Executive Summary

- Drought was prevalent throughout most of the 2018 growing season and probably contributed to smaller antler development in deer.

- Archery Pronghorn and Archery Elk seasons were shortened due to training in early to mid-September. Muzzleloader Elk season was cancelled due to training.

- Harvest numbers were up for elk, pronghorn and bighorn sheep, but down for deer.

- No elk were harvested during the 4th Rifle Bull Elk season.

- One additional tag (for a total of 4) was added for bighorn sheep in 2018. Also, the season was changed by CO Parks & Wildlife to include part of September in addition to the traditional December hunt. Success rate was 100% and all bighorn sheep were taken from the Taylor Arroyo during the December hunt.

- No deer and only one cow elk were harvested on the adjoining USFS Comanche National Grassland from hunters that checked in through PCMS using the iSportsman system.

- Number of hunters and downrange passes issued for the Muzzleloader Pronghorn hunt continued to increase. Number of pronghorn harvested and average B&C scores during this hunt was similar to 2017. The 2019 Muzzleloader Pronghorn hunt will be exclusive to GMU 142 rather than a multi-unit hunt.

- Sept – Dec are the busiest time of year for recreation. November is the busiest month due to several overlapping hunting seasons.

- Total Downrange Passes issued for calendar years (Jan – Dec) 2017 and 2018 were nearly the same: 1950 vs 1942.

- Recreational shooting of prairie dogs was allowed on one prairie dog colony in Feb 2019 as part of controlled hunt to reduce the numbers of prairie dogs on that colony.
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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 100% of hunters turned in their B&C data.
# 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): 17
- Buck success rate (rifle): 85%
- Average B&C Size (rifle): 137 1/8
- Total number of doe permits: 21*
- Total number that showed: 15
- Percent of hunters that showed: 71%
- # Does harvested: 9
- 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: 15
- Percent of hunters that showed: 100%
- # ML Bucks Harvested: 6
- ML buck success rate: 40%
- Average B&C size (Muzzle): 124
- Total number of doe permits: 15
- Total number that showed: 9
- Percent of hunters that showed: 60%
- # does harvested: 2
- ML doe success rate: 22%

### Archery (142 only)
- Total number of tags (either sex): 35
- Total number that showed: 33
- Percent of hunters that showed: 97%
- # bucks harvested: 7
- # does harvested: 0
- Hunter success rate: 21%
- Average B&C (archery): 123 5/8

### All Seasons
- Total # bucks harvested: 30
- Average size: 131 3/8
- % with B & C > 180: 0%
- Total # does: 11

# ELK

### Rifle Data (2nd & 3rd season OTC multi-unit)
- Total number of bull elk permits: OTC
- Total number of bull elk: 62
- Percent of hunters that showed: n/a
- # Bulls harvested: 20
- Bull elk success rate: 32%
- Average rifle B & C size: 226

### Rifle Data (4th season multi-unit draw)
- Total number of bull elk permits: 30
- Total number of hunters at PCMS: 16
- Percent of hunters at PCMS: 53%
- # Bulls harvested: 0
- Bull elk (4th season) success rate: 0%
- Average rifle B & C size: 0

### Rifle Cow elk (142 only)
- Total number of cow permits: 29*
- Total number of cow hunters at PCMS: 24
- Percent of hunters that showed: n/a
- # Cows harvested: 7
- Cow elk success rate: 24%
  * Includes 4 youth tags. There were 25 adult tags.

