

APPENDIX

Sample codes

Shapefile database connection string

The correct connection string for connecting to the database of a shapefile depends on the OS and the dBase associated drivers installed on it. In the example here, the OS is a 64-bit Microsoft Windows with a 64-bit Access Database Engine installed on it. If Anylogic is running on a 32-bit Java virtual machine, the required database driver must exist in the 32-bit version of ODBC data sources, and vice-versa for the 64-bit versions. This driver could be either MS Access dBase drive or FoxPro driver. The following Java example code is using the MS Access driver.

```
try {
    Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
    String connString = "jdbc:odbc:Driver={Microsoft Access dBASE Driver (*.dbf, *.ndx, *.mdx)};
DefaultDir=D:\\";
    // D:\ is the database location
    // Microsoft Access dBASE Driver (*.dbf, *.ndx, *.mdx) exists in Data Sources (ODBC)
    java.sql.Connection conn = java.sql.DriverManager.getConnection(connString);
    String sql="SELECT * from Grid"; // Grid.dbf is the file name
    java.sql.Statement stmt=conn.createStatement();
    java.sql.ResultSet resultSet=stmt.executeQuery(sql);
    while (resultSet!= null & resultSet.next())
        traceIn(resultSet.getString(1));

    traceIn("Done!");
}
catch (ClassNotFoundException e)
{
    e.printStackTrace();
}
catch (SQLException e) {
    e.printStackTrace();
}
```

Another connection string sample for C#.NET is as follows.

```
System.Data.OleDb.OleDbConnection connTest = new System.Data.OleDb.OleDbConnection();
connTest.ConnectionString = @"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=D:\;Extended Properties=dBASE
IV;User ID=Admin;Password=";";
connTest.Open();
OleDbCommand com = new OleDbCommand("SELECT * FROM Grid",connTest);
```

Conversion of shapfile polygon features to Anylogic GIS regions

Polygon features in a shapefile are known as *PoliticalArea(s)* in Anylogic. The code below demonstrates how to extract the coordinates of all political areas in a shapefile, and store them in binary file using the libraries available in Anylogic 7.0.3. First a Java class called *GISPolygon* needs to be defined with the minimal functions. The coordinates of shapefile polygons are then stored in an instance of *GISPolygon*, and is saved as a binary file on the hard disk.

```
java.util.LinkedHashMap <Integer, GISPolygon> ShapefilePolygons = new java.util.LinkedHashMap<Integer,
GISPolygon>();
// Let's assume there's a GIS map component called map, and //
// the first shapefile on the map is the shapefile of our interest //
Object[] politicalAreasObjects = map.getLayers()[0].getPoliticalAreas().toArray();
PoliticalArea polArea;
GISPolygon gisPolygon;
int featureID=-1; // FID in shapefiles
for (int i=0;i<politicalAreasObjects.length;i++)
{
    polArea = (PoliticalArea) politicalAreasObjects[i];
    featureID = (int) Float.parseFloat(polArea.name); // The name coloumn index of the shapefile on the map
is set to refer to the FID
    OMGeometryList gmList = polArea.getGeometry();
    OMGraphicList grList = (OMGraphicList) gmList;
    Object parent = grList.getOMGraphicAt(0);
    Object child = ((OMGraphicList) parent).getOMGraphicAt(0);
    // There may be a number of nested layers of features in the shapefile//
    while (child.getClass().equals(OMGraphicList.class)) {
        child = ((OMGraphicList) child).getOMGraphicAt(0);
    }
}
```

```

        parent = ((OMGraphicList) parent).getOMGraphicAt(0);
    }
    int polyCount = ((OMGraphicList) parent).size(); // The number of political areas under the same FID
    gisPolygon = new GISPolygon(featureID);
    for(int j=0;j<polyCount;j++)
    {
        OMPoly poly = (OMPoly) ((OMGraphicList) parent).getOMGraphicAt(j);
        double[] polyCoords = poly.getLatLonArray();
        ProjMath.arrayRadToDeg(polyCoords);
        gisPolygon.AddLatLonArray(polyCoords);
    }
    ShapefilePolygons.put(featureID, gisPolygon);
}
gisPolygon.SaveShapefilePolgons(ShapefilePolygons, "D:\\MyShapefile.dat"); // Store on hard disk as a binary
file

