2021 ESTIMATE	2022 ESTIMATE	2023 PROJECTION	2023Sex Ratio Relative to Obj. Range	2023 Min.	2023 Max.	2023 Target	2021 ESTIMATE	2022 ESTIMATE	2023 PROJECTION	Number of Animals Classified in 2022***	DAU	Region
NW	01	2, 201	20	20	0%	30	30	0%	355	340	-4%	60	60	0%	0	0	0%	295	280	-5%	0	0	0%	01	Within	700	1,700	1,200	1,500	1,500	1,676	Above	40	40	40	37	46	43	3,574	01	NW
NW	02	3, 301, 4, 441, 5, 14, 214	500	500	0%	620	470	-24%	10,204	3,818	-63%	3,364	2,844	-15%	335	335	0%	6,505	639	-90%	850	150	-82%	02	Within	15,000	18,000	15,000	24,060	15,359	9,454	Within	20	25	22	25	23	2	5,437	02	NW
NW	03	6, 16, 161, 17, 171	0	0	0%	550	550	0%	6,358	6,068	-5%	1,264	1,234	-2%	0	0	0%	5,094	4,834	-5%	400	430	8%	03	Above	4,000	4,500	4,500	4,715	7,342	6,720	Within	20	23	23	21	21	18	3,522	03	NW
NE	04	7, 8, 9, 19, 191	1,110	1,110	0%	750	750	0%	4,400	4,310	-2%	0	0	0%	2,935	2,835	-3%	1,465	1,475	1%	605	655	8%	04	Above	3,600	4,200	4,200	6,440	5,915	5,469	Below	30	35	33	31	22	23	1,057	04	NE
SW	05	53, 54, 63	200	200	0%	250	250	0%	1,600	1,600	0%	150	150	0%	595	595	0%	855	855	0%	360	360	0%	05	Within	7,800	8,800	8,800	8,476	8,773	8,846	Below	23	28	25	20	17	13	2,868	05	SW
NW	06	11, 12, 13, 23, 24, 25, 26, 33, 34, 131, 211, 231	1,350	1,350	0%	1,050	1,050	0%	20,979	10,525	-50%	1,168	1,073	-8%	6,330	4,830	-24%	13,481	4,622	-66%	1,910	1,260	-34%	06	Within	32,000	39,000	39,000	40,581	38,891	26,679	Below	22	27	22	13	22	8	16,278	06	NW
NW	07	15, 27	0	0	0%	425	425	0%	3,765	3,510	-7%	1,100	1,130	3%	0	0	0%	2,665	2,380	-11%	425	425	0%	07	Within	4,000	5,000	5,000	4,868	4,794	5,135	Above	24	28	28	35	38	41	1,180	07	NW
NW	08	18, 181	0	0	0%	565	565	0%	6,025	5,645	-6%	2,400	2,400	0%	0	0	0%	3,625	3,245	-10%	500	400	-20%	08	Within	3,600	4,300	4,000	4,145	4,041	4,197	Above	21	26	24	42	36	39	3,112	08	NW
NE	09	20	125	125	0%	40	40	0%	940	885	-6%	0	0	0%	190	210	11%	750	675	-10%	350	375	7%	09	Within	2,200	2,600	2,400	2,107	2,249	2,253	Above	40	45	45	48	47	46	1,575	09	NE
NW	10	21, 22, 30, 31, 32	0	0	0%	325	325	0%	3,710	2,585	-30%	125	75	-40%	860	860	0%	2,725	1,650	-39%	350	350	0%	10	Above	7,000	9,000	8,000	14,930	15,574	15,856	Above	18	22	20	22	28	26	5,529	10	NW
SW	11	82	0	0	0%	125	125	0%	925	925	0%	400	400	0%	0	0	0%	525	525	0%	0	0	0%	11	Above	3,000	4,000	3,500	5,783	5,940	5,877	Above	17	23	23	35	31	30	2,022	11	SW
NW	12	35, 36	0	0	0%	285	285	0%	855	855	0%	295	295	0%	0	0	0%	560	560	0%	140	140	0%	12	Within	3,000	4,600	3,800	4,092	3,780	4,110	Within	22	44	33	21	24	26	1,856	12	NW
NW	13	28, 37, 371	0	0	0%	540	485	-10%	4,085	3,430	-16%	1,685	1,400	-17%	0	0	0%	2,400	2,030	-15%	250	175	-30%	13	Below	4,700	5,500	5,000	4,121	3,609	3,625	Above	24	31	24	40	39	39	1,790	13	NW
NW	14	41, 411, 42, 421, 52, 521	0	3,450	100%	875	845	-3%	4,895	4,900	0%	350	350	0%	1,200	1,200	0%	3,345	3,350	0%	1,000	1,000	0%	14	Within	15,000	19,000	15,000	14,337	15,683	15,527	Above	20	25	22	28	25	24	5,702	14	NW
NW	15	43, 471	0	0	0%	215	215	0%	1,400	1,400	0%	335	335	0%	0	0	0%	1,065	1,065	0%	110	110	0%	15	Within	3,600	5,400	4,500	4,436	4,199	4,219	Within	17	27	22	23	23	22	1,306	15	NW
NW	16	44, 444, 45, 47	700	800	14%	210	210	0%	285	460	61%	0	0	0%	260	260	0%	25	200	700%	0	50	100%	16	Above	5,500	8,500	7,000	7,597	8,511	9,477	Within	18	30	24	20	24	23	2,634	16	NW
SE	17	48, 481, 56, 561	370	370	0%	250	250	0%	1,060	1,050	-1%	0	0	0%	535	535	0%	525	515	-2%	60	60	0%	17	Within	3,150	3,850	3,500	3,066	3,240	3,347	Below	30	35	30	22	26	26	878	17	SE
NE	18	50, 500, 501	240	240	0%	250	250	0%	1,380	1,385	0%	0	0	0%	470	475	1%	910	910	0%	80	90	13%	18	Within	2,000	2,400	2,200	2,259	2,164	2,080	Above	35	40	35	37	53	46	1,239	18	NE
NW	19	40	65	65	0%	45	45	0%	399	439	10%	129	130	1%	0	0	0%	270	309	14%	100	120	20%	19	Above	2,800	3,800	3,300	3,914	4,835	4,798	Below	30	35	32	25	25	24	2,058	19	NW
SW	20	61, 62	90	90	0%	280	280	0%	1,980	1,980	0%	280	280	0%	595	595	0%	1,105	1,105	0%	220	220	0%	20	Above	8,500	9,500	9,500	12,540	13,732	13,724	Above	16	20	20	22	23	23	4,706	20	SW
NW	21	10	15	15	0%	10	10	0%	671	281	-58%	36	36	0%	0	0	0%	635	245	-61%	150	50	-67%	21	Within	1,200	1,200	1,200	1,477	1,200	1,618	Above	40	40	40	40	59	63	2,247	21	NW
