|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Nest traits | | | | | | | | | | | | | | | | | | | |
| Status | Species | Nest width 1 Average | Nest width 1 SD | Nest width 2 Average | Nest width Min | Nest width Max | Nest height Average | Nest height SD | Nest height Min | Nest height  Max | Nest depth Average | Nest depth SD | Nest depth Min | Nest depth Max | Inside diameter of the nest 1 Average | Inside diameter of the nest 1 SD | Inside diameter of the nest 2 Average | Inside diameter of the nest Min | Inside diameter of the nest Max | Reference | Unit |
| Migratory | *Catharus bicknelli (Average)* | 11.86666667 | 1.8 |  | 7.65 | 15.05 | 8.35 | 1.9 | 4.35 | 11.8 | 4.5 | 0.9 | 2.9 | 6.45 | 6.566666667 | 1.3 |  | 5.55 | 10.35 |  | cm |
| Migratory | *Catharus bicknelli* | 11.5 |  | 12.8 | 10.3 | 14.1 | 8.6 |  | 7.1 | 9.6 | 4.6 |  | 3.8 | 6.4 | 6.3 |  | 6.3 | 5.8 | 8.7 | Wallace 1939 | cm |
| Migratory | *Catharus bicknelli* | 11.3 | 1.8 |  | 5 | 16 | 8.1 | 1.9 | 1.6 | 14 | 4.4 | 0.9 | 2 | 6.5 | 7.1 | 1.3 |  | 5.3 | 12 | Rimmer, Christopher C., Kent P. McFarland,  Walter G. Ellison, and James E. Goetz 2015 (In Birds of North America, Rodewald 2015) | cm |
| Migratory | *Catharus fuscescens (Average)* |  |  |  | 8 | 15 |  |  | 8.8 | 14.3 |  |  | 3.3 | 6 |  |  |  | 6 | 7.5 |  | cm |
| Migratory | *Catharus fuscescens* |  |  |  | 8 | 15 |  |  | 8.8 | 14.3 |  |  | 3.3 | 6 |  |  |  | 6 | 7.5 | Peck and James 1987 (In Birds of North America, Rodewald 2015) | cm |
| Migratory | *Catharus fuscescens* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus (Average)* |  |  |  | 10 | 15 |  |  | 5 | 8 |  |  | 3.5 | 5.5 |  |  |  | 6 | 7 |  | cm |
| Migratory | *Catharus guttatus auduboni* |  |  |  | 10 | 15 |  |  | 5 | 8 |  |  | 3.5 | 5.5 |  |  |  | 6 | 7 | Peck and James 1987, Todd 1940 (In Birds of North America, Rodewald 2015) | cm |
| Migratory | *Catharus guttatus sequoiensis* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus faxoni* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus guttatus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus nanus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus slevini* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus polionotus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus minimus* |  |  |  | 11 | 13 |  |  | 7 | 10 |  |  | 5 | 5 |  |  |  | 6 | 7 | Brandt 1943 (In Birds of North America, Rodewald 2015) | cm |
| Migratory | *Catharus ustulatus* | 10.6 | 1.32 |  | 9.4 | 15.4 | 8.2 | 1.7 | 3.8 | 10.5 | 3.8 | 0.98 | 2.5 | 6 | 6 | 0.85 |  | 5 | 8.5 | K. McFarland et al. unpubl. (In Birds of North America, Rodewald 2015) | cm |
| Resident | *Catharus dryas* |  |  |  | 8.44 | 14.62 |  |  | 8.1 | 14.53 |  |  | 4.25 | 8.24 |  |  |  | 5.27 | 8.92 |  |  |
| Resident | *Catharus aurantiirostris* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Resident | *Catharus gracilirostris* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Resident | *Catharus fuscater* |  |  |  | 10.6 |  |  |  | 21 |  |  |  | 6 |  |  |  |  | 7.1 |  | Beltrán and Kattan 2001 | cm |
