**Supplementary Material**

Migratory songbirds in the East Asian-Australasian Flyway: a review from a conservation perspective

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Figure S1. Bar chart comparing species richness of six major migratory songbird families with representatives in the Afrotropics (East and West Africa combined) and South-East Asia. (African data are compiled from Morel and Morel 1992, Pearson and Lack 1992).

Table S1. Summary of migratory songbird families and their representative species in the East Asian-Australasian Flyway.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Number of species** | **Long-distance migrants** | **Complete migrants** | **Winter in tropical Asia** | **Winter in temperate Asia** | **Threatened/near-threatened species** | **Species with decreasing trend/ (%)\*** |
| Acrocephalidae | 6 | 6 | 5 | 6 | 0 | 2/0 | 4 (66.7) |
| Alaudidae | 5 | 3 | 0 | 2 | 4 | 0/0 | 3 (60.0) |
| Bombycillidae | 2 | 2 | 2 | 0 | 2 | 0/1 | 2 (100.0) |
| Campephagidae | 8 | 4 | 2 | 8 | 0 | 0/0 | 1 (12.5) |
| Cettidae | 5 | 3 | 2 | 4 | 1 | 0/0 | 0 (0) |
| Cisticolidae | 1 | 0 | 0 | 1 | 0 | 0/0 | 0 (0) |
| Corvidae | 2 | 2 | 0 | 2 | 2 | 0/0 | 0 (0) |
| Dicruridae | 4 | 2 | 0 | 4 | 0 | 0/0 | 0 (0) |
| Emberizidae | 22 | 18 | 15 | 17 | 16 | 3/1 | 6 (27.3) |
| Fringillidae | 21 | 11 | 4 | 13 | 13 | 0/0 | 7 (33.3) |
| Hirundinidae | 6 | 6 | 3 | 6 | 0 | 1/0 | 4 (66.7) |
| Laniidae | 7 | 6 | 2 | 5 | 3 | 0/0 | 3 (42.9) |
| Locustellidae | 9 | 7 | 6 | 9 | 1 | 1/1 | 4 (44.4) |
| Monarchidae | 3 | 2 | 0 | 3 | 0 | 0/1 | 1 (33.3) |
| Motacillidae | 13 | 12 | 6 | 12 | 6 | 0/0 | 3 (23.1) |
| Muscicapidae | 54 | 29 | 17 | 51 | 3 | 3/3 | 12 (22.2) |
| Nectariidae | 1 | 0 | 0 | 1 | 0 | 0/0 | 0 (0) |
| Oriolidae | 4 | 2 | 1 | 4 | 0 | 1/0 | 1 (25.0) |
| Panuridae | 1 | 0 | 0 | 0 | 1 | 0/0 | 0 (0) |
| Passeridae | 1 | 0 | 0 | 1 | 1 | 0/0 | 0 (0) |
| Phylloscopidae | 34 | 25 | 23 | 31 | 1 | 1/0 | 1 (2.9) |
| Pittidae | 4 | 2 | 1 | 4 | 0 | 1/0 | 4 (100) |
| Prunellidae | 2 | 1 | 1 | 0 | 2 | 0/0 | 0 (0) |
| Pycnonotidae | 3 | 2 | 0 | 3 | 1 | 0/0 | 0 (0) |
| Regulidae | 1 | 1 | 0 | 1 | 1 | 0/0 | 0 (0) |
| Remizidae | 2 | 2 | 2 | 2 | 1 | 0/0 | 0 (0) |
| Stenostiridae | 1 | 0 | 0 | 1 | 0 | 0/0 | 0 (0) |
| Sturnidae | 8 | 6 | 4 | 7 | 2 | 0/0 | 0 (0) |
| Trichodromadidae | 1 | 1 | 0 | 1 | 1 | 0/0 | 0 (0) |
| Troglodytidae | 1 | 1 | 0 | 1 | 1 | 0/0 | 0 (0) |
| Turdidae | 20 | 12 | 8 | 19 | 6 | 2/0 | 7 (35.0) |
| Zosteropidae | 2 | 2 | 1 | 2 | 0 | 0/0 | 1 (50.0) |
| **Total** | 254 | 170 | 94 | 161 | 60 | 15/7 | 64 |
| \*Percentage values are taken over total species richness for each family  Family-level taxonomy follows that of the International Ornithologists’ Union (Gill & Donsker 2013) | | | | | | | |

Table S2. List of songbirds with at least one long-distance migratory population in the East Asian-Australasian Flyway.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Species** | **Latin Name** | **IUCN Red List Status** | **Population Trend** | **Extent of Occurrence (km2)** | **Dietary guild** |
| Acrocephalidae | Streaked Reed-warbler | *Acrocephalus sorgiphilus* | Endangered | Decreasing | 2400 | Insectivore |
| Acrocephalidae | Manchurian Reed-warbler | *Acrocephalus tangorum* | Vulnerable | Decreasing | 490000 | Insectivore |
| Acrocephalidae | Blunt-winged Warbler | *Acrocephalus concinens* | Least concern | Stable | 1080000 | Insectivore |
| Acrocephalidae | Black-browed Reed- warbler | *Acrocephalus bistrigiceps* | Least concern | Stable | 2320000 | Insectivore |
| Acrocephalidae | Thick-billed Warbler | *Acrocephalus aedon* | Least concern | Decreasing | 2670000 | Insectivore |
| Acrocephalidae | Great Reed-warbler | *Acrocephalus arundinaceus* | Least concern | Decreasing | 17400000 | Insectivore |
| Alaudidae | Mongolian Lark | *Melancorypha mongolica* | Least concern | Stable | 3370000 | Insectivore |