```

The source code for the *GISPolygon* class is as follows.

```

public class GISPolygon implements Serializable {
    public ArrayList<double[]> latLonArrayList;
    public int npolygons=0;
    public int featureID;
    public GISPolygon() {
        this.featureID = -1; this.npolygons=0;
    }
    public GISPolygon(int featureID) {
        this.npolygons = 0; this.featureID = featureID;
    }
    public void AddLatLonArray(double[] latLonArray) {
        if (this.latLonArrayList == null)
            this.latLonArrayList = new ArrayList<double[]>();

        this.latLonArrayList.add(latLonArray);
        this.npolygons ++;
    }
    public void SaveShapefilePolgons(Object shapefilePolygons, String filePath) {
        try {
            FileOutputStream fout = new FileOutputStream(filePath);
            ObjectOutputStream oos = new ObjectOutputStream(fout);
            oos.writeObject(shapefilePolygons);
            oos.flush(); oos.close();
            System.out.println("File saved!");
        }
        catch(Exception ex) {
            traceln(ex.toString());
        }
    }
    private static final long serialVersionUID = 1L;
}

```

Some functions and libraries used above, such as casting from *OMGeometryList* to *OMGraphicList*, may not be available in all Anylogic versions. However, the coordinate extraction procedure is still similar, and could be adopted by developers.

Finally, the code below shows how to restore saved coordinates, and display them as Anylogic *GISRegion(s)* on a map. It is notable that the *GISRegion* component is not available in Anylogic 7.0.3, as such the code below was tested in Anylogic 7.2.0 PLE.

```

LinkedHashMap <Integer ,GISPolygon> loadedPolygon = new java.util.LinkedHashMap<Integer, GISPolygon>();
LinkedHashMap <Integer ,GISMultiRegion> MultiGISRegionsList = new LinkedHashMap<Integer, GISMultiRegion>();
try {
    ObjectInputStream in = new ObjectInputStream(new FileInputStream("D:\\MyShapefile.dat"));
    loadedPolygon = (LinkedHashMap<Integer, GISPolygon>) in.readObject();
    in.close();
}
catch(Exception ex) {
    traceln(ex.toString());
}
GISRegion gisRegion;
GISMultiRegion gisMulti;
for (Integer entryKey : loadedPolygon.keySet()){
    GISPolygon poly = loadedPolygon.get(entryKey);

```

```
gisMulti = new GISMultiRegion(entryKey.toString());
for (int i=0; i<poly.latLonArrayList.size();i++) {
    gisRegion = new GISRegion(map, poly.latLonArrayList.get(i));
    gisMulti.add(gisRegion);
    map.add(gisRegion);
}
MultiGISRegionsList.put(entryKey, gisMulti);
}
```

Birds Species Data

The collected data on bird species can be found in Table I below.

Table I BIRDS SPECIES

Family and Species	Common Name	Home Range ^a	Flight Speed ^b	Roosting ^c	Breeding Months	Sources
Accipitridae						
<i>Accipiter cooperii</i>	Cooper's Hawk	905	9	Solitary	4 - 7	[1–3]
<i>Accipiter striatus</i>	Sharp-shinned Hawk	918	7	Solitary	4 - 8	[1,4]
<i>Buteo jamaicensis</i>	Red-tailed Hawk	1163	9	Solitary	2 - 9	[5–8]
<i>Buteo platypterus</i>	Broad-winged Hawk	583	11	Solitary	5 - 8	[9,10]
<i>Buteo regalis</i>	Ferruginous Hawk	1652	16	Solitary	4 - 8	[11–13]
<i>Buteo swainsoni</i>	Swainson's Hawk	2249	7	Communal	4 - 8	[11,14,15]
<i>Circus cyaneus</i>	Northern Harrier	910	9	Solitary	4 - 9	[6,16,17]
<i>Haliaeetus leucocephalus</i>	Bald Eagle	2622	13	Solitary	4 - 9	[18–20]
Alaudidae						
<i>Eremophila alpestris</i>	Horned Lark	127	11	Flocking	3 - 8	[21–23]
Alcedinidae						
<i>Megaceryle alcyon</i>	Belted Kingfisher	1609	8	Solitary	4 - 8	[24–26]
Apodidae						
<i>Chaetura pelagica</i>	Chimney Swift	4000	13	Communal	6 - 8	[27,28]
Bombycillidae						
<i>Bombycilla cedrorum</i>	Cedar Waxwing	36	9	Communal	6 - 10	[29–31]
Calcariidae						
<i>Calcarius ornatus</i>	Chestnut-collared Longspur	112	9	Flocking	5 - 8	[32,33]
Caprimulgidae						
<i>Chordeiles minor</i>	Common Nighthawk	523	10	Flocking	6 - 9	[11,34]
Cardinalidae						
<i>Passerina cyanea</i>	Indigo Bunting	160	9	Solitary	6 - 9	[11,35]
<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak	140	8	Solitary	6 - 8	[36–38]
<i>Piranga olivacea</i>	Scarlet Tanager	199	8	Solitary	6 - 8	[37,39]
<i>Spiza americana</i>	Dickcissel	390	11	Flocking	5 - 8	[11,40,41]
Cathartidae						
<i>Cathartes aura</i>	Turkey Vulture	12657	13	Communal	5 - 9	[42–44]
Certhiidae						
<i>Certhia americana</i>	Brown Creeper	500	7	Solitary	5 - 8	[37,45]
Columbidae						
<i>Columba livia</i>	Rock Pigeon	5300	16	Communal	4 - 11	[46,47]
<i>Zenaida macroura</i>	Mourning Dove	4000	17	Communal	3 - 10	[27,48,49]
<i>Corvus brachyrhynchos</i>	American Crow	1555	11	Flocking	3 - 6	[50–52]
Corvidae						
<i>Corvus corax</i>	Common Raven	3590	11	Communal	3 - 7	[50,53]
<i>Cyanocitta cristata</i>	Blue Jay ^d	103	9	Solitary	4 - 6	[22,54–56]
<i>Perisoreus canadensis</i>	Gray Jay ^d	455	9	Solitary	3 - 6	[55,57]
<i>Pica hudsonia</i>	Black-billed Magpie	126	8	Flocking	4 - 6	[58,59]
Cuculidae						
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	305	10	Solitary	6 - 10	[11,60,61]

