

**COLORADO ROCKY MOUNTAIN BIGHORN SHEEP**  
**2023 POST HUNT POPULATION ESTIMATES - FINAL - 01/10/2024**

Increasing from Previous Year  
 Decreasing from Previous Year

**Units With Recent Public Hunting Seasons**

			Population Estimate					Licenses (Includes BSAP, RFW, and STL)												Harvest								Harvest Rate (% of Population)																							
UNIT	DAU	UNIT NAME	Estimate			Basis			2022			2023			2024			2021		2022		2023 Predicted		2024 Predicted		2021		2022		2023 Predicted		2024 Predicted		UNIT																	
			2021	2022	2023	2021	2022	2023	Ram	E/S	Ewe	Ram	E/S	Ewe	Ram	E/S	Ewe	Ram	Ewe	Ram	Ewe	Ram	Ewe	Ram	Ewe	Ram	Ewe	Ram	Ewe	Ram	Ewe																				
S01	01	Poudre River	80	70	70	CGC	CGC	GAO, PR, O	0	0	0	4	0	1	0	0	0	5	0	1	0	0	0	5	0	1	2	0	0	1	4	1	3	1	2.5	0	0	1.4	4	1	2.73	0.91	S01								
S18	01	Rawah	30	30	40	CGC	CGC	CGC, GAO, PR	See S01						See S01						See S01					See S01												6.7	0	6.7	0	See S01	See S01	See S01		S18					
S40	01	Lone Pine	15	12	12	CGC	CGC	CGC, GAO, O	0	0	0	2	0	1	0	0	0	2	0	1	0	0	0	2	0	1	1	0	0	0	2	1	2	1	6.7	0	0	0	3.5	1.8	4.26	2.13	S40								
S58	01	Lower Poudre River	45	45	35	CGC	CGC	CGC, GAO, O	See S40						See S40						See S40					See S40														2.2	2.2	4.4	2.2	See S40	See S40	See S40		S58			
S19	02	Never Summer Range	50	50	30	CGC, GAO, PR	CGC, GAO	CGC, GAO, PR	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	0	1	0	1	0	2	0	2	0	2	0	3.30	0.00	S19								
S37	02	St. Vrain	60	60	50	CGC, GAO	CGC, GAO	CGC, GAO, PR	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0	0	2	0	1	0	2	0	2	0	3.3	0	1.7	0	3.3	0	4.00	0.00	S37								
S57	02	Big Thompson Canyon	85	85	85	CGC, GAO	CGC, GAO	CGC, GAO, PR	3	0	2	0	0	0	3	0	2	0	0	0	3	0	2	0	0	0	1	2	2	1	2	2	3	1	1.2	2.4	2.4	1.2	2.4	2.4	3.50	1.20	S57								
S32	03	Georgetown	350	300	250	CGC, GAO, Model	CGC	CGC, GAO, PR, Mod	10	0	6	9	0	7	10	0	6	9	0	7	10	0	4	9	0	4	6	3	9	4	8	4	8	3	1.7	0.9	3	1.3	2.7	1.3	3.20	1.20	S32								
S03	04	Mount Evans	180	187	190	CGC	CGC	CGC	0	0	0	7	0	6	0	0	0	7	0	8	0	0	0	7	0	8	3	4	6	5	4	4	5	4	1.7	2.2	3.2	2.7	2.1	2.1	2.60	2.10	S03								
S04	04	Grant	55	44	30	CGC	CGC	CGC	0	0	0	2	0	1	0	0	0	2	0	1	0	0	0	2	0	1	2	1	2	1	2	1	3.6	1.8	4.5	2.3	4.5	2.3	6.70	3.30	S04										
S41	04	Peru Creek	55	80	60	CGC	CGC	CGC	0	0	0	1	0	3	0	0	0	1	0	4	0	0	0	1	0	4	1	2	0	3	0	2	1	1.8	3.6	0	3.8	0	2.5	1.70	6.70	S41									
S12	05	Buffalo Peaks	200	200	200	AC, GAO, PR	AC, GAO, PR	GAO, PR	8	0	0	6	0	2	8	0	0	6	0	2	8	0	0	6	0	2	3	3	8	2	5	1	6	2	1.5	1.5	4	1	2.5	0.5	3.00	1.00	S12								
S39	05	Mount Silverheels	30	25	12	AC, GAO, PR	AC, GAO, PR	GAO, PR	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	1	0	0	6.7	6.7	0	0	4	0	0.00	0.00	S39								
S78	05	Ten Mile	10	0	0	AC, GAO, PR	AC	GAO, PR	See S12						See S12						See S12					See S12															0	0	0	0	See S12	See S12	See S12		S78		
S23	06	Kenosha	25	20	50	CGC, GAO	GAO	CGC	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	1	0	2	0	0	0	0	0	1.3	0	1.33	0.00	S23								
S27	06	Tarryall	100	60	100	CGC, GAO	GAO	CGC	See S23						See S23						See S23					See S23																2	0	5	0	See S23	See S23	See S23		S27	
S42	07	Waterton Canyon	65	75	60	CGC	NI	CGC	0	0	0	2	0	2	0	0	0	2	0	2	0	0	0	2	0	2	2	2	2	2	2	2	2	3.1	3.1	2.7	2.7	2.7	2.7	3.30	3.30	S42									
S05	08	Beaver Creek	20	25	25	NI, PR	NI, PR	NI, PR	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0	1	0	1	0	0	0	0	0	4	0	0	4.00	0	S05									
S06	08	Pike's Peak	130	140	115	CGC	CGC	CGC	1	0	0	2	0	2	1	0	0	2	0	2	1	0	0	2	0	2	3	1	3	1	3	2	3	2	2.3	0.8	2.1	0.7	2	1.3	2.40	1.60	S06								
S46	08	Dome Rock	20	10	10	CGC	CGC	CGC	See S06						See S06						See S06					See S06																	0	0	0	0	See S06	See S06	See S06		S46
S07	09	Arkansas River	80	80	80	GAO, AC, PR	GAO, PR	GAO, PR	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	2	0	0	2	0	2	0	2	0	2	0	2.5	0	2.5	0	2.5	0	2.50	0.00	S07								
S47	09	Brown's Canyon	80	80	80	GAO, AC, PR	GAO, PR	GAO, PR	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3	0	0	2	0	2	0	2	0	3	0	2.5	0	2.5	0	2.5	0	3.80	0.00	S47								
S49	09	Grape Creek/Copper Rg	175	175	175	GAO, AC, PR	GAO	GAO	3	0	0	2	0	0	3	0	0	2	0	0	3	0	0	2	0	0	4	0	5	0	2	0	3	0	2.3	0	2.9	0	1.1	0	1.70	0.00	S49								
S79	09	Pueblo West	25	25	25	GAO, AC, PR	GAO	GAO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.00	0.00	S79										
S08	10	Huerfano	80	120	120	AC, GOA, PR	AC, GAO, PR	GAO, PR	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	2	0	3	0	3	0	3	0	2.5	0	2.5	0	2.5	0	2.50	0.00	S08								
S09	10	Sangre de Cristo	325	270	280	AC, GOA, PR	AC, GAO, PR	GAO, PR	9	0	0	9	0	5	9	0	0	9	0	5	9	0	0	9	0	5	6	1	6	1	10	2	7	1	1.8	0.3	2.2	0.4	3.7	0.7	2.50	0.40	S09								
S68	10	Northern Sangre de Cristo	40	40	40	AC, PR	AC, GAO, PR	AC, GAO, PR	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	S68									
S10	11	Trickle Mtn.	35	60	60	AC, GOA, PR	GAO, PR	GAO, PR	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	1	0	1	0	1	0	2.9	0	1.7	0	0	0	1.70	0.00	S10								
S20	11	Marshall Pass	60	60	60	AC, GOA, PR	AC, GAO, PR	AC, GAO, PR	2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	2	0	0	0	0	0	3	0	1	0	1	0	0	0	5	0	1.7	0	1.70	0.00	S20							
S11	12	Collegiate North	125	125	125	GAO, PR	AC, PR	PR, GAO	0	0	0	6	0	2	0	0	0	6	0	2	0	0	0	6	0	2	5	0	4	0	4	1	4	0	4	0	3.2	0	3.2	0.8	3.20	0.00	S11								
S17	12	Collegiate South	125	125	125	GAO, PR	AC, PR	PR, GAO	0	0	0	6	0	2	0	0	0	6	0	2	0	0	0	6	0	2	3	1	4	2	3	1	4	1	2.4	0.8	3.2	1.6	2.4	0.8	3.20	0.80	S17								
S66	12	Mt. Elbert	125	125	125	GAO, PR	AC, PR	PR, GAO	2	0	0	6	0	2	2	0	0	6	0	2	2	0	0	6	0	2	5	1	4	2	5	2	4	2	4	0.8	3.2	1.6	4	1.6	3.20	1.60	S66								
S13	13	Snowmass East	100	100	100	GAO, PR	GAO, BSO, AC	GAO, PR	0	0	0	3	0	0	0	0	0	3	0	0	0	0	0	3	0	0	2	0	3	0	2	0	3	0	2	0	3	0	0	3.00	0.00	S13									
S25	13	Snowmass West	40	40	40	GAO, PR	GAO	GAO, PR	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	0	2.5	0	0	0	2.5	0	2.50	0.0									