| Alaudidae | Greater Short-toed Lark | *Calandrella brachydactyla* | Least concern | Decreasing | 8080000 | Insectivore |
| Alaudidae | Eurasian Skylark | *Alauda arvensis* | Least concern | Decreasing | 33000000 | Insectivore |
| Bombycillidae | Japanese Waxwing | *Bombycilla japonica* | Near-threatened | Decreasing | 869000 | Frugivore |
| Bombycillidae | Bohemian Waxwing | *Bombycilla garrulus* | Least concern | Decreasing | 12800000 | Frugivore |
| Campephagidae | Ashy Minivet | *Pericrocotus divaricatus* | Least concern | Stable | 941000 | Insectivore |
| Campephagidae | Brown-rumped Minivet | *Pericrocotus cantonensis* | Least concern | Decreasing | 1500000 | Insectivore |
| Campephagidae | Long-tailed Minivet | *Pericrocotus ethologus* | Least concern | Stable | 3190000 | Insectivore |
| Campephagidae | Black-winged Cuckoo-shrike | *Coracina melaschistos* | Least concern | Stable | 3760000 | Insectivore |
| Cettidae | Manchurian Bush-warbler | *Cettia canturians* | Least concern | Stable | 1610000 | Insectivore |
| Cettidae | Asian Stubtail | *Urosphena squameiceps* | Least concern | Stable | 983000 | Insectivore |
| Corvidae | Daurian Jackdaw | *Corvus dauuricus* | Least concern | Stable | 4010000 | Scavenger |
| Corvidae | Rook | *Corvus frugilegus* | Least concern | Decreasing | 11300000 | Scavenger |
| Corvidae | Carrion Crow | *Corvus corone* | Least concern | Decreasing | 26800000 | Scavenger |
| Dicruridae | Crow-billed Drongo | *Dicrurus annectans* | Least concern | Unknown | 1270000 | Insectivore |
| Dicruridae | Ashy Drongo | *Dicrurus leucophaeus* | Least concern | Unknown | 5730000 | Insectivore |
| Dicruridae | Black Drongo | *Dicrurus macrocercus* | Least concern | Unknown | 6510000 | Insectivore |
| Emberizidae | Ochre-rumped Bunting | *Emberiza yessoensis* | Near-threatened | Stable | 49600 | Granivore |
| Emberizidae | Yellow Bunting | *Emberiza sulphurata* | Vulnerable | Decreasing | 112000 | Granivore |
| Emberizidae | Slaty Bunting | *Latoucheornis siemsseni* | Least concern | Stable | 112000 | Granivore |
| Emberizidae | Grey Bunting | *Emberiza variabilis* | Least concern | Stable | 187000 | Granivore |
| Emberizidae | Tristram's Bunting | *Emberiza tristrami* | Least concern | Stable | 423000 | Granivore |
| Emberizidae | Yellow-browed Bunting | *Emberiza chrysophrys* | Least concern | Stable | 641000 | Granivore |
| Emberizidae | Chestnut Bunting | *Emberiza rutila* | Least concern | Stable | 1030000 | Granivore |
| Emberizidae | Pallas's Bunting | *Emberiza pallasi* | Least concern | Stable | 1600000 | Granivore |
| Emberizidae | Elegant Bunting | *Emberiza elegans* | Least concern | Stable | 1980000 | Granivore |
| Emberizidae | Rustic Bunting | *Emberiza rustica* | Least concern | Decreasing | 2180000 | Granivore |
| Emberizidae | Little Bunting | *Emberiza pusilla* | Least concern | Stable | 2380000 | Granivore |
| Emberizidae | Black-faced Bunting | *Emberiza spodocephala* | Least concern | Stable | 2400000 | Granivore |
| Emberizidae | Yellow-breasted Bunting | *Emberiza aureola* | Vulnerable | Decreasing | 2780000 | Granivore |
| Emberizidae | Chestnut-eared Bunting | *Emberiza fucata* | Least concern | Stable | 3880000 | Granivore |
| Emberizidae | Pine Bunting | *Emberiza leucocephalos* | Least concern | Stable | 4830000 | Granivore |
| Emberizidae | Snow Bunting | *Plectrophenax nivalis* | Least concern | Decreasing | 6830000 | Granivore |
| Emberizidae | Lapland Longspur | *Calcarius lapponicus* | Least concern | Increasing | 8300000 | Granivore |
| Emberizidae | Reed Bunting | *Emberiza schoeniclus* | Least concern | Decreasing | 13100000 | Granivore |
| Fringillidae | Japanese Grosbeak | *Eophona personata* | Least concern | Stable | 830000 | Granivore |
| Fringillidae | Chinese Grosbeak | *Eophona migratoria* | Least concern | Stable | 1240000 | Granivore |
