

Appendix 2. Parameters used for estimating the economic impact of elk-induced pasture loss.

Table A2.1. Fixed parameters for pasture loss calculations. Animal unit equivalents (AUEs) are defined as fractions of what a 1,000 pound beef cow (with calf) consumes (NRCS 2006).

| Parameter | Animal Unit Equivalent (AUE) | Derivation and sources |
|-----------------------|------------------------------|--|
| AUE for Roosevelt elk | 0.8 | Average female Roosevelt elk weight = 600 pounds (RMEF 2019) Average male Roosevelt elk weight = 900 pounds (RMEF 2019) Assumed sex ratio = 0.5 (Weaver and Weckerly 2011) Average Roosevelt elk on the landscape = $600 + 900 / 2 = 750$ pounds 750 pounds = 0.8 AUEs (NRCS 2006) |
| AUE for Tule elk | 0.6 | Average female Tule elk weight = 400 pounds (CDFW 2018) Average male Tule elk weight = 700 pounds (CDFW 2018) Assumed sex ratio = 0.5 Average Tule elk on the landscape = $400 + 700 / 2 = 550$ pounds 550 pounds = 0.6 AUEs (NRCS 2006) |
| Pasture rental rate | \$25 AUM ⁻¹ | (CDFA 2016) |