

Deer, Elk, Pronghorn, and Moose Limited License Recommendations and State of the Herds Update

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Big Game Manager



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Overview

- Acknowledgments
- Limited license recommendations
 - 257,000 limited licenses (+3,400, +1%)
 - 2,600 hunt codes
 - 800,000 big game animals
- Statewide summary by species
- Highlighting select Regional and DAU specific changes



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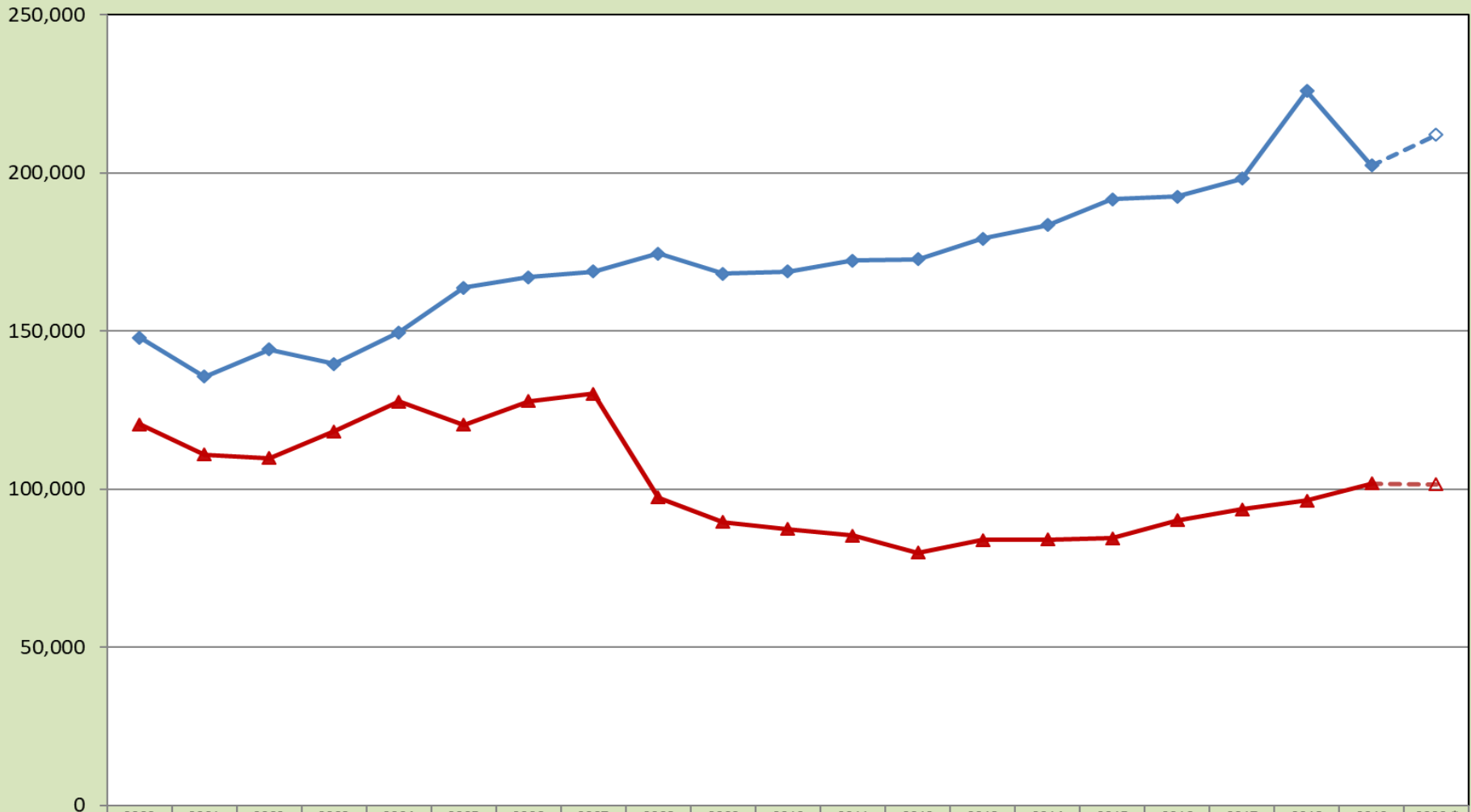
Information Supporting Recommendations

- Herd Management Plan objectives
- Annual data and estimates
- Age and sex classification data
- Harvest estimates
- Survival estimates
- Population estimates
- Field observations
- Public input and reports



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Deer Applications and Limited License Quotas By Year



| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 * |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Applications | 147861 | 135631 | 144122 | 139629 | 149532 | 163636 | 166993 | 168862 | 174465 | 168107 | 168862 | 172234 | 172650 | 179182 | 183431 | 191708 | 192538 | 198205 | 225855 | 202305 | 212000 |
| Quota | 120456 | 110942 | 109837 | 118195 | 127689 | 120322 | 127838 | 130106 | 97388 | 89643 | 87302 | 85246 | 79824 | 83916 | 84080 | 84442 | 90086 | 93630 | 96348 | 101826 | 101500 |