| Fringillidae | Asian Rosy-finch | *Leucosticte arctoa* | Least concern | Decreasing | 2720000 | Granivore |
| Fringillidae | Pallas's Rosefinch | *Carpodacus roseus* | Least concern | Stable | 4970000 | Granivore |
| Fringillidae | Common Rosefinch | *Carpodacus erythrinus* | Least concern | Stable | 5660000 | Granivore |
| Fringillidae | Grey-capped Greenfinch | *Carduelis sinica* | Least concern | Stable | 5960000 | Granivore |
| Fringillidae | Eurasian Siskin | *Carduelis spinus* | Least concern | Decreasing | 8970000 | Granivore |
| Fringillidae | Hawfinch | *Coccothraustes coccothraustates* | Least concern | Stable | 10400000 | Granivore |
| Fringillidae | Brambling | *Fringilla montifringilla* | Least concern | Decreasing | 11400000 | Granivore |
| Fringillidae | Common Redpoll | *Carduelis flammea* | Least concern | Decreasing | 18700000 | Granivore |
| Fringillidae | Red Crossbill | *Loxia curvirostra* | Least concern | Stable | 24400000 | Granivore |
| Hirundinidae | Asian House-martin | *Delichon dasypus* | Least concern | Increasing | 3760000 | Aerial insectivore |
| Hirundinidae | Northern House-martin | *Delichon urbica* | Least concern | Decreasing | 16200000 | Aerial insectivore |
| Hirundinidae | Sand Martin | *Riparia riparia* | Least concern | Decreasing | 28900000 | Aerial insectivore |
| Hirundinidae | Barn Swallow | *Hirundo rustica* | Least concern | Decreasing | 43400000 | Aerial insectivore |
| Hirundinidae | Red-rumped Swallow | *Hirundo daurica* | Least concern | Increasing | No information | Aerial insectivore |
| Hirundinidae | White-eyed River-martin | *Eurochelidon sirintarae* | Critically Endangered | Decreasing | No information | Aerial insectivore |
| Laniidae | Bull-headed Shrike | *Lanius bucephalus* | Least concern | Decreasing | 1080000 | Small carnivore |
| Laniidae | Grey-backed Shrike | *Lanius tephronotus* | Least concern | Stable | 1360000 | Small carnivore |
| Laniidae | Chinese Grey Shrike | *Lanius sphenocercus* | Least concern | Stable | 2430000 | Small carnivore |
| Laniidae | Tiger Shrike | *Lanius tigrinus* | Least concern | Decreasing | 2870000 | Small carnivore |
| Laniidae | Brown Shrike | *Lanius cristatus* | Least concern | Decreasing | 8280000 | Small carnivore |
| Laniidae | Grey Grey Shrike | *Lanius excubitor* | Least concern | Stable | 34200000 | Small carnivore |
| Locustellidae | Pleske's Grasshopper-warbler | *Locustella pleskei* | Vulnerable | Decreasing | 1100 | Insectivore |
| Locustellidae | Middendorff's Grasshopper-warbler | *Locustella ochotensis* | Least concern | Decreasing | 271000 | Insectivore |
| Locustellidae | Gray's Grasshopper-warbler | *Locustella grayi* | Least concern | Stable | 1340000 | Insectivore |
| Locustellidae | Pallas's Grasshopper Warbler | *Locustella certhiola* | Least concern | Decreasing | 1620000 | Insectivore |
| Locustellidae | Lanceolated Warbler | *Locustella lanceolata* | Least concern | Stable | 2960000 | Insectivore |
| Locustellidae | Chinese Bush-warbler | *Bradypterus tacsanowskius* | Least concern | Stable | 580000 | Insectivore |
| Locustellidae | Spotted Bush-warbler | *Bradypterus thoracicus* | Least concern | Stable | Unknown | Insectivore |
| Monarchidae | Japanese Paradise- flycatcher | *Terpsiphone atrocaudata* | Near-threatened | Decreasing | 390000 | Insectivore |
| Monarchidae | Asian Paradise- flycatcher | *Terpsiphone paradisi* | Least concern | Stable | 5980000 | Insectivore |
| Motacillidae | Pechora Pipit | *Anthus gustavi* | Least concern | Stable | 502000 | Insectivore |
| Motacillidae | Rosy Pipit | *Anthus roseatus* | Least concern | Stable | 1820000 | Insectivore |
| Motacillidae | Blyth's Pipit | *Anthus godlewskii* | Least concern | Stable | 2150000 | Insectivore |
| Motacillidae | Forest Wagtail | *Dendronanthus indicus* | Least concern | Stable | 3710000 | Insectivore |
| Motacillidae | Red-throated Pipit | *Anthus cervinus* | Least concern | Stable | 3790000 | Insectivore |
