



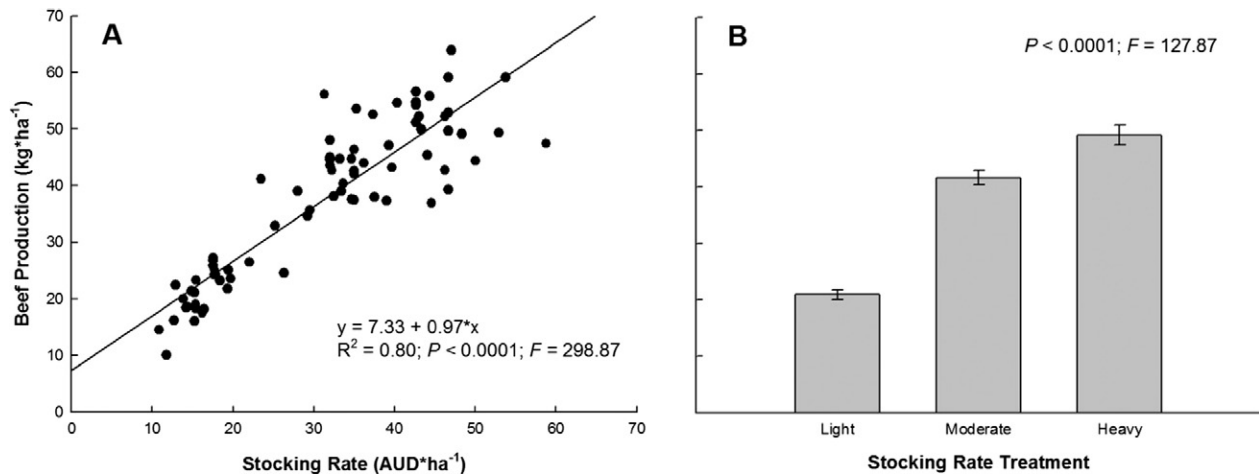
## Corrigendum

## Corrigendum to Reeves, J.L., Derner, J.D., Sanderson, M.A., Petersen, M.K., Vermeire, L.T., Hendrickson, J.R., Kronberg, S.L. 2013. Temperature and precipitation affect steer weight gains differentially by stocking rate in northern mixed-grass prairie. Rangeland Ecology and Management 66, 438–444



An error was discovered in the calculation of beef production ( $\text{kg}\cdot\text{ha}^{-1}$ ) values as originally analyzed in the manuscript. This error led primarily to underestimated beef production for the light stocking rate treatment across years, with infrequent and relatively minor underestimations for the moderate and heavy stocking rate treatments. Revising the beef production data led to the removal of 1994 from the dataset, as October weight gain data were discovered, but were found to be taken off-site. Thus, the August weight data did not adequately represent a valid season-ending date for grazing. Please disregard 1994 in the original Table 1, and note that the

exclusion of that year leads to the following means ( $\pm$ SD) for Table 1:  $117 \pm 13.0$  grazing days;  $16.0 \pm 2.5$   $\text{AUD}\cdot\text{ha}^{-1}$  for light;  $33.0 \pm 5.1$  for moderate;  $44.0 \pm 6.9$  for heavy stocking rate treatments. Below are revised versions of Figure 1 and Table 2 using the corrected dataset. The only substantive changes are that mean beef production for the light stocking rate treatment increased (Figure 1B), and the  $R^2$  for the corresponding light stocking prediction equation decreased (Table 2). Correcting the dataset did not affect any primary qualitative results, discussion, or implications as originally published. The authors regret the error.



**Figure 1.** Continuous and categorical effects of stocking rate on beef production in northern mixed-grass prairie. A, Linear regression results of beef production using  $\text{AUD}\cdot\text{ha}^{-1}$  as a continuous variable. B,  $P$ - and  $F$ - values resulting from analysis of variance (ANOVA). Error bars represent mean  $\pm$  1 S.E. Tukey's honestly significant difference test showed significant differences ( $P < 0.05$ ) between all treatments.

**Table 2**

Model averaged estimates for total beef production ( $\text{kg}\cdot\text{ha}^{-1}$ ). Sample sizes ( $n$ ) reported in stocking rate column headings represent the number of models averaged (out of 255 possible) using a cutoff AICc weight of 0.95. Note that reported coefficients are not standardized, as results are to be used for predictive purposes and comparison to other data sets.

| Variable   | Stocking rate       |       |                        |       |                     |       |
|--|---------------------|-------|------------------------|-------|---------------------|-------|
|  | Heavy ( $n = 133$ ) |       | Moderate ( $n = 143$ ) |       | Light ( $n = 110$ ) |       |
|  | Estimate            | SE    | Estimate               | SE    | Estimate            | SE    |
| Intercept  | 50.772              | —     | 40.766                 | —     | 24.877              | —     |
| April-June precipitation   | 0.019               | 0.015 | 0.022                  | 0.014 | 0.004               | 0.007 |
| April-June mean temperature                                      | -2.586              | 1.002 | -0.290                 | 0.510 | -0.140              | 0.333 |
| (April - June precipitation)*(April-June mean temperature)       | 0.009               | 0.008 | 0.004                  | 0.006 | 0.000               | 0.003 |
| July-September precipitation                                     | 0.007               | 0.012 | 0.011                  | 0.012 | -0.001              | 0.006 |
| July-September mean temperature                                  | 1.453               | 0.781 | 0.086                  | 0.370 | 0.028               | 0.246 |
| (July-September precipitation)*(July-September mean temperature) | 0.009               | 0.011 | 0.002                  | 0.007 | 0.000               | 0.005 |
| Prior April-September precipitation                              | -0.015              | 0.010 | -0.009                 | 0.008 | -0.012              | 0.007 |
| Prior October-March precipitation                                | -0.005              | 0.014 | -0.006                 | 0.014 | -0.001              | 0.008 |
| Coefficient of Determination ( $R^2$ )                           | 0.57                | —     | 0.34                   | —     | 0.20                | —     |