SE	22	49, 57, 58	350	350	0%	330	330	0%	1,670	1,810	8%	0	0	0%	540	540	0%	1,130	1,270	12%	250	250	0%	22	Above	3,150	3,500	3,300	3,847	3,666	3,437	Below	35	40	35	30	28	28	1,911	22	SE
SE	23	511, 512, 581, 59, 591	0	0	0%	220	220	0%	1,220	1,360	11%	0	0	0%	455	455	0%	765	905	18%	370	500	35%	23	Above	2,700	3,300	3,000	4,512	4,833	4,683	Above	15	25	20	23	27	28	1,394	23	SE
SW	24	70, 71, 711, 72, 73	1,750	1,750	0%	485	485	0%	1,675	1,920	15%	200	300	50%	920	920	0%	555	700	26%	195	270	38%	24	Below	21,000	24,000	22,500	19,551	19,898	20,601	Within	12	20	16	17	16	15	7,660	24	SW
SW	25	66, 67	250	250	0%	150	150	0%	2,065	2,065	0%	0	0	0%	1,095	1,095	0%	970	970	0%	0	0	0%	25	Within	6,000	7,000	7,000	6,568	6,380	6,418	Below	23	28	23	24	19	18	3,069	25	SW
SW	26	68, 681	0	0	0%	95	95	0%	635	635	0%	0	0	0%	505	505	0%	130	130	0%	10	10	0%	26	Within	4,000	4,800	4,500	4,814	4,227	4,284	Below	18	22	20	21	16	18	1,394	26	SW
SE	27	86, 691, 861	0	0	0%	195	195	0%	815	965	18%	315	315	0%	0	0	0%	500	650	30%	300	425	42%	27	Above	1,800	2,200	2,100	2,337	2,789	2,578	Below	18	30	21	19	16	17	973	27	SE
SE	28	69, 84	105	105	0%	80	85	6%	659	854	30%	37	37	0%	225	240	7%	397	577	45%	200	350	75%	28	Within	2,400	2,800	2,600	2,291	2,752	2,985	Within	35	40	37	37	38	38	650	28	SE
SW	30	74, 741	600	600	0%	195	195	0%	445	460	3%	0	0	0%	340	340	0%	105	120	14%	45	45	0%	30	Below	7,500	9,000	8,300	6,135	6,323	6,832	Within	15	25	20	15	17	18	1,489	30	SW
SW	31	75, 751, 77, 771, 78	1,965	1,855	-6%	415	465	12%	1,715	1,715	0%	0	0	0%	1,415	1,415	0%	300	300	0%	55	55	0%	31	Below	25,000	28,000	26,500	23,670	24,253	25,620	Below	12	20	16	14	11	12	5,590	31	SW
SW	32	80, 81	2,000	2,000	0%	165	185	12%	830	1,135	37%	0	0	0%	490	490	0%	340	645	90%	40	40	0%	32	Above	11,500	13,000	12,000	12,858	13,502	13,295	Within	18	21	20	17	20	19	2,640	32	SW
SE	33	83, 85, 851, 140	8	8	0%	355	330	-7%	2,051	1,798	-12%	1,348	1,164	-14%	20	20	0%	683	614	-10%	365	325	-11%	33	Below	14,000	16,000	16,000	14,892	13,051	14,275	Below	35	40	37	33	35	35	3,336	33	SE
SW	34	76, 79	160	160	0%	140	140	0%	1,660	1,740	5%	0	0	0%	645	645	0%	1,015	1,095	8%	0	0	0%	34	Within	6,000	8,000	7,000	7,330	7,418	7,398	Above	20	25	25	30	31	31	1,943	34	SW
SW	35	64, 65	0	0	0%	230	230	0%	1,955	1,910	-2%	765	765	0%	0	0	0%	1,190	1,145	-4%	425	480	13%	35	Below	6,000	9,000	9,000	7,398	5,782	5,901	Above	20	25	20	23	29	29	2,036	35	SW
NE	38	29, 38	30	30	0%	90	90	0%	465	550	18%	0	0	0%	50	60	20%	415	490	18%	100	110	10%	38	Above	1,000	1,400	1,200	1,554	1,405	1,402	Below	35	40	35	29	27	27	1,004	38	NE
NE	39	39, 46, 391, 461	240	260	8%	240	240	0%	760	845	11%	0	0	0%	375	365	-3%	385	480	25%	255	290	14%	39	Above	2,200	2,600	2,400	2,424	2,610	2,640	Within	30	40	35	37	38	39	271	39	NE
SW	40	60	0	0	0%	30	35	17%	235	250	6%	70	80	14%	45	45	0%	120	125	4%	80	80	0%	40	Within	900	1,100	1,100	2,582	1,049	1,038	Within	25	30	30	31	26	24		40	SW
SW	43	55, 551	525	525	0%	275	275	0%	965	965	0%	0	0	0%	250	250	0%	715	715	0%	0	0	0%	43	Above	3,000	3,500	3,500	6,552	6,937	7,223	Below	25	25	25	26	25	27	2,647	43	SW
NW	47	1	2	2	0%	9	9	0%	111	111	0%	11	11	0%	0	0	0%	100	100	0%	10	10	0%	47	Above	170	170	170	202	202	246	Above	30	30	30	33	33	33	937	47	NW
NE	51	51, 104, 105, 106, 110, 111	125	125	0%	125	135	8%	937	1,022	9%	26	26	0%	255	280	10%	656	716	9%	500	550	10%	51	Above	1,200	1,200	1,200	2,520	3,332	3,383	Above	40	40	40	24	42	42		51	NE
SE	53	133, 134, 135, 141, 142	0	0	0%	20	20	0%	100	100	0%	0	0	0%	30	30	0%	70	70	0%	0	0	0%	53	Above	250	250	250	1,270	1,295	1,436	Below	40	40	40	27	23	26		53	SE
SW	55	682, 791	0	0	0%	10	10	0%	1,150	1,150	0%	0	0	0%	700	700	0%	450	450	0%	450	450	0%	55	Above	0	0	0	150	150	172	Above	0	0	0	16	14	-32		55	SW
SE	99	eastern plains units not in a DAU	0	0	0%	25	25	0%	200	180	-10%	0	0	0%	0	0	0%	200	180	-10%	0	0	0%	99							0									99	SE
		STATEWIDE TOTALS	12,895	16,355	27%	11,569	11,399	-1%	98,589	79,941	-19%	15,913	14,890	-6%	22,660	21,125	-7%	60,016	43,926	-27%	11,510	10,660	-7%			252,120	305,670	284,220	308,910	303,190	290,540		21	27	23	23	24	22	109,514		

