Notes on the vocalizations of Tricolored Brush-finch (*Atlapetes tricolor*)

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In the following we briefly analyze and compare voice of the two races of Tricolored Brush-finch (*Atlapetes tricolor*). We also try to quantify the extent of any vocal differences using the criteria proposed by Tobias *et al.* (2010), as a support for taxonomic review. We have made use of sound recordings available on-line from Xeno Canto (XC).

Race *crassus*: Song is quite variable: phrase typically starts with a few melodious whistles, often doubled, and ends with a series of fast repeated notes.

Race *tricolor*: Song is quite variable: phrases typically consist of a few melodious notes, occasionally followed by several notes repeated.

Main differences between song of both races apparently are the duration of the song phrase and the number of notes/phrase (resp. longer and higher in *crassus*).

These parameters were already measured in Sánchez-González *et al.* (2015).

Based on these data, we can calculate effect size:

	<i>crassus</i>	<i>tricolor</i>	<i>Effect Size</i>	<i>Score</i>
phrase duration (s)	2.4 ± 0.5	1.4 ± 0.4	2.2	2
# notes/phrase	12 ± 4.5	7.3 ± 4.3	1.07	1

When applying Tobias criteria, this leads to a total vocal score of 3.

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References

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