Units With Recent Public Hunting Season				Licenses (Includes BSAP, RFW, and STL)					
Population Estimate				2020 2021 2022 2023			Harvest	Harvest Rate (% of Population)	
UNIT DAU UNIT NAME	Estimate 2020 2021 2022	2020	Basis ◆ 2021 2022	Archery Rifle Ram Ewe Ram Ewe	Archery Rifle Ram Ewe Ram Ewe	Archery Rifle Archery Rifle e Ram E/S Ewe	2020         2021         2022 Predicted         2023 Predicted           we         Ram         Ewe         Ram         Ewe         Ram         Ewe	2020         2021         2022 Predicted         2023 Predicted           Ram         Ewe         Ram         Ewe         Ram         Ewe         UNI	
\$01		CGC, GAO,PR		0 0 4 2	0 0 4	1 0 0 0 4 0 1 0 0 5 0 0 0 0 0 0 0 See S01	1 0 0 2 0 4 1 4 1 2 0 2 0 0 0 0 See S01	0 0 2.5 2.5 5.7 1.4 4.00 1.00 S01	
\$18		CGC, GAO, PR CGC, GAO, PR	CGC CGC	0 0 0 0	0 0 0 0	0 0 0 0 0 0 0 See S01 1 0 0 2	2 0 2 0 0 0 See S01 1 0 0 1 0 2 1 2 1	10 0 6.7 6.7 0 0 See S01 S18 0 0 6.7 6.7 16.7 0 3.51 1.75 S44	
S58 01 Lower Poudre River		5 CGC, GAO, PR	CGC CGC	0 0 0 0	0 0 0 0	0 0 0 0 0 0 See S40	1 0 1 1 0 0 See S40	2.2 0 2.2 2.2 0 0 See S40 S58	
S19 02 Never Summer Range		<b>0</b> GAO, PR	CGC, GAO, PR CGC, GAO	0 0 1 0	0 0 1 (	0 0 0 0 0 1 0 0 0 1	0 0 0 1 0 1 0 1 0	0 0 2 2 2 0 2.00 0.00 S19	
\$37		0 CGC, GAO 5 CGC, GAO	CGC, GAO CGC, GAO	1 0 1 0	2 2 0	0 1 0 0 1 0 0 1 0 1	0 2 0 2 0 2 0 2 0 0 1 0 1 2 3 2 2 2	3.3 0 3.3 3.3 3.3 0 3.30 0.00 S3 1.7 0 1.2 1.2 3.5 1.2 2.40 2.40 S5	
\$57         02         Big Thompson Canyon           \$32         03         Georgetown		CGC, GAO, PM	CGC, GAO, Model CGC	8 5 8 6	8 5 8	6 10 0 6 9 0 7 10 6 9	7 8 5 6 3 8 4 8 4	2.3 1.4 1.7 1.7 2.7 0 2.70 1.30 \$33	
S03 04 Mount Evans	115 180 18		CGC CGC	0 0 5 6	0 0 5	6 0 0 0 7 0 6 0 0 7	8 5 3 3 4 5 5 4 4	4.3 2.6 1.7 1.7 2.7 0 2.10 2.10 S03	
<b>S04 04</b> Grant	25 55 4		CGC CGC	0 0 2 1	0 0 2	1 0 0 0 2 0 1 0 0 2	1 1 1 2 1 2 0 2 1	4 4 3.6 3.6 4.5 2.3 4.50 2.30 S04	
S41         04         Peru Creek           S12         05         Buffalo Peaks	60 55 8 200 200 20		CGC CGC AC, GAO, PR AC, GAO, PR	0 0 1 3 8 0 6 2	0 0 1 3	3 0 0 0 1 0 3 0 0 1 2 8 0 0 6 0 2 8 0 6	4 1 3 1 2 1 3 0 2 2 7 1 3 3 7 1 5 1	1.7 5 1.8 1.8 1.3 0 0.00 2.50 S41 3.5 0.5 1.5 1.5 3.5 0.5 2.50 0.50 S12	
