

## Allocation Assessment Report

Last Modified: March 8, 2017

Following are assessment tables for each Category A hunt, divided by species, with region by region breakdowns. It should be stressed that throughout an allocation period new information can come available, and as it does so these numbers may be adjusted. This information helps inform guide quota decisions as well as Limited Entry Hunting (LEH) opportunities for resident hunters in the 2017 season.

These tables summarize harvest allocation numbers for the 2012-16 period and compares this period with the 2017-21 allocation, and quantify the influences of annual allowable harvest (AAH), First Nations harvest or policy on allocation. Because some regions account for First Nations as a direct number, and others incorporate knowledge of First Nations harvest into other sources of mortality. In these latter cases, First Nations' harvest impacts will be reflected as "0" but are incorporated into AAH figures.

Issues vary considerably by region. In areas where there are reductions, reasons vary and can include lower population estimates, First Nations harvest and adjustments to the harvest allocation policy made in February 2015. Policy adjustments impact allocation in two main ways:

1. In areas where other measures have lowered overall allowable harvest, an adjustment to resident/non-resident splits can either mitigate or exacerbate reduced opportunity.
2. In areas where there is an historic use of hardship or administrative mitigation measures, some guide allocation will be affected negatively.

Figures compare the estimated 2012-2016 allocation to the 2017-21 projected allocation. The 2012-16 allocation is an estimate because changes to the allocation policy were brought in over different years in that period, making it necessary to calculate a 2012-16 average instead of using an individual year's actual number. The 2017-21 allocation is the first period where the allocation policy is fully employed. This allows us to better compare "like vs. like" for the two periods.

Because of the various transitional policy directives that were implemented during the 2012-16 allocation period and because of regulatory timelines, resident LEH authorizations (and therefore allocations) were not always calculated directly to account for increases or decreases in guide opportunity/allocation. For the purposes of this retrospective analysis, it was assumed that non-resident and resident allocations, when summed, equaled the AAH multiplied by five (to account for the five year allocation period). Based on this assumption, the resident allocation was derived by deducting the non-resident allocation from the AAH totalled over five years.

The analysis compared only 'Category A Hunts'. Where hunts have been cancelled or where they were initiated for 2017, comparisons were not possible. These hunts and their allocations are noted in the regional sections.

The data contained in this report represent the best available knowledge at this point in time. As time passes, changing populations/annual allowable harvest and changing First Nations Allotments could serve change the number of animals that can be made available to resident and non-resident hunters.

In some cases 'additions' in the tables will not be correct due to rounding errors which will be less than "0.1" of an animal.

All numbers adjusted since the last update are highlighted in yellow for ease of reference.

## February 2017 updates:

### Grizzly Bear:

Grizzly bear information was not previously available, but has now been added. While all grizzly bear hunts are on LEH, some occur in vacant territories and are therefore not allocated. In addition, if specific grizzly hunts opened or closed over the previous period, comparative analysis can be complicated. Highlights of these factors being at play include the following:

- **Kootenays:** Grizzly Bear hunting the South Rockies Grizzly Bear Population Unit (comprising MUs 4-21, 4-22, 4-23A, 4-23B and 4-24) has been discontinued due to conservation concerns and as such these MUs are not included in this comparative analysis. For completeness however, in the 2012-16 Allocation Period the allocation to non-residents was 8 bears and residents was five bears.
- **Cariboo:** Due to the incremental implementation of grizzly allocation in the South Chilcotin in 2012-16 (the season was opened in Spring 2014 and LEH and quota were gradually increased over that period) a comparison to 2017-2021 was not possible. Accordingly Zones 5-05 and 5-06 are not included in this analysis. For completeness, in the 2012-16 period the allocation to non-residents was 10 bears and the allocation to residents was 10 bears.
- **Omineca:** In the Omineca region it was not practical to remove unguided areas from the Grizzly analysis so the proportions slightly vary from the set 60/40 allocation splits due to the fact that all the licenced harvest goes to residents in non-guided (vacant) territories.
- **Peace:** Grizzly Bear hunting the Moberly Grizzly Bear Population Unit (MU 7-35) has been discontinued due to conservation concerns. As such this MU is not included in this analysis. For completeness however, in the 2012-16 allocation period the non-resident allocation was 0.5 bears and the resident allocation was 4.5 bears.

