

Seasonality of German Shepherd bitches breed in Brazil

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- Data from Brazilian Confederation of German Shepherd Breeders (SBCPA).

- 6,212 births from 01/01/2009 to 12/31/2018 in Brazilian German Shepherd facilities.

- Differences among months (*Chi-square*; $P < 0.0001$) showed seasonality of births, but no difference was observed between North and South extremes of Brazil (*Chi-square*; $P = 0.11$).

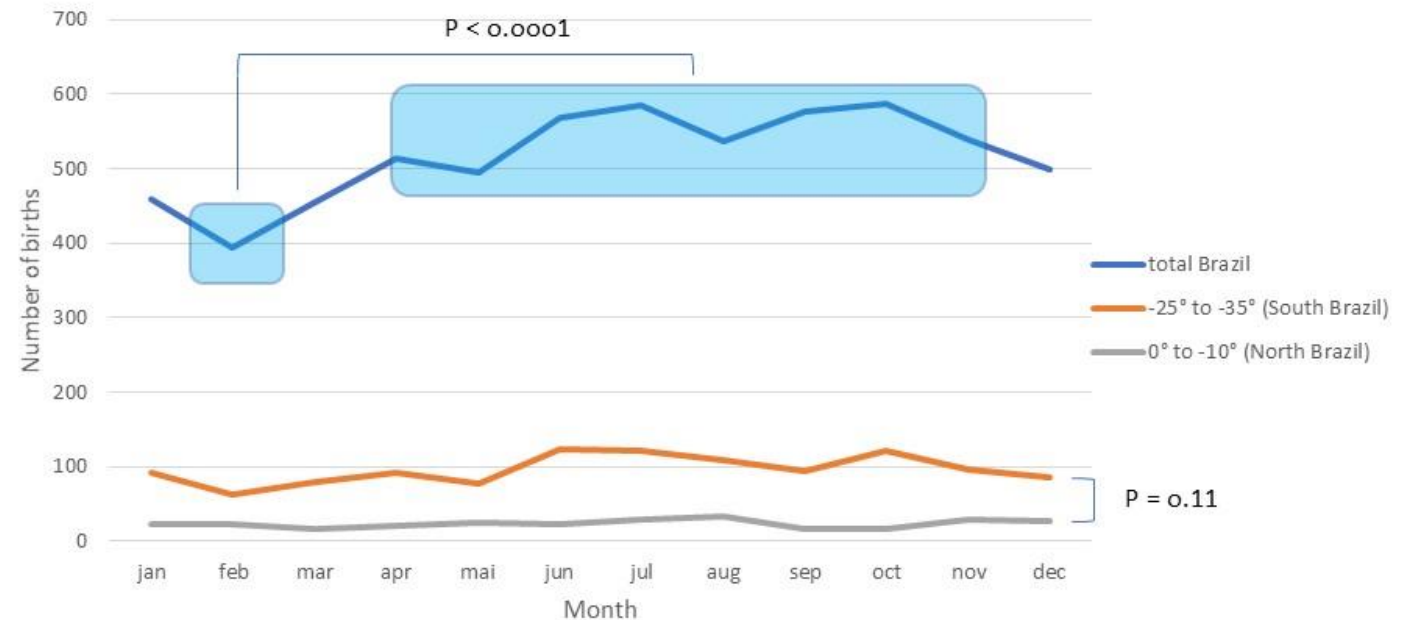
- In conclusion, at least for German Shepherd bitches, there is a seasonal birth distribution during the year in Brazil, which seems not influenced by photoperiod. Lower conception rate happens around late spring (60 days of gestation).

- This seasonality may reflect:

1. a seasonal manifestation of heats;
2. a seasonal fertility of bitches and/or sires;
3. or both.



Birth distribution of German Shepherd dogs in Brazil (6,212; from 2009 to 2018)



Special thanks to SBCPA/Brazil

