(-7.75+if(indicator(name='Black Spruce AVI unity ac\_new', units='density', nodata\_fill=0)>50,-0.21,if(indicator(name='Deciduous AVI unity ac\_new', units='density', nodata\_fill=0)>50,0,if(indicator(name='Agriculture Crops Unityb', units='density', nodata\_fill=0)>50,-0.18,if(indicator(name='Wetlands Fen', units='density', nodata\_fill=0)>50,0.49,if(indicator(name='Grassland Unityb', units='density', nodata\_fill=0)>50,0.08,if(indicator(name='Industrial Undifferentiated Unityb', units='density', nodata\_fill=0)>50,-13.98,if(indicator(name='Larch AVI unity ac\_new', units='density', nodata\_fill=0)>50,0.32,if(indicator(name='Wetlands Marsh', units='density', nodata\_fill=0)>50,0.50,if(indicator(name='Mine Pits Unityb', units='density', nodata\_fill=0)>50,-0.84,if(indicator(name='Mixed AVI unity ac\_new', units='density', nodata\_fill=0)>50,1.63,if(indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0)>50,0.80,if(indicator(name='Agriculture Pasture Unityb', units='density', nodata\_fill=0)>50,-15.1,if(indicator(name='Rural Settlement Unityb', units='density', nodata\_fill=0)>50,-13.65,if(indicator(name='Shrubland Unityb', units='density', nodata\_fill=0)>50,0.91,if(indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0)>50,-0.21,if(indicator(name='Wetlands Swamp', units='density', nodata\_fill=0)>50,0.38,if(indicator(name='Urban Undifferentiated Unityb', units='density', nodata\_fill=0)>50,-13.16,-13.14)))))))))))))))))-1.84\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)+0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)+0\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))-0.54\*(indicator(name='Major Road Unityb', units='density', nodata\_fill=0)+indicator(name='Minor Road Unityb', units='density', nodata\_fill=0))/100-0.95\*(indicator(name='PetroWell Gas Unityb', units='density', nodata\_fill=0)+indicator(name='PetroWell Oil Unityb', units='density', nodata\_fill=0)+indicator(name='PetroWell Other Unityb', units='density', nodata\_fill=0)+indicator(name='PetroWell Water Unityb', units='density', use\_static=True, static\_time=2010, nodata\_fill=0))/100-5.39\*indicator(name='Seismic Lines Unityb', units='density', nodata\_fill=0)/100-2.00\*indicator(name='Pipelines Unityb', units='density', nodata\_fill=0)/100-0.37\*indicator(name='xLatitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)-0.19\*indicator(name='xLongitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)+0.25\*((indicator(name='xLatitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0))\*\*2)+0.03\*((indicator(name='xLongitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0))\*\*2)+3.96\*indicator(name='Water Lentic 1000m', units='density', nodata\_fill=0)/100-5.6\*((indicator(name='Water Lentic 1000m', units='density', nodata\_fill=0)/100)\*\*2)-0\*indicator(name='Total Agriculture 1000m', units='density', nodata\_fill=0)/100+2.46\*indicator(name='Seismic Pipeline Cutblock AVI 1000m', units='density', nodata\_fill=0)/100-1.90\*((indicator(name='Seismic Pipeline Cutblock AVI 1000m', units='density', nodata\_fill=0)/100)\*\*2)-0.08\*indicator(name='Alienating land use 1000m', units='density', nodata\_fill=0)/100+0\*((indicator(name='Alienating land use 1000m', units='density', nodata\_fill=0)/100)\*\*2) +0.28\*indicator(name='xLatitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)\*indicator(name='xLongitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)-33.35\*indicator(name='xPotential Evapotranspiration ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)\*indicator(name='xMean Annual Precipitation ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)-1.77\*indicator(name='xMean Annual Temperature ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)\*indicator(name='xAnnual Heat Moisture Index ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0) -0\*indicator(name='Nonagricultural Footprint Alpac 1000m', units='density', nodata\_fill=0)/100-0\*((indicator(name='Nonagricultural Footprint Alpac 1000m', units='density', nodata\_fill=0)/100)\*\*2)+6.63\*indicator(name='xPotential Evapotranspiration ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)+0.74\*indicator(name='xMean Annual Temperature ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)-0\*indicator(name='xAnnual Heat Moisture Index ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)+11.00\*indicator(name='xMean Annual Precipitation ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0) +if((if(indicator(name='Mixed Origin AVI', units='density', nodata\_fill=0)==3,indicator(name='Mixed AVI unity ac\_new', units='density', nodata\_fill=0),0)+if(indicator(name='Deciduous Origin AVI', units='density', nodata\_fill=0)==3,indicator(name='Deciduous AVI unity ac\_new', units='density', nodata\_fill=0),0)+if(indicator(name='White Spruce Origin