Emberizidae

<i>Ammodramus bairdii</i>	Baird's Sparrow	200	7	Flocking	6 - 9	[62,63]
<i>Ammodramus leconteii</i>	Le Conte's Sparrow	200	7	Solitary	6 - 9	[62,64]
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	75	7	Solitary	6 - 8	[62,65,66]
<i>Chondestes grammacus</i>	Lark Sparrow	139	12	Flocking	5 - 8	[11,31,67]
<i>Junco hyemalis</i>	Dark-eyed Junco	82	8	Flocking	5 - 9	[26,37,68]
<i>Melospiza georgiana</i>	Swamp Sparrow	113	13	Flocking	5 - 8	[11,69,70]
<i>Melospiza lincolni</i>	Lincoln's Sparrow	100	13	Solitary	6 - 8	[11,71]
<i>Melospiza melodia</i>	Song Sparrow	113	13	Solitary	3 - 9	[11,72,73]
<i>Passerculus sandwichensis</i>	Savannah Sparrow	170	16	Flocking	6 - 9	[22,74,75]
<i>Pipilo erythrophthalmus</i>	Eastern Towhee	300	8	Solitary	5 - 8	[37,76]
<i>Pipilo maculatus</i>	Spotted Towhee	157	8	Solitary	4 - 8	[37,77–79]
<i>Poocetes gramineus</i>	Vesper Sparrow	142	7	Flocking	5 - 9	[11,80,81]
<i>Spizella pallida</i>	Clay-colored Sparrow	99	9	Flocking	6 - 8	[11,38,82]
<i>Spizella passerina</i>	Chipping Sparrow	99	9	Flocking	4 - 9	[11,38,73,83]
<i>Zonotrichia albicollis</i>	White-throated Sparrow	93	8	Flocking	6 - 8	[11,84]

Falconidae

<i>Falco columbarius</i>	Merlin	2523	14	Solitary	3 - 9	[85,86]
<i>Falco sparverius</i>	American Kestrel	671	10	Solitary	4 - 8	[6,87,88]

Fringillidae

<i>Carpodacus mexicanus</i>	House Finch	1500	6	Communal	4 - 8	[89–91]
<i>Carpodacus purpureus</i>	Purple Finch	380	6	Solitary	4 - 9	[90,92,93]
<i>Coccothraustes vespertinus</i>	Evening Grosbeak	359	17	Flocking	5 - 8	[94–96]
<i>Loxia curvirostra</i>	Red Crossbill	254	9	Communal	1 - 10	[22,37,70,97,98]
<i>Loxia leucoptera</i>	White-winged Crossbill	1000	9	Communal	1 - 11	[37,99]
<i>Spinus pinus</i>	Pine Siskin	113	15	Communal	4 - 8	[70,100,101]
<i>Spinus tristis</i>	American Goldfinch	800	7	Communal	7 - 9	[22,102,103]