### Muzzleloader (multi-unit)
- Total number of permits: 20
- Total number that showed: n/a
- Percent of hunters that showed: n/a
- # ML bull elk harvested: n/a
- # ML cow elk harvested: n/a
- ML success rate: n/a
- Average size: n/a

### Archery (multi-unit OTC)
- Total number of permits: OTC
- Total number of hunters that showed: n/a
- Percent of hunters that showed: n/a
- # Bulls harvested: 2
- # Cows harvested: 0
- Archery success rate: 14%
- Average B&C (archery): 261 2/8

### All Seasons
- Total # bulls harvested: 22
- Average size: 230 1/8
- % with B & C > 300: 9%
- Total # cows: 7
**PRONGHORN ANTELOPE**

**Rifle (142 only)**
- Total number of buck permits: 20
- Total number that showed: 17
- Percent of hunters that showed: 85%
- # Rifle bucks harvested: 14
- Rifle success rate: 82%
- Average B&C size: 67 5/8
- Total number of doe permits: 30
- Total number that showed: 25
- Percent of hunters that showed: 83%
- # does harvested: 14
- ML doe success rate: 56%

**Muzzleloader (multi-unit)**
- Total number of buck permits: 120
- Total number at PCMS: 42
- Percent of hunters at PCMS: 35.0%
- # ML Bucks Harvested: 32
- ML buck success rate: 75.6%
- Average B&C size: 69 5/8

- Total number of doe permits: 148
- Total number that showed: 28
- Percent of hunters that showed: 18.0%
- # does harvested: 16
- ML doe success rate: 57%

**Archery (multi-unit OTC)**
- Total number of tags (either sex): OTC
- Total number that showed: n/a
- Percent of hunters that showed: n/a
- # bucks harvested: n/a
- # does harvested: n/a
- Hunter success rate (bucks): n/a
- Average B&C size: n/a

**All Seasons**
- Total # bucks harvested: 46
- Average size: 68 7/8
- % with B & C > 75: 20%
- Total # does: 30

---

**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): 4
- Ram success rate (rifle): 100%
- Average B&C Size (rifle): 152 3/8
- % with B&C > 165: 25%

**OTHER GAME**

As of March 13, 2019 other game harvested on PCMS include:
- coyotes - 14
- bobcats - 3
- grey fox - 4
- rabbits - 24
- turkey - 2
- badger - 0
- scaled quail - 5
- mountain lion - 2
- bear - 0
- dove - 3
- prairie dogs - 48
### PCMS Historical B&C Data and Harvest Numbers

<table>
<thead>
<tr>
<th></th>
<th>Archery Deer</th>
<th></th>
<th>Muzzleloader Deer</th>
<th></th>
<th>Rifle Deer</th>
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<th>Total Deer</th>
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<tr>
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<td>Gross Avg</td>
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<td>Gross Avg</td>
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<td>Gross Avg</td>
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<td>14</td>
<td>138</td>
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<td>-</td>
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<td>7</td>
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<td>10*</td>
<td>137 1/8</td>
<td>24</td>
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<td>20</td>
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<td>17</td>
<td>137 1/8</td>
<td>30</td>
<td>131 3/8</td>
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* Some scores were missing.
## PCMS Historical B&C Data and Harvest Numbers

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<th>Archery Elk</th>
<th>Muzzleloader Elk</th>
<th>OTC &amp; Draw Rifle Elk</th>
<th>Total Elk</th>
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<td>Gross Avg</td>
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</tr>
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<td>2012</td>
<td>1</td>
<td>258</td>
<td>1</td>
<td>297 4/8</td>
</tr>
<tr>
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<td>0</td>
</tr>
<tr>
<td>2015</td>
<td>0</td>
<td>0</td>
<td>1*</td>
<td>*</td>
</tr>
<tr>
<td>2016</td>
<td>1</td>
<td>172</td>
<td>1</td>
<td>205 2/8</td>
</tr>
<tr>
<td>2017</td>
<td>1</td>
<td>226 5/8</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2018</td>
<td>2</td>
<td>261 2/8</td>
<td>****</td>
<td>****</td>
</tr>
</tbody>
</table>

* No B&C score collected  ** 8 harvested but only 7 B&C score sheets  *** includes spikes (no B&C) ****No hunt due to training

