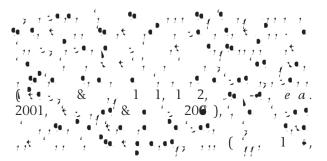
Short- and long-term costs of reproduction in a migratory songbird

6 33, ۰ و • 1) ,•..., 2,•. 'f.' 11 ٠., (, 1 t . . ,0. ÷ 1 ...). 11

Hypotheses and predictions: breeding period

. ÷ . 'a 206 ŧ 2 200 • **€** ∎∎ 200 ¹,2010 0 0 200 6 , ... 14. . 200 200 6 3.4 , 2010 1. 131. // 5 111 • - , **e** († 2). • ' • 11 1 1 =1 1

Hypotheses and predictions: pre-migratory period



© 2012 The Authors Ibis © 2012 British Ornithologists' Union

2001, а 2002 200). . e а. e а. (1)(2), (• 2). • ۰. •,

Hypotheses and predictions: apparent annual survival

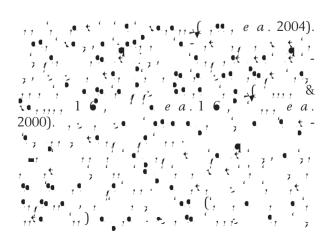
Pre-migratory period

'**,•**, ,† . ÷ ••• , . . . t 16 (, ۰. ۹ ʻ, 1.4 (, 0. , •e ŧ . . . 21), 0., 2.), (1 • , . 1 • . , 14.3 '<u>;</u> 0)[●] ', (• ,t fc t¶• **€**∎" (į ... 711 4 " 90.0 7 5 9.0 ," (24, 30 4 ∠4, '[,] , ' ,•. '•. , . 71 € ¶∎. 20, 40). 📢 •. • , , ,• f , 20.4 (1.4) , • • •1 .*, 1.4) "•., ·•,. (, - **.** . . •. • • • • • • 1

т т т т т -

- -

 - -



; ? { ; ; •.•. ٩, ; 2, ; & 1 (1 59 200). 9. ,t & 2004) а 9 1 t , 20**0**, 200). 2003, éa. (' 71 , t • • • • • · · · 4**0** D •• 7 , . . 1 11 200 · ? ? ? ? ,• • • • • ,**0**.% , ,t é. ί.,

Ficed a h e ca (1),

- to the second second
- , ____, w. 2010. Exact (restricted) likelihood ratio tests for mixed and additive models, version 2.0-5. Available at: http://cran.r-project.org/package=RLRsim.
- New York: Cambridge University Press.
- about time: the temporal dynamics of phenotypic selection in the wild. **12**: 1261–1276.
- in the wild. **1**2: 1261–1276. **1**2: 1261–1276. **1**3: **1**3: **1**2: 1261–1276. **1**3:
- 1789–1796.
 1789–1796.
 1789–1796.
 1789–1796.
 1789–1796.
 1789–1796.
 1789–1796.
 2001. The isotope dilution method for the evaluation of body composition. In Speakman, J.R. (ed.)
- tion. In Speakman, J.R. (ed.)
- A. A. B. S. B. S.

- 1998. Pattern and chronology of prebasic molt for the Wood Thrush and its relation to reproduction and migration departure. 110: 384–392.