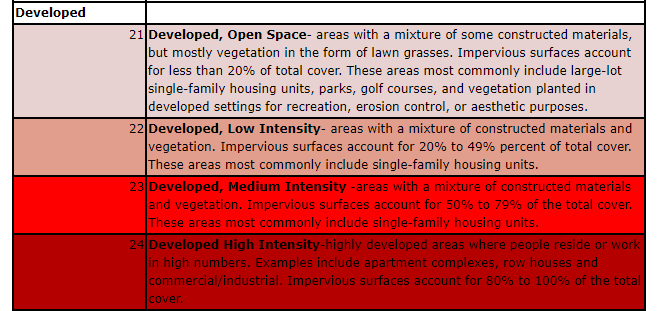
2018 Season Data (see table in GitHub) / Correlations between covariates:

* Strong negative (-0.7 to -1.0)
  + Time Since Burn & Last Burn (duh; -.977)
  + Time Since Thin & Last Thin (duh; -.989)
  + Patch Area & PA Ratio (ok, just don’t use together; -.768)
  + Core Area Index & PA Ratio (ok, just don’t use together; -.821)
  + Evergreen 5km & Ag 5km (-.815) & Ag 30km (-.785)
  + Ag 30km & Protected 30 km (-.808)
  + Evergreen 5km & Open Dev 30km (0.713)
  + High Dev 30km & Open Dev 30km (-.772)
  + High Dev 30km & Ag 30km (-.783)
  + Latitude & Evergreen5km (-.708)
  + Latitude & Scrubs30km (-.733)
  + Latitude & HighDev30km (-.818)
  + ~~Herbicide & Hardwood Density 10-50cm~~
  + ~~Last Burn & Time Since Burn (duh)~~
  + ~~Last Thin & Time Since Thinned (duh)~~
  + ~~Perimeter-Area Ratio & Patch Area (duh)~~
  + ~~Perimeter-Area Ratio & Core Area Index (duh)~~
  + **Protected@30km & Ag@30km**
  + **Ag@30km & HighDev@30km**
  + **Evergreen@5km & Ag@5km**
  + Evergreen@5km & OpenDev@30km
  + Evergreen@5km & Grass@30km
  + Evergreen@5km & Ag@30km
  + **HighDev@30km & OpenDev@30km**
* Weak negative (-0.5 to -0.699)
  + Litter Depth & Last Burn (-.603)
  + Evergreen 1km & Ag 1km (-.532) & Ag 5km (-.547)
  + Evergreen 30km & Ag 5km (-.579)
  + Evergreen 30km & Ag30km (-.502)
  + Ag 5km & HighDev30km (-.639)
  + Ag 30 km & Water 30 km (-.526)
  + Ag5km & Protected 30km (-.545)
  + Evergreen 1km & Open Dev 30km (-.556)
  + Evergreen 5km & Open Dev 5km (-.518)
  + Ag 5km & Scrubs 5km (-.585)
  + Ag 5km & Schrubs 30km (-.505)
  + Protected 30km & Grass 5km (-.593)
  + Protected 30km & Open Dev 5km (-.517)
  + High Dev 30km & Open Dev 5km (-.561)
  + Open Dev 30km & Scrubs 30km (-.552)
  + Grass 30km & Scrubs 5km (-.531)
  + Time Since Burn & Number of Burns (-.507)
  + ~~Tree Height & Live Crown Ratio~~
  + Ag@5km & HighDev@30km
  + Evergreen@1km & OpenDev@30km
  + Evergreen@30km & Ag@5km
  + **Evergreen@30km & Ag@30km**
  + Protected@30km & Grass@5km
  + Schrubs@5km & Grass@30km
  + **Schrubs@30km & OpenDev@30km**

*\*\*In general, and especially because of the positive correlations (to follow on next page), I think I need to revisit my low-intensity-development (LowDev), medium/high-intensity-development (HighDev), and open development (OpenDev) – and impervious surface (Impervious) layers and pick a representative one, because most are correlated, and these correlations with different land cover types. Either only one, or two (because OpenDev is something slightly different, which I think birds definitely use).*



*This page does NOT include the many that were + correlated between the 1km and 500m, 10km and 5km, etc. within the same land cover type. I ignored those as I don’t ever plan to include them in the same models.*