Hirundinidae

<i>Hirundo rustica</i>	Barn Swallow	600	7	Communal	5 - 9	[104–106]
<i>Petrochelidon pyrrhonota</i>	Cliff Swallow	1500	8	Communal	5 - 8	[107,108]
<i>Progne subis</i>	Purple Martin	2871	12	Communal	5 - 8	[22,49,109–111]
<i>Riparia riparia</i>	Bank Swallow	800	14	Communal	4 - 8	[16,106,112]
<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow	500	7	Solitary	5 - 7	[105,113]
<i>Tachycineta bicolor</i>	Tree Swallow	4000	7	Communal	5 - 7	[49,106,114,115]

Icteridae

<i>Agelaius phoeniceus</i>	Red-winged Blackbird	1609	7	Communal	4 - 8	[116–119]
<i>Dolichonyx oryzivorus</i>	Bobolink	90	7	Flocking	6 - 8	[119–121]
<i>Euphagus carolinus</i>	Rusty Blackbird	345	8	Communal	5 - 8	[122]
<i>Euphagus cyanocephalus</i>	Brewer's Blackbird	1600	12	Communal	2 - 8	[123–125]
<i>Icterus galbula</i>	Baltimore Oriole	100	11	Solitary	5 - 7	[11,70,126]
<i>Icterus spurius</i>	Orchard Oriole	113	11	Communal	6 - 8	[11,31,127]
<i>Molothrus ater</i>	Brown-headed Cowbird	1186	13	Communal	4 - 8	[128,129]
<i>Quiscalus quiscula</i>	Common Grackle	12921	14	Communal	4 - 7	[27,116,130,131]
<i>Sturnella neglecta</i>	Western Meadowlark	149	9	Flocking	4 - 9	[70,132]

<i>Xanthocephalus xanthocephalus</i>	Yellow-headed Blackbird	1600	10	Communal	5 - 8	[26,133,134]
Laniidae						
<i>Lanius ludovicianus</i>	Loggerhead Shrike	207	13	Solitary	3 - 7	[6,88,135,136]
Mimidae						
<i>Dumetella carolinensis</i>	Gray Catbird	37	7	Solitary	5 - 8	[11,70,137]
<i>Mimus polyglottos</i>	Northern Mockingbird	102	8	Solitary	3 - 8	[6,37,70,138,139]
<i>Toxostoma rufum</i>	Brown Thrasher	113	10	Solitary	4 - 8	[37,140,141]
Motacillidae						
<i>Anthus spragueii</i>	Sprague's Pipit	143	6	Solitary	5 - 8	[142,143]
Pandionidae						
<i>Pandion haliaetus</i>	Osprey	14000	13	Solitary	5 - 9	[27,144]
Paridae						
<i>Poecile atricapillus</i>	Black-capped Chickadee	216	5	Communal	4 - 7	[6,145–147]
<i>Poecile hudsonicus</i>	Boreal Chickadee	216	5	Flocking	5 - 9	[146,148,149]
Parulidae						
<i>Cardellina canadensis</i>	Canada Warbler	80	7	Flocking	6 - 8	[37,150–152]
<i>Cardellina pusilla</i>	Wilson's Warbler	213	7	Solitary	6 - 8	[37,152–154]
<i>Geothlypis philadelphia</i>	Mourning Warbler ^d	113	7	Solitary	6 - 9	[6,37,70,155,156]
<i>Geothlypis trichas</i>	Common Yellowthroat	96	7	Solitary	6 - 8	[37,70,157,158]
<i>Mniotilta varia</i>	Black-and-white Warbler	145	7	Solitary	5 - 8	[37,152,159,160]
<i>Oporornis agilis</i>	Connecticut Warbler	39	7	Solitary	6 - 8	[37,152,159,161]
<i>Oreothlypis celata</i>	Orange-crowned Warbler	80	7	Solitary	4 - 8	[37,152,162,163]
<i>Oreothlypis peregrina</i>	Tennessee Warbler	124	7	Flocking	7 - 9	[31,37,152,164,165]
<i>Oreothlypis ruficapilla</i>	Nashville Warbler ^d	113	7	Solitary	6 - 8	[37,70,152,166]
<i>Parkesia noveboracensis</i>	Northern Waterthrush	206	8	Solitary	6 - 8	[37,167]
<i>Seiurus aurocapilla</i>	Ovenbird	98	8	Solitary	5 - 8	[6,37,168]
<i>Setophaga americana</i>	Northern Parula	45	7	Solitary	4 - 8	[37,70,169]
<i>Setophaga castanea</i>	Bay-breasted Warbler	106	7	Solitary	6 - 8	[37,70,170]
<i>Setophaga coronata</i>	Yellow-rumped Warbler	169	7	Flocking	6 - 8	[37,171,172]
<i>Setophaga fusca</i>	Blackburnian Warbler	59	7	Flocking	6 - 8	[6,37,173]
<i>Setophaga magnolia</i>	Magnolia Warbler	113	7	Solitary	6 - 9	[6,37,70,174]
<i>Setophaga palmarum</i>	Palm Warbler	110	7	Solitary	5 - 8	[37,175]
<i>Setophaga pennsylvanica</i>	Chestnut-sided Warbler	95	7	Flocking	6 - 9	[31,37,176]
<i>Setophaga petechia</i>	Yellow Warbler	490	11	Flocking	6 - 8	[152,177]
<i>Setophaga pinus</i>	Pine Warbler	99	7	Flocking	5 - 7	[37,178,179]
<i>Setophaga ruticilla</i>	American Redstart	45	6	Solitary	6 - 8	[6,37,70,180]
<i>Setophaga striata</i>	Blackpoll Warbler	117	6	Flocking	6 - 8	[37,181,182]
<i>Setophaga tigrina</i>	Cape May Warbler	56	7	Solitary	6 - 8	[37,183]
<i>Setophaga virens</i>	Black-throated Green Warbler	113	7	Flocking	5 - 8	[6,37,70,184]
<i>Vermivora chrysoptera</i>	Golden-winged Warbler	138	7	Solitary	5 - 8	[37,164,185]
Passeridae						
<i>Passer domesticus</i>	House Sparrow	1500	13	Communal	4 - 9	[27,49,186,187]
Phasianidae						
<i>Bonasa umbellus</i>	Ruffed Grouse	164	8	Solitary	4 - 11	[188,189]