DAUs with OTC Bull Rifle Licenses

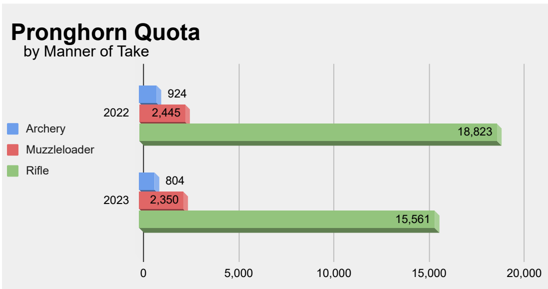
* Rifle license numbers include regular rifle, Ranching for Wildlife, PLO, early rifle, late rifle, and Season Choice seasons
** Includes PLO Antlerless licenses
*** Number of Animals Classified includes both flight & ground surveys

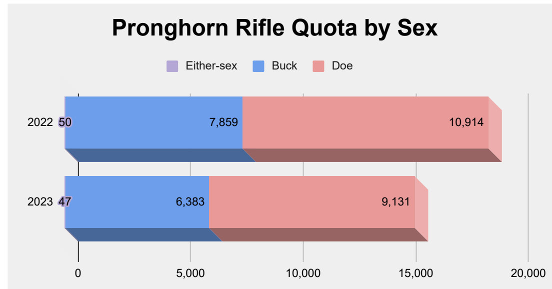
DAUs with OTC Bull Rifle Licenses

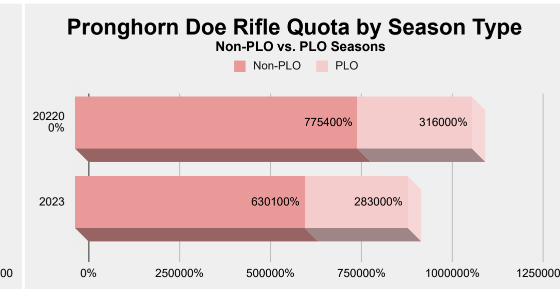
Region DAU Units Involved 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE DAU 2023 Pop. Relative to Obj. Range 2023 Min. 2023 Max. 2023 Target 2021 ESTIMATE 2022 ESTIMATE 2023 PROJECTION 2023Sex Ratio Relative to Obj. Range 2023 Min. 2023 Max. 2023 Target 2021 ESTIMATE 2022 ESTIMATE 2023 PROJECTION Number of Animals Classified in 2022*** DAU Region
LIMITED ARCHERY SEASONS
LIMITED MUZZLELOADER SEASONS
ALL LIMITED RIFLE
EITHER-SEX LICENSES
ANTLERED LICENSES
ANTLERLESS LICENSES**
PLO ANTLERLESS RIFLE
LIMITED RIFLE SEASONS*
POPULATION OBJECTIVES
MODELED POST-HUNT POPULATIONS
SEX RATIO OBJECTIVES
MODELED POST-HUNT SEX RATIOS

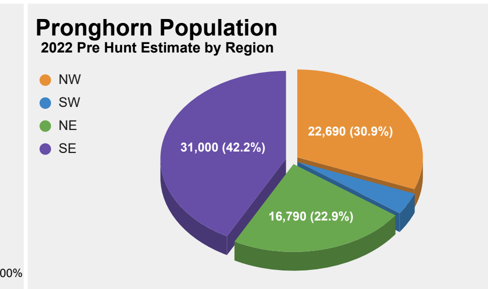
2023 PRONGHORN

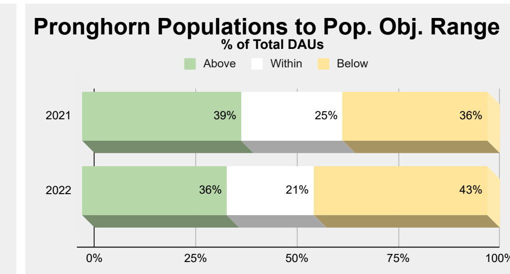
Colorado Parks and Wildlife
April 14, 2023

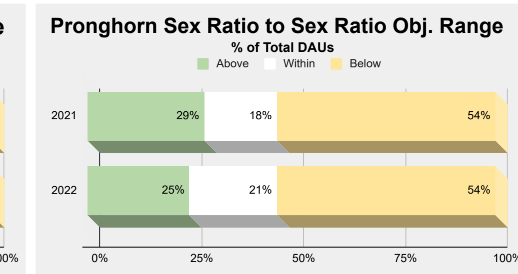












Estimated Population to Population Objective Range
% of Total DAUs

	2021	2022	% Change
Above	39%	36%	-4%
Within	25%	21%	-4%
Below	36%	43%	7%

Estimated Sex Ratio to Sex Ratio Objective Range
% of Total DAUs

	2021	2022	% Change
Above	29%	25%	-4%
Within	18%	21%	4%
Below	54%	54%	0%

positive % change = increase in licenses
negative % change = decrease in licenses