S39 05 Mount Silverheels	90 30 2		AC, GAO, PR AC, GAO, PR	2 0 4 3	2 0 4	3 1 0 0 0 0 0 1 0 0	0 4 1 2 2 1 0 1	4.4 1.1 6.7 6.7 4 0 4.00 0.00 \$35	
S78 05 Ten Mile		0 AC, GAO, PR	AC, GAO, PR AC	0 0 0 0	0 0 0 0	0 0 0 0 0 0 See S12	0 0 0 0 0 See S12	0 0 0 0 See S12 S76	
S23 06 Kenosha		CGC, GAO	CGC, GAO GAO	0 0 2 0	0 0 2 0	0 0 0 0 2 0 0 0 0 2	0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 1.25 0.00 \$23	
\$27         06         Tarryall           \$42         07         Waterton Canyon	60 100 6 75 65 7	,	CGC, GAO GAO	0 0 0 0	0 0 0 0	0 0 0 0 0 0 0 See S23 2 0 0 0 2 0 2 0 0 2	2 0 2 0 2 0 See S23 2 2 1 2 2 2 2 2 2 2	3.3 0 2 2 3.3 0 See S23 S2 2.7 1.3 3.1 3.1 2.7 0 2.70 2.70 S4	
S05 08 Beaver Creek		5 CGC, GAO 5 AC, GAO, PR	NI, PR NI, PR	0 0 2 2	0 0 2 2	0 0 0 0 2 0 0 0 2	2 2 1 2 2 2 2 2 0 0 0 0 0 0 1 0 1 0	0 0 0 0 4 0 50	
S06 08 Pike's Peak	145 130 14		CGC CGC	1 0 2 2	1 0 2	2 1 0 0 2 0 2 1 0 2	2 2 2 3 1 3 2 3 2	1.4 1.4 2.3 2.3 2.1 0 2.00 1.33 SO	
S46 08 Dome Rock	20 20 1		CGC CGC	0 0 0 0	0 0 0 0	0 0 0 0 0 0 0 See S06	0 0 0 0 0 See S06	0 0 0 0 0 See S06 S4	
\$07         09         Arkansas River           \$47         09         Brown's Canyon		0 AC, GAO, PR 0 AC, GAO, PR	GAO, AC, PR GAO, PR GAO, AC, PR GAO, PR	0 0 2 0	0 0 2 0	0 0 0 0 2 0 0 0 2	0 1 0 2 0 1 0 2 0 0 2 0 2 0 2 0 2 0 2	1.3 0 2.5 2.5 1.3 0 2.50 0.00 S0 2.5 0 2.5 2.5 2.5 0 2.50 0.00 S4	
\$47         09         Brown's Canyon           \$49         09         Grape Creek/Copper Rg		5 AC, GAO, PR	GAO, AC, PR GAO, PR GAO, AC, PR GAO	3 0 2 0	3 0 2	0 3 0 0 2 0 0 3 0 2	0 0 0 4 0 3 0 2 0	0 0 2.3 2.3 1.7 0 1.10 0.00 \$4	
S79 09 Pueblo West	25 25 2		GAO, AC, PR GAO	0 0 0 0	0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 579	
S08 10 Huerfano		0 AC, GOA, PR	AC, GOA, PR AC,GAO,PR	0 0 2 0	0 0 2 0	0 0 0 0 3 0 0 0 0 3	0 2 0 2 0 2 0 3 0	2.5 0 2.5 2.5 1.7 0 2.50 0.00 SO	