<i>Meleagris gallopavo</i>	Wild Turkey	3586	14	Communal	4 - 11	[22,190]
<i>Perdix perdix</i>	Gray Partridge	623	13	Communal	4 - 7	[191–193]
<i>Phasianus colchicus</i>	Ring-necked Pheasant	339	12	Flocking	4 - 10	[194–196]
<i>Tympanuchus phasianellus</i>	Sharp-tailed Grouse	608	13	Communal	5 - 8	[11,197]
Picidae						
<i>Colaptes auratus</i>	Northern Flicker	282	7	Solitary	5 - 7	[198,199]
<i>Dryocopus pileatus</i>	Pileated Woodpecker	896	7	Solitary	5 - 7	[56,70,199,200]
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	164	5	Solitary	5 - 9	[201,202]
<i>Picoides arcticus</i>	Black-backed Woodpecker	594	7	Solitary	6 - 8	[199,201]
<i>Picoides dorsalis</i>	American Three-toed Woodpecker	608	7	Solitary	6 - 8	[199,201,203]
<i>Picoides pubescens</i>	Downy Woodpecker	126	6	Solitary	4 - 7	[199,204]
<i>Picoides villosus</i>	Hairy Woodpecker	460	8	Solitary	4 - 8	[199,205–208]
Regulidae						
<i>Regulus calendula</i>	Ruby-crowned Kinglet	138	6	Solitary	5 - 8	[37,209]
<i>Regulus satrapa</i>	Golden-crowned Kinglet	89	6	Solitary	6 - 9	[37,70,210]
Sittidae						
<i>Sitta canadensis</i>	Red-breasted Nuthatch	178	5	Solitary	5 - 8	[70,211,212]
<i>Sitta carolinensis</i>	White-breasted Nuthatch	219	5	Solitary	5 - 7	[70,146,213]
Strigidae						
<i>Asio flammeus</i>	Short-eared Owl	511	12	Flocking	4 - 7	[11,214,215]
<i>Bubo virginianus</i>	Great Horned Owl	981	17	Solitary	3 - 4	[214,216–218]
<i>Strix varia</i>	Barred Owl	689	6	Solitary	2 - 10	[219,220]
Sturnidae						
<i>Sturnus vulgaris</i>	European Starling	7500	11	Communal	4 - 7	[27,49,116,221,222]
Trochilidae						
<i>Archilochus colubris</i>	Ruby-throated Hummingbird	183	13	Solitary	5 - 10	[223–226]
Troglodytidae						
<i>Cistothorus palustris</i>	Marsh Wren	56	7	Solitary	4 - 9	[227–229]
<i>Cistothorus platensis</i>	Sedge Wren	139	7	Solitary	6 - 9	[37,230–232]
<i>Troglodytes aedon</i>	House Wren	75	7	Solitary	5 - 9	[6,37,233,234]
<i>Troglodytes hiemalis</i>	Winter Wren	138	7	Solitary	5 - 9	[37,235]
Turdidae						
<i>Catharus fuscescens</i>	Veery ^d	113	15	Flocking	6 - 7	[70,236,237]
<i>Catharus guttatus</i>	Hermit Thrush	103	15	Communal	5 - 9	[70,237,238]
<i>Catharus ustulatus</i>	Swainson's Thrush	128	15	Solitary	6 - 9	[237,239,240]
<i>Sialia currucoides</i>	Mountain Bluebird	147	8	Flocking	4 - 9	[11,241,242]
<i>Sialia sialis</i>	Eastern Bluebird	247	8	Communal	3 - 9	[6,11,243]
<i>Turdus migratorius</i>	American Robin	400	9	Communal	4 - 8	[27,37,244–247]
Tyrannidae						
<i>Contopus cooperi</i>	Olive-sided Flycatcher	219	7	Solitary	6 - 9	[248,249]
<i>Contopus sordidulus</i>	Western Wood-Pewee	82	7	Solitary	5 - 9	[250–252]
<i>Contopus virens</i>	Eastern Wood-Pewee	118	7	Solitary	5 - 9	[38,250,253]
<i>Empidonax alnorum</i>	Alder Flycatcher	98	13	Solitary	6 - 8	[70,254,255]
<i>Empidonax flaviventris</i>	Yellow-bellied Flycatcher	113	13	Flocking	6 - 8	[70,255,256]