| Resident | *Catharus occidentalis* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Resident | *Catharus frantzii* |  |  |  | 13.97 | 15.24 |  |  | 8.89 | 8.89 |  |  | 4.76 | 5.71 |  |  |  | 5.71 | 7.62 | Skutch 1960 | cm |
| Resident | *Catharus mexicanus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  |  | Egg traits | | | | | | | | | |  | | |  | |
| Status | Species | Egg length Average | Egg length SD | Egg length Min | Egg length Max | Egg breadth Average | Egg breadth SD | Egg breadth Min | Egg breadth Max | Unit | Reference | Mass Average | Mass SD | Mass Min | Mass Max | Reference |
| Migratory | *Catharus bicknelli (Average)* | 22.15 | 0.8 | 20.75 | 23.3 | 16.45 | 1.6 | 14.2 | 17.5 | mm |  |  |  |  |  |  |
| Migratory | *Catharus bicknelli* | 21.9 |  | 21 | 23 | 16.6 |  | 16 | 17.5 | mm | Wallace 1939 | NA | Na | Na |  |  |
| Migratory | *Catharus bicknelli* | 22.4 | 0.8 | 20.5 | 23.6 | 16.3 | 1.6 | 12.4 | 17.5 | mm | Rimmer, Christopher C., Kent P. McFarland, Walter G. Ellison,  and James E. Goetz 2015 (In Birds of North America, Rodewald 2015) | NA | Na | Na |  |  |
| Migratory | *Catharus fuscescens (Average)* | 22.65 |  | 20.58 | 25.27 | 16.8 |  | 15.92 | 18.045 | mm |  | 2.98 |  |  |  |  |
| Migratory | *Catharus fuscescens* | 22.9 |  | 20.56 | 24.84 | 16.9 |  | 16.04 | 18.09 | mm | Western Foundation Vertebrate Zoology [WFVZ] (In Birds of North America, Rodewald 2015) | 2.98 | Na | Na |  | Meyer 1916 (In  Birds of North  America,  Rodewald 2015) |
| Migratory | *Catharus fuscescens* | 22.4 |  | 20.6 | 25.7 | 16.7 |  | 15.8 | 18 | mm | Tyler 1949 (In Birds of North America, Rodewald 2015) | NA | Na | Na |  |  |
| Migratory | *Catharus guttatus (Average)* | 22.59666667 |  | 20.13333333 | 24.66666667 | 16.92333333 |  | 15.75333333 | 18.06 | mm |  | 3.684285714 | 0.44113 | 3.26 | 4.39 |  |
| Migratory | *Catharus guttatus auduboni* | 22.72 |  | 19.65 | 24.29 | 16.95 |  | 15.59 | 18 | mm | Western Foundation Vertebrate Zoology [WFVZ] (In Birds of North America, Rodewald 2015) | 3.684285714 | 0.44113 | 3.26 | 4.39 | Bent 1949 |
| Migratory | *Catharus guttatus sequoiensis* | 22.25 |  | 20.2 | 24.68 | 16.79 |  | 15.41 | 17.9 | mm | Western Foundation Vertebrate Zoology [WFVZ] (In Birds of North America, Rodewald 2015) | Na | Na | Na |  | Na |
| Migratory | *Catharus guttatus faxoni* | 22.82 |  | 20.55 | 25.03 | 17.03 |  | 16.26 | 18.28 | mm | Western Foundation Vertebrate Zoology [WFVZ] (In Birds of North America, Rodewald 2015) | Na | Na | Na |  | Na |
| Migratory | *Catharus guttatus guttatus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus nanus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus slevini* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus guttatus polionotus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Migratory | *Catharus minimus* | 23 |  | 20.6 | 24.9 | 17 |  | 15.8 | 19.8 | mm | Bent 1949 | NA | NA | NA |  | NA |
| Migratory | *Catharus ustulatus* | 23.19 |  | 20.2 | 25.7 | 16.66 |  | 15.27 | 18.07 | mm | Western Foundation Vertebrate Zoology [WFVZ] (In Birds of North America, Rodewald 2015) | NA | NA | NA |  | NA |
| Resident | *Catharus dryas* |  |  | 22.8 | 26.9 |  |  | 15.5 | 19.3 |  |  |  |  |  |  |  |