* Weak positive (0.5 to 0.699)
  + Age & Number Burns (0.551)
  + Age & Number Thins (0.672)
  + Number of Burns & Number Thins (0.506)
  + HW dens 10 & HW dens 100 (0.501)
  + HW dens 50 & HW shrub (0.617)
  + HW dens 100 & NHW saplings (0.611)
  + HW dens 100 & HW dens 1050 (0.679)
  + FG\_herb & Evergreen 30km (0.542)
  + NHW saplings & HW shrub (0.634)
  + HW dens 1050 & HW shrub (0.552)
  + Patch Area & Number of Soil Types (.547)
  + Core Area Index & Hydric Soils (.519)
  + Ag 1km & Ag 5km (0.618)
  + Ag 5km & Open Dev 30 km (0.503)
  + Ag 30km & Open Dev 5km (.504) & Open Dev 30 km (.593)
  + Ag 30km & Grass 5km (.580)
  + Ag 30km & Grass 30km (.534)
  + Evergreen1km & Evergreen 5km (.685) & Evergreen 30km (.670)
  + Evergreen 1km & Scrubs 30km (.537)
  + Evergreen 5km & Evergreen 30km (.696)
  + Evergreen 5km & Scrubs 30km (.684)
  + Evergreen 5km & Water 30km (.531)
  + Evergreen 30km & Protected 30km (.670)
  + Evergreen 30km & Scrubs 30km (.582)
  + Impervious 5km & Open Dev 5km (.626)
  + Protected 30km & High Dev 30km (.532)
  + High Dev 5km & Open Dev 5km (.612)
  + High Dev 30km & Scrubs 30km (.613)
  + Low Dev 500m & Open Dev 500m (.530)
  + Low Dev 1km & Open Dev 500m (.521) & Open Dev 1km (.627)
  + Low Dev 30km & Open Dev 30km (.681)
  + Open Dev 5km & Open Dev 30km (.549)
  + Open Dev 5km & Water 5km (.528)
  + Grass 500m & Grass 1km (.560)
  + Scrubs 1km & Scrubs 5km (.559)
  + Scrubs 1km & Water 5km (.547)
  + Water 500m & Water 1km (.534)
  + Latitude with Ag5km, Ag30km, OpenDev5km, OpenDev30km
  + Latitude with Evergreen30km (0.611)
  + ~~Hardwood density at 10cm & Hardwood density at 50cm~~
  + Evergreen@30km & FG\_herb (forbs & grasses at shortest level)
  + Grass30km & Ag5km
  + **Grass30km & Ag30km**
  + **Ag@30km & OpenDev@30km**
  + ~~OpenDev@5km & Impervious@5km~~
  + ~~OpenDev@30km & LowDev@30km~~
  + ~~OpenDev@1km & LowDev1km~~
  + **OpenDev@5km & HighDev5km**
  + HydricSoils rating & Patch Area
  + ~~Hydric Soils rating & Core Area Index~~
* Strong positive (0.7 to 1.0)
  + BA & Canopy Cover (.786)
  + HW dens 10 & HW dens 50 (.732)
  + HW dens 50 & HW dens 100 (.757)
  + HW dens 10 & HW dens 1050 (.927)
  + HW dens 50 & HW dens 1050 (.934)
  + HW dens 100 & HW shrub (.755)
  + PA Area & CoreAreaIndex (.924)
  + Shape Index & FracDimIndex (.935)
  + Ag 500m & Ag 1km (.762)
  + Ag5km & Ag30km (.718)
  + Evergreen500m & Evergreen1km (.778)
  + Evergreen 5km & HighDev30km (.798)
  + Impervious 500m & High Dev 500m (.825)
  + Impervious 1km & High Dev 1km (.992)
  + Impervious 5km & High Dev 5km (.999)
  + Impervious 5km & Low Dev 5km (.926)
  + Impervious 30km & Low Dev 30km (.965)
  + Impervious 30km & Open Dev 30km (.719)
  + Protected 30km & Water 30km (.734)
  + High Dev 5km & Low Dev 5km (.921)
  + Low Dev 500m & Low Dev 1km (.732)
  + Low Dev 5km & Open Dev 5km (.780)
  + Open Dev 500m & Open Dev 1km (.854)
  + Grass 5km & Grass 30 km (.750)
  + Scrubs 500m & Scrubs 1km (.753)
  + FP Site Index & Site Index of Primary Soils (.905)
  + **Canopy Cover & Basal Area**
  + **Age & Number of Thins**
  + ~~Hardwood density at 100cm & Hardwood density at 50cm (duh)~~
  + ~~Hardwood density 1050 & Hardwood density at 10cm (duh)~~
  + ~~Hardwood density 1050 & Hardwood density at 50cm (duh)~~
  + ~~Hardwood@shrub height (~1m) & Hardwood density at 100cm~~
  + ~~HighDev@500m & Impervious@500m (pick one going forward)~~
  + ~~HighDev@1km & Impervious@1km~~
  + ~~HighDev@5km & Impervious@5km~~
  + ~~OpenDev@5km & LowDev@5km~~
  + ~~OpenDev@1km & OpenDev@500m~~
  + ~~OpenDev@30km & Impervious@30km~~
  + ~~LowDev@30km & Impervious@30km~~
  + ~~LowDev@5km & HighDev@5km~~
  + ~~LowDev5km & Impervious@5km~~
  + ~~LowDev1km & LowDev500m~~
  + ~~OpenDev@30km & LowDev@30km~~
  + HighDev@30km & Evergreen@5km
  + ProtectedArea@30km & Evergreen@5km
  + **Water30km & ProtectedArea@30km**
  + CoreAreaIndex & OpenDev@30km
  + ~~FractalDimensionIndex & ShapeIndex (duh – only use one of these two)~~
  + ~~Patch Area & Core Area Index (pick only one of these two)~~
  + ~~SiteIndex of Primary Soils & Forest Productivity Site Index (duh – I calculated one based on the other, I will only use one going forward)~~
  + Schrubs30km & Evergreen5km
  + Schrubs30km & HighDev30km
  + **Schrubs1km & Hardwood Density at 100cm**