			LIMITED ARCHERY SEASONS			LIMITED MUZZLELOADER SEASONS			LIMITED RIFLE SEASONS* — ALL LIMITED RIFLE			EITHER-SEX LICENSES			BUCK LICENSES			DOE LICENSES**			PLO DOE RIFLE		
Region	DAU	Units Involved	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE
NE	01	87, 88, 89, 90, 94, 95, 951	250	240	-4%	155	145	-6%	1,370	1,205	-12%	0	0	0%	725	650	-10%	645	555	-14%	380	340	-11%
NE	02	99, 100	0	0	0%	25	25	0%	205	155	-24%	0	0	0%	105	90	-14%	100	65	-35%	0	0	0%
NW	03	6, 16, 17, 161, 171	90	125	39%	65	145	123%	200	284	42%	7	9	29%	83	93	12%	110	182	65%	0	0	0%
NE	04	93, 97, 98, 101, 102	0	0	0%	10	10	0%	105	80	-24%	0	0	0%	65	50	-23%	40	30	-25%	0	0	0%
SE	05	120, 121, 125, 126	0	0	0%	100	100	0%	1,100	825	-25%	0	0	0%	400	325	-19%	700	500	-29%	0	475	100%
SE	06	112, 113, 114, 115	0	0	0%	100	100	0%	1,650	1,425	-14%	0	0	0%	450	375	-17%	1,200	1,050	-13%	0	0	0%
SE	07	128, 129, 133, 134, 135, 140, 141, 142, 147	0	0	0%	185	140	-24%	2,410	1,845	-23%	0	0	0%	931	805	-14%	1,479	1,040	-30%	650	415	-36%
SE	08	110, 111, 118, 119, 123, 124	0	0	0%	800	700	-13%	3,255	2,825	-13%	0	0	0%	1,105	1,010	-9%	2,150	1,815	-16%	0	0	0%
NW	09	3, 4, 5, 13, 14, 214, 301, 441	260	105	-60%	120	90	-25%	2,032	412	-80%	6	3	-50%	1,289	309	-76%	737	100	-86%	430	45	-90%
NW	10	11	10	10	0%	10	10	0%	61	24	-61%	0	0	0%	36	13	-64%	25	11	-56%	0	0	0%
NW	11	1, 2, 201	10	10	0%	10	10	0%	85	40	-53%	0	0	0%	60	30	-50%	25	10	-60%	0	0	0%
SE	12	116, 117, 122, 127	0	0	0%	100	100	0%	470	470	0%	0	0	0%	160	160	0%	310	310	0%	0	0	0%
SE	13	130, 136, 137, 138, 143, 144, 146	0	0	0%	100	100	0%	1,286	1,124	-13%	2	4	100%	433	421	-3%	851	699	-18%	720	600	-17%
SW	14	68, 79, 82, 681, 682, 791	40	50	25%	15	15	0%	145	145	0%	0	0	0%	110	105	-5%	35	40	14%	30	30	0%
SW	16	80, 81, 83	30	30	0%	0	0	0%	90	75	-17%	0	0	0%	90	75	-17%	0	0	0%	0	0	0%
SE	18	132, 139, 145	0	0	0%	40	40	0%	1,020	1,020	0%	0	0	0%	210	210	0%	810	810	0%	800	800	0%
SE	19	103, 106, 107, 109	0	0	0%	60	60	0%	770	920	19%	0	0	0%	430	480	12%	340	440	29%	0	0	0%
SE	20	69, 84, 85, 86, 691, 851, 861	0	0	0%	135	125	-7%	475	480	1%	0	0	0%	200	180	-10%	275	300	9%	0	0	0%
NW	21	10, 21	0	0	0%	0	0	0%	10	10	0%	0	0	0%	10	10	0%	0	0	0%	0	0	0%
SW	23	66, 67, 551	9	9	0%	5	5	0%	12	12	0%	0	0	0%	12	12	0%	0	0	0%	0	0	0%
NE/SE	30	49, 50, 57, 58, 500, 501, 511, 581	100	100	0%	40	40	0%	150	115	-23%	0	0	0%	85	65	-24%	65	50	-23%	0	0	0%
SE	31	59, 591	0	0	0%	10	10	0%	25	25	0%	0	0	0%	15	15	0%	10	10	0%	0	0	0%
NE	33	9, 19, 191	0	0	0%	35	35	0%	290	290	0%	0	0	0%	145	145	0%	145	145	0%	35	35	0%
NW	34	12, 23, 211	10	10	0%	10	10	0%	95	43	-55%	6	2	-67%	40	20	-50%	49	21	-57%	35	10	-71%
NE	35	51, 104, 105	0	0	0%	180	200	11%	1,092	1,292	18%	29	29	0%	485	550	13%	578	713	23%	0	0	0%
NE	36	7, 8	0	0	0%	15	15	0%	90	90	0%	0	0	0%	50	50	0%	40	40	0%	30	30	0%
NW	37	15, 18, 26, 27, 28, 37, 181, 231, 371	75	75	0%	110	110	0%	320	320	0%	0	0	0%	130	130	0%	190	190	0%	50	50	0%
SE	39	48, 56, 481	40	40	0%	10	10	0%	10	10	0%	0	0	0%	5	5	0%	5	5	0%	0	0	0%
ALL	99	units not in a DAU	3	3	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%
		STATEWIDE TOTALS	924	804	-13%	2,445	2,350	-4%	18,823	15,561	-17%	50	47	-6%	7,859	6,383	-19%	10,914	9,131	-16%	3,160	2,830	-10%

	POPULATION OBJECTIVES				MODELED PRE-HUNT POPULATIONS			SEX RATIO OBJECTIVES				MODELED PRE-HUNT SEX RATIOS					
DAU	2023 Pop. Relative to Obj. Range	2023 Min.	2023 Max.	2023 Target	2021 ESTIMATE	2022 ESTIMATE	2023 PROJECTION	2023 Sex Ratio Relative to Obj. Range	2023 Min.	2023 Max.	2023 Target	2021 ESTIMATE	2022 ESTIMATE	2023 PROJECTION	Number of Animals Classified in 2022***	DAU	Region
01	Below	6,500	7,500	7,000	6,633	5,948	5,820	Below	30	35	30	31	21	16		01	NE
02	Below	1,400	1,700	1,500	1,323	1,278	1,288	Above	25	30	30	32	30	26		02	NE
03	Above	1,400	1,600	1,600	1,759	1,906	1,839	Above	30	40	40	34	41	40	1,735	03	NW
04	Above	550	650	650	666	666	696	Below	25	30	30	11	17	19		04	NE
05	Below	3,000	4,000	3,500	3,092	2,757	2,808	Below	35	45	40	25	30	30	1,083	05	SE
06	Below	2,250	2,750	2,500	2,895	1,878	1,903	Within	20	30	25	32	23	25	669	06	SE
07	Within	7,800	8,800	8,000	8,693	8,043	8,333	Within	30	40	35	30	31	31	1,227	07	SE
08	Above	5,400	6,600	6,000	8,238	7,491	7,667	Below	25	35	30	29	24	26	1,252	08	SE
09	Above	15,800	15,800	15,800	20,532	17,891	12,515	Below	55	55	55	40	34	32	8,022	09	NW
10	Below	1,400	1,400	1,400	779	906	761	Above	40	40	40	46	45	50	412	10	NW
11	Below	3,200	3,200	3,200	841	860	836	Below	68	68	68	32	27	31	372	11	NW
12	Within	1,500	2,000	1,750	1,363	1,638	1,750	Below	35	45	40	23	24	28	655	12	SE
13	Below	3,000	4,000	3,500	2,710	2,753	2,811	Below	23	31	27	21	22	21		13	SE
14	Below	2,000	2,500	2,000	1,487	1,632	1,719	Below	27	33	30	11	17	19	778	14	SW
16	Below	1,000	1,500	1,250	848	883	903	Below	27	33	30	19	20	19	301	16	SW
18	Within	300	1,500	1,000	1,000	1,000	1,223	Within	40	100	40	50	50	50		18	SE
19	Above	1,800	2,200	2,000	2,415	2,466	2,376	Below	30	40	35	20	15	17	979	19	SE
20	Within	2,200	2,600	2,400	2,254	2,497	2,577	Below	30	40	35	27	28	33	1,332	20	SE
21	Below	300	300	300	250	250	287	Above	30	30	30	88	88	79	155	21	NW
23	Below	450	450	450	414	444	341	Below	40	40	40	36	32	30	349	23	SW
30	Above	1,000	1,200	1,100	1,334	1,225	1,168	Within	30	35	35	25	32	29		30	NE/SE
31	Above	200	200	200	271	241	230	Below	80	80	80	59	62	56		31	SE
33	Above	1,000	1,200	1,050	1,209	1,230	1,193	Above	25	30	27	103	44	44	253	33	NE
34	Below	300	300	300	187	149	99	Below	35	35	35	27	24	-7	131	34	NW
35	Above	4,000	5,000	4,500	5,489	5,867	5,715	Above	30	35	35	47	45	40		35	NE
36	Within	550	650	600	577	580	580	Within	30	35	33	44	30	34	347	36	NE
37	Within	600	800	700	697	728	703	Above	35	45	40	76	74	71	437	37	NW
39	Above	150	200	200	226	235	239	Within	20	25	25	20	21	22	142	39	SE
99																99	ALL
		69,050	80,600	74,450	78,190	73,440	68,380		36	43	39	35	31	34	20,631		