| Motacillidae | Citrine Wagtail | *Motacilla citreola* | Least concern | Stable | 4420000 | Insectivore |
| Motacillidae | Olive-backed Pipit | *Anthus hodgsoni* | Least concern | Stable | 5670000 | Insectivore |
| Motacillidae | Buff-bellied Pipit | *Anthus rubescens* | Least concern | Decreasing | 11000000 | Insectivore |
| Motacillidae | Grey Wagtail | *Motacilla cinerea* | Least concern | Stable | 16600000 | Insectivore |
| Motacillidae | Richard's Pipit | *Anthus richardi* | Least concern | Stable | No information | Insectivore |
| Motacillidae | White Wagtail | *Motacilla alba* | Least concern | Decreasing | No information | Insectivore |
| Motacillidae | Western Yellow Wagtail | *Motacilla flava* | Least concern | Decreasing | No information | Insectivore |
| Muscicapidae | Rufous-headed Robin | *Luscinia ruficeps* | Vulnerable | Decreasing | 46500 | Insectivore |
| Muscicapidae | Black-throated Blue Robin | *Luscinia obscura* | Vulnerable | Decreasing | 59300 | Insectivore |
| Muscicapidae | Large Blue-flycatcher | *Cyornis magnirostris* | Least concern | Stable | 114000 | Insectivore |
| Muscicapidae | Japanese Robin | *Luscinia akahige* | Least concern | Stable | 237000 | Insectivore |
| Muscicapidae | Narcissus Flycatcher | *Ficedula narcissina* | Least concern | Stable | 420000 | Insectivore |
| Muscicapidae | Brown-chested Jungle-flycatcher | *Rhinomyias brunneatus* | Vulnerable | Decreasing | 595000 | Insectivore |
| Muscicapidae | Yellow-rumped Flycatcher | *Ficedula zanthopygia* | Least concern | Stable | 618000 | Insectivore |
| Muscicapidae | Blue-fronted Redstart | *Phoenicurus frontalis* | Least concern | Stable | 631000 | Insectivore |
| Muscicapidae | Indian Blue Robin | *Luscinia brunnea* | Least concern | Decreasing | 736000 | Insectivore |
| Muscicapidae | Ferruginous Flycatcher | *Muscicapa ferruginea* | Least concern | Decreasing | 1050000 | Insectivore |
| Muscicapidae | Grey-streaked Flycatcher | *Muscicapa griseisticta* | Least concern | Stable | 1160000 | Insectivore |
| Muscicapidae | Blue-and-white Flycatcher | *Cyanoptila cyanomelana* | Least concern | Stable | 1300000 | Insectivore |
| Muscicapidae | Rufous-tailed Robin | *Luscinia sibilans* | Least concern | Stable | 1350000 | Insectivore |
| Muscicapidae | Grey Bush Chat | *Saxicola ferrea* | Least concern | Stable | 1480000 | Insectivore |
| Muscicapidae | Slaty-backed Flycatcher | *Ficedula hodgsonii* | Least concern | Stable | 1570000 | Insectivore |
| Muscicapidae | White-throated Rock-thrush | *Monticola gularis* | Least concern | Stable | 1710000 | Insectivore |
| Muscicapidae | Mugimaki Flycatcher | *Ficedula mugimaki* | Least concern | Stable | 2000000 | Insectivore |
| Muscicapidae | Daurian Redstart | *Phoenicurus auroreus* | Least concern | Stable | 2430000 | Insectivore |
| Muscicapidae | Dark-sided Flycatcher | *Muscicapa sibirica* | Least concern | Stable | 3000000 | Insectivore |
| Muscicapidae | Siberian Blue Robin | *Luscinia cyane* | Least concern | Decreasing | 3000000 | Insectivore |
| Muscicapidae | Orange-flanked Bush-robin | *Tarsiger cyanurus* | Least concern | Stable | 3080000 | Insectivore |
| Muscicapidae | Siberian Rubythroat | *Luscinia calliope* | Least concern | Stable | 3160000 | Insectivore |
| Muscicapidae | Asian Brown Flycatcher | *Muscicapa latirostris* | Least concern | Stable | 4490000 | Insectivore |
| Muscicapidae | Taiga Flycatcher | *Ficedula albicilla* | Least concern | Stable | 4750000 | Insectivore |
| Muscicapidae | Blue Rock-thrush | *Monticola solitaris* | Least concern | Stable | 9790000 | Insectivore |
| Muscicapidae | Black Redstart | *Phoenicurus ochruros* | Least concern | Stable | 12600000 | Insectivore |
| Muscicapidae | Bluethroat | *Luscinia svecica* | Least concern | Stable | 12900000 | Insectivore |