Year

* Projected estimate

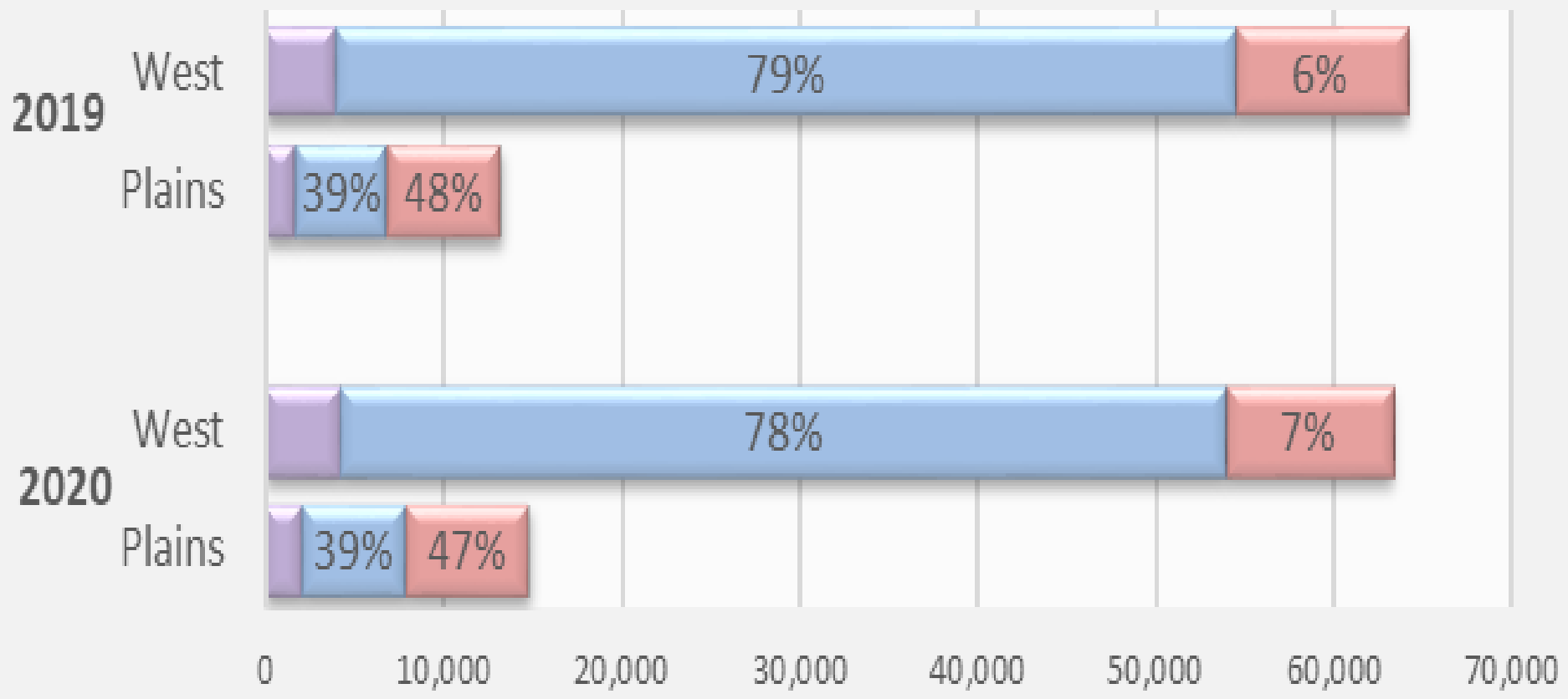


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Deer Rifle Quota by Sex

West of I-25 vs. Plains DAUs

Either-sex Antlered Antlerless

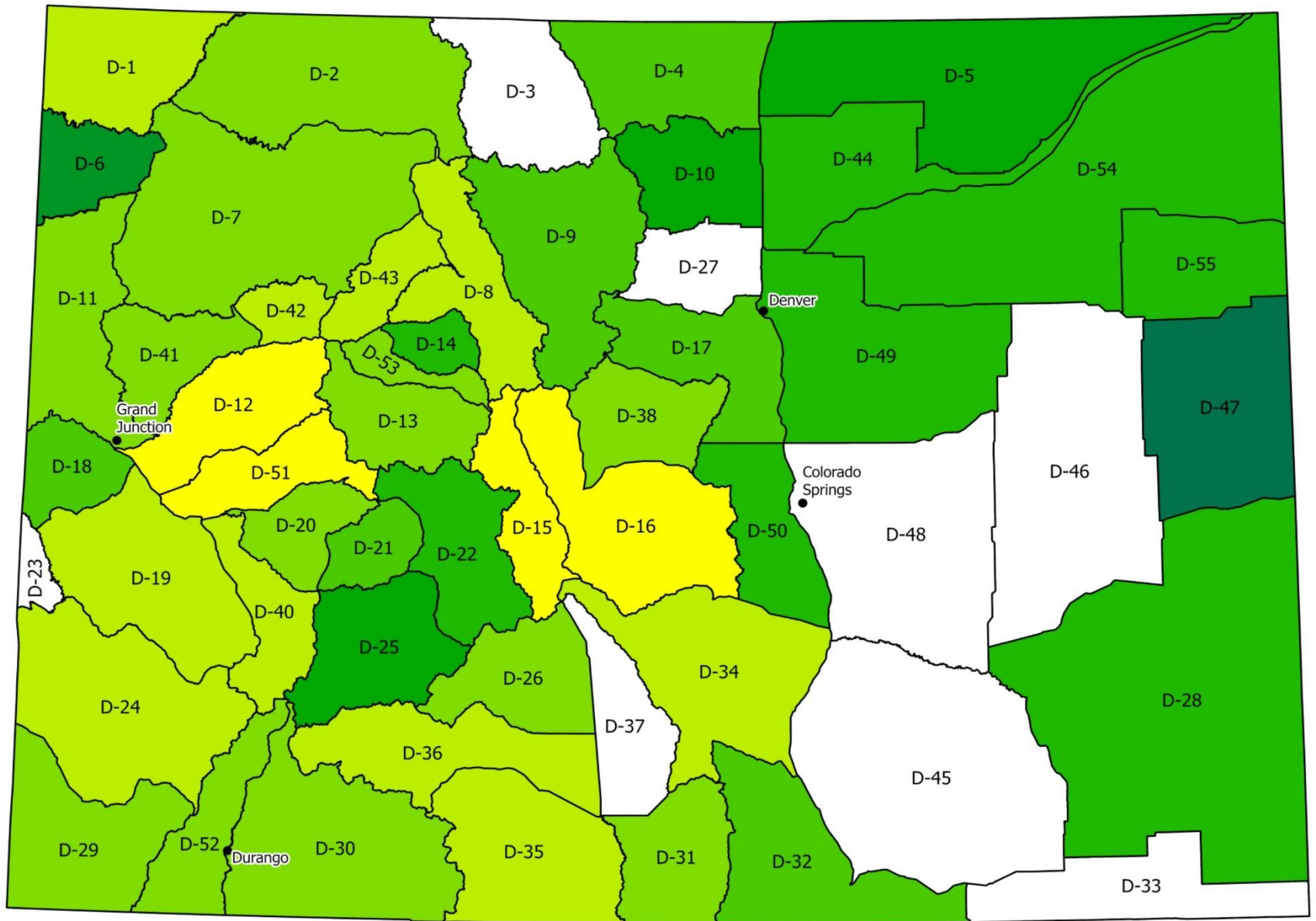


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Statewide Average of Post-hunt Deer Buck/Doe Ratios 2005-2019



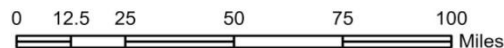
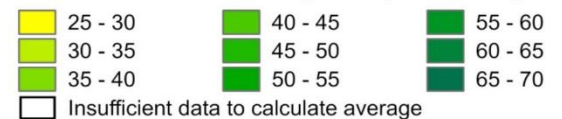
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Deer Buck Doe Ratios Post-Hunt

3-Year Average 2017 - 2019

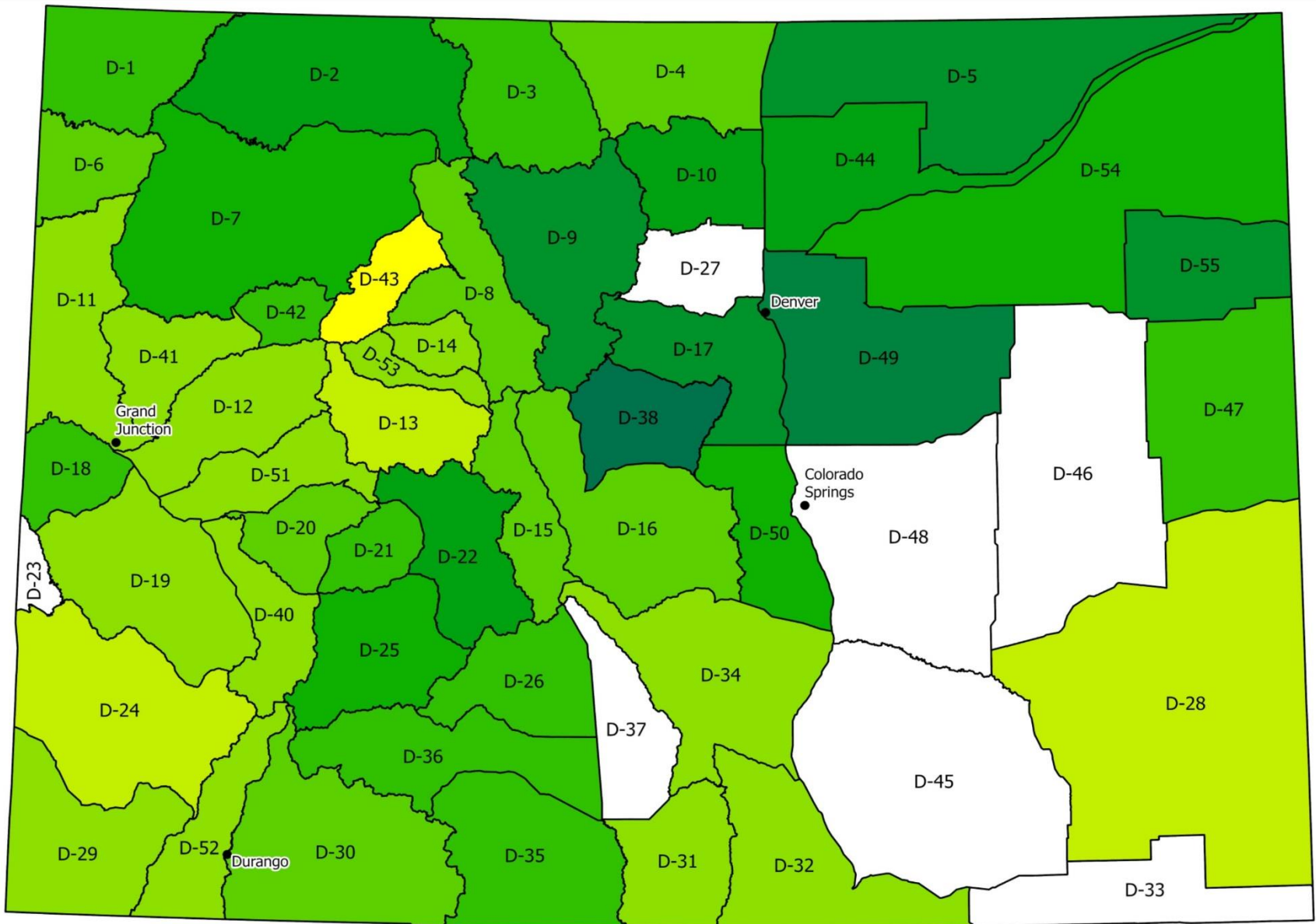
Deer Buck Doe Ratios (Bucks/100 Does)



*Average bucks per 100 does for herds with at least 2 years of inventory data.