S09 10 Sangre de Cristo		O AC, GAO	AC, GOA, PR AC,GAO,PR	10 0 10 5	9 0 9	5 9 0 0 9 0 5 9 0 9	5 10 1 6 1 12 2 10 2	3.7 0.4 1.8 1.8 4.4 0.7 3.70 0.70 S09 0 0 0 0 0 2.5 2.5 0 0 0 0.00 0.00 S66	
S68 10 Northern Sangre de Cristo S10 11 Trickle Mtn.		0 AC, GAO, PR 0 AC, GOA, PR	AC, PR AC, GAO, PR AC, GOA, PR GAO, PR	0 0 1 0	0 0 1 0	0 0 0 0 1 0 0 0 1	0 0 0 1 0 0 0 0	0 0 2.5 2.5 0 0 0.00 0.00 S68 0 0 2.9 2.9 1.7 0 S10	
S20 11 Marshall Pass		0 AC, GAO, PR	AC, GOA, PR AC, GAO, PR	2 0 2 0	2 0 2	0 2 0 0 2 0 0 2 0 2	0 2 0 0 0 2 0 1 0	3.3 0 0 0 3.3 0 1.70 0.00 \$20	
S11 12 Collegiate North		5 AC, GAO, PR	GAO, PR AC, PR	0 0 6 2	0 0 6 2	2 0 0 0 6 0 2 0 0 6	2 3 1 5 0 3 1 4 1	2.4 0.8 4 4 2.4 0.8 3.20 0.80 S1	
S17 12 Collegiate South		5 AC, GAO, PR	GAO, PR AC, PR	0 0 6 2	0 0 6 2	2 0 0 0 6 0 2 0 0 6	2 4 1 3 1 3 1 3 1	3.2 0.8 2.4 2.4 2.4 0.8 2.40 0.80 S1	
S66         12         Mt. Elbert           S13         13         Snowmass East		5 AC, GAO, PR 0 GAO, BSO	GAO, PR AC, PR GAO, PR GAO, BSO, AC	2 0 6 2 0 0 3 0	0 0 3	2 2 0 0 6 0 2 2 0 6 0 0 0 0 0 0 0 0 0 0	2         4         2         5         1         4         2         5         2           0         3         0         2         0         2         0         2         0         2         0	3.2 1.6 4 4 3.2 1.6 4.00 1.60 S60 3 0 2 2 2 0 2.00 0.00 S1:	
S25 13 Snowmass West	35 40 4		GAO, PR GAO	0 0 1 0	0 0 1	0 0 0 0 1 0 0 0 0 1	0 0 0 1 0 1 0 1	0 0 2.5 2.5 2.5 0 2.50 0.00 \$2.50	
S34 14 Rampart Range		5 CGC, GAO	CGC, GAO, BSO GAO, BSO	5 2 0 0	5 2 0 0	0 5 0 2 0 0 0 5 2 0	0 6 0 4 2 5 2 5 1	4.4 0 2.7 2.7 3.2 0.6 3.20 0.60 S34	
S35 15 Greenhorns	30 50 3		AC, GAO, PR GAO	2 0 1 0	2 0 1 (	0 1 0 0 1 0 0 1 0 1	0 0 0 1 0 1 0 1 0	0 0 2 2 3.3 6.7 3.30 0.00 S3	
\$50	150 125 12 40 45 4		AC, GAO, PR GAO GAO, AC GAO	0 0 2 0	1 0 0 2	0 0 0 0 2 0 0 0 0 2	0 2 0 0 0 2 0 1 0 0 1 0 1 0 1 0 1 0 1	1.3 0 0 0 1.6 0 0.80 0.00 S50 2.5 0 2.2 2.2 2.2 0 2.20 0.00 S30	
S48 17 Carrizo Canyon	55 70 7	,	AC CGC	0 0 3 0	0 0 2	0 0 0 0 2 0 0 0 0 2	0 2 0 2 0 2 0 2 0	3.6 0 2.9 2.9 2.7 0 2.70 0.00 \$48	
S61 17 Purgatorie Canyon		<b>5</b> AC	AC AC	0 0 11 1	0 0 11	1 0 0 0 11 0 1 0 0 11	1 11 1 10 1 11 1 11 1	2.1 0.2 2.1 2.1 2.3 0 2.30 0.20 S6 <sup>-</sup>	