### Omineca Moose:

- Adjustments to Omineca Moose that include two factors not previously accounted for in our earlier submission: the First Nations accommodation measure in Zone E and the removal of guide hardship measures (Quota Variance Principle). Neither adjustment impacts guide quota letters issued earlier, as numbers at the guide territory level were correct. The accommodation measure in Zone E is the reason you will note that the overall Omineca moose numbers do not appear to reflect the 77/23 split announced by the minister in February 2015.
- Additionally, the Omineca Region analysis was conducted at the GMZ level. However, due to changing guide outfitter vacancy rates, the analysis considered the entire GMZ regardless of whether or not it was occupied by a guide. This circumstance required an explicit calculation of the effects of vacancy changes for this region. The transfer of 5 previously vacant or unoccupied guide territories in 2013 or 2014 resulted in the transfer of 98.1 bull moose from residents to non-residents in the 2012-16 period. Had these transfers occurred at the beginning of the period the transfers would have been increased to 159.2 bull moose (since they would have been in place for the entire allocation period, instead of mid-way. The Vacancy Rate impact is the difference between these numbers, which is 61.1 animals, and it represents the allocation difference between two allocation periods due to the changing vacancy rates. This impact is in addition to the impacts described in the Omineca moose calculations below.

### Other data adjustments/items of note:

- Slight adjustments have been made to Skeena goats to correct preliminary figures.
- Adjustments were made to Peace “either sex” elk to remove unguided area (non-Category A hunts) from the analysis of Peace “either sex” elk.

**Total Moose**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
3	Bull Moose	89.0	85.9	668.0	487.0	0.0	0.0	-21.2	-162.7	18.2	-18.2	-3.0	-180.9
4	Bull Moose	185.0	156.3	663.7	625.4	0.0	0.0	-14.6	-52.4	-14.1	14.1	-28.7	-38.3
5	Bull Moose	996.2	930.9	2,859.5	2,792.6	-7.0	-22.4	-40.4	-62.3	-17.9	17.9	-65.4	-66.8
6	Bull Moose	1,566.3	1,054.1	4,613.9	3,162.4	-122.9	-362.1	-374.7	-1,103.9	-14.5	14.5	-512.1	-1,451.5
7A	Bull Moose	2,437.2	2,425.4	8,628.0	7,732.6	0.0	0.0	-174.1	-733.1	162.3	-162.3	-11.8	-895.4
8	Bull Moose	156.0	175.0	804.3	700.0	0.0	0.0	-12.4	-72.8	31.4	-31.4	19.0	-104.3
<b>Total</b>	<b>Bull Moose</b>	<b>5,429.7</b>	<b>4,827.6</b>	<b>18,237.4</b>	<b>15,500.0</b>	<b>-129.9</b>	<b>-384.5</b>	<b>-637.4</b>	<b>-2,187.2</b>	<b>165.4</b>	<b>-165.4</b>	<b>-602.0</b>	<b>-2,737.2</b>

Note: This is a draft document and numbers or analysis subject to change as new information becomes available.

**Total Mountain Goat**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
3	Mountain Goat	64.0	62.6	111.0	116.3	0.0	0.0	1.5	2.5	-2.8	2.8	-1.3	5.3
4	Mountain Goat	239.0	231.3	495.4	429.5	0.0	0.0	-23.6	-50.0	15.9	-15.9	-7.7	-65.9
5	Mountain Goat	24.0	22.7	49.0	42.2	0.7	1.3	-3.3	-6.7	1.4	-1.4	-1.2	-6.7
6	Mountain Goat	206.7	209.0	471.3	388.2	-8.0	-18.6	-14.8	-39.4	25.1	-25.1	2.4	-83.1
7B	Mountain Goat	68.7	57	127.7	106	-1.8	-3.2	-9.9	-18.5	0.0	0.0	-11.7	-21.7
8	Mountain Goat	8.2	10.5	18.0	19.5	0.0	0.0	1.1	2.6	1.2	-1.2	2.3	1.5
<b>Total</b>	<b>Mountain Goat</b>	<b>610.6</b>	<b>593.1</b>	<b>1272.4</b>	<b>1101.7</b>	<b>-9.1</b>	<b>-20.5</b>	<b>-49</b>	<b>-109.5</b>	<b>40.8</b>	<b>-40.8</b>	<b>-17.2</b>	<b>-170.6</b>

