***Table 1.*** *Parameters, values, and references used to derive each value used in the model simulations.*

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| --- | --- | --- |
| **Parameter** | **Value** | **Reference(s)** |
| Daily wolf food consumption | ~6.2 kilograms of meat / wolf / day | Ballard et al., 2022;  Carbyn, 1983;  Hayes et al., 2000;  Jedrzejewski et al., 2001;  Mech, 1977;  Sand et al., 2005;  Thurber and Peterson, 1993) |
| Daily wolf movement | ~1 kilometer / day | Byrne et al., 2018;  Ciucci et al., 1997;  Droghini and Boutin, 2018; Eggermann et al., 2009;  Ehlers et al., 2014;  Jedrzejewski et al., 2001;  Kirilyuk et al., 2021;  Kolenosky and Johnston, 1967;  Kusak et al., 2005;  Mech et al., 1995) |
| Wolf pack size | Six wolves, one pack | Becker et al., 2016;  Coltrane et al., 2015;  Idaho Department of Fish and Game, 2020, 2015;  Jiminez and Johnson, 2016;  Oregon Department of Fish and Wildlife, 2022, 2016;  Washington Department of Fish and Wildlife et al., 2021;  Wyoming Game and Fish Department et al., 2022) |
| Wild prey density | 480 ungulates  (0.768/km2) | Idaho Department of Fish and Game, 2019, 2014; Mule Deer Working Group, Wyoming Game and Fish Department, 2018, 2018; Oregon Department of Fish and Wildlife, 2021, 2008, 2003a, 2003b; Washington Department of Fish and Wildlife, 2020a, 2020b, 2016, 2014, 2006, 2002) |
| Livestock herd size | 45 individuals per herd  (0.648/km2) | NASS, 2017) |

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