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**Units Without Public Hunting Seasons**

			Population Estimate					
UNIT	DAU	UNIT NAME	Estimate			Basis ♦		
			2021	2022	2023	2021	2022	2023
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	20	20	CGC, GAO	GAO	GAO
S76	12	Holy Cross	5	5	8	PR	GAO, PR	GAO, PR
S86	16	Cucharas canyon	35	30	40	GAO	GAO	GAO, PR
S52	22	Rock Creek	5	5	2	GAO, PR	GAO, PR	AC, GAO, PR
S80	29	Black Canyon	30	80	80	GAO, PR	AC, GAO	AC, GAO
S81	30	Lower Lake Fork, Gunnision Ri.	5	5	5	AC	AC, PR, GAO	AC, PR, GAO
S84	31	Mesa Verde	5	5	0	NI	NI	GAO
S14	33	Clinetop Mesa	10	10	10	GAO, PR	NI	NI
S45	36	Cross Mountain	0	0	0	GAO		NI
S82	36	Cold Springs	0	0	0	GAO		NI
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
<b>Sub-total or Average</b>			<b>615</b>	<b>655</b>	<b>660</b>			
<b>Grand Total</b>			<b>7475</b>	<b>7485</b>	<b>6982</b>			

♦ 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.
  - 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.
  - S26 was split into S26 and S70 in 2005.
  - 2005 population estimate is for both resident and migratory sheep from S06 that winter in S46.
  - Accounts for 40 sheep translocated from S65 to Mt Zirkel in 2005
  - Rio Grande River and Box Canyon included with S53 in 2006.
  - S71 Opened to hunting in 2007.
  - S55 closed to hunting beginning in 2006.
  - 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.
  - Unit created and opened to hunting in 2009.
  - S26 license for 2008 was transferred to S?? and S26 was closed to hunting because of low sheep numbers.
  - S46 license also valid in S6 in 2009.
  - S47 licenses split
  - S19 Ram license changed to either-sex for 2022 hunting season