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**Total Roosevelt Elk**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
1	Bull Elk	91.8	103.8	575.3	588.2	-5.5	-36.5	9.0	57.9	8.5	-8.5	12.0	12.9
2	Bull Elk	29.7	33.3	124.5	133.1	-3.3	-13.9	5.5	23.8	1.3	-1.3	3.6	8.6
<b>Total</b>	<b>Bull Elk</b>	<b>121.5</b>	<b>137.1</b>	<b>699.8</b>	<b>721.3</b>	<b>-8.8</b>	<b>-50.4</b>	<b>14.5</b>	<b>81.7</b>	<b>9.8</b>	<b>-9.8</b>	<b>15.6</b>	<b>21.5</b>

**Total Either Sex Elk (Roosevelt and Rocky Mountain Combined)**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
1	Either Sex Elk	17.6	14.6	59.3	82.9	-1.0	-4.0	5.5	20.2	-7.4	7.4	-3.0	23.6
7B	Either Sex Elk	116.0	124.3	409	440.7	-12.8	-45.2	21.7	76.3	-0.5	0.5	8.3	31.7
<b>Total</b>	<b>Either Sex Elk</b>	<b>133.6</b>	<b>138.9</b>	<b>468.3</b>	<b>523.6</b>	<b>-13.8</b>	<b>-49.2</b>	<b>27.2</b>	<b>96.5</b>	<b>-7.9</b>	<b>7.9</b>	<b>5.3</b>	<b>55.3</b>

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**Total Antlerless Elk**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
7B	Antlerless Elk	5.0	3.6	240.0	174.0	-1.9	-93.1	0.6	27.0	-0.1	0.1	-1.4	-66.0
<b>Total</b>	<b>Antlerless Elk</b>	<b>5.0</b>	<b>3.6</b>	<b>240.0</b>	<b>174.0</b>	<b>-1.9</b>	<b>-93.1</b>	<b>0.6</b>	<b>27.0</b>	<b>-0.1</b>	<b>0.1</b>	<b>-1.4</b>	<b>-66.0</b>

**Total Bighorn Sheep**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
3	Ram	24.0	19.8	50.0	46.2	0.0	0.0	-2.2	-5.8	-2.0	2.0	-4.2	-3.8
4	Ram	77.0	69.6	109.9	104.4	0.0	0.0	-5.5	-7.4	-1.9	1.9	-7.4	-5.5
8	Ram	36.5	37.9	83.1	88.5	0.0	0.0	2.0	4.9	-0.6	0.6	1.5	5.4
<b>Total</b>	<b>Ram</b>	<b>137.5</b>	<b>127.3</b>	<b>243</b>	<b>239.1</b>	<b>0</b>	<b>0</b>	<b>-5.7</b>	<b>-8.3</b>	<b>-4.5</b>	<b>4.5</b>	<b>-10.1</b>	<b>-3.9</b>

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**Total Thinhorn Sheep**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
6	Ram	25.5	25.2	51.8	37.7	-0.4	-0.6	-2.5	-11.0	2.5	-2.5	-0.4	-14.1
<b>Total</b>	<b>Ram</b>	<b>25.5</b>	<b>25.2</b>	<b>51.8</b>	<b>37.7</b>	<b>-0.4</b>	<b>-0.6</b>	<b>-2.5</b>	<b>-11.0</b>	<b>2.5</b>	<b>-2.5</b>	<b>-0.4</b>	<b>-14.1</b>

**Total Bull Caribou**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
5	Bull Caribou	57.0	18.6	154.0	55.7	6.7	18.3	-43.7	-118.1	-1.5	1.5	-38.4	-98.3
6	Bull Caribou	7.0	6.7	20.0	20.2	0.0	0.0	0.0	0.0	-0.2	0.2	-0.2	0.2
<b>Total</b>	<b>Bull Caribou</b>	<b>64</b>	<b>25.3</b>	<b>174.0</b>	<b>75.9</b>	<b>6.7</b>	<b>18.3</b>	<b>-43.7</b>	<b>-118.1</b>	<b>-1.7</b>	<b>1.7</b>	<b>-38.6</b>	<b>-98.1</b>