| Muscicapidae | Common Stonechat | *Saxicola torquatus* | Least concern | Stable | 19500000 | Insectivore |
| Musicapidae | Blue-throated Flycatcher | *Cyornis rubeculoides* | Least concern | Stable | 1250000 | Insectivore |
| Oriolidae | Silver Oriole | *Oriolus mellianus* | Vulnerable | Decreasing | 11600 | Omnivore |
| Oriolidae | Black-naped Oriole | *Oriolus chinensis* | Least concern | Unknown | 3750000 | Omnivore |
| Phylloscopidae | Izu Leaf-warbler | *Phylloscopus ijimae* | Vulnerable | Decreasing | 350 | Insectivore |
| Phylloscopidae | Sakhalin Leaf-warbler | *Phylloscopus borealoides* | Least concern | Stable | 2200 | Insectivore |
| Phylloscopidae | Marten's Warbler | *Serceicus omeiensis* | Least concern | Stable | 55200 | Insectivore |
| Phylloscopidae | Chinese Leaf-warbler | *Phylloscopus yunnanensis* | Least concern | Stable | 128000 | Insectivore |
| Phylloscopidae | Alstrom's Warbler | *Serceicus soror* | Least concern | Stable | 136000 | Insectivore |
| Phylloscopidae | Gansu Leaf-warbler | *Phylloscopus kansuensis* | Least concern | Stable | 172000 | Insectivore |
| Phylloscopidae | Large-billed Leaf- warbler | *Phylloscopus magnirostris* | Least concern | Stable | 203000 | Insectivore |
| Phylloscopidae | Bianchi's Warbler | *Serceicus valentini* | Least concern | Stable | 218000 | Insectivore |
| Phylloscopidae | Grey-crowned Warbler | *Serceicus tephrocephalus* | Least concern | Stable | 322000 | Insectivore |
| Phylloscopidae | Sulphur-breasted Leaf-warbler | *Phylloscopus ricketti* | Least concern | Stable | 352000 | Insectivore |
| Phylloscopidae | Buff-barred Warbler | *Phylloscopus pulcher* | Least concern | Stable | 457000 | Insectivore |
| Phylloscopidae | Sichuan Leaf-warbler | *Phylloscopus forresti* | Least concern | Stable | 591000 | Insectivore |
| Phylloscopidae | Buff-throated Warbler | *Phylloscopus subaffinis* | Least concern | Stable | 918000 | Insectivore |
| Phylloscopidae | Pale-legged Leaf-warbler | *Phylloscopus tenellipes* | Least concern | Stable | 941000 | Insectivore |
| Phylloscopidae | Yellow-streaked Warbler | *Phylloscopus armandii* | Least concern | Stable | 975000 | Insectivore |
| Phylloscopidae | Claudia's Leaf-warbler | *Phylloscopus claudiae* | Least concern | Stable | 1080000 | Insectivore |
| Phylloscopidae | Eastern Crowned Warbler | *Phylloscopus coronatus* | Least concern | Stable | 1100000 | Insectivore |
| Phylloscopidae | Radde's Warbler | *Phylloscopus schwarzi* | Least concern | Stable | 1170000 | Insectivore |
| Phylloscopidae | Hume's Leaf-warbler | *Phylloscopus humei* | Least concern | Stable | 1250000 | Insectivore |
| Phylloscopidae | Tickell's Leaf-warbler | *Phylloscopus affinis* | Least concern | Stable | 2090000 | Insectivore |
| Phylloscopidae | Arctic Warbler | *Phylloscopus borealis* | Least concern | Stable | 3360000 | Insectivore |
| Phylloscopidae | Dusky Warbler | *Phylloscopus fuscatus* | Least concern | Stable | 3830000 | Insectivore |
| Phylloscopidae | Greenish Warbler | *Phylloscopus trochiloides* | Least concern | Increasing | 4640000 | Insectivore |
| Phylloscopidae | Inornate Warbler | *Phylloscopus inornatus* | Least concern | Stable | unknown | Insectivore |
| Phylloscopidae | Lemon-rumped Warbler | *Phylloscopus proregulus* | Least concern | Stable | Unknown | Insectivore |
| Pittidae | Fairy Pitta | *Pitta brachyura* | Vulnerable | Decreasing | 210000 | Insectivore |
| Pittidae | Blue-winged Pitta | *Pitta moluccensis* | Least concern | Decreasing | 2610000 | Insectivore |
| Prunellidae | Siberian Accentor | *Prunella montanella* | Least concern | Stable | 1340000 | Insectivore |
| Pycnonotidae | Brown-eared Bulbul | *Ixos amaurotis* | Least concern | Increasing | 547000 | Frugivore |
| Pycnonotidae | Light-vented Bulbul | *Pycnonotus sinensis* | Least concern | Increasing | 2590000 | Frugivore |
| Regulidae | Goldcrest | *Regulus regulus* | Least concern | Decreasing | 13200000 | Insectivore |