AVI', units='density', nodata\_fill=0)==3,indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0),0)+if(indicator(name='Pine Origin AVI', units='density', nodata\_fill=0)==3,indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0),0))>50,1-(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)\*200/50),0)+0\*indicator(name='xFrost Free Period ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)-0\*indicator(name='xFrost Free Period ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)\*indicator(name='xMean Annual Precipitation ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)+if((indicator(name='Black Spruce AVI unity ac\_new', units='density', nodata\_fill=0))>50,2.67\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)-0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)+0.69\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if(indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0)>50,2.55\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)-0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)+0.02\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if(indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0)>50,0.28\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)-0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)+0.19\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if(indicator(name='Mixed AVI unity ac\_new', units='density', nodata\_fill=0)>50,5.85\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)-0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)-6.19\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if((indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0)+indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0))>50, 0\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)-0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)+0\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if((indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0)+indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0)+indicator(name='Black Spruce AVI unity ac\_new', units='density', nodata\_fill=0)+indicator(name='Larch AVI unity ac\_new', units='density', nodata\_fill=0))>50, 0\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)+0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)+0\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),0))))))+0\*indicator(name='Linear footprint 1000m', units='density', nodata\_fill=0)/100+0\*indicator(name='Nonlinear footprint AVI 1000m', units='density', nodata\_fill=0)/100+0.48\*indicator(name='OSFL preferred habitat 1000m', units='density', nodata\_fill=0)/100+0\*sqrt(indicator(name='OSFL preferred habitat 1000m', units='density',nodata\_fill=0)/100)+0\*indicator(name='xMean Coldest Month Temperature ac\_new', units='density', use\_static=True, static\_time=2010, nodata\_fill=0)-0\*indicator(name='xMean Warmest Month Temperature ac\_new', units='density', use\_static=True, static\_time=2010) -0\*((indicator(name='Nonlinear footprint AVI 1000m', units='density',nodata\_fill=0)/100)\*\*2)+0\*((indicator(name='Linear footprint 1000m', units='density', nodata\_fill=0)+indicator(name='Nonlinear footprint AVI 1000m', units='density',nodata\_fill=0))/100)-0\*(((indicator(name='Linear footprint 1000m', units='density', nodata\_fill=0)+indicator(name='Nonlinear footprint AVI 1000m', units='density',nodata\_fill=0))/100)\*\*2))

Abbreviated:

(-7.75+if(indicator(name='Black Spruce AVI unity ac\_new', units='density', nodata\_fill=0)>50,-0.21,if(indicator(name='Deciduous AVI unity ac\_new', units='density', nodata\_fill=0)>50,0,if(indicator(name='Agriculture Crops Unityb', units='density', nodata\_fill=0)>50,-0.18,if(indicator(name='Wetlands Fen', units='density', nodata\_fill=0)>50,0.49,if(indicator(name='Grassland Unityb', units='density', nodata\_fill=0)>50,0.08,if(indicator(name='Industrial Undifferentiated Unityb', units='density', nodata\_fill=0)>50,-13.98,if(indicator(name='Larch AVI unity ac\_new', units='density', nodata\_fill=0)>50,0.32,if(indicator(name='Wetlands Marsh', units='density', nodata\_fill=0)>50,0.50,if(indicator(name='Mine Pits Unityb', units='density', nodata\_fill=0)>50,-0.84,if(indicator(name='Mixed AVI unity ac\_new', units='density', nodata\_fill=0)>50,1.63,if(indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0)>50,0.80,if(indicator(name='Agriculture Pasture Unityb', units='density', nodata\_fill=0)>50,-15.1,if(indicator(name='Rural Settlement Unityb', units='density', nodata\_fill=0)>50,-13.65,if(indicator(name='Shrubland Unityb', units='density', nodata\_fill=0)>50,0.91,if(indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0)>50,-0.21,if(indicator(name='Wetlands Swamp', units='density', nodata\_fill=0)>50,0.38,if(indicator(name='Urban Undifferentiated Unityb', units='density', nodata\_fill=0)>50,-13.16,-13.14)))))))))))))))))-1.84\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0) -0.54\*(indicator(name='Major