S51 18 Spanish Peaks (Culebra)		0 AC, GAO	GAO, PR GAO, PR	1 0 7 4	1 0 7	4 1 0 0 7 0 4 1 0 7	7 3 2 6 1 5 3 6 6	0.8 0.5 1.5 1.5 1.3 0.8 1.50 1.50 S51	
\$65	See S51 See S51 See S51		See S51 See S51 AC, PR, GAO GAO, PR	0 0 2 0	0 0 2 0	0 0 0 0 2 0 0 0 0 2	0 3 1 3 1 2 0 2 0 0 2 0 2 0 1 0	0 0 0 0 0 S68 3.3 0 3.3 3.3 1.7 0 S68	
S15 20 Sheep Mountain		0 GAO, PR	NI AC, PR	0 0 5 6	0 0 5	6 0 0 0 5 0 6 0 0 5	6 4 0 3 1 4 2 4 1	2.2 0 1.7 1.7 2.2 0 2.20 0.60 \$1	
S16 20 Cimarrona Peak		5 GAO, PR, CGC	NI AC, PR	0 0 4 4	0 0 4	4 0 0 0 4 0 4 0 0 4	4 4 3 1 4 3 2 3 3	3 2.2 0.7 0.7 2.2 1.5 2.20 2.20 S10	
S28 20 Vallecito		O GOA, PR, AC	NI AC, CGC, PR	0 0 2 0	0 0 2 0	0 0 0 0 2 0 0 0 0 2	0 1 0 0 0 1 0 0 0	1.3 0 0 0 1.3 0 0.00 0.00 S2	
S21   21   Cow Creek\Wetterhorn		O GAO, CGC, PR O GAO, PR	CGC,AC, GAO, PF CGC, GAO  AC, GAO, PR AC, GAO, PR	0 0 6 8	0 0 6 8	8 0 0 0 <mark>8 0 8 0 0 8                   </mark>	8 5 5 4 3 5 4 4 4 8 7 3 10 2 10 4 9 2	2.4 2.4 1.9 1.9 2.4 1.4 1.90 1.90 S2 5 2.1 5.6 5.6 5.6 0.6 5.00 1.10 S3	
S22 22 San Luis Peak		5 GAO, PR	GAO, PR GAO, PR	0 0 4 0	0 0 6	0 0 0 0 8 0 0 0 0 8	0 3 0 4 0 6 0 6 0	2.3 0 2.8 2.8 4.1 0 4.10 0.00 \$2.2	
S36 22 Bellows Creek		O GOA, PR	GAO, PR GAO, PR	0 0 2 0	0 0 2 0	0 0 0 0 2 0 0 0 2	2 2 0 2 0 2 0 2 2	1.8 0 1.8 1.8 1.8 0 1.80 1.80 S3	
S53 22 Bristol Head	80 80 13		GAO, PR GAO, PR	0 0 1 1	0 0 1	1 0 0 0 1 0 1 0 0 2	2 1 1 0 1 1 1 2 2	1.3 1.3 0 0 0.8 1.5 1.50 1.50 S5	
\$26         23         Taylor River           \$70         23         Fossil Ridge	65 65 6 30 30 3	5 AC, GAO, PR 0 GAO, PR	GAO, AC PR, GAO  GAO PR, GAO	2 0 0 0	2 0 0 0	0 2 0 0 0 0 0 2 0 0	0 1 0 1 0 0 0 1 0	1.5 0 1.5 1.5 0 0 1.50 0.00 S2 0 0 3.3 3.3 0 0 3.30 0.00 S7	
S29 24 Alamosa Canyon		O GOA, PR	GAO, PR GAO, PR, AC	0 0 1 1	0 0 1	1 0 0 0 1 0 1 0 0 1	1 0 0 0 1 0 1 1 1	0 0 0 0 0 0 0.83 0.83 \$2	
S30 24 Conejos River	50 100 10		AC,GAO, PR GAO, PR, AC	0 0 0 0	0 0 0 0	0 0 0 0 0 0 0 See S29	0 0 1 0 1 0 See S29	0 0 1 1 1 0 See S29 S3	
S31 24 Blanco River	105 105 10		NI NI	0 0 4 0	0 0 4 0	0 0 0 0 4 0 0 0 0 4	0 2 0 3 0 3 0 3 0	1.9 0 2.9 2.9 2.9 0 2.90 0.00 S3	