<table>
<thead>
<tr>
<th></th>
<th>Archery Pronghorn</th>
<th>Muzzleloader Pronghorn</th>
<th>Rifle Pronghorn</th>
<th>Total Pronghorn</th>
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<td>n</td>
<td>Gross Avg</td>
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<td>*</td>
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<tr>
<td>2012</td>
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<td>60</td>
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<tr>
<td>2013</td>
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<td>64</td>
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<tr>
<td>2016</td>
<td>4</td>
<td>54 1/8</td>
<td>14</td>
<td>63</td>
</tr>
<tr>
<td>2017</td>
<td>4</td>
<td>55 6/8</td>
<td>28</td>
<td>67 2/8</td>
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<tr>
<td>2018</td>
<td>***</td>
<td>***</td>
<td>32</td>
<td>69 5/8</td>
</tr>
</tbody>
</table>

* No B&C score collected  ** No rifle hunt due to government shut down. ***No hunt due to training
PCMS Historical B&C Data and Harvest Numbers

### Rifle Pronghorn Horn Length 1989-1997

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td># Pronghorns Measured</td>
<td>27</td>
<td>38</td>
<td>33</td>
<td>41</td>
<td>36</td>
<td>37</td>
<td>36</td>
<td>n/a</td>
<td>28</td>
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</table>

### Rifle Pronghorn Horn Length 2012-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
<th>2013*</th>
<th>2014</th>
<th>2015</th>
<th>2016**</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td># Pronghorns Measured</td>
<td>13</td>
<td>n/a</td>
<td>11</td>
<td>15</td>
<td>n/a</td>
<td>19</td>
<td>14</td>
</tr>
<tr>
<td>Avg. Horn Length</td>
<td>12 7/8</td>
<td>n/a</td>
<td>13 3/8</td>
<td>13 3/8</td>
<td>n/a</td>
<td>13 3/8</td>
<td>12 4/8</td>
</tr>
</tbody>
</table>

**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.
2018 Average B&C by Season

30 bucks harvested  
Average B&C 131 3/8

22 bulls harvested  
Average B&C 230 1/8

46 bucks harvested  
Average B&C 68 7/8

4 rams harvested  
Average B&C 152
Average B&C of All Mule Deer (2012-2018)

- 2012: n=24, B&C = 129
- 2013: n=15, B&C = 157
- 2014: n=18, B&C = 144
- 2015: n=25, B&C = 164
- 2016: n=20, B&C = 151
- 2017: n=35, B&C = 157
- 2018: n=30, B&C = 131
- 7 yr Avg: n=30, B&C = 148

Explanation:
The chart above illustrates the average B&C (Body Condition Score) of all mule deer harvested from 2012 to 2018. The data shows a significant increase in average B&C from 129 in 2012 to 164 in 2015. After 2015, the average B&C slightly decreased but remained relatively high, with an average of 148 in the 7-year period. The number of buck deer harvested each year is indicated below each bar, with a total of 24, 15, 18, 25, 20, 35, and 30 respectively.
Average B&C of All Elk (2012-2018)

- 2012: 243 (n=11)
- 2013: 250 (n=8)
- 2014: 257 (n=13)
- 2015: 244 (n=10)
- 2016: 232 (n=15)
- 2017: 205 (n=11)
- 2018: 230 (n=22)

7 yr Avg: 237

n = # bull elk harvested
Average B&C of All Pronghorn (2012-2018)

<table>
<thead>
<tr>
<th>Year</th>
<th>Average B&amp;C</th>
<th>n</th>
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</thead>
<tbody>
<tr>
<td>2012</td>
<td>70</td>
<td>17</td>
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<td>2013</td>
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<td>2014</td>
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<td>2015</td>
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<td>2016</td>
<td>61</td>
<td>18</td>
</tr>
<tr>
<td>2017</td>
<td>68</td>
<td>51</td>
</tr>
<tr>
<td>2018</td>
<td>69</td>
<td>46</td>
</tr>
</tbody>
</table>

7 yr Avg: 68

n = # buck pronghorn harvested
Average B&C of All Bighorn Sheep (2012-2018)

