

## Erratum to: *Neospora caninum* causes severe economic losses in cattle in the humid pampa region of Argentina

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Published online: 30 December 2014  
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### Erratum to: Trop Anim Health Prod DOI 10.1007/s11250-013-0353-z

In the published version of this article, there were errors in the Abstract section as well as in Table 2 and Table 3. The Abstract and tables are corrected in this erratum.

**Abstract** This work estimates the economic losses due to *Neospora* abortions in the humid pampa region of Argentina. The total dairy and beef cattle population at risk of abortion is 1,771,326 and 9,726,684 head, respectively. In dairy cattle, there was an 8 % risk of experiencing abortion due to a variety of causes, but 16.5 % of them were due to *Neospora caninum*. The economic losses were

estimated at US\$1,415 (1,400–1,431) per abortion, which equates to a total loss of US\$33,097,221 (15,622,600–119,349,693) for the dairy industry at the humid pampa region of Argentina. In beef cattle, the overall risk of abortion was estimated to be 4.5 % for all pregnancies, whereas 6.7 % are specifically due to *N. caninum*, with an economic loss of US\$440 (range, 150–730) per abortion. This amounts to an annual loss to the beef industry of US\$12,903,440 (range, 1,130,700–42,070,630) in the same area. The results of this study show that *Neospora* infections and thus abortions cause severe economic impacts in the dairy and beef industries in the humid pampa region of Argentina, which is one of the most important areas of cattle production in the world.

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The online version of the original article can be found at <http://dx.doi.org/10.1007/s11250-013-0353-z>.

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**Table 2** Estimated direct and indirect costs of *N. caninum* abortions in beef and dairy cows in the humid pampa

	Dairy (US\$)		Beef (US\$) <sup>a</sup>	
	Option “A”	Option “B”	Option “A”	Option “B”
Fetal loss	250	250	150	150
Professional assistance	Not done	50	Not done	50
Laboratory diagnosis		140		140
Pregnant heifer replacement	Not replaced	1,441	Not replaced	950
Loss of milk yield associated with/due to abortion	1,150 <sup>b</sup>	Milk yield from the heifer	–	–
Proceeds from selling cow in good body condition	Not sold	450	Not sold	560
Total US\$	1,400	1,431	150	730
Mean		1,415		440

<sup>a</sup> There were no data related to the costs associated with the time lost in the production of beef calves due to delays in replacing culled affected animals with new pregnant heifers

<sup>b</sup> Mean of losses associated with the loss of milk yield due to abortion in heifer or cow (17.1 L×US\$0.22×305 days—milk yield)

**Table 3** Estimated economic losses due to *N. caninum*-related abortions in dairy and beef cattle in the humid pampa of Argentina

Cattle	Cattle at risk ( <i>n</i> )	Median total abortion risk (%) (range)	Median abortion risk by <i>N. Caninum</i> (%) (range)	Median number of abortions due to <i>N. caninum</i> ( <i>n</i> ) (range)	Mean cost per abortion (US\$) (range)	Estimated economic losses (US\$) (range)
Dairy	1,771,326	8 (5.0–12.9)	16.5 (12.6–36.5)	23,382 (11,159–83,403)	1,415 (1,400–1,431)	33,097,221 (15,622,600–119,349,693)
Beef	9,726,684	4.5 (2.5–7.5)	6.7 (3.1–7.9)	29,326 (7,538–57,631)	440 (150–730)	12,903,440 (1,130,700–42,070,630)