\$54         25         Dillon Mesa (West Elk)           \$55         26         Natural Arch Carnero Cr	90 175 17	5 AC, GAO, PR 0 AC, GOA, PR	AC, GAO GAO, PR, AC AC, GOA, PR GAO, PR	1 0 1 0	0 0 0	0 1 0 0 4 0 0 4 0 4	0 1 0 1 0 5 0 4 0	1.1 0 0.6 0.6 2.9 0 2.30 0.00 S5 0 0 0 0 0 0 0 S5	
S69 27 Cochetopa		GAO, PR	PR, GAO MR, AC, PR	4 0 3 2	6 0 6 12	2 6 0 0 6 0 12 4 0 2	6 5 0 11 11 0 0 7 5	3.2 0 6.1 6.1 0 0 5.40 3.80 S6	
S71 28 West Needles	55 55 5	5 PR	NI AC, PR	1 0 2 0	1 0 2 0	0 1 0 0 2 0 0 1 0 2	0 1 0 1 0 2 0 1 0	1.8 0 1.8 1.8 3.6 0 1.80 0.00 S7	
S02 32 Gore-Eagle's Nest		5 CGC, GAO	GAO, CGC GAO, AC	0 0 3 0	0 0 3 0	0 0 0 0 3 0 0 0 0 3	0 2 0 1 0 1 0 1 0	3.1 0 1.3 1.3 1.2 0 1.20 0.00 S0	
\$77         32         Gore Canyon           \$59         33         Derby Creek		2 GAO, GC 5 GAO, PR	GAO, PR GAO GAO, PR GAO, PR	0 0 1 0	0 0 1 0	0 0 0 0 1 0 0 0 1	0 1 0 1 0 1 0 1 0	1.3 0 1.4 1.4 1.4 0 1.40 0.00 S7 2.2 0 2.2 2.2 2.9 0 2.90 0.00 S5	
S67 33 Flattops (S. Fork White R)		0 GAO, PR	PR, AC AC, GAO	0 0 1 0	0 0 1	0 0 0 0 1 0 0 0 0 1	0 1 0 1 0 1 0 1	5 0 5 5 5 0 5.00 0.00 S6	
S74 33 Glenwood Canyon	<b>45</b> 45 4	<b>5</b> GAO, PR	GAO, PR CGC, GAO, PR	0 0 2 0	0 0 2 0	0 0 0 0 2 0 0 0 2	0 0 0 2 0 2 0 2 0	0 0 4.4 4.4 4.4 0 4.40 0.00 \$7	
S24 34 Battlement Mesa		0 GOA	GAO, PR AC, GAO	0 0 2 0	0 0 2 0	0 0 0 0 2 0 0 0 0 3	0 2 0 1 0 2 0 3 0	3.1 0 1.5 1.5 2.2 0 3.30 0.00 S2	
\$44 35 Basalt \$73 37 Mt Zirkel		GAO, BSO GCC, GAO	BSO, GAO CGC, GAO CGC, GAO, PR CGC, AC, GAO, PR	5 0 2 0	5 0 2 0	0 5 0 0 2 0 0 5 0 2 3 0 0 0 3 0 3 0 0 3	0 0 0 3 0 3 0 2 0 4 2 1 3 3 2 3 2 3	0 0 4.3 4.3 5 0 3.30 0.00 S4 1.7 0.8 2.5 2.5 1.3 0.7 1.30 2.00 S7	
S75 38 Main Canyon		O GOA	CGC, GAO, FR CGC, AC, GAO, FR	0 0 1 0	0 0 1	0 0 0 0 2 0 0 0 2	0 1 0 1 0 2 0 1	1.7 0 1.7 1.7 2.9 0 1.40 0.00 \$7	
S72 39 Greenland		5 CGC, GAO	CGC NI	0 0 1 1	0 0 0 0	0 0 0 0 1 0 0 0 0	0 1 1 0 0 1 0	4 4 0 0 4 0 57	
Sub-total or Averag				61 9 175 74			88 147 40 154 55 169 50 165 57	2.3 0.6 2.2 0.8 2.5 0.7 2.4 0.8	
Grand Total	al 7475 7475 748	5		319	332	347 351		i	