Road Unityb', units='density', nodata\_fill=0)+indicator(name='Minor Road Unityb', units='density', nodata\_fill=0))/100-0.95\*(indicator(name='PetroWell Gas Unityb', units='density', nodata\_fill=0)+indicator(name='PetroWell Oil Unityb', units='density', nodata\_fill=0)+indicator(name='PetroWell Other Unityb', units='density', nodata\_fill=0)+indicator(name='PetroWell Water Unityb', units='density', use\_static=True, static\_time=2010, nodata\_fill=0))/100-5.39\*indicator(name='Seismic Lines Unityb', units='density', nodata\_fill=0)/100-2.00\*indicator(name='Pipelines Unityb', units='density', nodata\_fill=0)/100-0.37\*indicator(name='xLatitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)-0.19\*indicator(name='xLongitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)+0.25\*((indicator(name='xLatitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0))\*\*2)+0.03\*((indicator(name='xLongitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0))\*\*2)+3.96\*indicator(name='Water Lentic 1000m', units='density', nodata\_fill=0)/100-5.6\*((indicator(name='Water Lentic 1000m', units='density', nodata\_fill=0)/100)\*\*2) +2.46\*indicator(name='Seismic Pipeline Cutblock AVI 1000m', units='density', nodata\_fill=0)/100-1.90\*((indicator(name='Seismic Pipeline Cutblock AVI 1000m', units='density', nodata\_fill=0)/100)\*\*2)-0.08\*indicator(name='Alienating land use 1000m', units='density', nodata\_fill=0)/100+0.28\*indicator(name='xLatitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)\*indicator(name='xLongitude ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)-33.35\*indicator(name='xPotential Evapotranspiration ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)\*indicator(name='xMean Annual Precipitation ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)-1.77\*indicator(name='xMean Annual Temperature ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)\*indicator(name='xAnnual Heat Moisture Index ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)+6.63\*indicator(name='xPotential Evapotranspiration ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)+0.74\*indicator(name='xMean Annual Temperature ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0)+11.00\*indicator(name='xMean Annual Precipitation ac\_new', units='density', scen='historic - empirical or loaded from outside data', use\_static=True, static\_time=2010, nodata\_fill=0) +if((if(indicator(name='Mixed Origin AVI', units='density', nodata\_fill=0)==3,indicator(name='Mixed AVI unity ac\_new', units='density', nodata\_fill=0),0)+if(indicator(name='Deciduous Origin AVI', units='density', nodata\_fill=0)==3,indicator(name='Deciduous AVI unity ac\_new', units='density', nodata\_fill=0),0)+if(indicator(name='White Spruce Origin AVI', units='density', nodata\_fill=0)==3,indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0),0)+if(indicator(name='Pine Origin AVI', units='density', nodata\_fill=0)==3,indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0),0))>50,1-(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)\*200/50),0)+if((indicator(name='Black Spruce AVI unity ac\_new', units='density', nodata\_fill=0))>50,2.67\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0) +0.69\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if(indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0)>50,2.55\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)+0.02\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if(indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0)>50,0.28\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)+0.19\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if(indicator(name='Mixed AVI unity ac\_new', units='density', nodata\_fill=0)>50,5.85\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)- 6.19\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if((indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0)+indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0))>50, 0\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)-0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)+0\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),if((indicator(name='White Spruce AVI unity ac\_new', units='density', nodata\_fill=0)+indicator(name='Pine AVI unity ac\_new', units='density', nodata\_fill=0)+indicator(name='Black Spruce AVI unity ac\_new', units='density', nodata\_fill=0)+indicator(name='Larch AVI unity ac\_new', units='density', nodata\_fill=0))>50, 0\*indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)+0\*((indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0))\*\*2)+0\*sqrt(indicator(name='MeanForestAgeBAMABMIbirdmodels v3 ac\_new', units='density', nodata\_fill=0)),0))))))+ 0.48\*indicator(name='OSFL preferred habitat 1000m', units='density', nodata\_fill=0)/100)