

2019 PCMS Hunting Report



March 2020

Executive Summary

- Winter and Spring moisture was good through mid-June and may have contributed to better antler development in deer this year compared to 2018. However, there was very little moisture after mid-June until the area received several good snow storms in mid-October and early November.
- 4th Season Rifle Bull Elk was cancelled after 2 days due to conflicts with the training schedule. However, 2 elk were harvested.
- Harvest numbers were up for deer & elk, but down for pronghorn & bighorn sheep.
- Success rate for bighorn sheep was 75%. One hunter was unable to dedicate the time needed for a successful hunt due to chronic health reasons. All harvested sheep were again taken from the Taylor Arroyo during the December hunt.
- The 2019 Muzzleloader Pronghorn hunt became exclusive to GMU 142 (PCMS) rather than a multi-unit hunt. This resulted in a set number of hunters and fewer animals harvested compared to previous years.
- Sept – Dec are the busiest times of year for recreation. October was the busiest month due to several overlapping hunting seasons and significant increase in elk hunters.
- Total Downrange Passes issued increased by approximately 10% between calendar years 2018 and 2019 after holding steady for the last 2 years.
- TA 16 (Bear Springs) was closed until late September due to an offsite illegal marijuana grow operation adjacent to PCMS property boundary.
- The number of Over-the-Counter (OTC) bull elk hunters has increased significantly. In 2019, the increase in numbers of hunters for archery, 2nd Rifle and 3rd Rifle seasons was 60%, 47% and 40% respectively from 2018 and previous seasons.
- Total # of bulls harvested in 2019 was similar to 2018, but there was a 35% increase from previous years (2016-17). 2nd Rifle Bull Elk season continues to remain the most popular with hunters and also the most successful.

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IMPORTANT NOTES:

- All Boone and Crockett (B&C) data were collected by the individual hunter, not PCMS biologists. Therefore, B&C scores are subject to variation. All B&C scores and calculations are reviewed by PCMS biologists and the calculations are corrected when necessary.
- This report was prepared solely to share hunting data collected on PCMS and not to provide any statistical analysis. Statistical analysis was not performed because the sample sizes (n) were generally too small, and there was too great a degree of variation in the data collection method to provide accurate statistical analysis.
- All B&C numbers used in this report are derived from the gross scores and not the final (adjusted) scores. Final scores are usually lower than gross scores because points are deducted for asymmetry in the final score. The exception to this is when scoring an atypical animal. When considering management options, the PCMS biologists focus more on overall size rather than symmetry.
- The average was calculated using all the acceptable B&C scores. For elk, spike animals were not included. This year 99% of hunters turned in their B&C data.

PCMS 2019 Harvest Data Summary

MULE DEER

Rifle Data (142 only)

Total number of buck permits	20
Total number of hunters that showed	20
Percent of hunters that showed	100%
# Bucks harvested (rifle)	19
Buck success rate (rifle)	95%
Average B&C Size (rifle)	166 7/8

Total number of doe permits	21*
Total number that showed	15
Percent of hunters that showed #	71%
Does harvested **	10
Doe success rate	60%

*Includes 1 youth tag. There were 20 adult tags.

Muzzleloader (142 only)

Total number of buck permits	15
Total number that showed	14
Percent of hunters that showed	93%
# ML Bucks Harvested	6
ML buck success rate	43%
Average B&C size (Muzzle)	154 3/8

Total number of doe permits	15
Total number that showed	11
Percent of hunters that showed	73%
# does harvested	5
ML doe success rate	45%

Archery (142 only)

Total number of tags (either sex)	35
Total number that showed	35
Percent of hunters that showed	100%
# bucks harvested	6
# does harvested	0
Hunter success rate	17%
Average B&C (archery)	128 2/8

All Seasons

Total # bucks harvested	32
Average size	149 7/8
% with B & C > 180	6%
Total # does**	14

ELK

Rifle Data (2nd & 3rd season OTC multi-unit)

Total number of bull elk permits	OTC
Total number of bull hunters	101
Percent of hunters that showed	n/a
# Bulls harvested	18
Bull elk success rate	18%
Average rifle B & C size	224 3/8

Rifle Data (4th season multi-unit draw)

Total number of bull elk permits	30
Total number of hunters at PCMS	10
Percent of hunters at PCMS	33%
# Bulls harvested	2
Bull elk (4 th season) success rate	20%
Average rifle B & C size	205

Rifle Cow elk (142 only)

Total number of cow permits	27*
Total number of cow hunters	19
Percent of hunters that showed	70%
# Cows harvested	6
Cow elk success rate	32%

* Includes 2 youth tags. There were 25 adult tags.

Muzzleloader (multi-unit)

Total number of permits	20
Total number that showed	12
Percent of hunters that showed	60
# ML bull elk harvested	1
# ML cow elk harvested	2
ML success rate	25%
Average size	205

Archery (multi-unit OTC)

Total number of permits	OTC
Total number of hunters that showed	38
# Bulls harvested	2
# Cows harvested	0
Archery success rate	5%
Average B&C (archery)	278

All Seasons

Total # bulls harvested	23
Average size	227 4/8
% with B & C > 300	4%
Total # cows	8

PRONGHORN ANTELOPE

Rifle (142 only)

Total number of buck permits	20
Total number that showed	20
Percent of hunters that showed	100%
# Rifle bucks harvested	13
Rifle success rate	65%
Average B&C size	68 3/8

Total number of doe permits	30
Total number that showed	25
Percent of hunters that showed	83%
# does harvested	11
ML doe success rate	44%

Muzzleloader

Total number of buck permits	30
Total number at PCMS	30
Percent of hunters at PCMS	100%
# ML Bucks Harvested	19
ML buck success rate	63%
Average B&C size	72 1/8

Total number of doe permits	40
Total number that showed	24
Percent of hunters that showed	60%
# does harvested	7
ML doe success rate	29%

Archery (multi-unit OTC)

Total number of tags (either sex)	OTC
Total number that showed	15
Percent of hunters that showed	n/a
# bucks harvested	2
# does harvested	2
Hunter success rate (bucks)	13%
Average B&C size	70 6/8

All Seasons

Total # bucks harvested	34
Average size	70 5/8
% with B & C > 75	15%
Total # does	20

BIG HORN SHEEP

Rifle (Unit S-61)

Total number of ram permits	4
Total number of hunters that showed	4
Percent of hunters that showed	100%
# Rams harvested (rifle)	3
Ram success rate (rifle)	75%
Average B&C Size (rifle)	161 1/8
% with B&C > 160	67%

OTHER GAME

As of Feb 29, 2020 other game harvested on PCMS include:

coyotes - 7
bobcats- 0
grey fox - 0
rabbits - 12
turkey - 5
badger - 0
scaled quail - 5
mountain lion - 1
bear - 0
dove - 0
prairie dogs - 15

PCMS Historical B&C Data and Harvest Numbers for Deer

	Archery Deer		Muzzleloader Deer		Rifle Deer		Total Deer	
	<i>n</i>	<i>Gross Avg</i>	<i>n</i>	<i>Gross Avg</i>	<i>n</i>	<i>Gross Avg</i>	<i>n</i>	<i>Gross Avg</i>
1989	0	-	-	-	14	139 3/8	14	138
1990	-	-	-	-	13	157 6/8	13	155
1991	-	-	-	-	21	149 7/8	20	151
1992	3	-	-	-	15	160 5/8	18	161
1993	-	-	-	-	24	169 2/8	-	-
1994	-	-	-	-	26	154 1/8	-	-
1995	-	-	-	-	21	167	-	-
1996	-	-	-	-	20	164 4/8	-	-
2011	2	137 2/8	0	-	12	136 7/8	14	137 1/8
2012	7*	112 3/8	7	132 1/8	10*	137 1/8	24	127 2/8
2013	3	142 1/8	3	131 3/8	10	168 2/8	15	156 2/8
2014	7	141 7/8	4*	114 4/8	9	153 5/8	18	142 6/8
2015	9	159 2/8	2	140	14	167 1/8	25	162 1/8
2016	5	131 7/8	5	155 6/8	10	159 1/8	20	151 4/8
2017	7	150 4/8	11	148 4/8	17	164 2/8	35	156 5/8
2018	7	123 5/8	6	124	17	137 1/8	40	131 3/8
2019	6	128 2/8	6	154 3/8	19	166 7/8	31	149 7/8

* Some scores were missing.

PCMS Historical B&C Data and Harvest Numbers for Elk

	Archery Elk		Muzzleloader Elk		OTC & Draw Rifle Elk		Total Elk	
	n	Gross Avg	n	Gross Avg	n	Gross Avg	n	Gross Avg
2011	1	*	1	*	2	*	4	-
2012	1	258	1	297 4/8	9	235	11	263 4/8
2013	0	0	2	272 6/8	5	241 2/8	8**	255 4/8
2014	1	281 6/8	0	0	12***	253 7/8	13	257
2015	0	0	1*	*	9	244 1/8	10	244 1/8
2016	1	172	1	205 2/8	13	238 5/8	15	232
2017	1	226 5/8	0	0	10	202 4/8	11	204 6/8
2018	2	261 2/8	****	****	20***	226	22	230 1/8
2019	2	278	1	205	20***	222 5/8	23	227 4/8

*No B&C scores collected **Some scores were missing

*** Includes spikes (no B&C) ****No hunt due to training

PCMS Historical B&C Data and Harvest Numbers for Pronghorn

	Archery Pronghorn		Muzzleloader Pronghorn		Rifle Pronghorn		Total Pronghorn	
	n	Gross Avg	n	Gross Avg	n	Gross Avg	n	Gross Avg
2011	2	*	5	*	14	*	21	*
2012	2	72	2	60	13	70 7/8	17	67 5/8
2013	2	64	1	70 4/8	**	**	3	66 1/8
2014	3	65 3/8	5	65 6/8	11	70 6/8	19	68 2/8
2015	1	58 6/8	10	71	15	73 3/8	26	71 7/8
2016	4	54 1/8	14	63	***	***	18	58 4/8
2017	4	55 6/8	28	67 2/8	19	72 3/8	51	68 2/8
2018	***	***	32	69 5/8	14	67 5/8	46	68 6/8
2019	2	70 6/8	19	72 1/8	13	68 3/8	34	70 5/8