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**Total Bison**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
7B	Bison	195	144	605	656	-4.9	-15.1	4.9	15.1	-51	51	-51	51
<b>Total</b>	<b>Bison</b>	<b>195</b>	<b>144</b>	<b>605</b>	<b>656</b>	<b>-4.9</b>	<b>-15.1</b>	<b>4.9</b>	<b>15.1</b>	<b>-51</b>	<b>51</b>	<b>-51</b>	<b>51</b>

**Total Grizzly**

Region	Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
1	Grizzly	50.0	49.9	83.0	83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	Grizzly	6.0	8.4	18	12.6	0	0	-0.8	-2.2	3.2	-3.2	2.4	-5.4
4	Grizzly	52.0	50.0	110.3	106.2	0.0	0.0	-1.6	-4.6	-0.4	0.4	-2.0	-4.1
5	Grizzly	13.6	20.8	37.8	31.2	0	0	0.2	0.4	7.0	-7.0	7.2	-6.6
6	Grizzly	406.6	467.0	692.1	700.5	2.6	5.5	29.7	31	28.1	-28.1	60.4	8.4
7A	Grizzly	230.1	248.2	398.0	381.5	0.0	0.0	0.5	1.0	17.5	-17.5	18.0	-16.5
7B	Grizzly	164.6	195.4	299.8	293.1	0.0	0.0	8.7	15.4	22.0	-22.0	30.7	-6.6
8	Grizzly	1	1.8	2.6	2.7	0	0	0.3	0.7	0.6	-0.6	0.8	0.1
<b>Total</b>	<b>Grizzly</b>	<b>923.9</b>	<b>1,041.5</b>	<b>1,641.6</b>	<b>1,610.8</b>	<b>2.6</b>	<b>5.5</b>	<b>37</b>	<b>41.7</b>	<b>78</b>	<b>-78</b>	<b>117.5</b>	<b>-30.7</b>

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**Impacts Total for Province All Species**

Hunt	Allocation Non-Resident 12-16	Allocation Non-Resident 17-21	Allocation Resident 12-16	Allocation Resident 17-21	First Nations Impact Non-Resident (12-16 v 17-21)	First Nations Impact Resident (12-16 v 17-21)	AAH Impact Non-Resident (12-16 v 17-21)	AAH Impact Resident (12-16 v 17-21)	Policy Impact Non-Resident (12-16 v 17-21)	Policy Impact Resident (12-16 v 17-21)	Allocation Change Non-Resident (12-16 v 17-21)	Allocation Change Resident (12-16 v 17-21)
Bull Moose	5429.7	4827.6	18237.4	15500.0	-129.9	-384.5	-637.4	-2187.2	165.4	-165.4	-602.0	-2737.2
Mountain Goat	610.6	593.1	1272.4	1101.7	-9.1	-20.5	-49	-109.5	40.8	-40.8	-17.2	-170.6
Roosevelt Elk	121.5	137.1	699.8	721.3	-8.8	-50.4	14.5	81.7	9.8	-9.8	15.6	21.5
Either Sex Elk	133.6	138.9	468.3	523.6	-13.8	-49.2	27.2	96.5	-7.9	7.9	5.3	55.3
Antlerless Elk	5.0	3.6	240	174	-1.9	-93.1	0.6	27	-0.1	0.1	-1.4	-66.0
Bighorn Sheep	137.5	127.3	243	239.1	0	0	-5.7	-8.3	-4.5	4.5	-10.1	-3.9
Thinhorn Sheep	25.5	25.2	51.8	37.7	-0.4	-0.6	-2.5	-11	2.5	-2.5	-0.4	-14.1
Bull caribou	64.0	25.3	174	75.9	6.7	18.3	-43.7	-118.1	-1.7	1.7	-38.6	-98.1
Bison	195.0	144.0	605.0	656.0	-4.9	-15.1	4.9	15.1	-51.0	51.0	-51.0	51.0
Grizzly	923.9	1,041.5	1,641.6	1,610.8	2.6	5.5	37.0	41.7	78.0	-78.0	117.5	-30.7
<b>Total</b>	<b>7,646.3</b>	<b>7,063.6</b>	<b>23,633.3</b>	<b>20,640.1</b>	<b>-159.5</b>	<b>-589.6</b>	<b>-654.1</b>	<b>-2,172.1</b>	<b>231.3</b>	<b>-231.3</b>	<b>-582.3</b>	<b>-2,992.8</b>

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