* Rifle license numbers include regular rifle, Ranching for Wildlife, PLO, early rifle, late rifle, and Season Choice seasons

** Includes PLO Antlerless licenses

*** Number of Animals Classified includes both flight & ground surveys

Plains DAUs

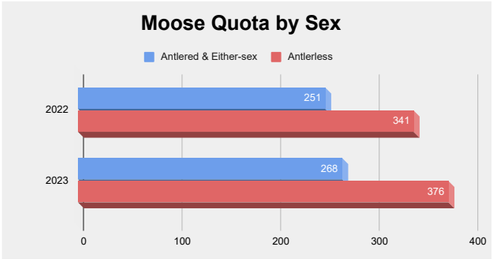
Plains DAUs

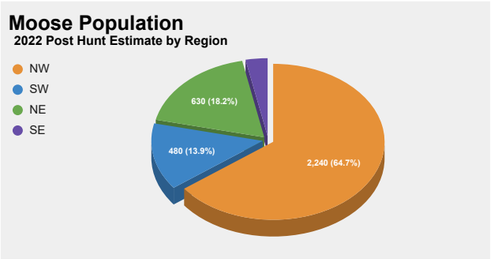
Region DAU Units Involved | 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE (×7) | DAU | 2023 Pop. Relative to Obj. Range 2023 Min. 2023 Max. 2023 Target | 2021 ESTIMATE 2022 ESTIMATE 2023 PROJECTION | 2023 Sex Ratio Relative to Obj. Range 2023 Min. 2023 Max. 2023 Target | 2021 ESTIMATE 2022 ESTIMATE 2023 PROJECTION | Number of Animals Classified in 2022*** | DAU Region

LIMITED ARCHERY SEASONS | LIMITED MUZZLELOADER SEASONS | ALL LIMITED RIFLE | EITHER-SEX LICENSES | BUCK LICENSES | DOE LICENSES** | PLO DOE RIFLE | LIMITED RIFLE SEASONS* | POPULATION OBJECTIVES | MODELED PRE-HUNT POPULATIONS | SEX RATIO OBJECTIVES | MODELED PRE-HUNT SEX RATIOS

2023 MOOSE

Colorado Parks and Wildlife
April 14, 2023





positive % change = increase in licenses
negative % change = decrease in licenses

			ANTLERED & EITHER-SEX SEASONS						ANTLERLESS SEASONS						TOTAL LICENSES FOR ALL SEASONS									POPULATION OBJECTIVES				MODELED POST-HUNT POPULATIONS			POST-HUNT SEX RATIO OBJECTIVES				MODELED POST-HUNT SEX RATIOS				
			Nonresident Licenses			Resident Licenses*			Nonresident Licenses			Resident Licenses*			Antlered & Either-sex			Antlerless																					
Region	DAU	Units Involved	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 PERCENT CHANGE	DAU	2022 Pop. Relative to Pop. Obj. Range	Minimum	Maximum	Target	2021 ESTIMATE	2022 ESTIMATE	2023 PROJECTION	2022Sex Ratio Relative to Obj. Range	Minimum	Maximum	Target	2021 ESTIMATE	2022 ESTIMATE	Number of Animals Classified in 2022**	DAU	Region
NW	01	6, 16, 17, 161, 171	5	5	0%	61	64	5%	9	12	33%	93	100	8%	66	69	5%	102	112	10%	01	Above	500	600	550	820	690	680	Above	60	70	65	81	76	399	01	NW
NE	02	7, 8, 19, 191	3	3	0%	20	20	0%	5	6	20%	45	44	-2%	23	23	0%	50	50	0%	02	Above	200	250	225	330	250	200	Above	70	85	75	135	154		02	NE
NW	03	15, 18, 27, 28, 36, 37, 181, 361, 371	8	7	-13%	50	51	2%	8	9	13%	60	65	8%	58	58	0%	68	74	9%	03	Above	190	190	190	310	360	350	Below	65	65	65	74	29	164	03	NW
SW	04	65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 681, 682, 711, 741, 751, 771, 791	2	3	50%	19	21	11%	0	0	0%	11	11	0%	21	24	14%	11	11	0%	04	Within	400	500	450	460	480	490	Below	55	65	60	50	50		04	SW
NW	05	41, 42, 43, 52, 53, 54, 63, 64, 411, 421, 521	2	2	0%	15	15	0%	3	3	0%	29	29	0%	17	17	0%	32	32	0%	05	Above	300	400	400	840	840	810	Within	55	65	60	79	57	105	05	NW
NW	06	12, 13, 23, 24, 25, 26, 33, 34, 35, 131, 231	1	1	0%	10	8	-20%	1	1	0%	15	17	13%	11	9	-18%	16	18	13%	06	Within	100	200	150	150	150	140	Within	50	50	50	50	50	48	06	NW
NE	07	20, 29, 38	0	0	0%	7	9	29%	3	2	-33%	17	23	35%	7	9	29%	20	25	25%	07	Within	150	150	150	100	150	150	Above	80	80	80	80	100		07	NE
NE	08	39, 46, 49, 60, 51, 391, 500, 501	1	2	100%	16	20	25%	2	2	0%	24	32	33%	17	22	29%	26	34	31%	08	Within	225	225	225	150	230	230	Above	65	65	65	82	100		08	NE
NW	09	4, 5, 14, 214, 441	2	2	0%	14	18	29%	2	2	0%	11	13	18%	16	20	25%	13	15	15%	09	Above	40	100	80	150	150	140	Within	50	80	70	80	74	28	09	NW
NW	10	1, 201	0	0	0%	1	1	0%	0	0	0%	0	0	0%	1	1	0%	0	0	0%	10	Within	15	15	15	20	20	10	Below	100	100	100	75	50		10	NW
NW	11	44, 45, 47, 444, 471	0	1	100%	5	4	-20%	0	0	0%	1	3	200%	5	5	0%	1	3	200%	11	Within	30	60	45	40	40	30	Above	0	100	65	100	109	26	11	NW
SE/SW	12	48, 55, 56, 471, 481, 551, 561	0	0	0%	9	11	22%	0	0	0%	2	2	0%	9	11	22%	2	2	0%	12	Within	110	110	110	150	110	100	Within	50	50	50	50	50		12	SE/SW
		STATEWIDE TOTALS	24	26	8%	227	242	7%	33	37	12%	308	339	10%	251	268	7%	341	376	10%			2,260	2,800	2,590	3,500	3,460	3,320		68	63	64	78	69	770		