* No B&C score collected ** No rifle hunt due to government shut down. ***No hunt due to training

Rifle Pronghorn Horn Length 1989-1997									
Year	1989	1990	1991	1992	1993	1994	1995	1996	1997
# Pronghorns Measured	27	38	33	41	36	37	36	n/a	28
Avg. Horn Length	10 4/8	12	12 1/8	12 1/8	12 4/8	12 4/8	12 2/8	n/a	12 2/8

Rifle Pronghorn Horn Length 2012-2019									
Year	2012	2013*	2014	2015	2016**	2017	2018	2019	2020
# Pronghorns Measured	13	n/a	11	15	n/a	19	14	13	
Avg. Horn Length	12 7/8	n/a	13 3/8	13 3/8	13 3/8	n/a	12 4/8	12 6/8	

NOTE:

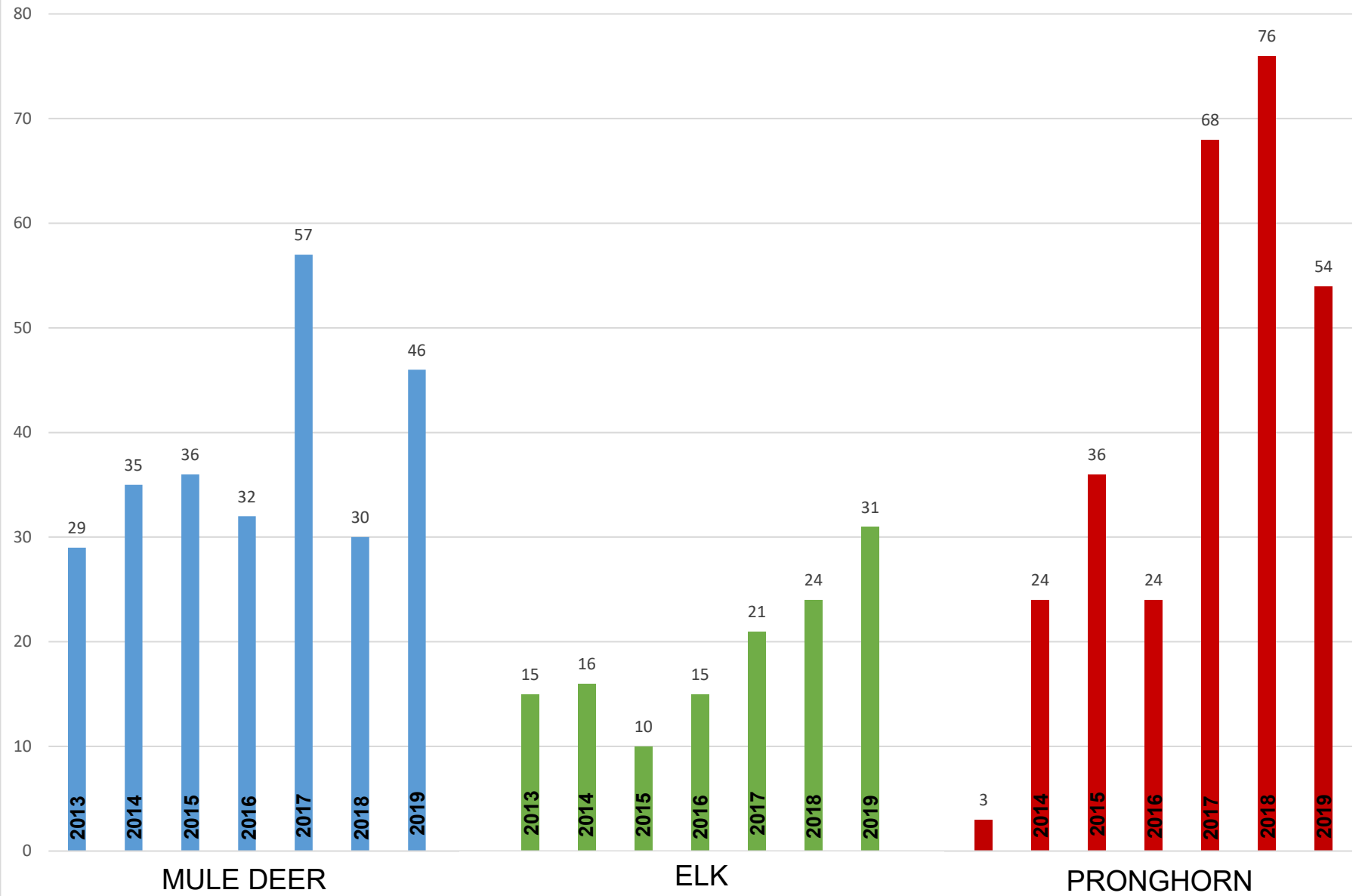
From 1989 to 1997 the B&C scores were calculated by adding the horn lengths, basal circumferences and length of prongs.

The B&C score method eventually changed to include the above, and also the circumferences at four points along each horn, tip to tip spread and the inside spread. In order to compare this historical data and the current data, only the horn lengths are used.

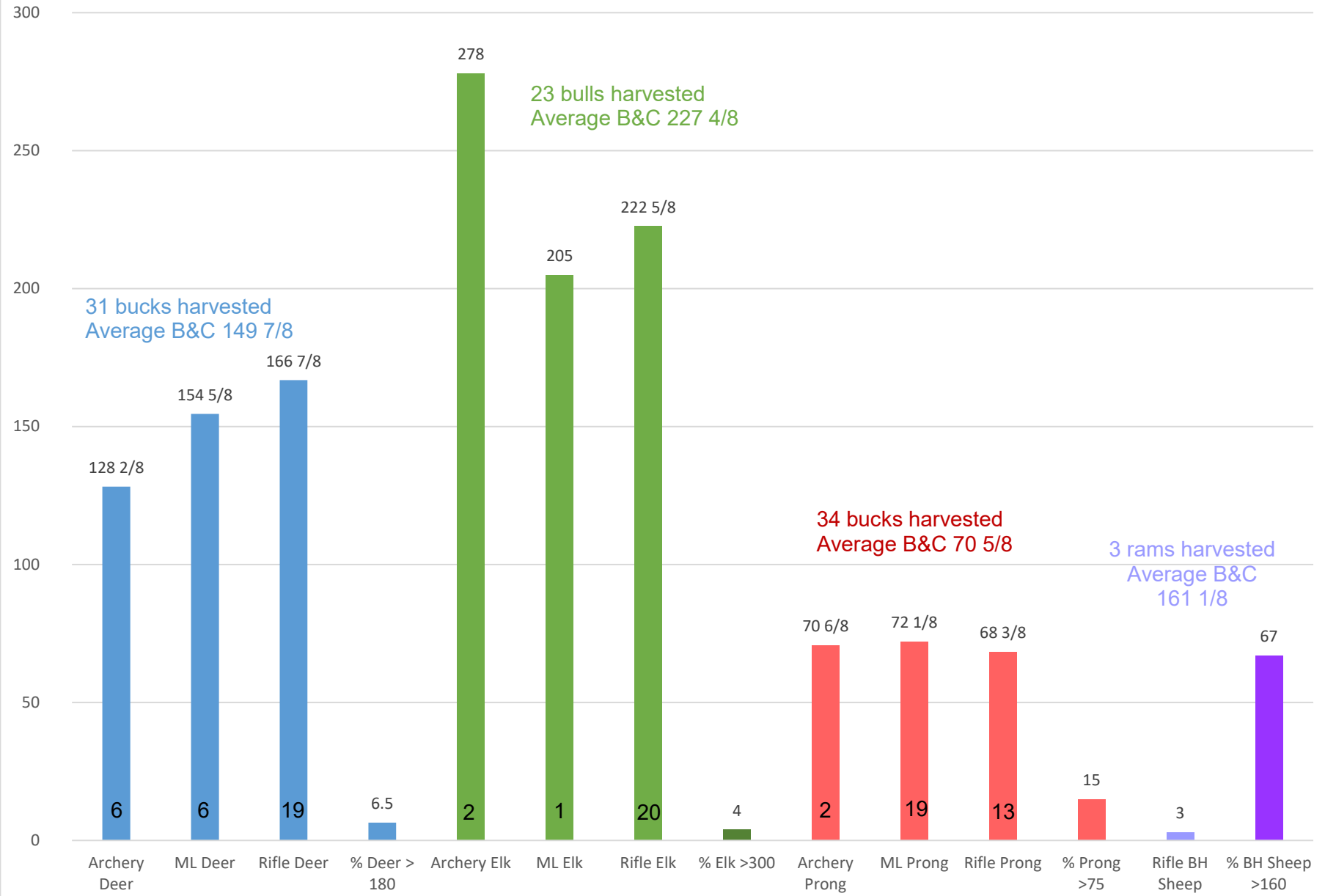
* Rifle Season cancelled due to government shutdown.

