Table S1. Data sources for landcover and topographic variables included in Golden-winged WarblerMaxent habitat distribution models.

| Variable | Data Source | Year(s) | Original | Original |
|-------------------------------------|--|-------------------|-------------|------------|
| Fausathaisht O | | 2000 2012 2014 | Data Type | Resolution |
| Forest height 0- 10m within 150m | LANDFIRE Existing Vegetation | 2008, 2012, 2014 | Categorical | 30x30m |
| 10m within 120m | Height | | | |
| Forest height 25- | https://landfire.gov/evh.php LANDFIRE Existing Vegetation | 2008, 2012, 2014 | Catagorical | 30x30m |
| 50m within 150m | | 2008, 2012, 2014 | Categorical | 50X50111 |
| | Height https://landfire.gov/evh.php | | | |
| Road cover within | LANDFIRE Existing Vegetation | 2001, 2008, 2012, | Categorical | 30x30m |
| 150m | Height | 2014, 2016, 2020 | Categorical | 30/30/11 |
| 13011 | https://landfire.gov/evh.php | 2014, 2010, 2020 | | |
| Forest height 25- | LANDFIRE Existing Vegetation | 2008, 2012, 2014 | Categorical | 30x30m |
| 50m within | Height | 2008, 2012, 2014 | Categorical | 30/30/11 |
| 2500m | https://landfire.gov/evh.php | | | |
| Road cover within | LANDFIRE Existing Vegetation | 2001, 2008, 2012, | Categorical | 30x30m |
| 2500m | Height | 2014, 2016, 2020 | Categorical | 30/30/11 |
| 230011 | https://landfire.gov/evh.php | 2014, 2010, 2020 | | |
| Agricultural land | LANDFIRE Existing Vegetation | 2001, 2008, 2012, | Categorical | 30x30m |
| within 2500m | Height | 2014, 2016, 2020 | Categorical | 30,3011 |
| | https://landfire.gov/evh.php | 2014, 2010, 2020 | | |
| Developed land | LANDFIRE Existing Vegetation | 2001, 2008, 2012, | Categorical | 30x30m |
| within 2500m | Height | 2014, 2016, 2020 | categorical | 30,3011 |
| Within 2500m | https://landfire.gov/evh.php | 2014, 2010, 2020 | | |
| Herb and shrub | Rangeland Analysis Platform | 2000-2020 | Continuous | 30x30m |
| cover within 150m | Vegetation Cover V3 | (21 years) | (Percent) | |
| | http://rangeland.ntsg.umt.edu/ | (, , | (******** | |
| | data/rap/rap-vegetation-cover/ | | | |
| Herb and shrub | Rangeland Analysis Platform | 2000-2020 | Continuous | 30x30m |
| cover within | Vegetation Cover V3 | (21 years) | (Percent) | |
| 2500m | http://rangeland.ntsg.umt.edu/ | | , | |
| | data/rap/rap-vegetation-cover/ | | | |
| Canopy cover | NLCD USFS Canopy Cover | 2011, 2016 | Continuous | 30x30m |
| within 150m | https://www.mrlc.gov/data | | (Percent) | |
| Canopy cover | NLCD USFS Canopy Cover | 2011, 2016 | Continuous | 30x30m |
| within 2500m | https://www.mrlc.gov/data | | (Percent) | |
| Elevation | ASTER Global DEM V3 | 2019 | Continuous | 30x30m |
| | https://earthexplorer.usgs.gov/ | | (Percent) | |
| Slope | ASTER Global DEM V3 | 2019 | Continuous | 30x30m |
| | https://earthexplorer.usgs.gov/ | | (Percent) | |
| Aspect | ASTER Global Digital Elevation | 2019 | Continuous | 30x30m |
| | Model V3 | | (Percent) | |
| | https://earthexplorer.usgs.gov/ | | | |