Introduction and Objective

objective: to assess beef cattle productivity of different grazing systems scenario

Materials and Methods

EXT: Extensive continuous grazing system
INT: Intensive: Dryland rotational grazing system
CL: Rotational grazing system with crop rotation in each paddock
SP: Rotational grazing with eucalyptus trees (15 x 2 m spacing).
CLF: The same as CL with eucalyptus trees (15 x 2 m spacing).

ONE year trial (december 2014 to december 2015);
30 Canchim steers (284.8± 6.0 kg of live weight - LW;15 months old);
FIVE grazing systems with two area replications (blocks);

Results

Table 1. Beef cattle productivity in different grazing system (least square means ± standard error of the mean)

<table>
<thead>
<tr>
<th>Item*</th>
<th>Systems†</th>
<th>SEM</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EXT</td>
<td>INT</td>
<td>CL</td>
</tr>
<tr>
<td>Stocking rate (AU ha⁻¹)</td>
<td>1.2b</td>
<td>2.3a</td>
<td>1.5b</td>
</tr>
<tr>
<td>Live BW (kg ha⁻¹ year⁻¹)</td>
<td>245b</td>
<td>516a</td>
<td>439ab</td>
</tr>
<tr>
<td>Carcass (kg ha⁻¹ year⁻¹)</td>
<td>130b</td>
<td>281a</td>
<td>237ab</td>
</tr>
<tr>
<td>CEP (kg ha⁻¹ year⁻¹)</td>
<td>93b</td>
<td>199a</td>
<td>170ab</td>
</tr>
</tbody>
</table>

*Means within a row with unlike letters differ at P≤0.05; SEM: standard error of the mean.
†BW: body weight; CEP: carcass edible portion.
†EXT = extensive; INT = intensive; CL = integrated crop-livestock system; CLF = integrated crop-livestock-forestry system; SP = integrated silvopastoral system.

FORESTRY inclusion in integrated systems as SP and CLF provided intermediate productivity in kg ha⁻¹ year⁻¹ as conventional system (INT and EXT).

Acknowledgements