** Rifle Season cancelled due to training.

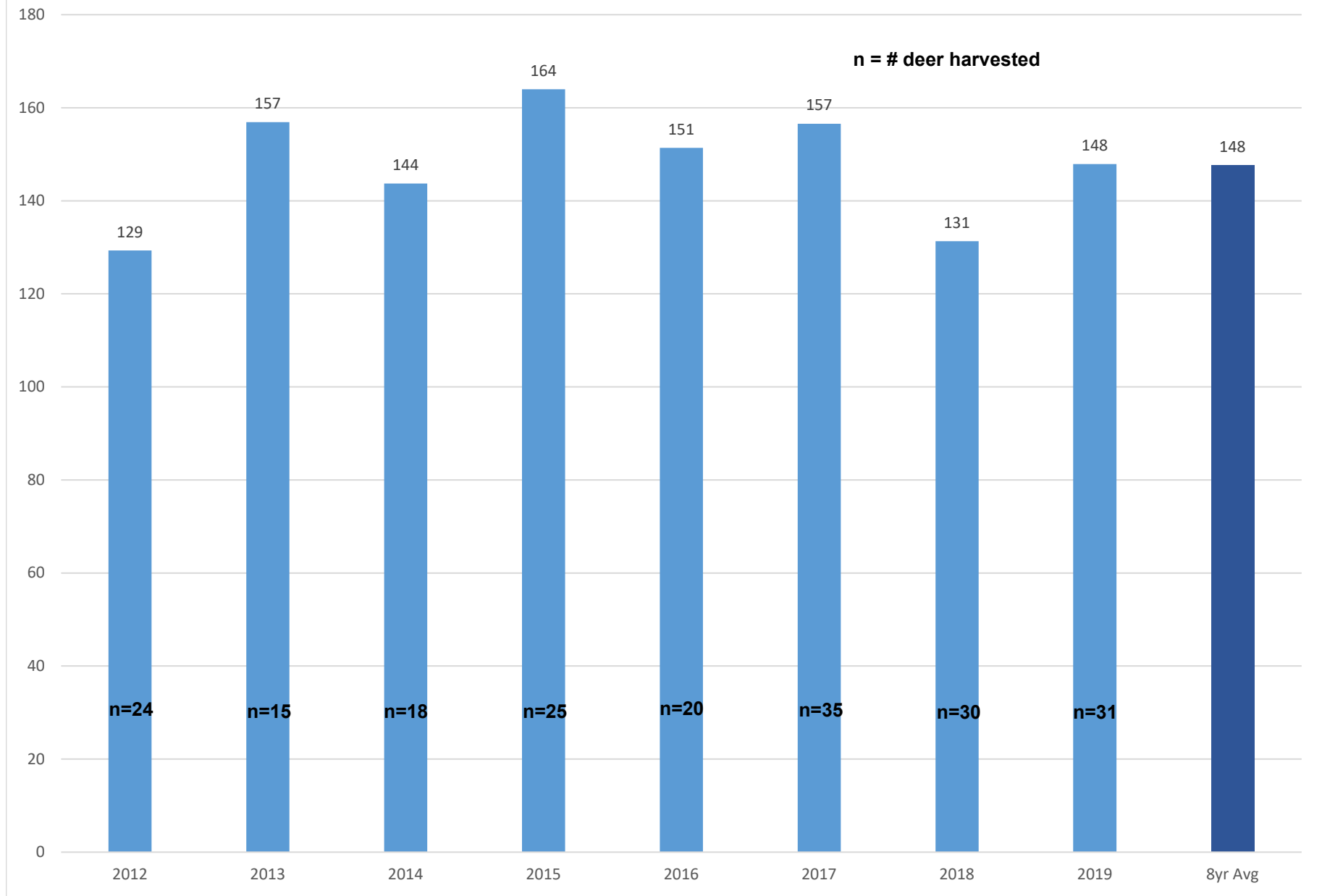
All PCMS Mule Deer, Elk & Pronghorn Harvested 2013-2019 (Male & Female)



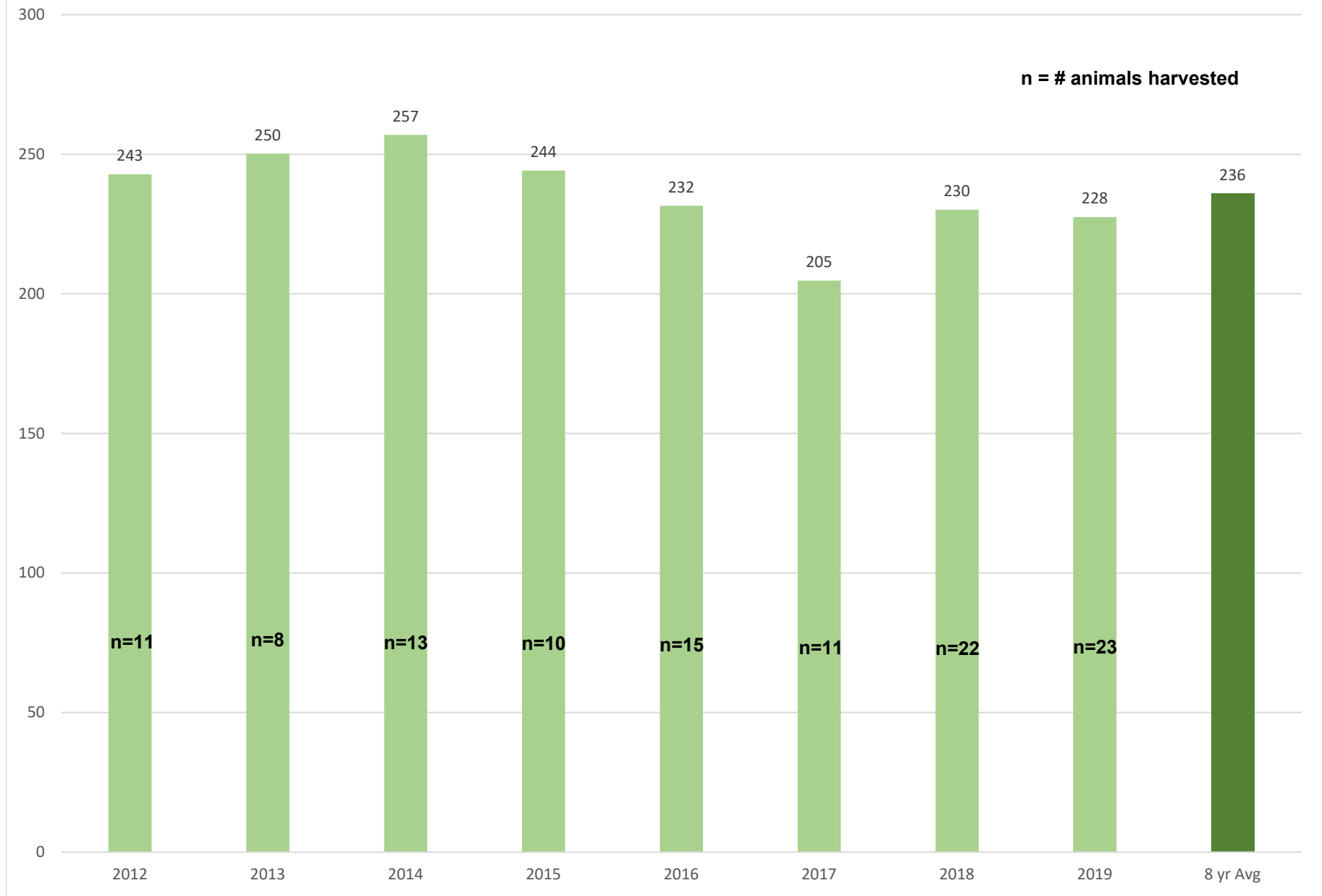
2019 Average B&C of PCMS Big Game Species by Season



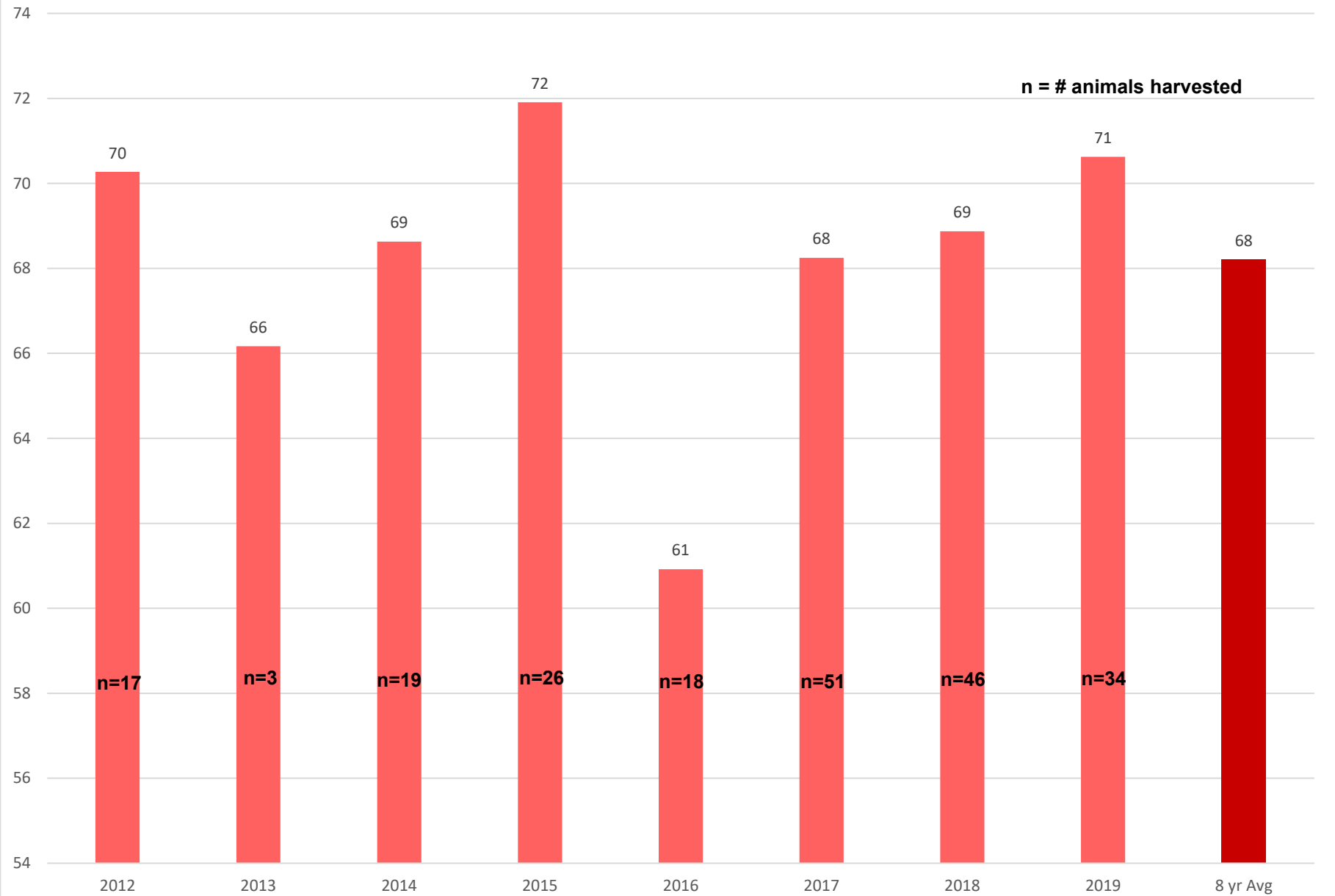
Average B&C of All PCMS Mule Deer (2012-2019)