<i>Empidonax minimus</i>	Least Flycatcher	60	13	Communal	6 - 8	[6,70,255,257,258]
<i>Empidonax traillii</i>	Willow Flycatcher	81	13	Solitary	6 - 9	[255,259,260]
<i>Myiarchus crinitus</i>	Great Crested Flycatcher	101	10	Solitary	5 - 8	[70,248,255,261]
<i>Sayornis phoebe</i>	Eastern Phoebe ^e	95	10	Solitary	4 - 8	[70,262,263]
<i>Sayornis saya</i>	Say's Phoebe ^e	94	10	Solitary	5 - 8	[264,265]
<i>Tyrannus tyrannus</i>	Eastern Kingbird	212	10	Flocking	6 - 8	[11,38,263,266]
<i>Tyrannus verticalis</i>	Western Kingbird	219	8	Solitary	5 - 7	[11,22,267,268]
Vireonidae						
<i>Vireo flavifrons</i>	Yellow-throated Vireo	100	8	Solitary	6 - 8	[37,269]
<i>Vireo gilvus</i>	Warbling Vireo	100	8	Solitary	5 - 8	[37,270–272]
<i>Vireo olivaceus</i>	Red-eyed Vireo	109	8	Flocking	5 - 8	[37,270,273]
<i>Vireo philadelphicus</i>	Philadelphia Vireo	113	8	Solitary	6 - 8	[37,274]
<i>Vireo solitarius</i>	Blue-headed Vireo	100	8	Solitary	6 - 8	[37,275]

^a Home range values are the ceiling for the average radius of an estimated circular home range area in meters.

^b Flight speed values are reported in meters per second. As it was not clear as to the type of speed that different papers reported, it is not recommended to compare the birds' speed by these values.

^c Flocking under the Roosting column means that the species roost individually or in pairs during the breeding season, and then form flocks for migration in the fall.

^d It is notable that for the Mourning Warbler, Veery, and Nashville Warbler, the sources of data were not clear as to the type of roosting that they did. The entries given represent a best guess, but further data would be needed for greater precision. Specifically, for the Veery, no mention of communal roosting was found in literature, but no mention of any other type was found. The Blue Jay and Gray Jay were difficult to properly categorize due to ambiguity in literature regarding their roosting behaviour.

^e For the flight speeds of Eastern Phoebe and Say's Phoebe species, the average speed of the Tyrannidae birds in the dataset is used.

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