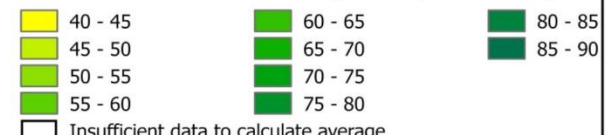
GIS Unit



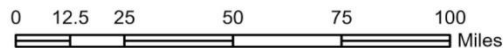
Deer Fawn Doe Ratios Post-Hunt

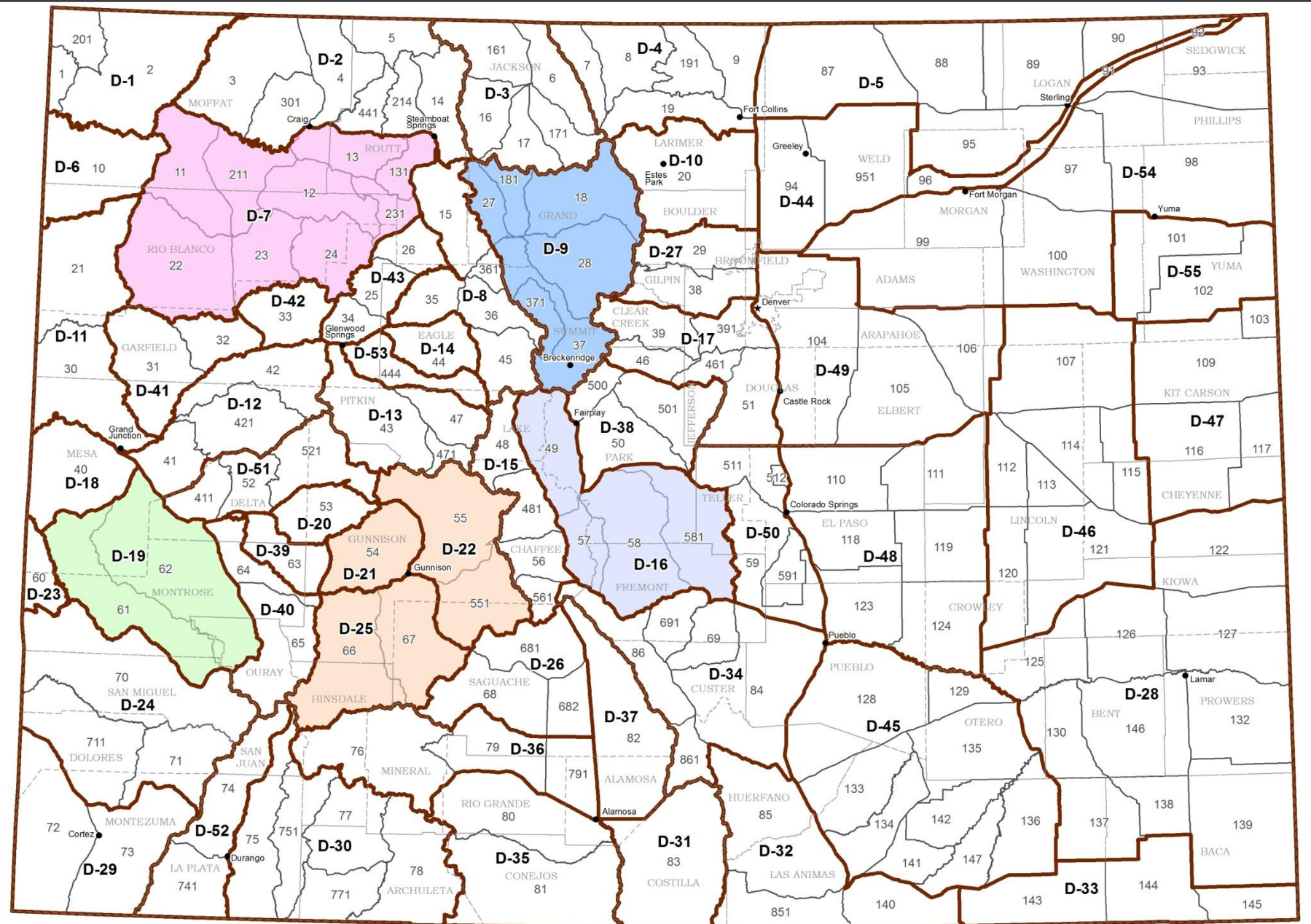
5-Year Average 2015 - 2019

Deer Fawn Doe Ratios (Fawns/100 Does)

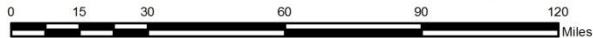


*Average fawns per 100 does for herds with at least 3 years of inventory data.



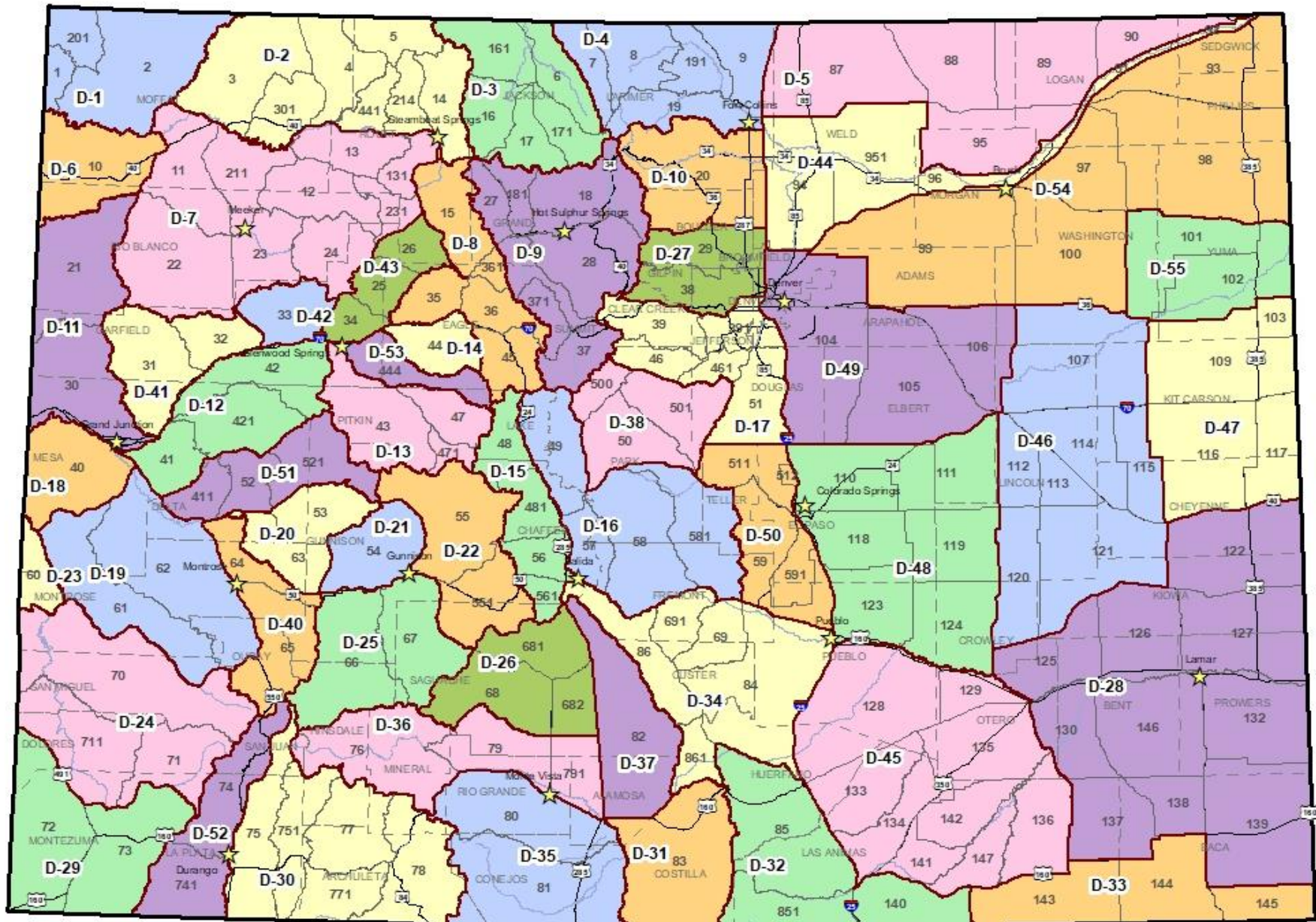


Mule Deer Intensive Monitoring Areas



January 2017



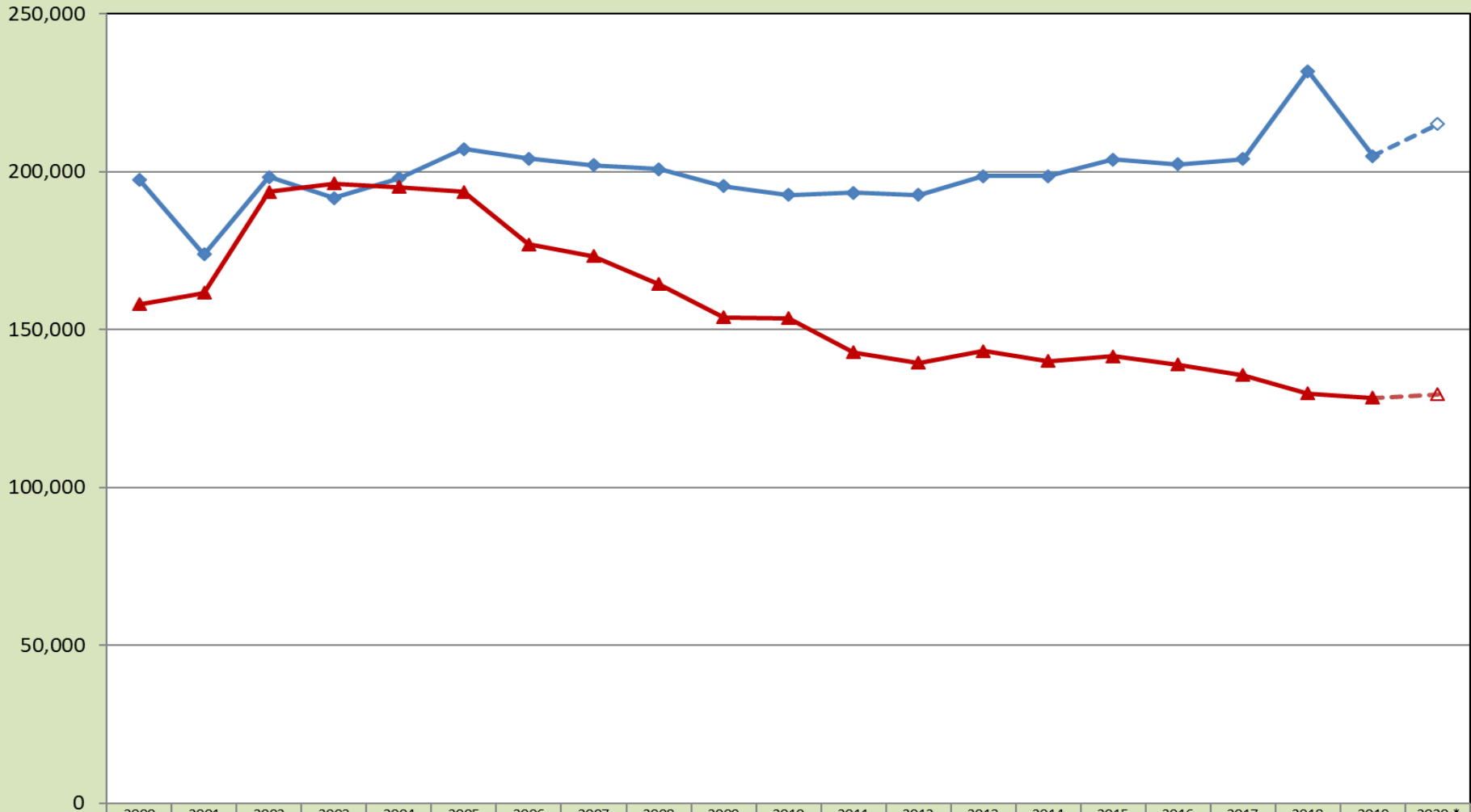


COLORADO PARKS AND WILDLIFE - Deer DAUs

April 2020



Elk Applications and Limited License Quotas By Year



| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 * |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Applications | 197463 | 173730 | 198245 | 191714 | 197866 | 207108 | 204074 | 202111 | 200826 | 195332 | 192655 | 193380 | 192638 | 198621 | 198649 | 203823 | 202364 | 204024 | 231846 | 204984 | 215000 |
| Quota | 157970 | 161603 | 193634 | 196187 | 195056 | 193555 | 176978 | 173185 | 164393 | 153905 | 153625 | 142817 | 139451 | 143158 | 140018 | 141540 | 138850 | 135589 | 129790 | 128358 | 129500 |