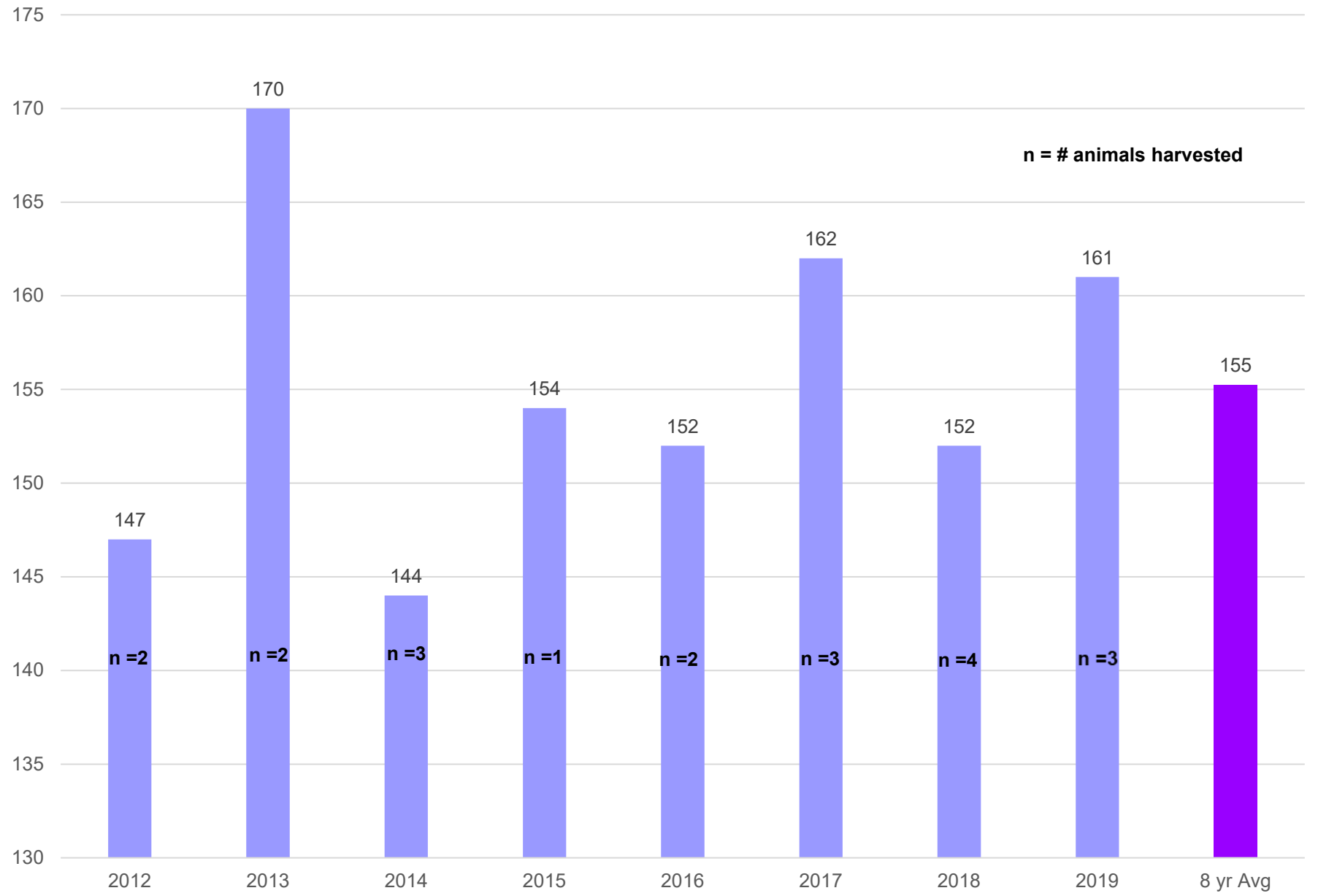
Average B&C of All PCMS Elk (2012-2019)



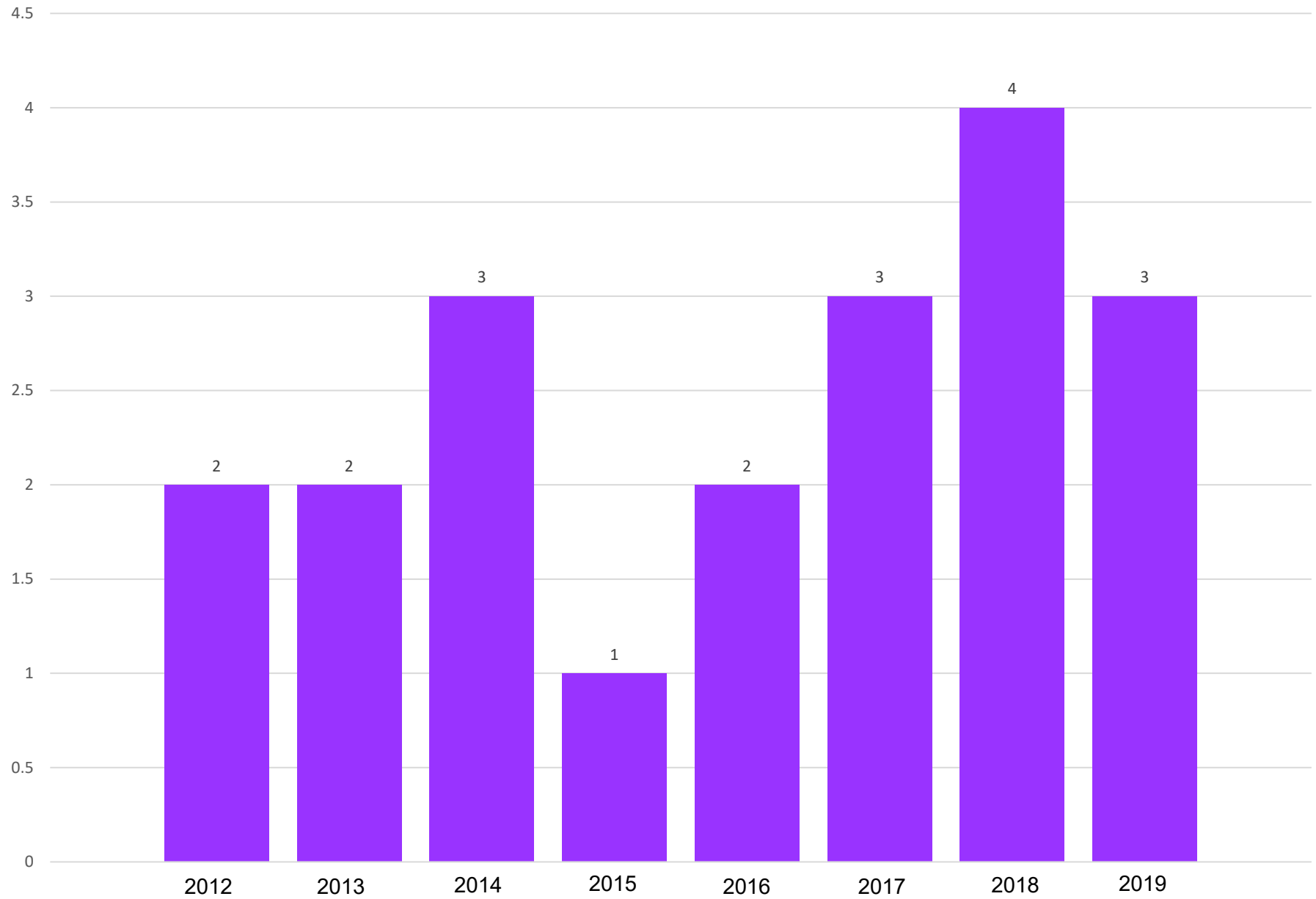
Average B&C of All PCMS Pronghorn (2012-2019)



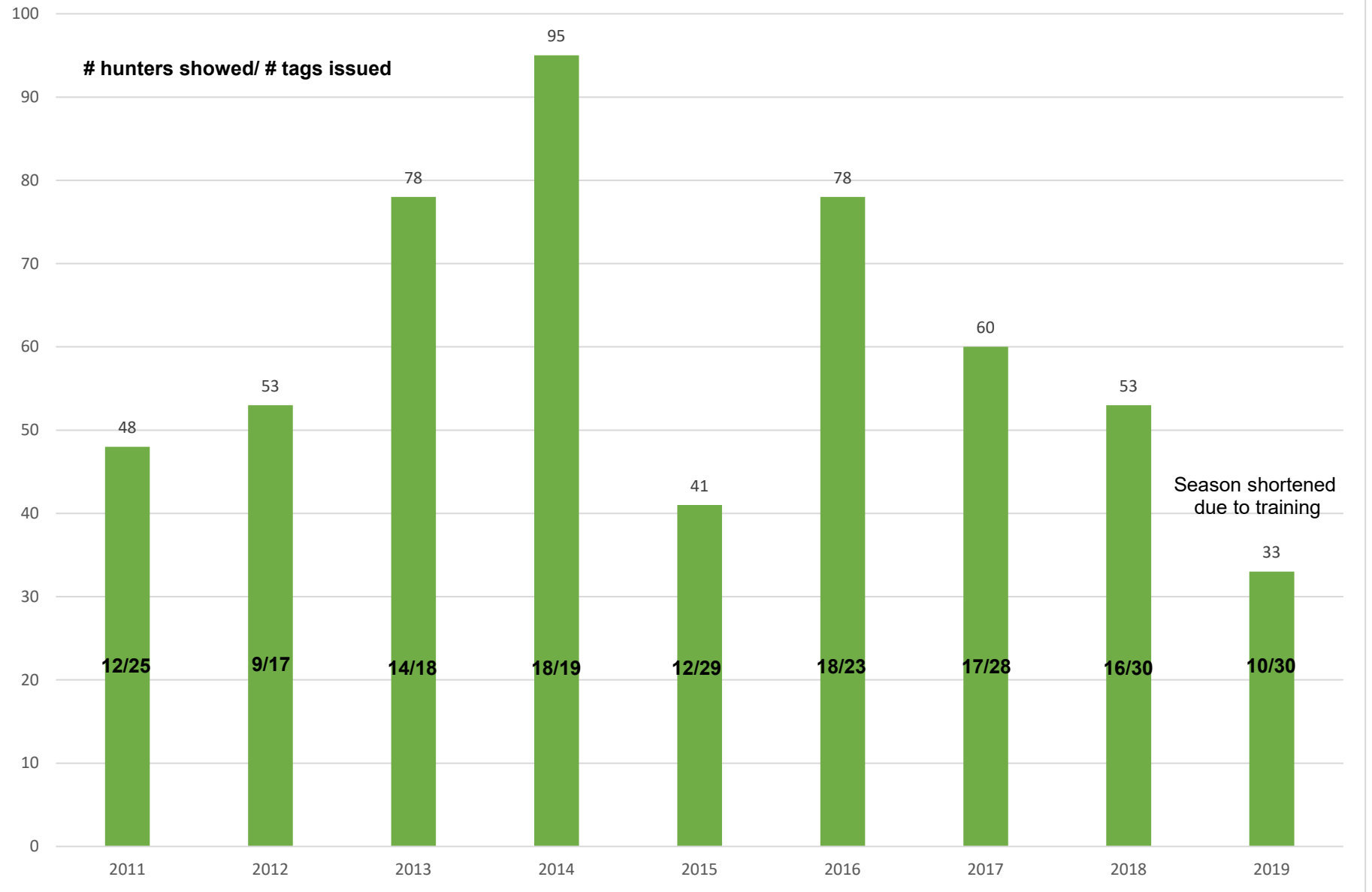
Average B&C of All PCMS Bighorn Sheep (2012-2019)



