**Electronic Supplementary Materials**

S2. Details of sample of wolves harvested in Idaho USA, 2009-2014. Month animal was harvested is listed in parentheses. BF = breeding female, BM = breeding male, NBF = nonbreeding female, NBM = nonbreeding male. Not all harvested wolves had viable DNA samples or complete information taken during mandatory hunter check-in. This table does not represent the total harvest for the study areas in this paper.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Year | Group | BF | BM | NBF | NBM | Pup female | Pup male | Unknown  status |
| 2009-2010 | Casner Creek | 0 | 0 | 1 (Nov) | 0 | 1 (Sept) | 0 | 0 |
| 2009-2010 | Hoodoo | 0 | 1 (Sept) | 0 | 0 | 0 | 0 | 0 |
| 2009-2010 | Jureano Mtn | 0 | 0 | 0 | 0 | 0 | 0 | 1 (Male, Dec) |
| 2009-2010 | Moyer Basin | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009-2010 | Wapiti | 0 | 0 | 0 | 2 (NA, Oct) | 0 | 2 (Oct, Nov) | 0 |
| 2011-2012 | Bear Valley | 0 | 0 | 0 | 0 | 0 | 1 (Sept) | 1 (Female, Sept) |
| 2011-2012 | Hoodoo | 1 (Jan) | 0 | 0 | 1 (Sept) | 3 (2 Dec, 1 Jan) | 1 (Jan) | 0 |
| 2011-2012 | Jureano Mtn | 1 (Jan) | 0 | 0 | 1 (Oct) | 0 | 0 | 0 |
| 2011-2012 | Little Anderson | 0 | 0 | 1 (NA) | 2 (Aug, Sept) | 1 (Feb) | 0 | 0 |
| 2011-2012 | Moyer Basin | 0 | 0 | 1 (Dec) | 1 (Nov) | 1 (July) | 0 | 0 |
| 2011-2012 | Scott Mtn | 0 | 0 | 0 | 0 | 1 (Feb) | 0 | 0 |
| 2011-2012 | Timberline | 0 | 0 | 0 | 0 | 0 | 1 (Feb) | 0 |
| 2011-2012 | Wapiti | 1 (Feb) | 0 | 4 (Sept, Oct, Nov, Feb) | 1 (Mar) | 0 | 2 (Nov, Mar) | 1 (Male, Oct) |
| 2012-2013 | Bear Valley | 0 | 1 (NA) | 1 (Sept) | 0 | 0 | 0 | 0 |
| 2012-2013 | Casner Creek | 0 | 1 (NA) | 0 | 0 | 3 (Nov, Jan, Mar) | 2 (Jan, Feb) | 0 |
| 2012-2013 | Hoodoo | 0 | 0 | 0 | 1 (Oct) | 0 | 0 | 0 |
| 2012-2013 | Jureano Mtn | 0 | 0 | 0 | 1 (Mar) | 1 (Oct) | 0 | 2 (2 Female Jan) |
| 2012-2013 | Little Anderson | 1 (Mar) | 0 | 0 | 0 | 0 | 1 (Oct) | 0 |
| 2012-2013 | Moyer Basin | 0 | 0 | 2 (Jan, Feb) | 1 (Feb) | 0 | 1 (Feb) | 0 |
| 2012-2013 | Scott Mtn | 0 | 0 | 0 | 0 | 1 (Feb) | 0 | 0 |
| 2012-2013 | Timberline | 0 | 0 | 0 | 1 (Jan) | 2 (Dec) | 2 (Nov, Dec) | 0 |
| 2012-2013 | Wapiti | 0 | 0 | 0 | 0 | 0 | 0 | 2 (1 Female Jan, 1 Male Mar) |
| 2013-2014 | Jureano Mtn | 0 | 0 | 0 | 0 | 1 (Jan) | 2 (Sept, Jan) | 0 |
| 2013-2014 | Scott Mtn | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013-2014 | Timberline | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013-2014 | Wapiti | 0 | 0 | 0 | 0 | 0 | 0 | 0 |