## COLORADO ROCKY MOUNTAIN BIGHORN SHEEP 2022 POST HUNT POPULATION ESTIMATES - DRAFT - 12/13/2022

Units	Withou	t Public Hunting Seasons	Population Estimate						
			Estimate			Basis ◆			
UNIT	DAU	UNIT NAME	2020	2021	2022	2020	2021	2022	
S83	02	RMNP - East Side, Fall Ri./Mummy Range	75	75	75	NI	NI	NI	
S83	02	RMNP - Continental Divide	100	100	100	NI	NI	NI	
S83	02	RMNP - Never Summer Range	200	200	200	NI	NI	NI	
S43	06	Hayman	25	25	20	NA	CGC, GAO	GAO	
S76	12	Holy Cross	5	5	5	PR	PR	GAO, PR	
S86	16	Cucharas canyon	30	35	30	GAO, CGC	GAO	GAO	
S52	22	Rock Creek	5	5	5	GAO	GAO, PR	GAO, PR	
S80	29	Black Canyon	25	30	80	GAO, PR	GAO, PR	AC, GAO	
S81	30	Lower Lake Fork, Gunnision Ri.	5	5	5	GAO	AC	AC, PR, GAO	
S84	31	Mesa Verde	5	5	5	NI	NI	NI	
S14	33	Clinetop Mesa	10	10	10	GAO, PR	GAO, PR	NI	
S45	36	Cross Mountain	0	0	0	GAO	GAO		
S82	36	Cold Springs	0	0	0	GAO	GAO		
S85	36	DNM - Harper's Corner-Jone's Hole	40	40	40	GAO	GAO		
S85	36	DNM - Green River-Ladore Can.	40	40	40	GAO	GAO		
S85	36	DNM - Yampa River	40	40	40	GAO	GAO		
		Sub-total or Average	605	615	655				
		Grand Total	6920	7475	7485				

♦ Basis for population estimate (listed in order by weight)

MR = Mark/Resight

CGC = Coordinated Ground Count

AC = Aerial Count

BSO = Bait Site Observations

GAO = General Agency Observation (by CPW, USFS, BLM, USGS, or NPS)

PR = Public Reports (by hunters, outfitters, landowners, RMBS, etc.)

PM = Population Model

NI = No Information Available.

O = Other

## Notes:

- S01 licenses are also valid in S18.
- 2 Animals in this unit are moving back and forth across the NPS boundary in the Never Summer Range and may not be accessible to hunters.
- 3 S26 was split into S26 and S70 in 2005.
- 4 2005 population estimate is for both resident and migratory sheep from S06 that winter in S46.
- 5 Accounts for 40 sheep translocated from S65 to Mt Zirkel in 2005
- 6 Rio Grande River and Box Canyon included with S53 in 2006.
- 7 S71 Opened to hunting in 2007.
- 8 S55 closed to hunting beginning in 2006.
- 9 S23 & S27 were combined for licenses in 2008 (i.e., 2 licenses good for both units combined).
- An all age die-off of the S70 herd began in Dec 2007. The 2007 population estimate is for prior to this die off.
- 11 Unit created and opened to hunting in 2009.
- 12 S26 license for 2008 was transferred to S?? and S26 was closed to hunting because of low sheep numbers.
- 13 S46 license also valid in S6 in 2009.
- 14 S47 licenses split
- 15 S19 Ram license changed to either-sex for 2022 hunting season