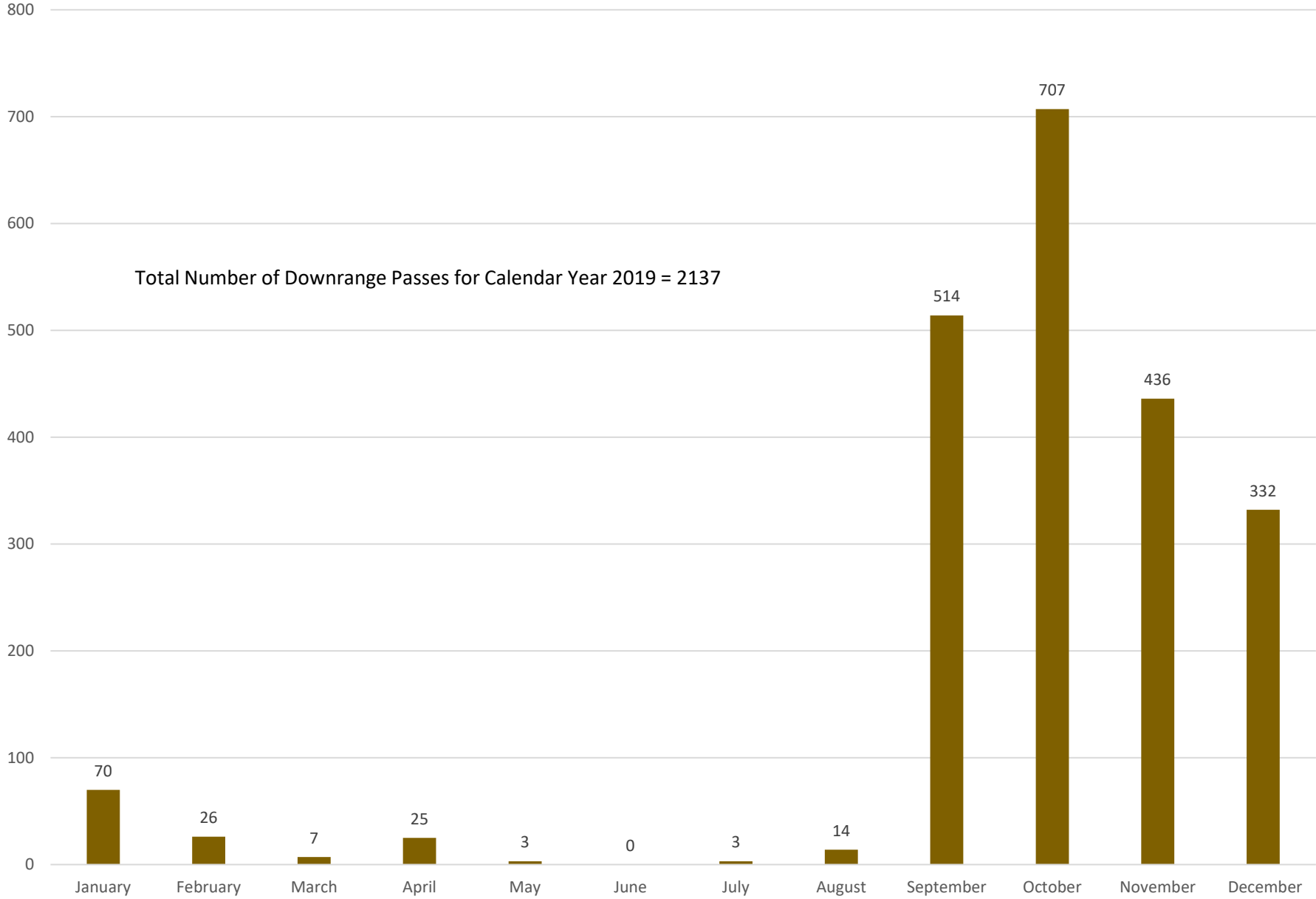
Bighorn Sheep Rams Harvested 2012-2019



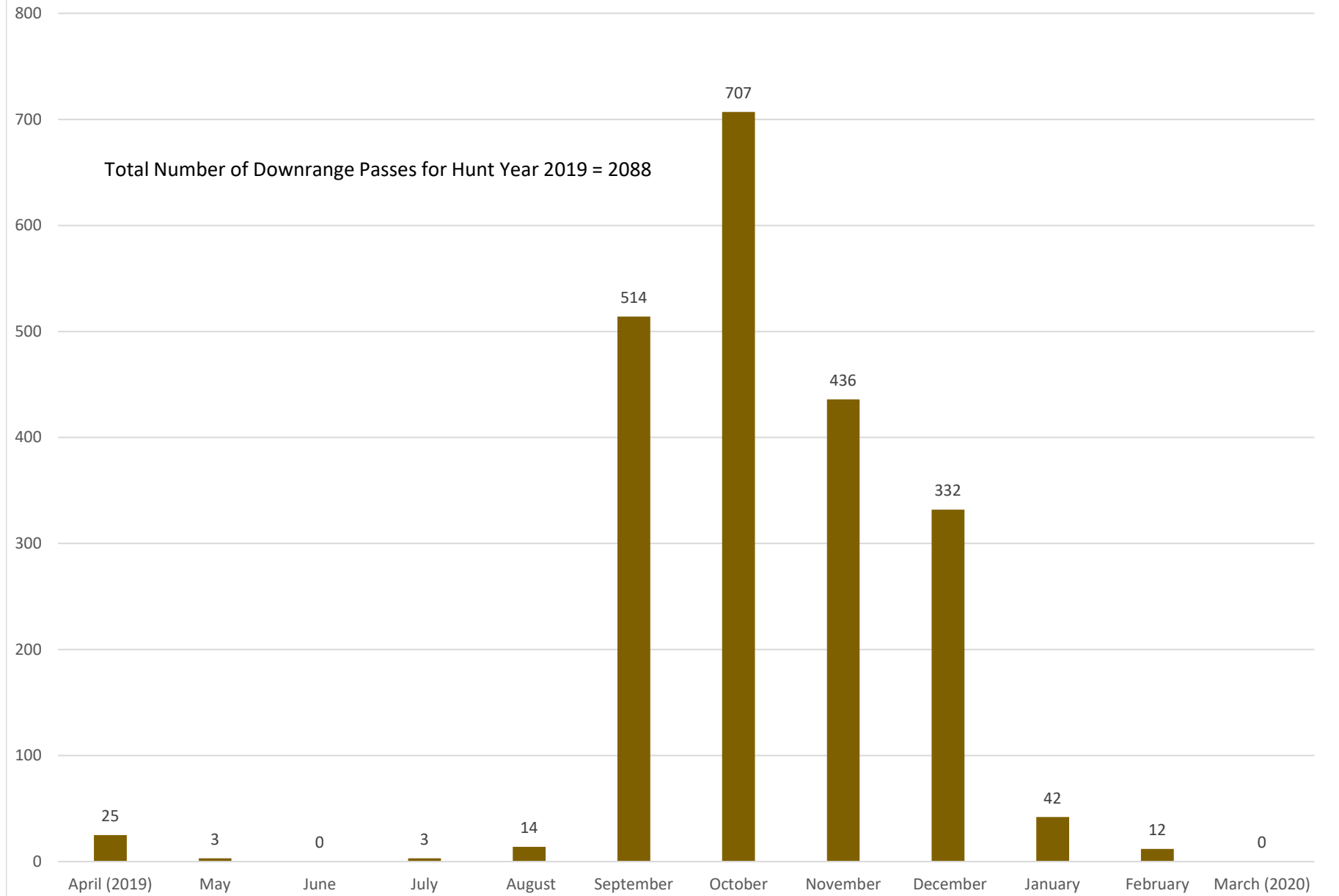
Percent of 4th Season Multi-Unit Bull Elk Hunters at PCMS 2011-2019



