

Table 36. Comparison of mountain goat (*Oreamnos americanus*) capture and shooting techniques, 1981–1989, Olympic National Park.^a

Method	Recapture requirements	Population requirements	Selectivity	Multiple capture	Safety of personnel	Safety of goats	Relative efficiency ^b	Cost per animal ^c
Passive techniques								
Rope snare	Minimal	All densities	Good	No	Good	Good	Poor	Moderate
Other traps/snares	Minimal	High density	Poor	No	Good	Fair	Poor	Moderate
Drop net	Extensive	High density	Good	Yes	Good	Good	Fair	Moderate–high
Active techniques								
Net gun								
Ground	Minimal	All densities	Excellent	No	Fair	Poor	Poor	Moderate–high
Aerial	Minimal	All densities	Excellent	Yes	Poor	Poor	Good	Very high
Chemical immobilization								
Ground	Minimal	All densities	Excellent	No	Good	Fair	Poor	Moderate–high
Aerial	Minimal	All densities	Excellent	No	Fair	Fair	Good	Very high
Drive net	Extensive	Medium-high density	Poor	Yes	Fair	Poor	Poor	Very high
Combined tactics								
Aerial chemical immobilization w/net gun	Minimal	All densities	Excellent	No	Fair	Fair	Poor	Very high
Other								
Manual (heli-jumping following pursuit)	Minimal	All densities	Excellent	No	Poor	Poor	Poor	Very high
Lethal tactics								
Shooting ^d								
Ground	Minimal	All densities	Excellent	N/A	Good	N/A	Fair–good	Very low
Aerial	Minimal	All densities	Excellent	N/A	Good	N/A	Very good	Very low

^aCapture techniques described in detail in Appendix C. Modified by R. W. Olson in 1993 from National Park Service 1987.

^bNumber of expected captures per unit effort.

^cIncludes transportation from capture site to a front country staging area, but excludes other expenses of goat management programs such as ground transportation to release sites, vegetation monitoring, etc. Low cost = <\$100; moderate = \$101–500; high = \$501–\$1,000; very high = ≥\$1,000.

^dData based on biological collections on Klahhane Ridge, Mount Dana, Mount Appleton, Mount Carrie; simulated aerial shooting trials on Mount Dana; euthanasia during capture attempts; and review of other ungulate removal programs.