

# ERRATA, PAGE 112, MACE AND WALLER

An error in calculating the reproductive rate for 6 female grizzly bears was discovered upon publication of this manuscript. The actual reproductive rate for female cubs was 0.261 not 0.389. This change in reproductive rate served to change the mean estimate of lambda from 1.009 down to 0.977. The correct text and table for the section "vital rates and population trend" should read as follows:

Our estimated finite rate of increase ( $\lambda$ ) was 0.977 (95% CI = 0.875 - 1.046) given the fixed and estimated demographic variables (Table 6). The uncertainty in  $\lambda$ , as indicated by the proportion of the variance explained, was primarily due to variation in subadult female survival (56.07%) followed by adult female survival (37.25%). Cub and yearling survival explained a small proportion of the variance (Table 6).

The probability that the population was declining was 69%, stable to increasing 31%, and increasing 27%. The annual exponential rate of increase ( $r$ ) was -0.02 (-0.13 - 0.045), indicating it would take  $\approx 30$  years to observe a population halving, given long-term stability of vital rates.

Table 6. Estimated annual survival rates by class, reproductive rate, and population trend of grizzly bears in the Swan Mountains, Montana. 1987-1996.

| Parameter                              | Sample size        | Survival and Rate of Change Estimates |              |              | SE of estimate | Variance proportion (%) |
|----------------------------------------|--------------------|---------------------------------------|--------------|--------------|----------------|-------------------------|
|                                        |                    | Estimate <sup>a</sup>                 | Lower 95% CI | Upper 95% CI |                |                         |
| Adult female survival ( $S_a$ )        | 16/56 <sup>b</sup> | 0.899                                 | 0.785        | 0.966        | 0.046          | 37.25                   |
| Subadult female survival ( $S_s$ )     | 15/21 <sup>b</sup> | 0.825                                 | 0.629        | 0.962        | 0.089          | 56.07                   |
| Yearling survival ( $S_y$ )            | 25/30 <sup>b</sup> | 0.906                                 | 0.906        | 1.000        | 0.049          | 1.53                    |
| Cub survival ( $S_c$ )                 | 28                 | 0.785                                 | 0.643        | 0.928        | 0.076          | 2.87                    |
| Age first parturition ( $a$ )          | fixed              | 6.0                                   |              |              | 0.026          | 2.88                    |
| Reproductive rate ( $m$ ) <sup>c</sup> | 6                  | 0.261                                 | 0.214        | 0.316        |                |                         |
| Maximum age ( $w$ )                    | fixed              | 25.0                                  |              |              | 0.043          |                         |
| Lambda ( $\lambda$ )                   | 5000               | 0.977                                 | 0.875        | 1.046        |                |                         |

- <sup>a</sup> Survival rate estimates may differ from those in Table 4 as described in Methods.
- <sup>b</sup> The proportion of variance in lambda explained by each parameter.
- <sup>c</sup> Number bears/bear-years.
- <sup>d</sup> Reproductive rate is for female cubs only. Assumed sex ratio at birth of 50:50.

## Fax Transmittal Memo

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