Year

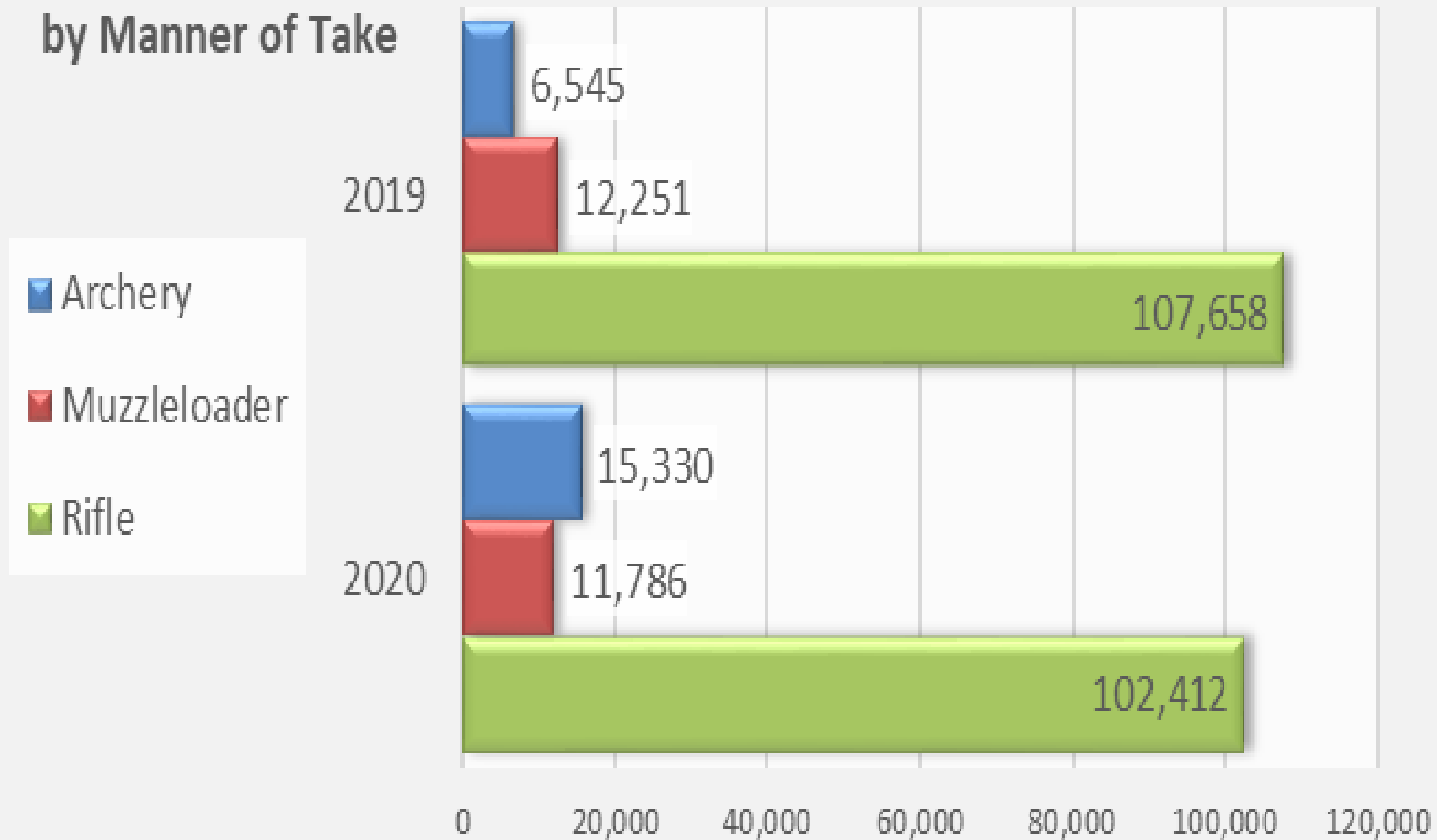
* Projected estimate



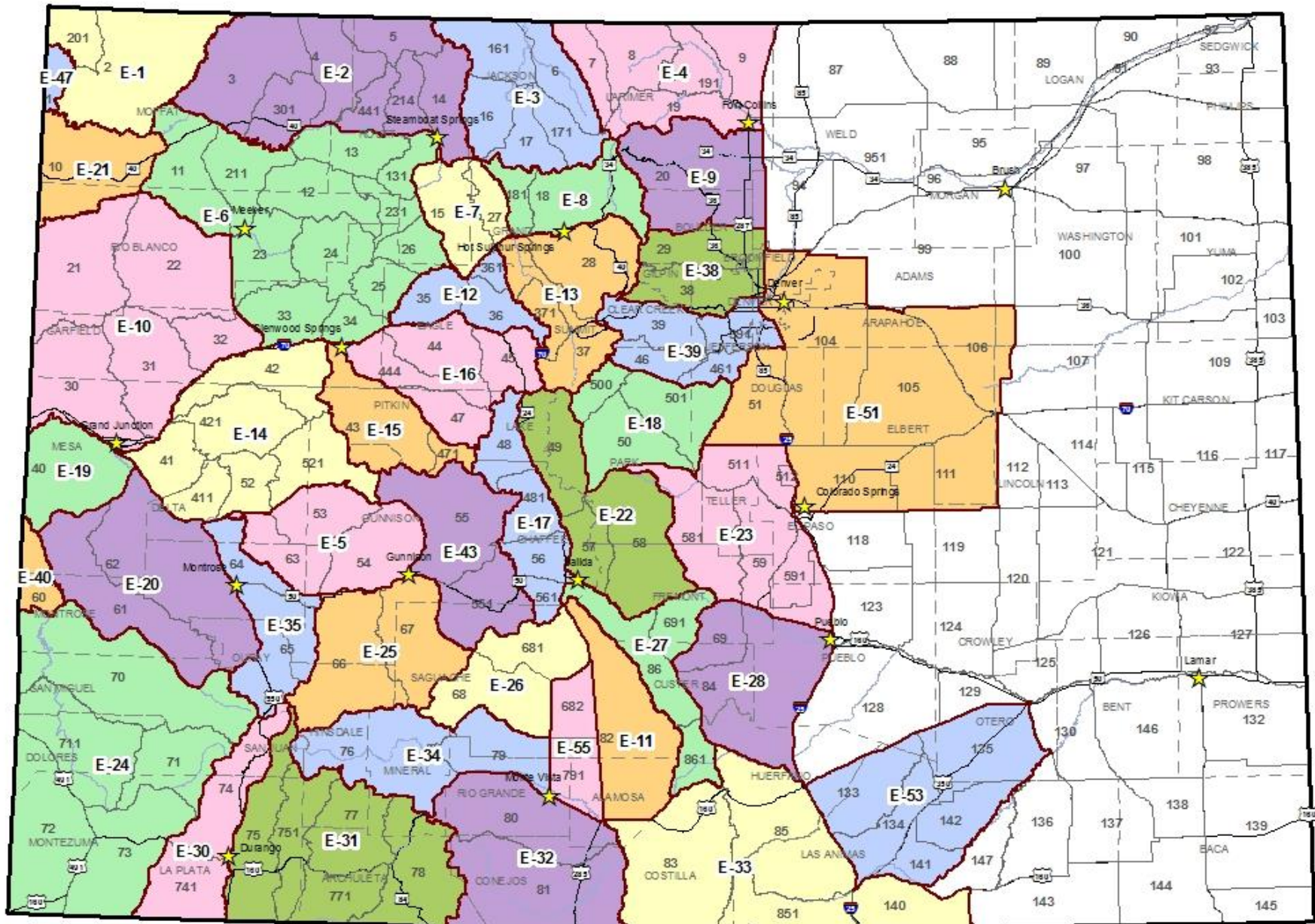
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Elk Quota