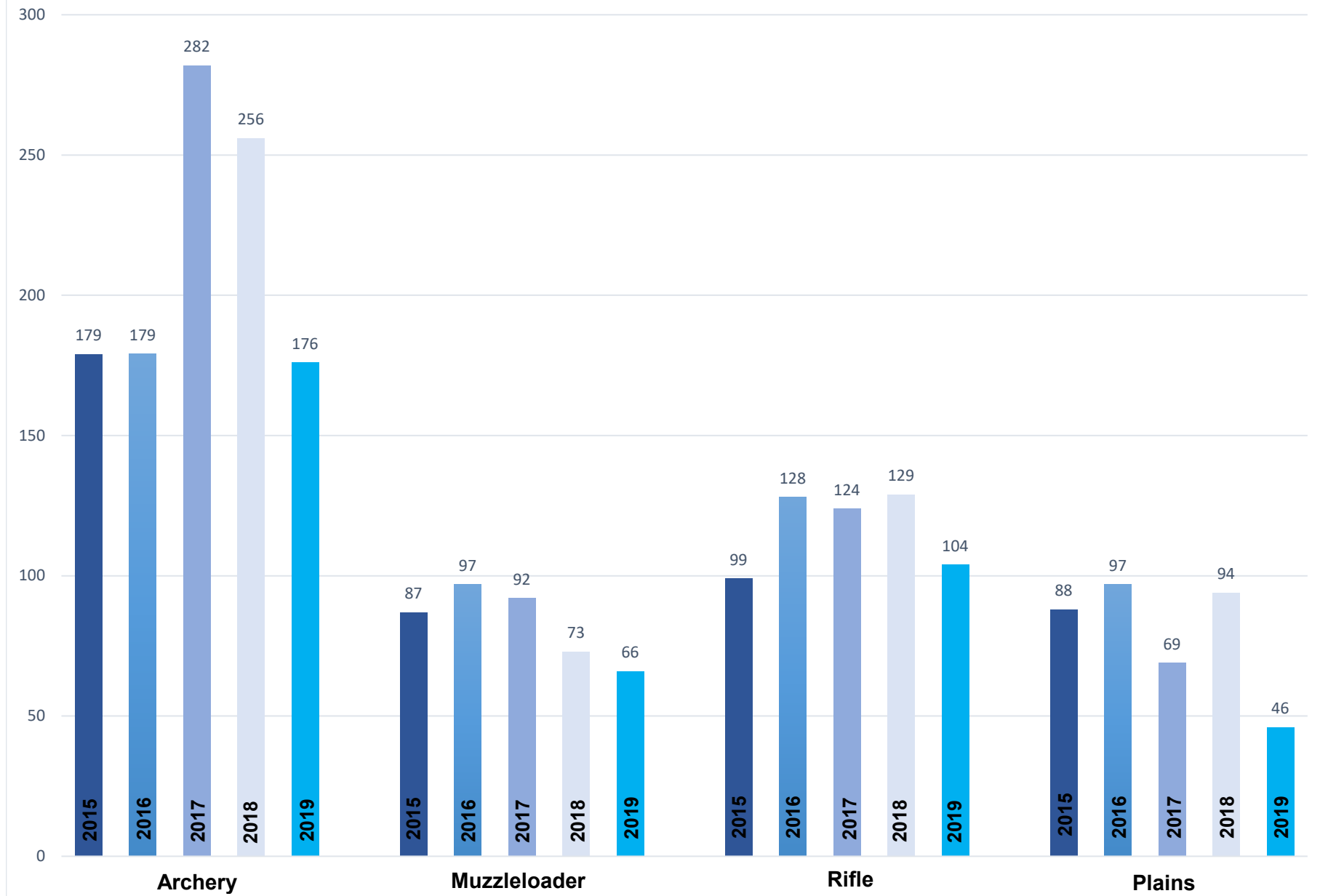
Downrange Passes by Month (Calendar Year 2019)



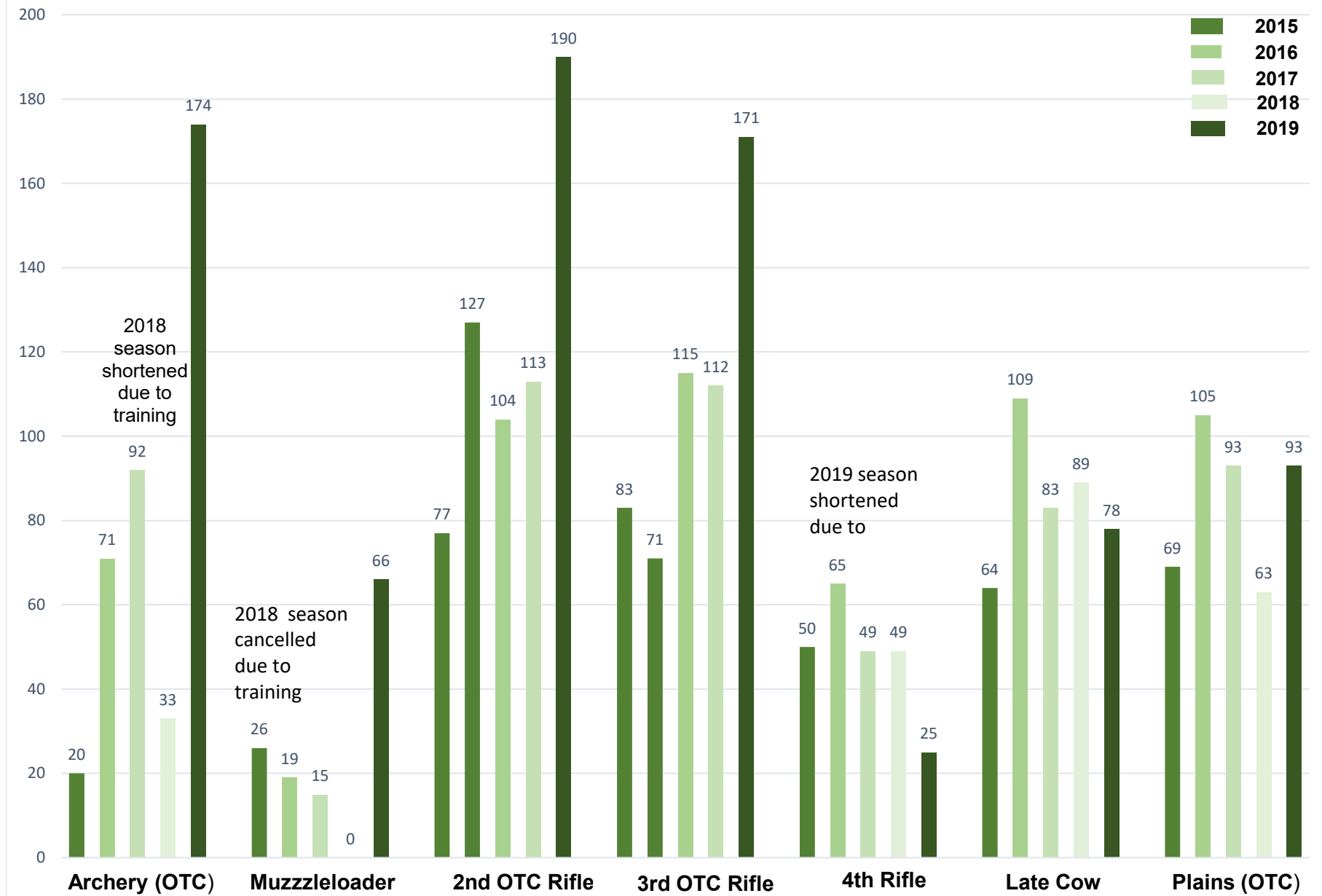
Downrange Passes by Month (Hunt Year 2019 - 2020)



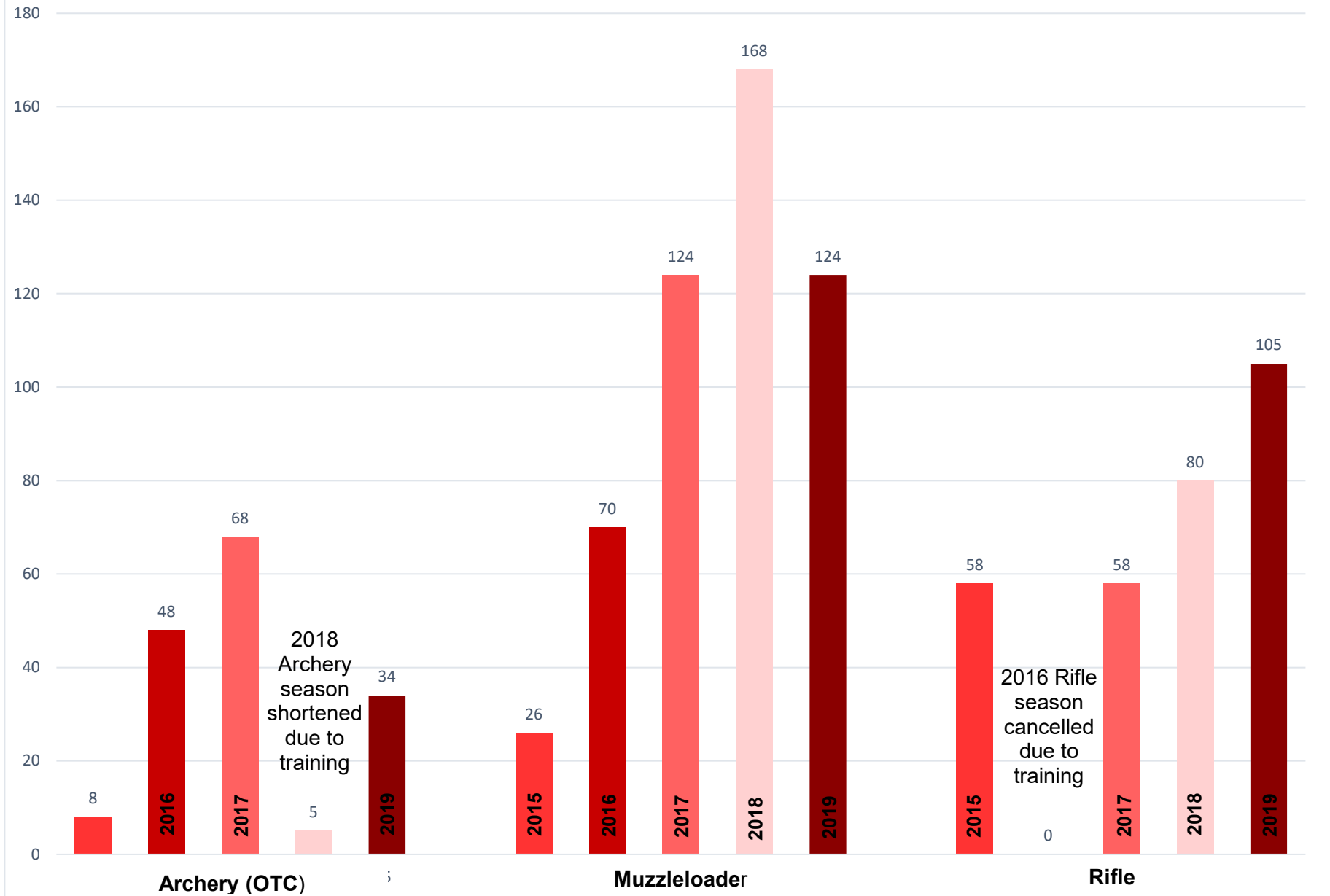
Downrange Passes for Deer by Season (2015-2019)