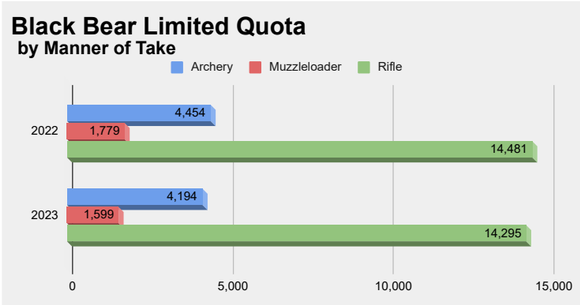
*Ranching for Wildlife quota are included in resident licenses
**Number of Animals Classified includes both flight & ground surveys

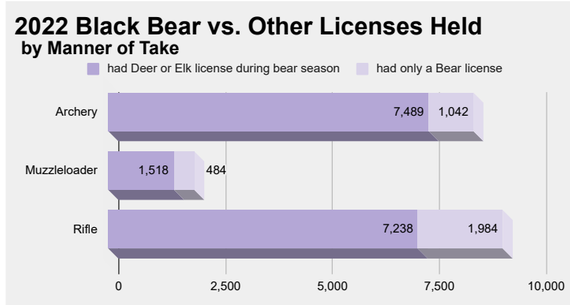
Region DAU Units Involved
2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE 2022 LICENSES 2023 LICENSES 2022-2023 PERCENT CHANGE DAU
Nonresident Licenses Resident Licenses* Nonresident Licenses Resident Licenses* Antlered & Either-sex Antlerless
ANTLERED & EITHER-SEX SEASONS ANTLERLESS SEASONS TOTAL LICENSES FOR ALL SEASONS
2022 Pop. Relative to Pop. Obj. Range Minimum Maximum Target 2021 ESTIMATE 2022 ESTIMATE 2023 PROJECTION 2022Sex Ratio Relative to Obj. Range Minimum Maximum Target 2021 ESTIMATE 2022 ESTIMATE Number of Animals Classified in 2022** DAU Region
POPULATION OBJECTIVES MODELED POST-HUNT POPULATIONS POST-HUNT SEX RATIO OBJECTIVES MODELED POST-HUNT SEX RATIOS

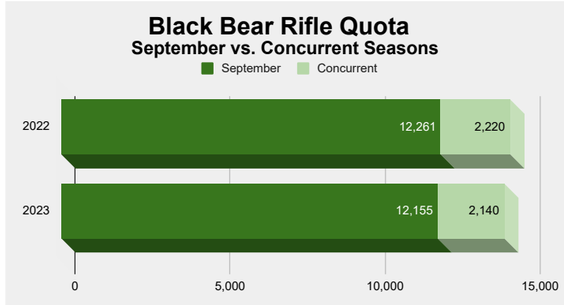
2023 BEAR

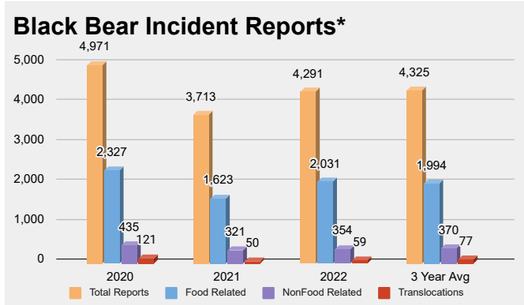
Colorado Parks and Wildlife

April 14, 2023









*The 2020-2024 Big Game Season Structure created unlimited OTC black bear licenses in DAUs which have a management strategy of reducing bear populations and where harvest objectives are not being met.

* Each incident report may be counted in more than one category.