| Remizidae | Chinese Penduline-tit | *Remiz consobrinus* | Least concern | Increasing | 202000 | Insectivore |
| Remizidae | Fire-capped Tit | *Cephalopyrus flammiceps* | Least concern | Unknown | 226000 | Insectivore |
| Sturnidae | Spot-winged Starling | *Saroglossa spiloptera* | Least concern | Decreasing | 120000 | Frugivore |
| Sturnidae | Chestnut-cheeked Starling | *Sturnus phillipensis* | Least concern | Unknown | 200000 | Omnivore |
| Sturnidae | White-shouldered Starling | *Sturnus sinensis* | Least concern | Stable | 741000 | Omnivore |
| Sturnidae | Daurian Starling | *Sturnus sturninus* | Least concern | Unknown | 829000 | Omnivore |
| Sturnidae | White-cheeked Starling | *Sturnus cineraceus* | Least concern | Unknown | 1730000 | Insectivore |
| Sturnidae | Common Starling | *Sturnus vulgaris* | Least concern | Unknown | 8870000 | Omnivore |
| Tichodromadidae | Wallcreeper | *Tichodroma muraria* | Least concern | Stable | 5600000 | Insectivore |
| Troglodytidae | Eurasian Wren | *Troglodytes troglodytes* | Least concern | Unknown | 20600000 | Insectivore |
| Turdidae | Grey-sided Thrush | *Turdus feae* | Vulnerable | Decreasing | 188000 | Omnivore |
| Turdidae | Brown-headed Thrush | *Turdus chrysolaus* | Least concern | Unknown | 278000 | Omnivore |
| Turdidae | Japanese Thrush | *Turdus cardis* | Least concern | Unknown | 564000 | Omnivore |
| Turdidae | Pale Thrush | *Turdus pallidus* | Least concern | Unknown | 1060000 | Omnivore |
| Turdidae | Siberian Thrush | *Zoothera sibirica* | Least concern | Decreasing | 1140000 | Omnivore |
| Turdidae | Grey-backed Thrush | *Turdus hortulorum* | Least concern | Unknown | 1170000 | Omnivore |
| Turdidae | Orange-headed Thrush | *Zoothera citrina* | Least concern | Decreasing | 2780000 | Omnivore |
| Turdidae | Eyebrowed Thrush | *Turdus obscurus* | Least concern | Unknown | 3540000 | Omnivore |
| Turdidae | Eurasian Scaly Thrush | *Zoothera aurea* | Least concern | Decreasing | 4500000 | Omnivore |
| Turdidae | Dusky Thrush | *Turdus eunomus* | Least concern | Unknown | 4830000 | Omnivore |
| Turdidae | Dark-throated Thrush | *Turdus ruficollis* | Least concern | Unknown | 5470000 | Omnivore |
| Turdidae | Eurasian Blackbird | *Turdus merula* | Least concern | Stable | 10700000 | Omnivore |
| Zosteropidae | Chestnut-flanked White-eye | *Zosterops erythropleurus* | Least concern | Decreasing | 988000 | Omnivore |
| Zosteropidae | Japanese White-eye | *Zosterops japonicus* | Least concern | Unknown | 2070000 | Omnivore |

Table 3. List of migratory songbirds in the East Asian-Australasian Flyway with declining trends.

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| --- | --- | --- | --- | --- | --- | --- |
| **Family** | **Species** | **Latin Name** | **IUCN/BirdLife International Status** | **Long Distance migrant?** | **Winter range (in tropical E Asia)** | **Winter range (in temperate E Asia)** |
| Acrocephalidae | Streaked Reed-warbler | *Acrocephalus sorgiphilus* | Vulnerable | Yes | Philippines | NA |
| Acrocephalidae | Manchurian Reed-warbler | *Acrocephalus tangorum* | Vulnerable | Yes | Mainland SEA | NA |
| Acrocephalidae | Thick-billed Warbler | *Acrocephalus aedon* | Least Concern | Yes | S China, mainland SEA, Malay Pen | NA |
| Acrocephalidae | Great Reed-warbler | *Acrocephalus arundinaceus* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Sundas, Philippines, Wallacea | NA |
| Alaudidae | Greater Short-toed Lark | *Calandrella brachydactyla* | Least Concern | Yes | NA | N China, E China |
| Alaudidae | Oriental Skylark | *Alauda gulgula* | Least Concern | No | S China, mainland SEA | NA |
| Alaudidae | Eurasian Skylark | *Alauda arvensis* | Least Concern | Yes | S China | N China, E China |
| Bombycillidae | Japanese Waxwing | *Bombycilla japonica* | Near-threatened | Yes | NA | E China, Korea, Japan |