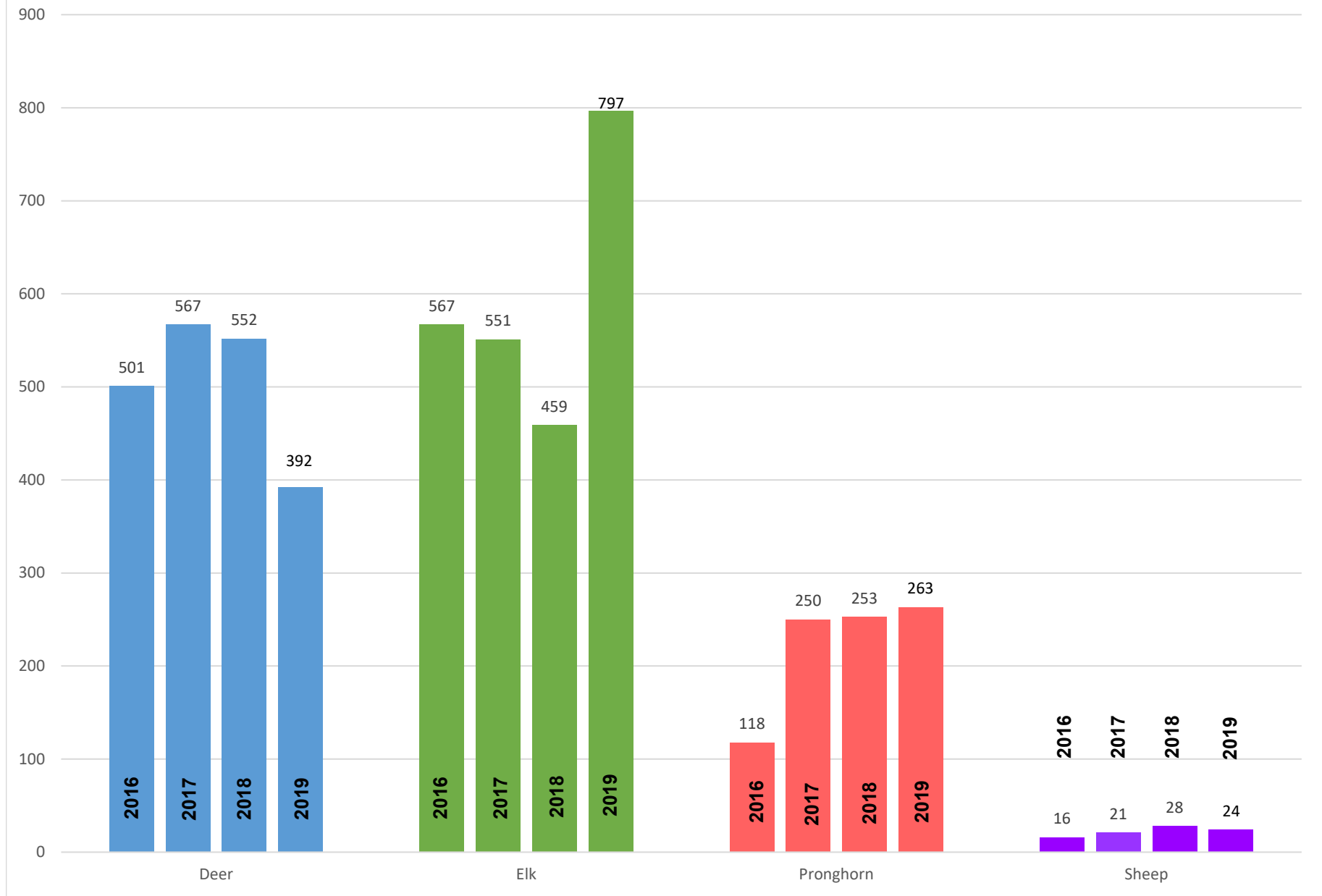
Downrange Passes for Elk by Season (2015-2019)



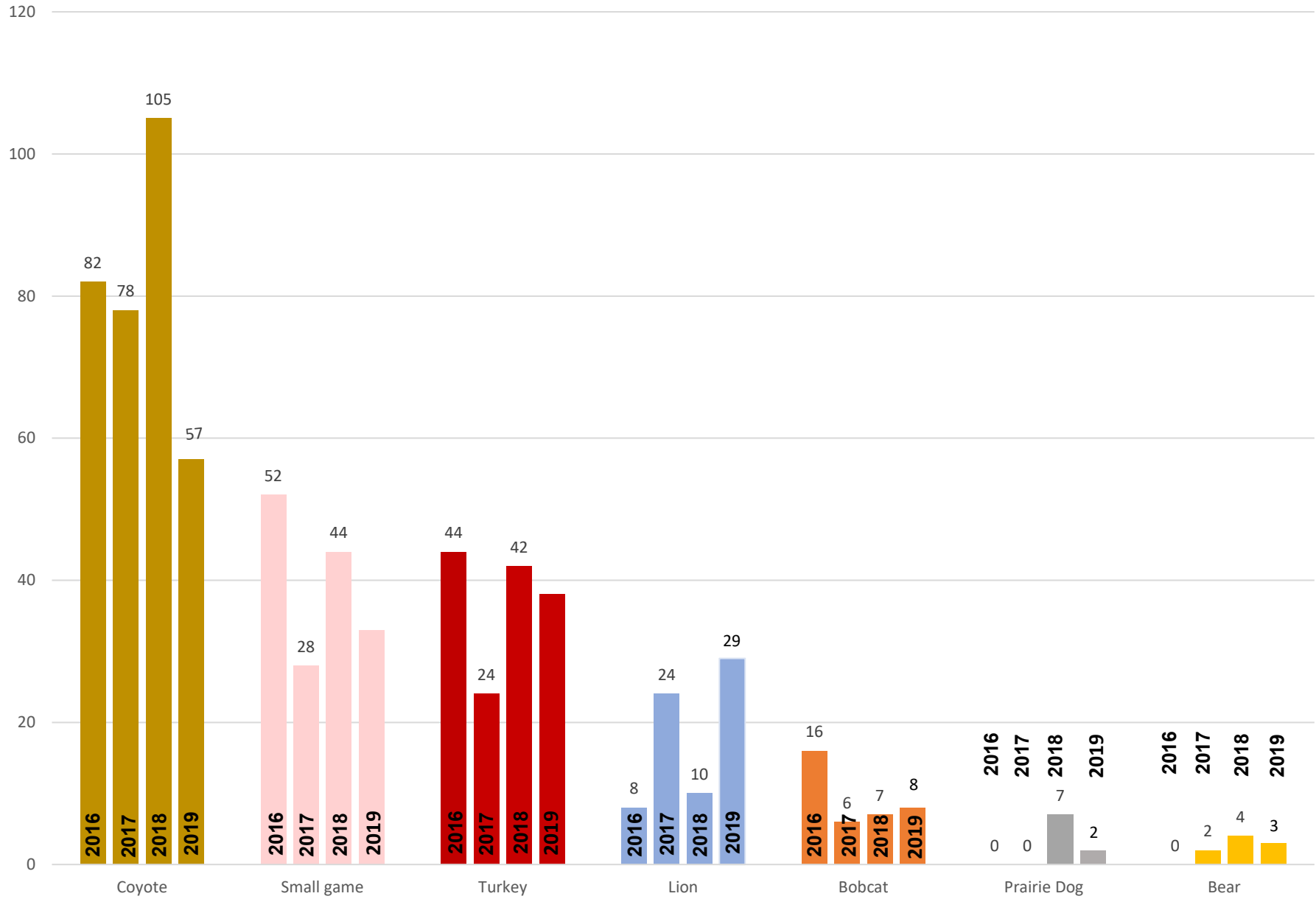
Downrange Passes for Pronghorn by Season (2015-2019)