by Manner of Take



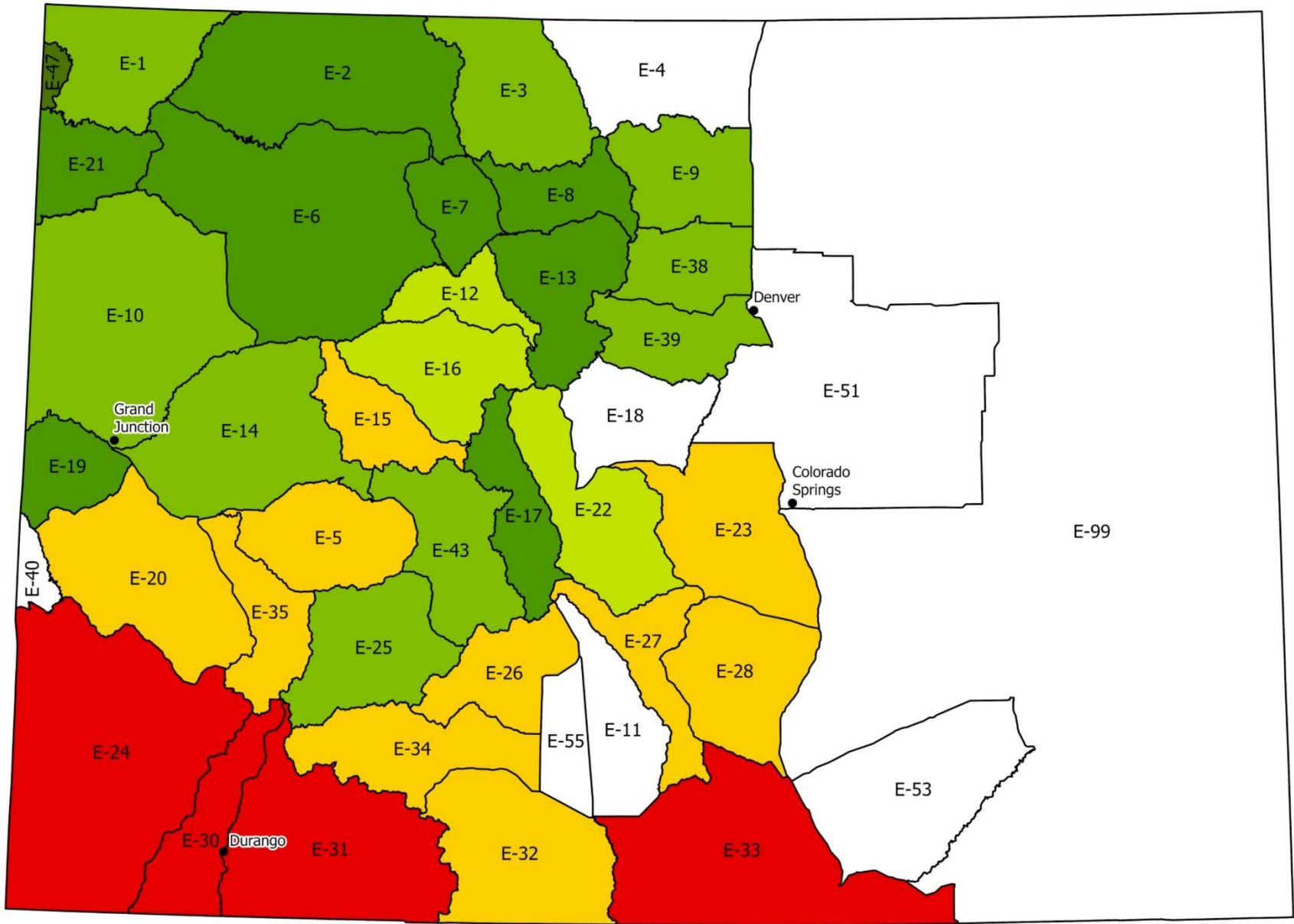
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COLORADO PARKS AND WILDLIFE - EIK DAUs

April 2019

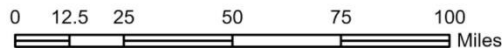
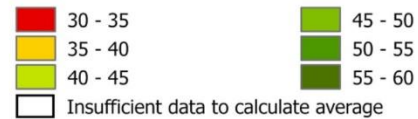




Elk Calf Cow Ratios Post-Hunt

5-Year Average 2015 - 2019

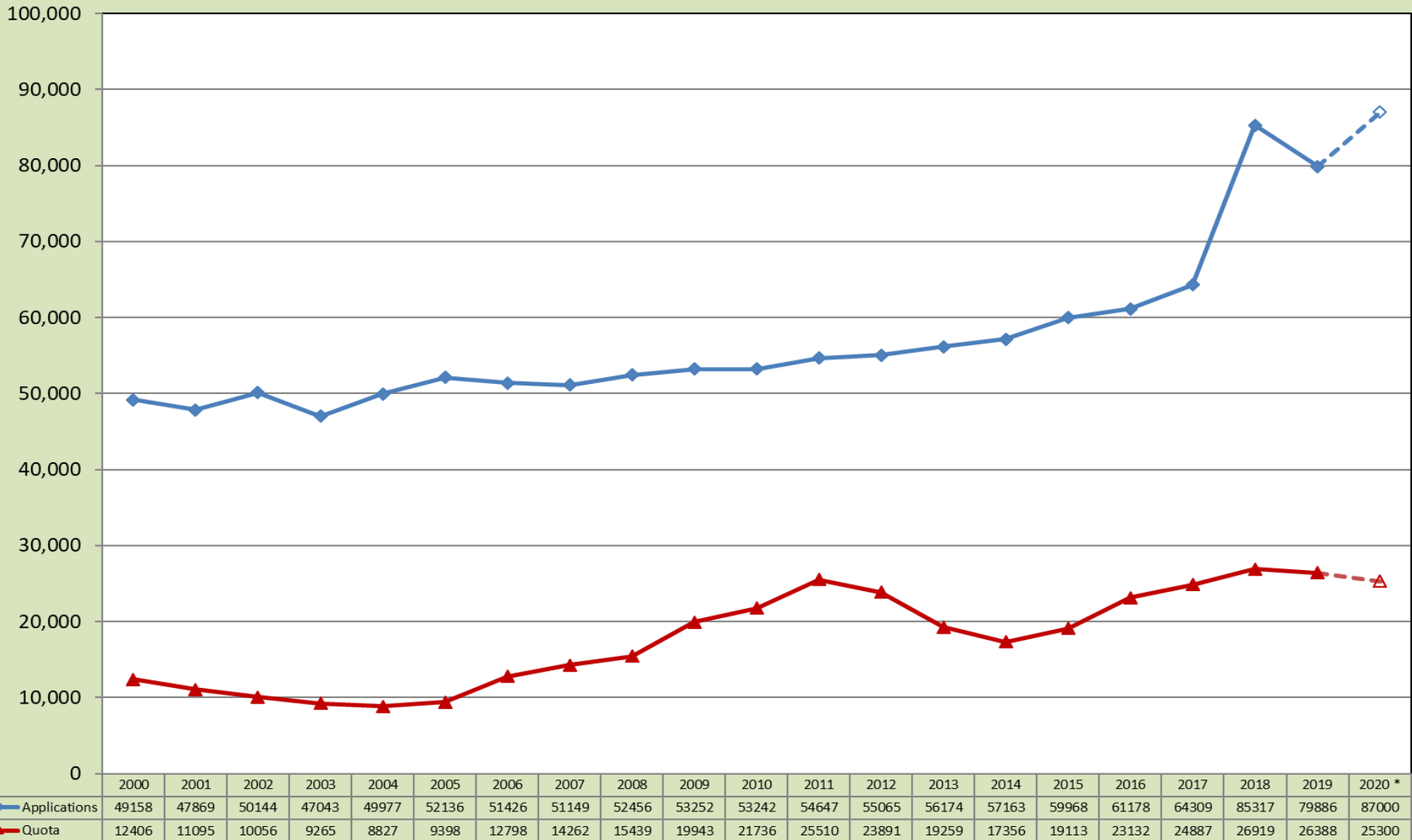
Elk Calf Cow Ratios (Calves/100 Cows)



*Average calves per 100 cows for herds with at least 3 years of inventory data.