| Resident | *Catharus aurantiirostris* | 23.7 |  | 21.8 | 26.2 | 17.5 |  | 16.7 | 18.3 |  | Skutch 1960; Skutch 1945 |  |  |  |  |  |
| Resident | *Catharus gracilirostris* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Resident | *Catharus fuscater* | 25.37 |  | 24.7 | 26.8 | 17.6 |  | 16.4 | 18.3 |  | Carriker 1910; Beltrán and Kattan 2001; E.A. Goldman in Wetmore et al. 1984 |  |  |  |  |  |
| Resident | *Catharus occidentalis* | 23.52 |  |  |  | 16.89 |  |  |  |  | Rowley 1984 |  |  |  |  |  |
| Resident | *Catharus frantzii* | 24.3 |  | 23.4 | 25.5 | 18.2 |  | 17.2 | 19.1 |  | Skutch 1945; Skutch 1960; Carriker 1910; Rowley 1984 |  |  |  |  |  |
| Resident | *Catharus mexicanus* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  |  | Clutch size | | | | |
| Status | Species | Clutch size Average | Clutch size SD | Clutch size Min | Clutch size Max | Reference |
| Migratory | *Catharus bicknelli (Average)* | 3.531 | 0.504 | 3.000 | 4.000 |  |
| Migratory | *Catharus bicknelli* | 3.462 | 0.5189 | 3 | 4 | Wallace 1939 |
| Migratory | *Catharus bicknelli* | 3.6 | 0.49 | 3 | 4 | Rimmer, Christopher C., Kent P. McFarland, Walter G. Ellison, and James E. Goetz 2015 (In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus fuscescens (Average)* |  |  | 4 | 5 |  |
| Migratory | *Catharus fuscescens* |  |  | 4 | 5 | Peck and James 1987 (In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus fuscescens* |  |  |  |  |  |
| Migratory | *Catharus guttatus (Average)* | 3.81 |  | 3 | 6 | Handbook of birds of the world, volume 10 (Collar et al. 2005); Boyce and Martin 2017 |
| Migratory | *Catharus guttatus auduboni* |  |  |  |  |  |
| Migratory | *Catharus guttatus sequoiensis* |  |  |  |  |  |
| Migratory | *Catharus guttatus faxoni* |  |  |  |  |  |
| Migratory | *Catharus guttatus guttatus* |  |  |  |  |  |
| Migratory | *Catharus guttatus nanus* |  |  |  |  |  |
| Migratory | *Catharus guttatus slevini* |  |  |  |  |  |
| Migratory | *Catharus guttatus polionotus* |  |  |  |  |  |
| Migratory | *Catharus minimus* | 4 | 0.6 | 3 | 5 | BK |
| Migratory | *Catharus ustulatus* |  |  | 4 | 5 | Campbell et al. 1997, Evans et al. 1998, CNRP, WFVZ (In Birds of North America, Rodewald 2015) |
| Resident | *Catharus dryas* | 2 |  | 2 | 2 |  |
| Resident | *Catharus aurantiirostris* | 1.97 |  | 2 | 3 | Skutch 1960; Skutch 1945; Boyce and Martin 2017 |
| Resident | *Catharus gracilirostris* |  |  | 2 | 2 | Sánchez-M 2019; Collar 2019 |
| Resident | *Catharus fuscater* | 1.96 |  | 1 | 2 | Halley 2014; Beltrán and Kattan 2001; Collar 2019; Boyce and Martin 2017 |
| Resident | *Catharus occidentalis* |  |  | 2 | 3 | Collar 2019; Rowley 1984; Soberanes-González et al. 2012 |
| Resident | *Catharus frantzii* |  |  | 2 | 2 | Skutch 1945; Skutch 1960; Collar 2019 |
| Resident | *Catharus mexicanus* |  |  | 2 | 3 | Collar 2019 |

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| --- | --- | --- | --- | --- | --- | --- |
|  |  | Incubation period | | | | |
| Status | Species | Incubation period Average | Incubation period SD | Incubation period Min | Incubation period Max | Reference |