- 2012: 147 (n = 2)
- 2013: 170 (n = 2)
- 2014: 144 (n = 3)
- 2015: 154 (n = 1)
- 2016: 152 (n = 2)
- 2017: 162 (n = 3)
- 2018: 152 (n = 4)
- 7 yr Avg: 155

n = # bighorn rams harvested
All Mule Deer, Elk & Pronghorn Harvested 2013-2018 (Male & Female)

MULE DEER
- 2013: 28
- 2014: 35
- 2015: 36
- 2016: 38
- 2017: 57
- 2018: 34

ELK
- 2013: 15
- 2014: 16
- 2015: 10
- 2016: 25
- 2017: 20
- 2018: 29

PRONGHORN
- 2013: 3
- 2014: 24
- 2015: 36
- 2016: 24
- 2017: 68
- 2018: 76
Percent of 4th Season Multi-unit Elk Hunters Hunting on PCMS 2011-2018

# hunters showed / # tags issued

2011: 48/12
2012: 53/9
2013: 78/14
2014: 95/18
2015: 41/12
2016: 78/18
2017: 60/17
2018: 53/16
Total Number of Downrange Passes for Calendar Year 2018 = 1942

Downrange Passes by Month (Calendar Year 2018)

- January: 83
- February: 15
- March: 38
- April: 31
- May: 19
- June: 0
- July: 0
- August: 0
- September: 296
- October: 534
- November: 429
- December: 497
Total Number of Downrange Passes for Hunt Year 2018 = 1906

Downrange Passes by Month (Hunt Year 2018 - 2019)
Downrange Passes for Deer by Season (2015-2018)

Note: This chart does not reflect the number of individual hunters, but the number of times each hunters accessed PCMS during the deer seasons. Some hunters may also carry tags for other seasons.
### Downrange Passes for Elk by Season (2015-2018)

<table>
<thead>
<tr>
<th>Season</th>
<th>Archery (OTC)</th>
<th>Muzzleloader</th>
<th>2nd OTC Rifle</th>
<th>3rd OTC Rifle</th>
<th>4th Rifle</th>
<th>Late Cow</th>
<th>Plains (OTC)</th>
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<td>83</td>
<td>50</td>
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<td>104</td>
<td>71</td>
<td>65</td>
<td>83</td>
<td>105</td>
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<tr>
<td>2017</td>
<td>33</td>
<td>15</td>
<td>113</td>
<td>115</td>
<td>49</td>
<td>89</td>
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<td>77</td>
<td>112</td>
<td>49</td>
<td>105</td>
<td>63</td>
</tr>
</tbody>
</table>

Note: This chart does not reflect the number of individual hunters, but the number of times each hunters accessed PCMS during the elk seasons. Some hunters may also carry tags for other seasons.

2018 season shortened due to training

2018 season cancelled due to training
Note: This chart does not reflect the number of individual hunters, but the number of times each hunters accessed PCMS during the pronghorn seasons. Some hunters may also carry tags for other seasons.
Downrange Passes for Big Game (2016-2018)

- **Deer**:
  - 2016: 501
  - 2017: 567
  - 2018: 552

- **Elk**:
  - 2016: 567
  - 2017: 551
  - 2018: 459

- **Pronghorn**:
  - 2016: 118
  - 2017: 250
  - 2018: 253

- **Sheep**:
  - 2016: 16
  - 2017: 21
  - 2018: 28
Downrange Passes for Other Game Animals (2016-2018)

- Coyote: 82, 78, 105
- Small game: 52, 28, 44
- Turkey: 44, 24, 42
- Lion: 8, 24, 10
- Bobcat: 16, 6, 7
- Prairie Dog: 0, 0, 7
- Bear: 0, 2, 4
Downrange Passes for Scouting & Other Activities (2016-2018)

2016
- Scouting: 203
- Other Rec: 27
- Shed Hunting: 0

2017
- Scouting: 265
- Other Rec: 49
- Shed Hunting: 0

2018
- Scouting: 342
- Other Rec: 44
- Shed Hunting: 6
2018 Hunting Photos