**ReadMe: Caw Ridge\_Population analysis\_HCC data**

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**Description of data:** Thisdata set was collected on individually marked mountain goats at Caw Ridge, Alberta, Canada between 1994-2016. The data set includes individual data on hair cortisol concentration, age, sex, and age-specific mass as well as annual data on reproduction, predation risk, population size, and faecal crude protein peak date as a measure of resource availability. This data was used to produce Figure 3, Figure 4 and Figure S5.1.

**Variables**

|  |  |
| --- | --- |
| **Column Heading** | **Definition** |
| id | Goat id |
| year | Year |
| HCC | Hair cortisol concentration |
| age | Goat age |
| age\_class | Goat age in 2 classes: juvenile = 1 year-old; adult ≥ 2 years-old |
| sex | Goat sex |
| mass\_residuals | Age-specific mass |
| proportion\_repro\_female | Annual proportion of adult females that successfully reproduced |
| potential\_repro\_female | Annual number of adult females that survived overwinter |
| predation\_index | Annual number of predator sightings per 100 days of fieldwork |
| population\_size | Total goat population in June |
| fcp\_peak\_date | Date when the peak in faecal crude protein (FCP) occurred based on samples collected from 5 to 12 individuals every two weeks from mid-May to mid-September |