| Migratory | *Catharus bicknelli (Average)* | 12 | 1.6 | 11 | 14 |  |
| Migratory | *Catharus bicknelli* | 12 | 1.6 | 9 | 14 | Wallace 1939 |
| Migratory | *Catharus bicknelli* | NA | NA | 13 | 14 | Y. Aubry unpubl. (In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus fuscescens (Average)* |  |  | 10 | 14 |  |
| Migratory | *Catharus fuscescens* | NA |  | 10 | 14 | Peck and James 1987 (In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus fuscescens* |  |  |  |  |  |
| Migratory | *Catharus guttatus (Average)* | 12.56 |  | 11 | 13 |  |
| Migratory | *Catharus guttatus auduboni* |  |  | 11 | 13 | Bent 1949, (Peck and James 1987, Martin 1995; In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus guttatus sequoiensis* |  |  |  |  |  |
| Migratory | *Catharus guttatus faxoni* |  |  |  |  |  |
| Migratory | *Catharus guttatus guttatus* |  |  |  |  |  |
| Migratory | *Catharus guttatus nanus* |  |  |  |  |  |
| Migratory | *Catharus guttatus slevini* |  |  |  |  |  |
| Migratory | *Catharus guttatus polionotus* |  |  |  |  |  |
| Migratory | *Catharus minimus* | 12.66666667 | 0.577350269 | 12 | 13 | Jehl and Hussell 1966, Baldwin 1955 (In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus ustulatus* |  |  | 10 | 14 | Campbell et al. 1997, Evans et al. 1998 |
| Resident | *Catharus dryas* |  |  | 13 | 15 |  |
| Resident | *Catharus aurantiirostris* | 14.56 |  | 13 | 15 | Skutch 1960; Skutch 1945; Boyce and Martin 2017 |
| Resident | *Catharus gracilirostris* |  |  |  |  |  |
| Resident | *Catharus fuscater* | 15.6 |  |  |  | Beltrán and Kattan 2001; Boyce and Martin 2017 |
| Resident | *Catharus occidentalis* |  |  |  |  |  |
| Resident | *Catharus frantzii* | 15.25 |  | 15 | 16 | Skutch 1945; Skutch 1960; Collar 2019 |
| Resident | *Catharus mexicanus* |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
|  |  | Nestling period | | | | |
| Status | Species | Nestling period Avegare | Nestling period SD | Nestling period Min | Nestling period Max | Reference |
| Migratory | *Catharus bicknelli (Average)* | 11.4 | 1.3 | 10.5 | 13.5 |  |
| Migratory | *Catharus bicknelli* | 11.4 | 1.3 | 9 | 13 | Wallace 1939 |
| Migratory | *Catharus bicknelli* | NA | NA | 12 | 14 | Y. Aubry unpubl. (In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus fuscescens (Average)* |  |  | 10 | 12 |  |
| Migratory | *Catharus fuscescens* |  |  | 10 | 12 | Tyler 1949 (In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus fuscescens* |  |  |  |  |  |
| Migratory | *Catharus guttatus (Average)* | 12.38 |  | 10 | 15 |  |
| Migratory | *Catharus guttatus auduboni* | 12 |  | 10 | 15 | Knight 1908, Gabrielson and Lincoln 1959, PWJ nest record cards (In Birds of North America, Rodewald 2015) |
| Migratory | *Catharus guttatus sequoiensis* |  |  |  |  |  |
| Migratory | *Catharus guttatus faxoni* |  |  |  |  |  |
| Migratory | *Catharus guttatus guttatus* |  |  |  |  |  |
| Migratory | *Catharus guttatus nanus* |  |  |  |  |  |
| Migratory | *Catharus guttatus slevini* |  |  |  |  |  |
| Migratory | *Catharus guttatus polionotus* |  |  |  |  |  |