positive % change = increase in licenses

negative % change = decrease in licenses

				HAS UNLIMITED OTC SEASONS				LIMITED ARCHERY SEASONS			LIMITED MUZZLELOADER SEASONS			LIMITED RIFLE SEASONS									2020-2022 AGE/GENDER COMPOSITION				
				ARCHERY, MUZZLELOADER, & CONCURRENT RIFLE		PRIVATE LAND ONLY (PLO)								SEPTEMBER RIFLE ***			CONCURRENT RIFLE			2023 PREDICTED		3 YEAR (2020-2022) AVERAGE		% IN HARVEST				
Region	DAU	Units Involved	DAU Management Goal	2022 LICENSES	2023 LICENSES	2022 LICENSES	2023 LICENSES	2022 LICENSES	2023 LICENSES	2022-2023 CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 CHANGE	2022 LICENSES	2023 LICENSES	2022-2023 CHANGE	HARVEST	TOTAL MORTALITY	HARVEST	TOTAL MORTALITY	ADULT MALE	FEMALES	ADULT FEMALES IN FEMALE HARVEST	DAU	Region
NW	01	21, 22, 30, 31, 32	Slight Decrease	YES	YES	YES	YES	175	175	0%	60	60	0%	775	775	0%	0	0	0%	87	105	69	87	25%	37%	43%	01	NW
SE	02	58, 59, 511, 512, 581, 591	Stable following Decrease	no	no	YES	YES	175	175	0%	70	70	0%	170	170	0%	175	175	0%	24	53	25	53	21%	50%	58%	02	SE
NE	03	7, 8, 9, 19, 20, 29, 38, 191	Stable	no	no	YES	YES	130	130	0%	55	55	0%	225	225	0%	320	320	0%	28	53	29	53	24%	38%	45%	03	NE
NW	04	4, 5, 6, 14, 16, 17, 161, 171, 214, 441	Decrease	YES	YES	YES	YES	300	300	0%	100	100	0%	1,200	1,200	0%	0	0	0%	95	138	98	139	15%	45%	49%	04	NW
SW	05	40, 60, 61, 62, 64, 65, 70	Decrease	mixed	mixed	YES	YES	630	430	-32%	140	140	0%	1,360	1,310	-4%	10	10	0%	204	248	209	252	32%	38%	63%	05	SW
SW	06	71, 72, 73, 74, 711, 741	Decrease	YES	YES	YES	YES	120	120	0%	35	35	0%	780	780	0%	0	0	0%	120	145	114	139	33%	38%	64%	06	SW
SE	07	69, 82, 83, 84, 85, 86, 140, 691, 851, 861	Stable following Decrease	no	no	YES	YES	154	154	0%	69	69	0%	329	323	-2%	260	260	0%	131	180	132	182	24%	38%	53%	07	SE
NW	10	12, 13, 23, 24, 25, 26, 33, 34, 131, 231	Slight Decrease	YES	YES	YES	YES	510	510	0%	250	150	-40%	1,240	1,340	8%	0	0	0%	178	303	150	272	15%	37%	46%	10	NW
NW	11	35, 36, 43, 44, 45, 47, 444, 471	Stable	no	no	YES	YES	630	570	-10%	300	270	-10%	1,520	1,370	-10%	800	720	-10%	113	163	111	161	23%	41%	59%	11	NW
SW	12	54, 55, 66, 67, 551	Stable	no	no	no	no	160	160	0%	120	120	0%	190	190	0%	130	130	0%	19	24	19	24	40%	35%	71%	12	SW
SW	13	68, 76, 79, 80, 81, 681, 682, 791	Stable	no	no	no	no	140	140	0%	60	60	0%	250	250	0%	110	110	0%	21	29	20	28	38%	29%	67%	13	SW
SE	14	48, 49, 56, 57, 481, 561	Stable	no	no	YES	YES	110	110	0%	45	45	0%	250	250	0%	240	240	0%	8	13	10	15	33%	33%	67%	14	SE
NW	15	1, 2, 3, 10, 11, 201, 211, 301	Stable	no	no	no	no	95	95	0%	40	40	0%	177	177	0%	175	175	0%	15	19	15	19	14%	43%	33%	15	NW
NW	16	15, 18, 27, 28, 37, 181, 371	Slight Decrease	YES	YES	YES	YES	150	150	0%	50	50	0%	200	200	0%	0	0	0%	68	90	69	90	24%	39%	58%	16	NW
NW	17	41, 42, 52, 53, 63, 411, 421, 521	Decrease	YES	YES	YES	YES	700	700	0%	250	200	-20%	2,500	2,500	0%	0	0	0%	336	406	298	368	19%	38%	52%	17	NW
SW	18	75, 77, 78, 751, 771	Decrease	YES	YES	YES	YES	125	125	0%	45	45	0%	700	700	0%	0	0	0%	127	148	125	145	27%	34%	66%	18	SW
NE	19	39, 46, 50, 51, 104, 391, 461, 500, 501	Decrease	YES	YES	YES	YES	150	150	0%	90	90	0%	395	395	0%	0	0	0%	21	51	21	51	22%	30%	57%	19	NE
ALL	99	eastern plains units not in a DAU	None	YES	YES	no	no	0	0	0%	0	0	0%	0	0	0%	0	0	0%	9	20	9	19	29%	29%	50%	99	ALL
			STATEWIDE TOTALS					4,454	4,194	-6%	1,779	1,599	-10%	12,261	12,155	-1%	2,220	2,140	-4%	1,595	2,168	1,514	2,078					

DAUs with OTC Archery, Muzzleloader, & Concurrent Rifle Licenses

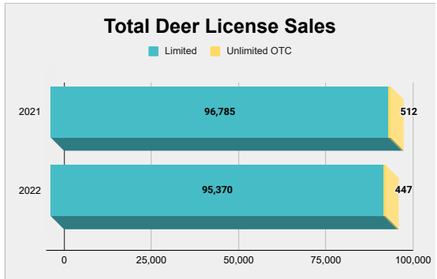
***Limited September rifle numbers include early rifle and Ranching for Wildlife seasons

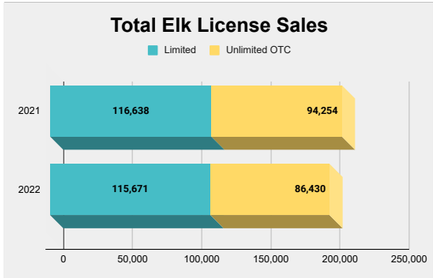
Harvest Composition Monitoring Standards			
Decreasing	<25%	>40%	>55%
Stable	25-35%	30-40%	45-55%
Increasing	> 35%	< 30%	< 45%

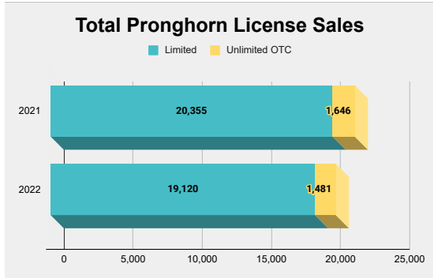
2021-2022 BIG GAME LICENSE SALES COMPARISON BY LICENSE TYPE*

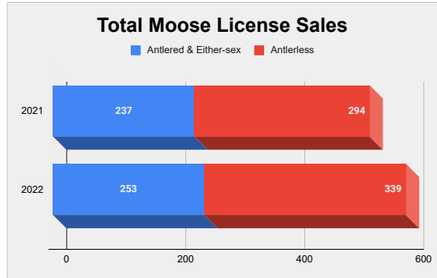
* Includes license sales for both established and non-established hunts

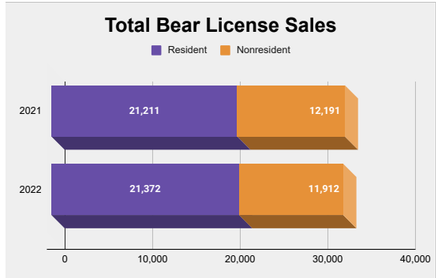
April 14, 2023











DEER

License Type	TOTAL Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ARCHERY SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	MUZZLELOADER SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ALL RIFLE SEASONS * Licenses Sold – TOTAL RIFLE 2021	2022	2021-2022 PERCENT CHANGE	EITHER-SEX ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	ANTLERED ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	ANTLERLESS ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	LIMITED LICENSE DRAWS Applications Submitted – PRIMARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	SECONDARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	License Type
Limited *	96,785	95,370	0.0	13,040	12,788	-2%	8,385	8,174	-3%	75,360	74,408	-1%	6,248	6,014	-4%	50,515	50,066	-1%	18,597	18,328	-1%	228,087	217,937	-4%	21,744	21,076	-3%	Limited *
Unlimited	512	447	-13%	0	0	0%	0	0	0%	512	447	-13%	512	447	-13%	0	0	0%	0	0	0%							Unlimited
Total	97,297	95,817	-2%	13,040	12,788	-2%	8,385	8,174	-3%	75,872	74,855	-1%	6,760	6,461	-4%	50,515	50,066	-1%	18,597	18,328	-1%	228,087	217,937	-4%	21,744	21,076	-3%	Total

