

Appendix 8 - Correlation Grouping for Landscape Metrics

Table 8.1 Parkland landscape metric groups where Pearson's correlation coefficient $|\geq 0.9|$

Group	Representative	Other Group Members
1 Number of Patches		Patch density; Total edge; Landscape shape index; Area-weighted perimeter-area ratio; Area-weighted contiguity Index; Proportion of like adjacencies; Patch cohesion index; Aggregation index
2 Largest patch index		Area-weighted patch area; Landscape division index; Effective mesh size
3 Radius of gyration		Shannon's diversity index; Simpson's diversity index; Modified Simpson's diversity index
4 Area-weighted shape index		Area-weighted fractal dimension index
5 Related circumscribing circle		
6 Perimeter-Area fractal dimension		
7 Area-weighted proximity index		
8 Area-weighted Euclidean nearest neighbor distance		
9 Contagion		
10 Interspersion juxtaposition index		
11 Connectance index		
12 Splitting index		
13 Patch richness		Patch richness density; Relative patch richness
14 Shannon's evenness index		Simpson's evenness index; Modified Simpson's evenness index

Table 8.2 Grassland landscape metric groups where Pearson's correlation coefficient $|\rho| > 0.9$

Group	Representative	Other Group Members
1 Number of Patches		Patch density; Total edge; Landscape shape index; Area-weighted perimeter-area ratio; Area-weighted contiguity Index; Proportion of like adjacencies; Patch cohesion index; Aggregation index
2 Largest patch index		Area-weighted patch area; Landscape division index; Effective mesh size
3 Radius of gyration		Shannon's diversity index; Modified Simpson's diversity index
4 Area-weighted shape index		Area-weighted fractal dimension index
5 Related circumscribing circle		
6 Perimeter-Area fractal dimension		
7 Area-weighted proximity index		
8 Area-weighted Euclidean nearest neighbor distance		
9 Contagion		
10 Interspersion juxtaposition index		
11 Connectance index		
12 Splitting index		
13 Patch richness		Patch richness density; Relative patch richness
14 Simpson's diversity index		
15 Shannon's evenness index		Simpson's evenness index; Modified Simpson's evenness index

Table 8.3 Boreal landscape metric groups where Pearson's correlation coefficient $|\rho| > 0.9$

Group	Representative	Other Group Members
1 Number of Patches		Patch density; Total edge; Landscape shape index; Area-weighted perimeter-area ratio; Area-weighted contiguity Index; Proportion of like adjacencies; Patch cohesion index; Aggregation index
2 Largest patch index		Area-weighted patch area; Landscape division index; Effective mesh size; Simpson's diversity index
3 Radius of gyration		Shannon's diversity index; Modified Simpson's diversity index
4 Area-weighted shape index		
5 Area-weighted fractal dimension index		
6 Related circumscribing circle		
7 Perimeter-Area fractal dimension		
8 Area-weighted proximity index		
9 Area-weighted Euclidean nearest neighbor distance		
10 Contagion		
11 Interspersion juxtaposition index		
12 Connectance index		
13 Splitting index		
14 Patch richness		Patch richness density; Relative patch richness
15 Shannon's evenness index		Simpson's evenness index; Modified Simpson's evenness index

Table 8.4 All landscape metric groups where Pearson's correlation coefficient $|\geq 0.9|$

Group	Representative	Other Group Members
1 Number of Patches		Patch density; Total edge; Landscape shape index; Area-weighted perimeter-area ratio; Area-weighted contiguity Index; Proportion of like adjacencies; Patch cohesion index; Aggregation index
2 Largest patch index		Area-weighted patch area; Landscape division index; Effective mesh size
3 Radius of gyration		Shannon's diversity index; Modified Simpson's diversity index
4 Area-weighted shape index		
5 Area-weighted fractal dimension index		
6 Related circumscribing circle		
7 Perimeter-Area fractal dimension		
8 Area-weighted proximity index		
9 Area-weighted Euclidean nearest neighbor distance		
10 Contagion		
11 Interspersion juxtaposition index		
12 Connectance index		
13 Splitting index		
14 Patch richness		Patch richness density; Relative patch richness
15 Simpson's diversity index		
16 Shannon's evenness index		Simpson's evenness index; Modified Simpson's evenness index