| Migratory | *Catharus minimus* |  |  | 11 | 13 |  |
| Migratory | *Catharus ustulatus* |  |  | 10 | 14 | Handbook of birds of the world, volume 10 (Collar et al. 2005) |
| Resident | *Catharus dryas* |  |  | 13 | 15 |  |
| Resident | *Catharus aurantiirostris* | 15.14 |  | 13 | 17 | Skutch 1960; Skutch 1945; Boyce and Martin 2017 |
| Resident | *Catharus gracilirostris* |  |  |  |  |  |
| Resident | *Catharus fuscater* | 15.22 |  |  |  | Beltrán and Kattan 2001; Boyce and Martin 2017 |
| Resident | *Catharus occidentalis* |  |  |  |  |  |
| Resident | *Catharus frantzii* | 15 |  | 14 | 17 | Skutch 1945; Skutch 1960 |
| Resident | *Catharus mexicanus* |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Nest height above ground | | | | |
| Status | Species | Nest height above ground Average |  | Nest height above ground SD | Nest height above ground Min | Nest height above ground Max | Reference |
| Migratory | *Catharus bicknelli (Average)* |  | 205 | 118 | 46 | 100 |  |
| Migratory | *Catharus bicknelli* |  | 205 | 118 | 46 | 100 | Wallace 1939 |
| Migratory | *Catharus bicknelli* |  |  |  |  |  |  |
| Migratory | *Catharus fuscescens (Average)* |  | 33 |  | 0 | 74 |  |
| Migratory | *Catharus fuscescens* |  | 33 |  | 0 | 74 | Heckscher 2004 |
| Migratory | *Catharus fuscescens* |  |  |  |  |  |  |
| Migratory | *Catharus guttatus (Average)* |  |  |  | 25.16666667 | 455 | Boyce and Martin 2017; Jones, Peter W., and Therese M. Donovan 2012 (In Birds of North America, Rodewald  2015) Ficha 261 |
| Migratory | *Catharus guttatus auduboni* |  |  |  | 15 | 300 | Martin and Roper 1988, Bent 1949 |
| Migratory | *Catharus guttatus sequoiensis* |  |  |  | NA | NA |  |
| Migratory | *Catharus guttatus faxoni* |  |  |  | 0 | 300 | We only choose the range of PWJ |
| Migratory | *Catharus guttatus guttatus* |  |  |  | 0 |  | Grinnell 1909, Swarth 1922 |
| Migratory | *Catharus guttatus nanus* |  |  |  | 0 |  | Grinnell 1909, Bent 1949 |
| Migratory | *Catharus guttatus slevini* |  |  |  | 46 | 920 | Bailey 1902, Gabrielson and Lincoln 1959, Sheldon 1908 |
| Migratory | *Catharus guttatus polionotus* |  |  |  | 90 | 300 |  |
| Migratory | *Catharus minimus* |  | 80 | 60 | 0 | 250 | BK; see also Kessel 1989 |
| Migratory | *Catharus ustulatus* |  | 1.8 | 1 | 100 | 300 | Kessel 1998, Campbell et al. 1997, Evans et al. 1998, Eaton 1998. (WFVZ, CNRP, K. McFarland pers. Comm. In Birds of North America, Rodewald 2015) |
| Resident | *Catharus dryas* |  |  |  | 60 | 400 |  |
| Resident | *Catharus aurantiirostris* |  |  |  | 0.1 | 300 | Skutch 1960 |
| Resident | *Catharus gracilirostris* |  |  |  | 100 | 500 | Sánchez-M 2019; Collar 2019 |
| Resident | *Catharus fuscater* |  |  |  | 50 | 300 | Halley 2014; Collar 2019; Beltrán and Kattan 2001 |
| Resident | *Catharus occidentalis* |  |  |  | 0.01 |  | Collar 2019; Soberanes-González et al. 2012 |
| Resident | *Catharus frantzii* |  |  |  | 91 | 396 | Skutch 1960; Carriker 1910; Rowley 1984; Collar 2019; Taylor et al. 2011 |
| Resident | *Catharus mexicanus* |  |  |  | 100 | 300 | Collar 2019 |

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