| Bombycillidae | Bohemian Waxwing | *Bombycilla garrulus* | Least Concern | Yes | NA | N China, E China, Korea, Japan |
| Campephagidae | Brown-rumped Minivet | *Pericrocotus cantonensis* | Least Concern | Yes | S China, mainland SEA, Malay Pen | NA |
| Corvidae | Rook | *Corvus frugilegus* | Least Concern | Yes | S China | E China, Korea, Japan |
| Corvidae | Carrion Crow | *Corvus corone* | Least Concern | Yes | S China | E China, Japan |
| Emberizidae | Yellow Bunting | *Emberiza sulphurata* | Vulnerable | Yes | Philippines | Japan |
| Emberizidae | Rufous-backed Bunting | *Emberiza jankowskii* | Endangered | No | NA | N China |
| Emberizidae | Rustic Bunting | *Emberiza rustica* | Least Concern | Yes | S China | E China, N China, Korea, Japan |
| Emberizidae | Yellow-breasted Bunting | *Emberiza aureola* | Vulnerable | Yes | S China, mainland SEA, Malay Pen | NA |
| Emberizidae | Snow Bunting | *Plectrophenax nivalis* | Least Concern | Yes | NA | E Siberia, Mongolia, N China, Japan |
| Emberizidae | Reed Bunting | *Emberiza schoeniclus* | Least Concern | Yes | S China | E China, Korea, Japan |
| Fringillidae | Asian Rosy-finch | *Leucosticte arctoa* | Least Concern | Yes | NA | E Siberia, N China, Korea, Japan |
| Fringillidae | Eurasian Siskin | *Carduelis spinus* | Least Concern | Yes | S China | N China, E China, Korea, Japan |
| Fringillidae | Brambling | *Fringilla montifringilla* | Least Concern | Yes | S China, Philippines | E Siberia, N China, E China, Korea, Japan |
| Fringillidae | White-winged Crossbill | *Loxia leucoptera* | Least Concern | No | NA | N China |
| Fringillidae | Eurasian Bullfinch | *Pyrrhula pyrrhula* | Least Concern | No | NA | N China, Korea, Japan |
| Fringillidae | Common Redpoll | *Carduelis flammea* | Least Concern | Yes | NA | E Siberia, N China, E China, Korea, Japan |
| Fringillidae | Pine Grosbeak | *Pinicola enucleator* | Least Concern | No | NA | E Siberia, N China |
| Hirundinidae | Northern House-martin | *Delichon urbica* | Least Concern | Yes | Mainland SEA | NA |
| Hirundinidae | Sand Martin | *Riparia riparia* | Least Concern | Yes | Mainland SEA, Malay Pen, Sundas, Philippines | NA |
| Hirundinidae | Barn Swallow | *Hirundo rustica* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Philippines, Sundas, Wallacea | NA |
| Hirundinidae | White-eyed River-martin | *Eurochelidon sirintarae* | Critically Endangered | Yes | Mainland SEA | NA |
| Laniidae | Bull-headed Shrike | *Lanius bucephalus* | Least Concern | Yes | S China | E China |
| Laniidae | Tiger Shrike | *Lanius tigrinus* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Sundas | NA |
| Laniidae | Brown Shrike | *Lanius cristatus* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Sundas, Philippines, Wallacea | NA |
| Locustellidae | Pleske's Grasshopper-warbler | *Locustella pleskei* | Vulnerable | Yes | S China, mainland SEA | NA |
| Locustellidae | Marsh Grassbird | *Locustella pryeri* | Near-threatened | No | S China | E China, Japan |
| Locustellidae | Middendorff's Grasshopper-Warbler | *Locustella ochotensis* | Least Concern | Yes | Sundas, Philippines | NA |
| Locustellidae | Pallas's Grasshopper-warbler | *Locustella certhiola* | Least Concern | Yes | Mainland SEA, Malay Pen, Sundas | NA |
| Monarchidae | Japanese Paradise-flycatcher | *Terpsiphone atrocaudata* | Near-threatened | Yes | Malay Pen, Sundas, Philippines | NA |
| Motacillidae | Buff-bellied Pipit | *Anthus rubescens* | Least Concern | Yes | S China | E China, Korea, Japan |
| Motacillidae | White Wagtail | *Motacilla alba* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Philippines | E China, Korea, Japan |
| Motacillidae | Yellow Wagtail | *Motacilla flava* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Sundas, Philippines, Wallacea | E China |
| Muscicapidae | Ryukyu Robin | *Luscinia komadori* | Near-threatened | No | S China, Ryukyus | NA |