*Rifle license numbers include all rifle and Season Choice seasons

ELK

License Type	TOTAL Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ARCHERY SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	MUZZLELOADER SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ALL RIFLE SEASONS * Licenses Sold – TOTAL RIFLE 2021	2022	2021-2022 PERCENT CHANGE	EITHER-SEX ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	ANTLERED ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	ANTLERLESS ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	LIMITED LICENSE DRAWS Applications Submitted – PRIMARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	SECONDARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	License Type
Limited *	116,638	115,671	-1%	11,850	12,825	8%	11,233	11,268	0.3%	93,555	91,578	-2%	13,844	13,654	-1%	22,049	21,656	-2%	57,662	56,268	-2%	246,602	237,959	-4%	23,389	23,325	-0.3%	Limited *
Unlimited	94,254	86,430	-8%	35,283	31,997	-9%	0	0	0%	58,971	54,433	-8%	1,841	1,780	-3%	57,130	52,653	-8%	0	0	0%							Unlimited
Total	210,892	202,101	-4%	47,133	44,822	-5%	11,233	11,268	0%	152,526	146,011	0	15,685	15,434	0.0	79,179	74,309	-6%	57,662	56,268	-2%	246,602	237,959	-4%	23,389	23,325	0%	Total

*Rifle license numbers include all rifle and Season Choice seasons

PRONGHORN

License Type	TOTAL Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ARCHERY SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	MUZZLELOADER SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ALL RIFLE SEASONS * Licenses Sold – TOTAL RIFLE 2021	2022	2021-2022 PERCENT CHANGE	EITHER-SEX ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	ANTLERED ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	ANTLERLESS ONLY RIFLE 2021	2022	2021-2022 PERCENT CHANGE	LIMITED LICENSE DRAWS Applications Submitted – PRIMARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	SECONDARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	License Type
Limited *	20,355	19,120	-6%	879	859	-2%	1,953	1,944	-0.5%	17,523	16,317	-7%	70	80	14%	7,664	7,266	-5%	9,789	8,971	-8%	91,540	92,554	1%	5,895	5,863	-1%	Limited *
Unlimited	1,646	1,481	-10%	1,646	1,481	-10%	0	0	0%	0	0	0%	0	0	0%	0	0	0%	0	0	0%							Unlimited
Total	22,001	20,601	-6%	2,525	2,340	-7%	1,953	1,944	0.0	17,523	16,317	-7%	70	80	14%	7,664	7,266	-5%	9,789	8,971	-8%	91,540	92,554	1%	5,895	5,863	-1%	Total

*Rifle license numbers include all rifle and Season Choice seasons

MOOSE

License Type	TOTAL Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ANTLERED & EITHER-SEX SEASONS ** Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ANTLERLESS SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	LIMITED LICENSE DRAWS Applications Submitted – PRIMARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	SECONDARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	License Type
Resident	482	533	11%	212	227	7%	270	306	13%							Resident
Nonresident	49	59	20%	25	26	4%	24	33	38%							Nonresident
Total	531	592	11%	237	253	7%	294	339	15%	52,823	53,808	2%				Total

** Includes Auction and Raffle licenses

BEAR

Residency	License Type	TOTAL Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	ARCHERY SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	MUZZLELOADER SEASONS Licenses Sold 2021	2022	2021-2022 PERCENT CHANGE	SEPTEMBER RIFLE SEASONS Licenses Sold – SEPTEMBER RIFLE 2021	2022	2021-2022 PERCENT CHANGE	SEPTEMBER PLO 2021	2022	2021-2022 PERCENT CHANGE	CONCURRENT RIFLE SEASONS Licenses Sold – CONCURRENT RIFLE 2021	2022	2021-2022 PERCENT CHANGE	CONCURRENT PLO 2021	2022	2021-2022 PERCENT CHANGE	LIMITED LICENSE DRAWS Applications Submitted – PRIMARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	SECONDARY DRAW 2021	2022	2021-2022 PERCENT CHANGE	License Type	License Type
Resident	Limited *	14,444	14,432	0%	2,517	2,488	-1%	861	892	4%	9,312	9,298	0%	0	0	0%	1,754	1,754	0%	0	0	0%						Limited *	Resident
	Unlimited OTC	6,767	6,940	250%	2,016	2,112	5%	306	323	6%	0	0	0%	444	516	16%	3,452	3,254	-6%	549	735	34%						Unlimited OTC	
	Total	21,211	21,372	70%	4,533	4,600	1%	1,167	1,215	4%	9,312	9,298	0%	444	516	16%	5,206	5,008	-4%	549	735	34%						Total	
Nonresident	Limited *	4,177	4,190	30%	1,160	1,155	0%	484	427	-12%	2,081	2,209	6%	0	0	0%	452	399	-12%	0	0	0%						Limited *	Nonresident
	Unlimited OTC	8,014	7,722	-360%	2,631	2,777	6%	395	360	-9%	0	0	0%	354	398	12%	4,415	3,924	-11%	219	263	20%						Unlimited OTC	
	Total	12,191	11,912	-220%	3,791	3,932	4%	879	787	-10%	2,081	2,209	6%	354	398	12%	4,867	4,323	-11%	219	263	20%						Total	
OVERALL	Limited *	18,621	18,622	0%	3,677	3,643	-1%	1,345	1,319	-2%	11,393	11,507	0.0	0	0	0%	2,206	2,153	-2%	0	0	0%	36,718	37,264	1%	2,915	3,089	6%	Limited *	OVERALL
	Unlimited OTC	14,781	14,662	-80%	4,647	4,889	5%	701	683	-3%	0	0	0%	798	914	15%	7,867	7,178	-9%	768	998	30%						Unlimited OTC	
	Total	33,402	33,284	-30%	8,324	8,532	2%	2,046	2,002	0.0	11,393	11,507	0.0	798	914	15%	10,073	9,331	-7%	768	998	30%	36,718	37,264	16%	2,915	3,089	38%	Total	