Pronghorn Applications and Limited License Quotas By Year



Year

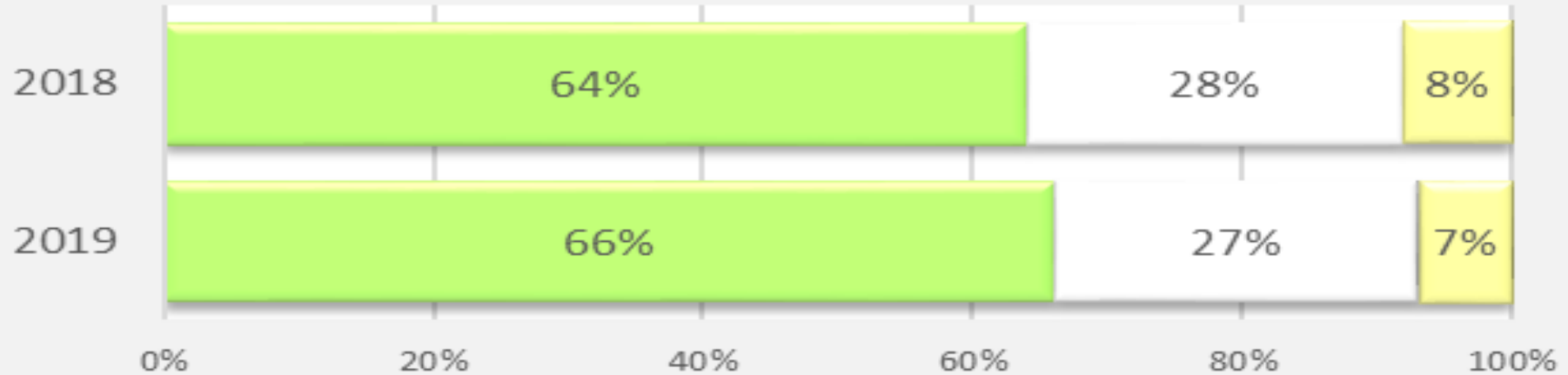
* Projected estimate



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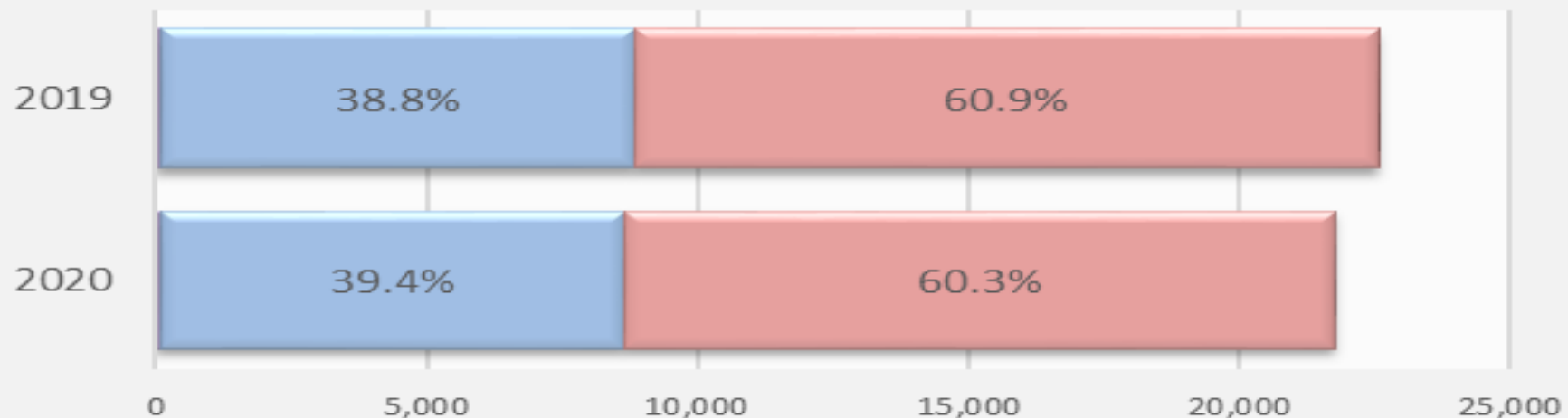
Pronghorn Populations to Pop. Obj. Range % of Total Populations