| Muscicapidae | Rufous-headed Robin | *Luscinia ruficeps* | Vulnerable | Yes | Malay Pen | NA |
| Muscicapidae | Black-throated Blue Robin | *Luscinia obscura* | Vulnerable | Yes | Mainland SEA | NA |
| Muscicapidae | Firethroat | *Luscinia pectardens* | Near-threatened | No | Mainland SEA | NA |
| Muscicapidae | Ala Shan Redstart | *Phoenicurus alaschanicus* | Near-threatened | No | NA | E China |
| Muscicapidae | Brown-chested Jungle-flycatcher | *Rhinomyias brunneatus* | Vulnerable | Yes | Malay Pen, Sundas | NA |
| Muscicapidae | Indian Blue Robin | *Luscinia brunnea* | Least Concern | Yes | Mainland SEA | NA |
| Muscicapidae | Vivid Niltava | *Niltava vivida* | Least Concern | No | S China, mainland SEA | NA |
| Muscicapidae | Ferruginous Flycatcher | *Muscicapa ferruginea* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Sundas, Philippines | NA |
| Muscicapidae | Snowy-browed Flycatcher | *Ficedula hyperythra* | Least Concern | No | S China, mainland SEA | NA |
| Muscicapidae | Siberian Blue Robin | *Luscinia cyane* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Sundas | NA |
| Muscicapidae | Little Pied Flycatcher | *Ficedula westermanni* | Least Concern | No | S China, mainland SEA | NA |
| Oriolidae | Silver Oriole | *Oriolus mellianus* | Vulnerable | Yes | Mainland SEA | NA |
| Phylloscopidae | Izu Leaf-warbler | *Phylloscopus ijimae* | Vulnerable | Yes | Philippines | NA |
| Pittidae | Fairy Pitta | *Pitta brachyura* | Vulnerable | Yes | Sundas | NA |
| Pittidae | Hooded Pitta | *Pitta sordida* | Least Concern | No | Malay Pen, Sundas | NA |
| Pittidae | Blue-winged Pitta | *Pitta moluccensis* | Least Concern | Yes | Malay Pen, Sundas | NA |
| Pittidae | Red-bellied Pitta | *Pitta erythrogaster* | Least Concern | No | Philippines | NA |
| Regulidae | Goldcrest | *Regulus regulus* | Least Concern | Yes | S China | N China, E China, Korea, Japan |
| Sturnidae | Spot-winged Starling | *Saroglossa spiloptera* | Least Concern | Yes | Mainland SEA | NA |
| Turdidae | Izu Thrush | *Turdus celaenops* | Vulnerable | No | NA | Japan |
| Turdidae | Grey-sided Thrush | *Turdus feae* | Vulnerable | Yes | Mainland SEA | NA |
| Turdidae | Black-breasted Thrush | *Turdus dissimilis* | Least Concern | No | Mainland SEA | NA |
| Turdidae | Grey-winged Blackbird | *Turdus boulboul* | Least Concern | No | S China, mainland SEA | NA |
| Turdidae | Siberian Thrush | *Zoothera sibirica* | Least Concern | Yes | Mainland SEA, Malay Pen, Sundas | NA |
| Turdidae | Orange-headed Thrush | *Zoothera citrina* | Least Concern | Yes | S China, mainland SEA, Malay Pen, Sundas | NA |
| Turdidae | Eurasian Scaly Thrush | *Zoothera dauma* | Least Concern | Yes | S China, mainland SEA, Philippines | E China, Japan |
| Zosteropidae | Chestnut-flanked White-eye | *Zosterops erythropleurus* | Least Concern | Yes | S China, mainland SEA | NA |
| **Abbreviations**  Malay Pen. – Thai-Malay Peninsula  Mainland SEA. –Mainland South-East Asia, Burma, Thailand, Lao PDR to Cambodia, Vietnam  Sundas – Greater Sundas (i.e. Borneo, Sumatra, Java and intervening islands) (E Malaysia, Indonesia)  Wallacea – Sulawesi, Moluccan and Lesser Sunda Islands (Indonesia)  E Siberia – Russian regions from and including Transbaikalia, eastwards to Chukotka, Kamchatka, Sakhalin  S China – Chinese provinces south of the Yangtze, from SE Tibet, S Sichuan to Anhui, Zhejiang, south to Hainan, Guangxi  E China – Chinese provinces east of Tibetan plateau, from E Gansu, Shaanxi to Hebei, Liaoning, south to Henan, N Anhui  N China – Chinese provinces from E Inner Mongolia to Jilin, Heilongjiang | | | | | | |

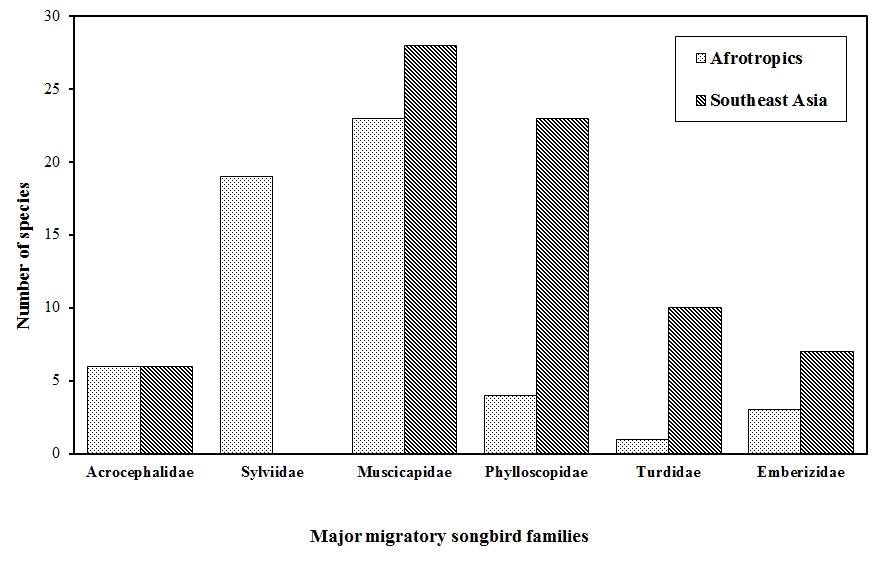


Figure S1. Bar chart comparing species richness of six major migratory songbird families with representatives in the Afrotropics (East and West Africa combined) and South-East Asia. (African data are compiled from Morel and Morel 1992, Pearson and Lack 1992).