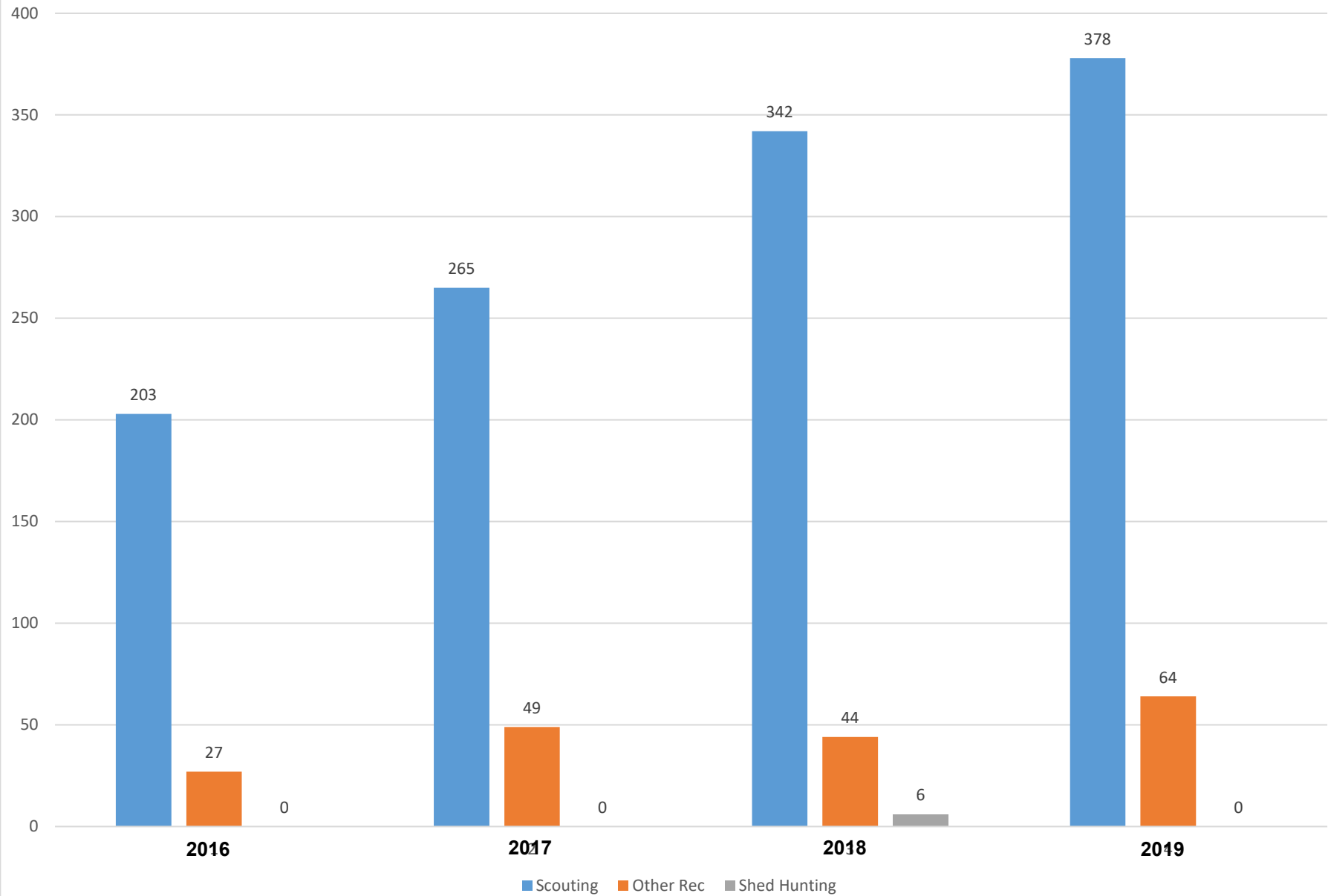
Downrange Passes for Big Game (2016-2019)



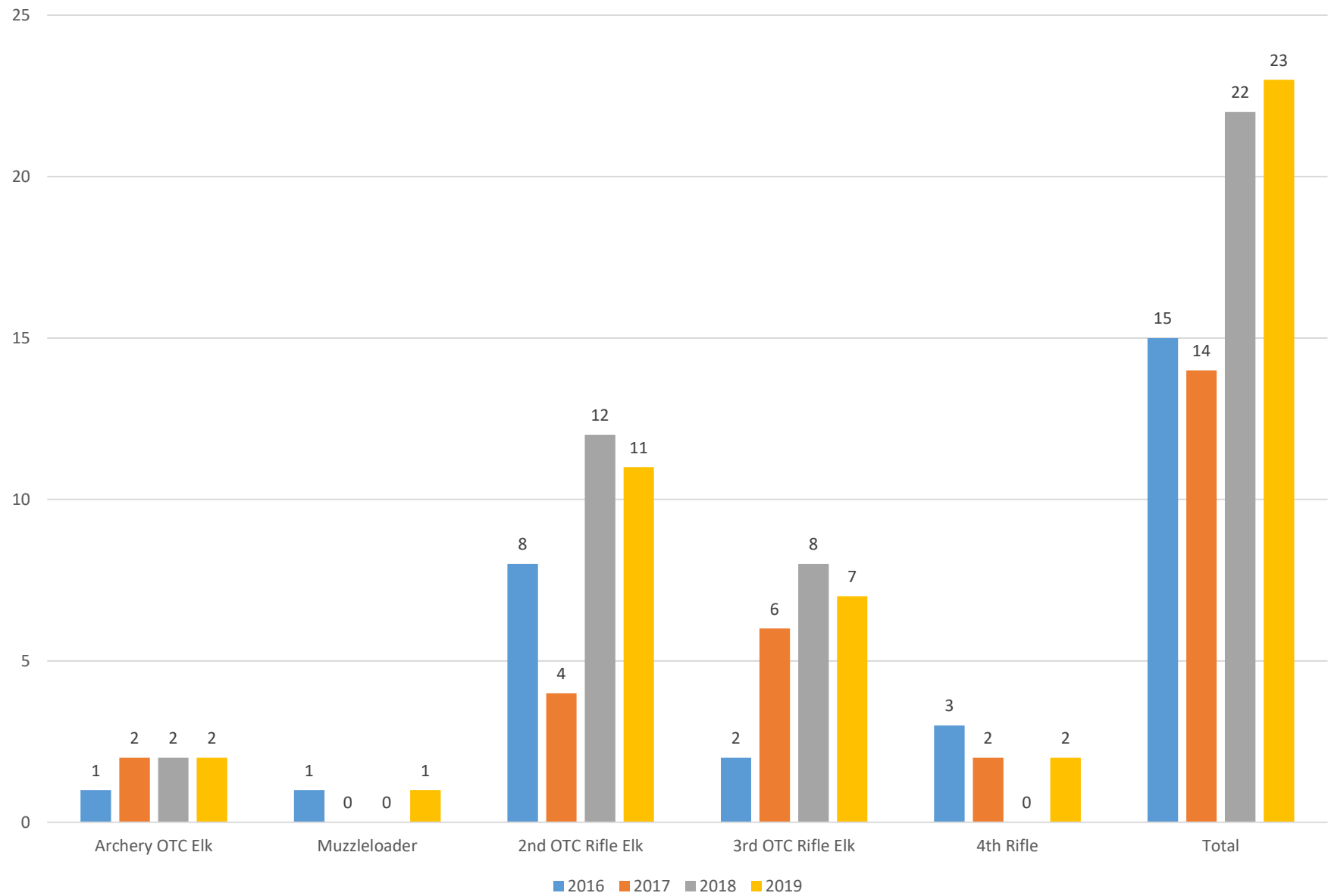
Downrange Passes for Other Game Animals (2016-2019)



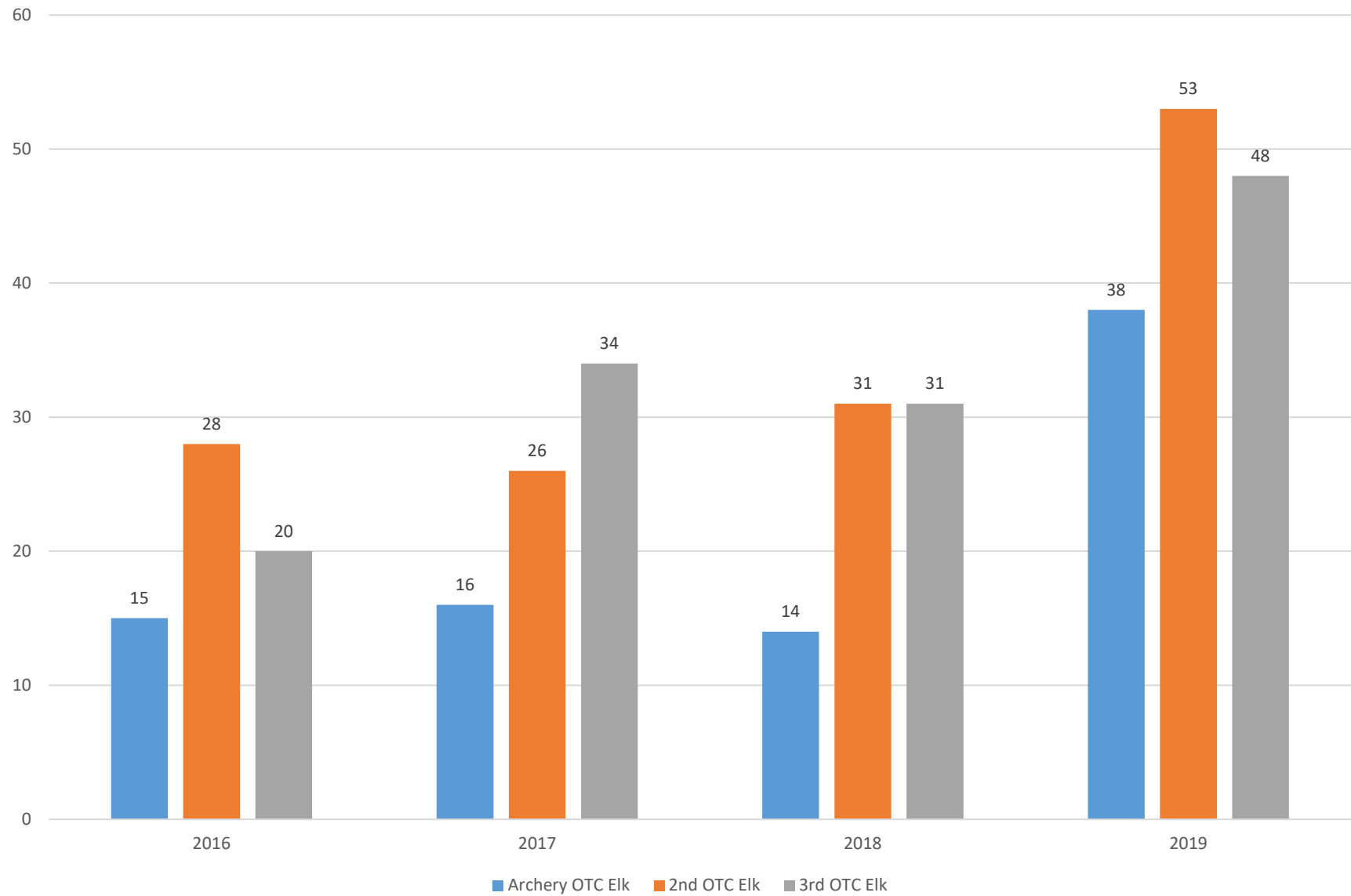
Downrange Passes for Scouting & Other Activities (2016-2019)



Number PCMS Bulls Harvested x Season (2016-2019)



Number of OTC Elk Hunters by Year (2016-2019)



2019 Hunting Photos