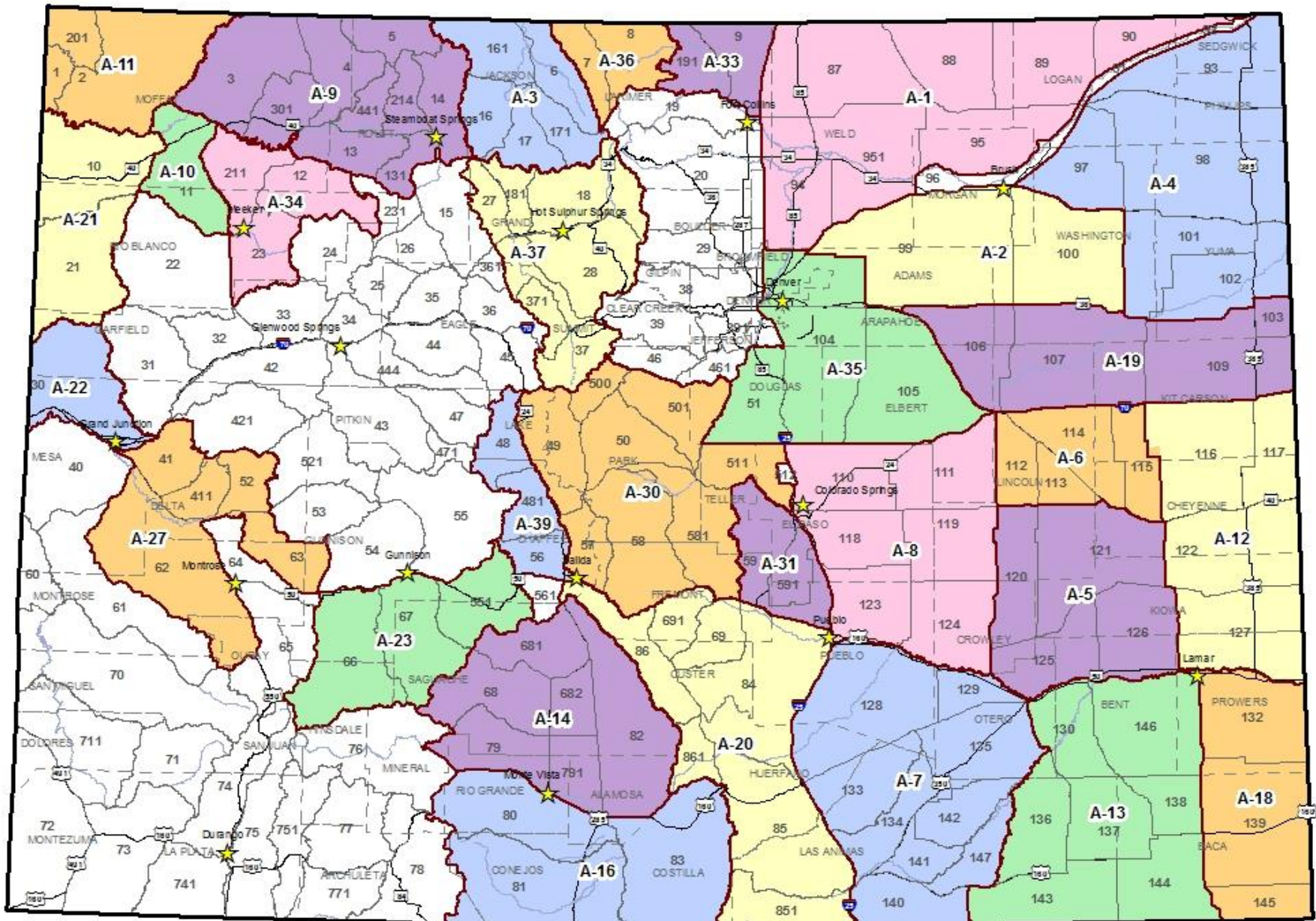
■ Above □ Within ■ Below



Pronghorn Rifle Quota by Sex

■ Either-sex ■ Buck ■ Doe



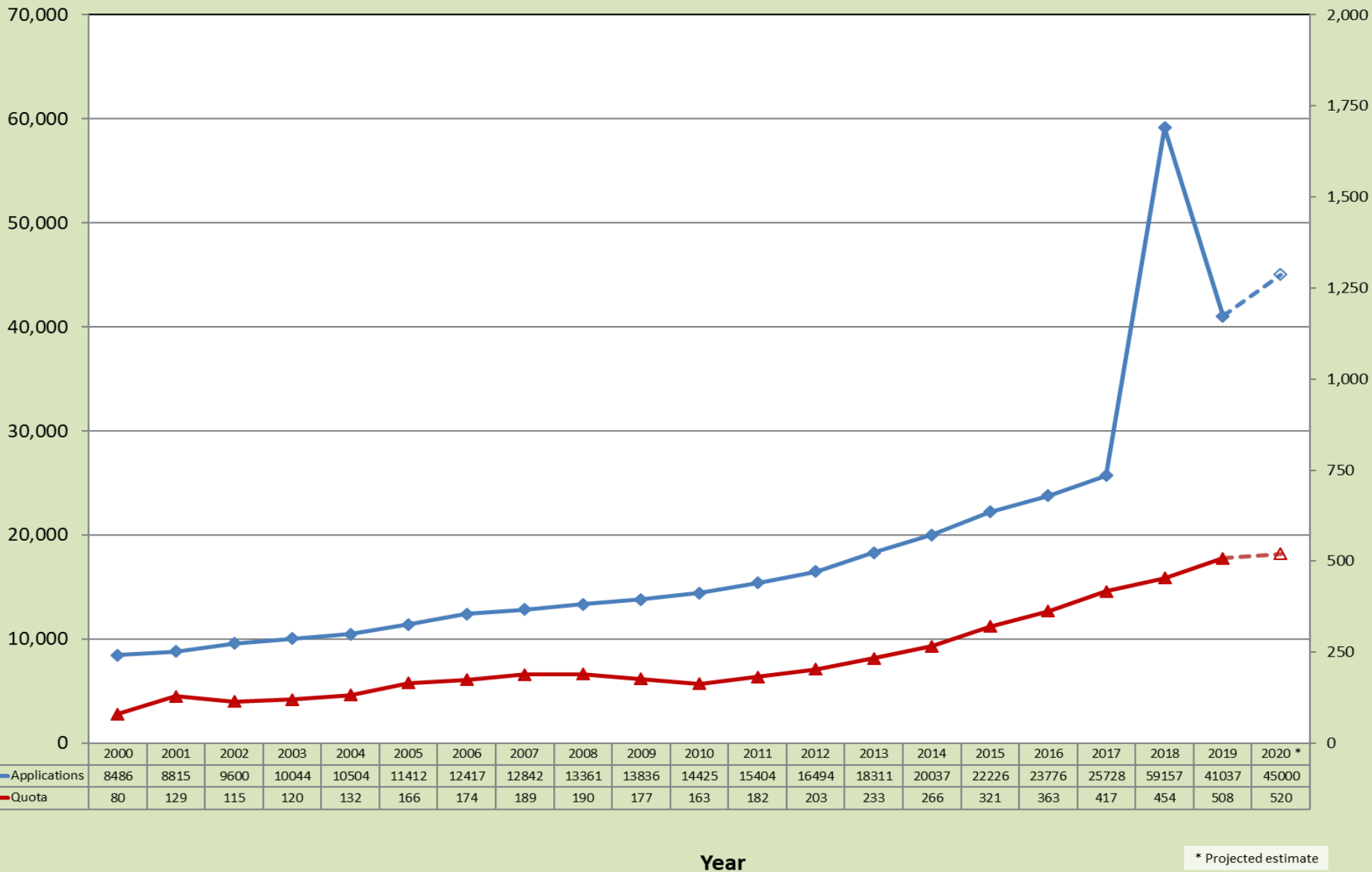


COLORADO PARKS AND WILDLIFE - Pronghorn DAUs

April 2019



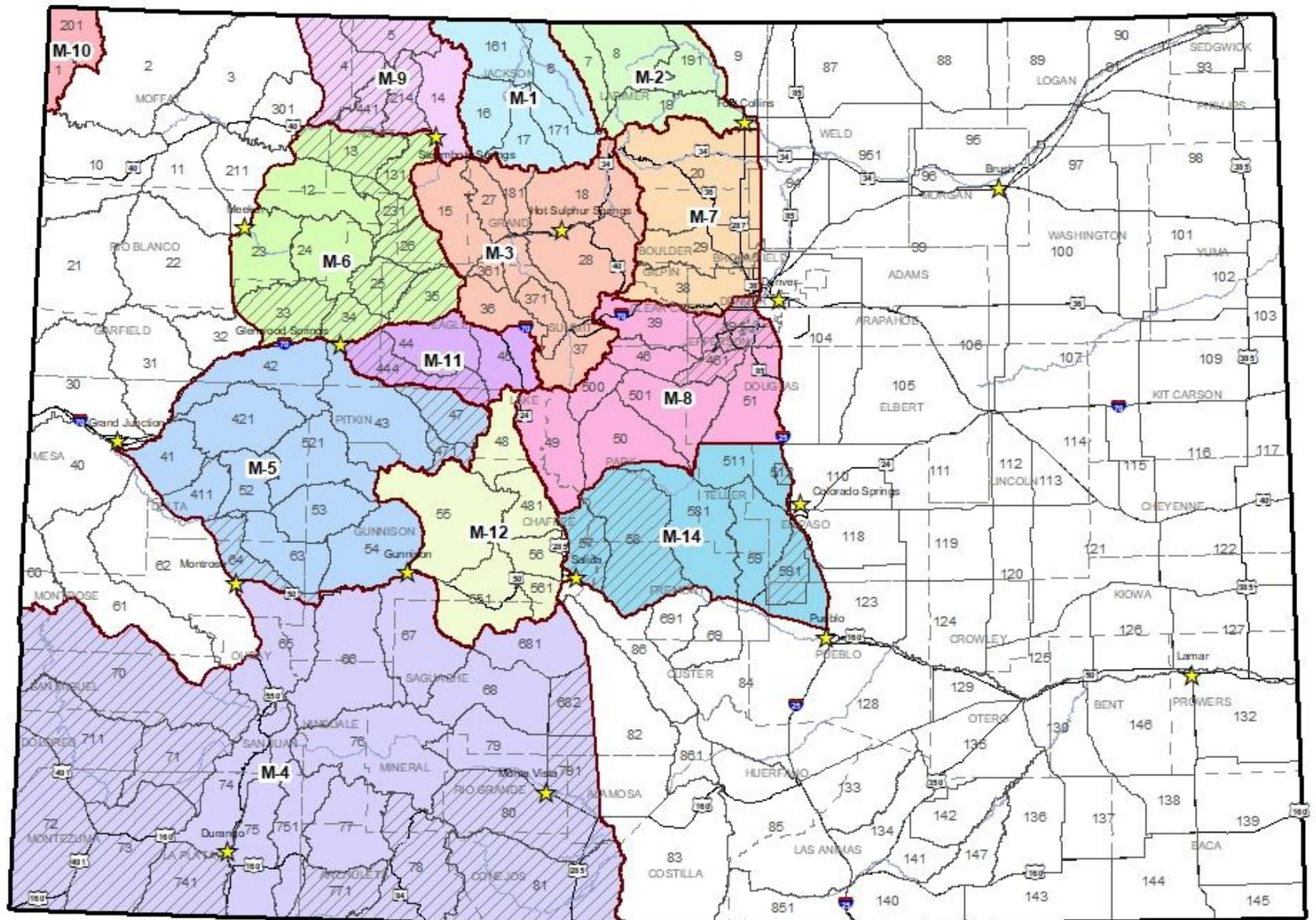
Moose Applications and Limited License Quotas By Year



* Projected estimate



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COLORADO PARKS AND WILDLIFE - Moose DAUs (hunted DAUs only)

 Nonhunted GMUs

April 2020



Questions and Discussion



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2020 Black Bear License Recommendations



Parks and Wildlife Commission

May 6-7, 2020

Virtual Meeting

Mark Vieira- CPW Carnivore and Furbearer Program Manager

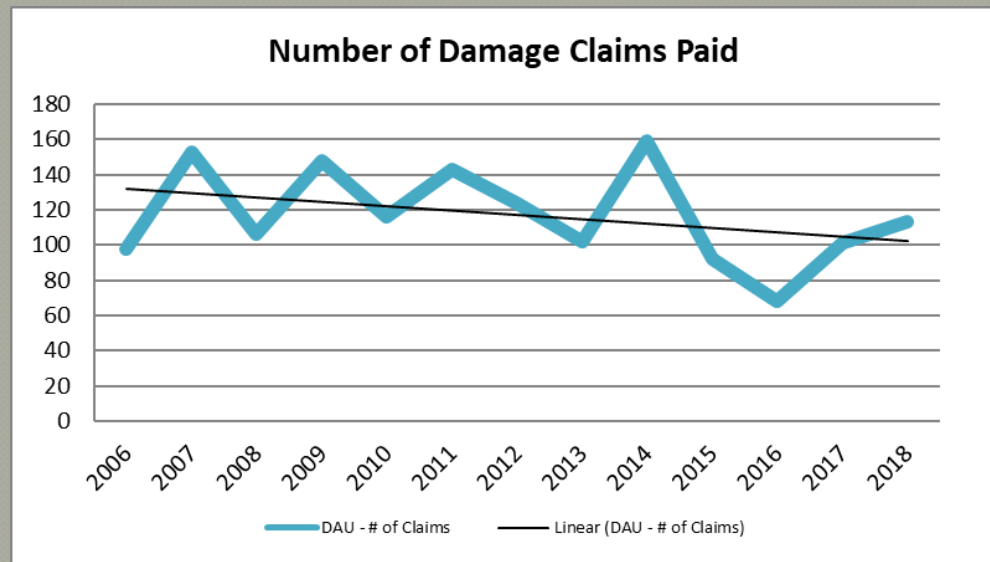
Information Supporting Recommendations

- Harvest Composition (Age Classes & Gender)

| Harvest Composition Monitoring Standards | | | |
|--|------------|--------|------------|
| Age/Gender Class | Decreasing | Stable | Increasing |
| Adult Male Harvest in All Harvest | < 25% | 25-35% | > 35% |
| Total Female Harvest in All Harvest | > 40% | 30-40% | < 30% |
| Adult Female in Total Female Harvest | > 55% | 45-55% | < 45% |

