

APPENDIX S3. Tukey’s honest significant difference (HSD) for multiple comparisons in the types of dynamic land-cover (ISAM-HYDE), and whether there is a significant difference in ectomycorrhizal fungal diversity. The significant differences are shaded by values less than 0.05 (orange) or 0.01 (red).

| Comparison | | diff | lwr | upr | p.adj | Comparison | | diff | lwr | upr | p.adj |
|--|---|--------|--------|--------|-------------|--------------------------|--|---------|---------|--------|-------------|
| Cropland | Boreal evergr. needleleaf forest | -46.11 | -70.68 | -21.53 | 0.00 | Tundra | Pastureland | 88.52 | -18.11 | 195.16 | 0.19 |
| Grassland, steppe | Boreal evergr. needleleaf forest | -54.44 | -80.37 | -28.50 | 0.00 | Tundra | Temperate decid. broadleaf forest | 34.86 | -71.79 | 141.51 | 0.98 |
| Grassland, steppe | Cropland | -8.33 | -25.77 | 9.10 | 0.86 | Tundra | Temperate evergr. needleleaf forest | 18.77 | -97.07 | 134.60 | 1.00 |
| Pastureland | Boreal evergr. needleleaf forest | -62.06 | -88.05 | -36.06 | 0.00 | Urbanland | Boreal evergr. needleleaf forest | -80.81 | -145.72 | -15.90 | 0.00 |
| Pastureland | Cropland | -15.95 | -33.48 | 1.58 | 0.11 | Urbanland | Cropland | -34.70 | -96.71 | 27.30 | 0.72 |
| Pastureland | Grassland, steppe | -7.62 | -27.01 | 11.77 | 0.95 | Urbanland | Grassland, steppe | -26.37 | -88.93 | 36.19 | 0.93 |
| Temperate decid. broadleaf forest | Boreal evergr. needleleaf forest | -8.39 | -34.45 | 17.66 | 0.99 | Urbanland | Pastureland | -18.75 | -81.34 | 43.83 | 0.99 |
| Temperate decid. broadleaf forest | Cropland | 37.71 | 20.09 | 55.33 | 0.00 | Urbanland | Temperate decid. broadleaf forest | -72.41 | -135.02 | -9.80 | 0.01 |
| Temperate decid. broadleaf forest | Grassland, steppe | 46.04 | 26.57 | 65.51 | 0.00 | Urbanland | Temperate evergr. needleleaf forest | -88.51 | -165.73 | -11.28 | 0.01 |
| Temperate decid. broadleaf forest | Pastureland | 53.66 | 34.11 | 73.22 | 0.00 | Urbanland | Tundra | -107.28 | -229.38 | 14.83 | 0.14 |
| Temperate evergr. needleleaf forest | Boreal evergr. needleleaf forest | 7.70 | -44.48 | 59.88 | 1.00 | Wetlands and bogs | Boreal evergr. needleleaf forest | -59.40 | -107.87 | -10.93 | 0.00 |
| Temperate evergr. needleleaf forest | Cropland | 53.80 | 5.29 | 102.32 | 0.02 | Wetlands and bogs | Cropland | -13.29 | -57.81 | 31.22 | 0.99 |
| Temperate evergr. needleleaf forest | Grassland, steppe | 62.14 | 12.92 | 111.36 | 0.00 | Wetlands and bogs | Grassland, steppe | -4.96 | -50.24 | 40.31 | 1.00 |
| Temperate evergr. needleleaf forest | Pastureland | 69.76 | 20.50 | 119.01 | 0.00 | Wetlands and bogs | Pastureland | 2.66 | -42.65 | 47.97 | 1.00 |
| Temperate evergr. needleleaf forest | Temperate decid. broadleaf forest | 16.09 | -33.19 | 65.38 | 0.98 | Wetlands and bogs | Temperate decid. broadleaf forest | -51.01 | -96.35 | -5.66 | 0.01 |
| Tundra | Boreal evergr. needleleaf forest | 26.47 | -81.55 | 134.48 | 1.00 | Wetlands and bogs | Temperate evergr. needleleaf forest | -67.10 | -131.13 | -3.07 | 0.03 |
| Tundra | Cropland | 72.57 | -33.73 | 178.87 | 0.45 | Wetlands and bogs | Tundra | -85.87 | -200.08 | 28.35 | 0.32 |
| Tundra | Grassland, steppe | 80.90 | -25.72 | 187.53 | 0.30 | Wetlands and bogs | Urbanland | 21.41 | -53.36 | 96.18 | 0.99 |