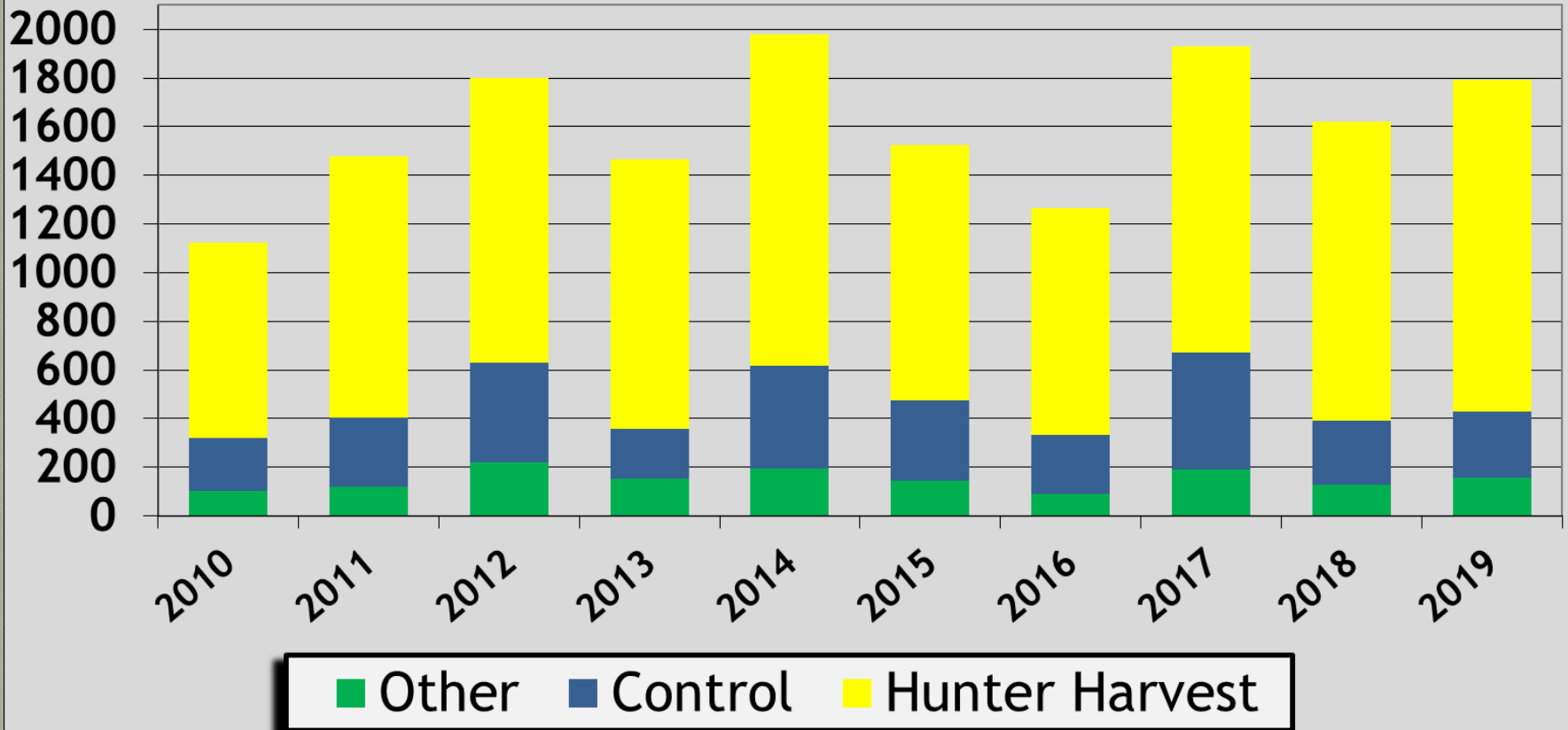
- Bear Damage Claims

- Human Conflicts and Other Data

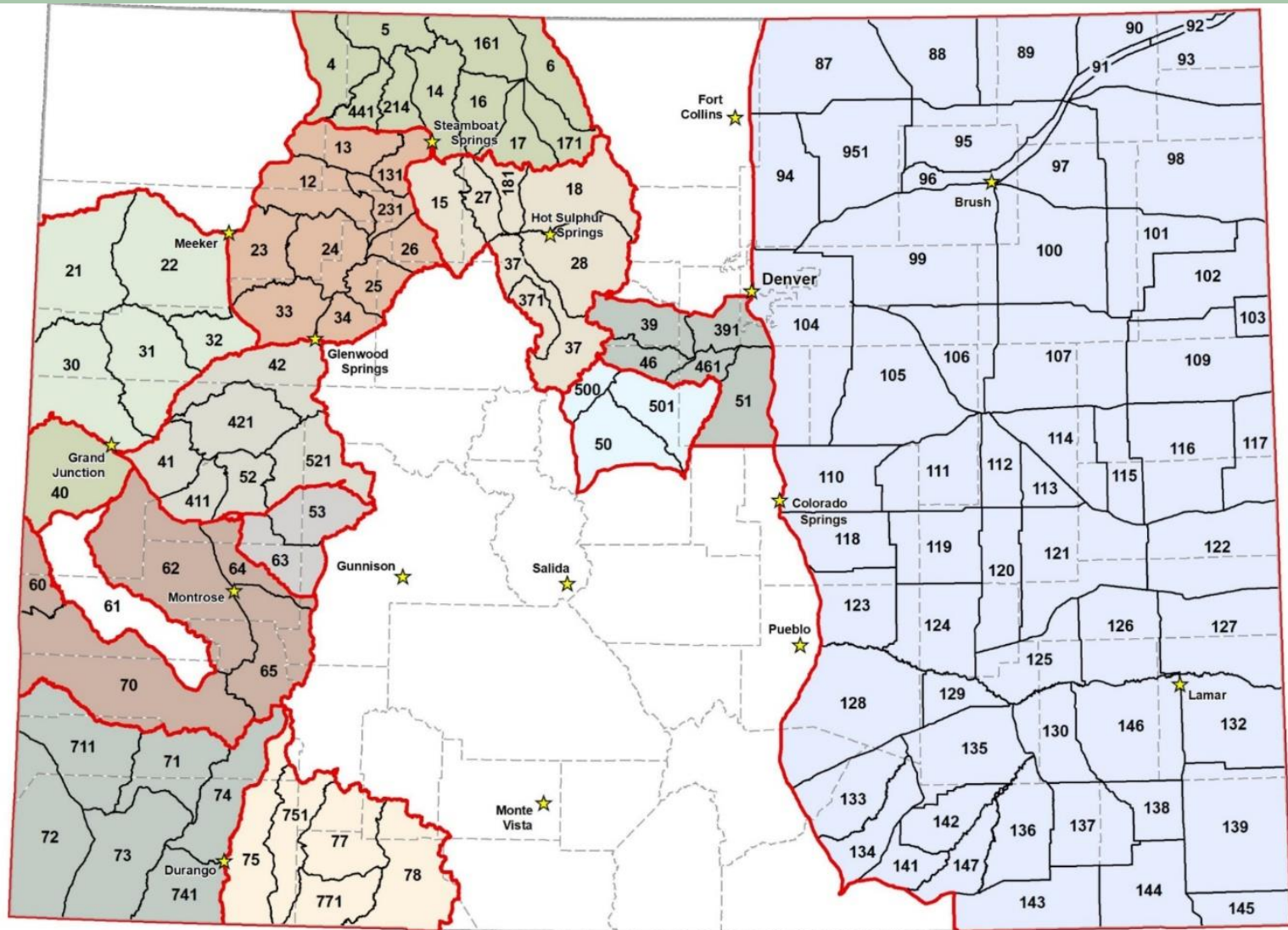


Mortality History

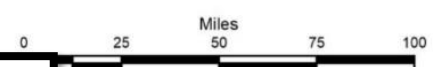
Colorado Bear Mortality by Mortality Type 2010-2019



2020 Bear Management License Strategy



Units with OTC and OTC Add-on Black Bear Licenses 2020

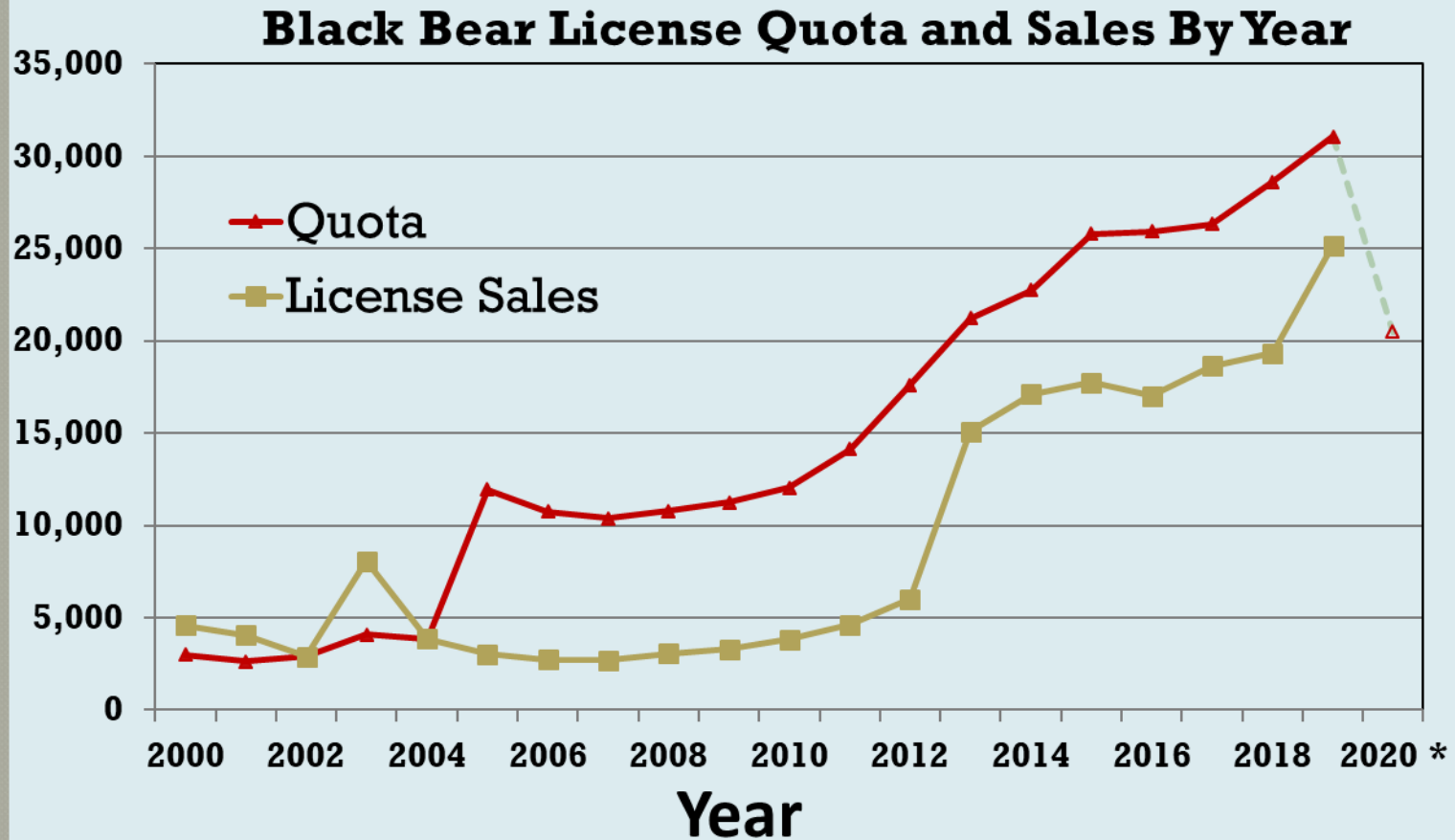


- ★ CPW offices
- Only limited licenses available
- Grouped units boundary

Units shaded the same color are part of the same unit grouping. See the archery, muzzleloader and rifle tables.



License History



2020 quota recommendation is 20,500 limited licenses

Impact of NR fee reduction in 2019

Total Bear License Sales

■ Resident ■ Nonresident

