Table SI 1: The mean (%) difference (Tukey Post–Hoc Test) for landscape fragmentation for PLAND among land use.

	Bare soil	Bush land	Forest	Grassland	Urban	Water
Agriculture	0.4	-0.13	0.1	0.1	**0.5***	**0.5***
Bare soil		-0.53	-0.3	-0.3	0.1	0.1
Bushland			0.23	0.23	**0.63****	**0.63****
Forest				0	0.4	0.4
Grassland					0.4	0.4
Urban						0

*Note. Mean difference values with asterisk are statistically significant different at * p < 0.05, ** p <0.01*

Table SI 2: The mean (%) difference (Tukey Post–Hoc Test) for landscape fragmentation for LPI among land use.

	Bare soil	Bush land	Forest	Grassland	Urban	Water
Agriculture	1.73	-7.67	**-29.43*****	-0.4	1.73	1.73
Bare soil		-9.4	**-31.17****	-2.13	0	0
Bushland			**-21.77***	7.27	9.4	9.4
Forest				**29.03****	**31.17*****	**31.17*****
Grassland					2.13	2.13
Urban						0

Note. Mean difference values with asterisk are statistically significant different at * p < 0.05, ** p <0.01, *** p < 0.001

Table SI 3: The mean (Ha) difference (Tukey Post–Hoc Test) for landscape fragmentation for CA among land use.

	Bare soil	Bush land	Forest	Grassland	Urban	Water
Agriculture	22516.8	-36872.3	**-71267*****	-1244	23500	23116.33
Bare soil		**-59389.17***	**-93783.83*****	-23760.8	983.17	599.5
Bushland			-34394.67	35628.33	**60372.33****	**59988.67****
Forest				**70023****	**94767*****	**94383.33*****
Grassland					24744	24360.33
Urban						-383.67

Note. Mean difference values with asterisk are statistically significant different at * p < 0.05, ** p <0.01, *** p < 0.001

Table SI 4:The mean (Km^2) difference (Tukey Post–Hoc Test) for landscape fragmentation for PD among land use.

	Bare soil	Bush land	Forest	Grassland	Urban	Water
Agriculture	0.4	-0.13	0.1	0.1	**0.5***	**0.5***
Bare soil		-0.53	-0.3	-0.3	0.1	0.1
Bushland			0.23	0.23	**0.63****	**0.63****
Forest				0	0.4	0.4
Grassland					0.4	0.4
Urban						0

Note. Mean difference values with asterisk are statistically significant different at * p < 0.05, ** p <0.01

Table SI 5: The mean difference (Tukey Post–Hoc Test) for landscape fragmentation for NP among land use.

	Bare soil	Bushland	Forest	Grassland	Urban	Water
Agriculture	840.5	-313	232.33	174.33	985	928.67
Bare soil		-1153.5	-608.17	-666.17	144.5	88.17
Bushland			545.33	487.33	1298	**1241.67***
Forest				-58	752.67	696.33
Grassland					810.67	754.33
Urban						-56.33

Note. Mean difference values with asterisk are statistically significant different at * $p < 0.05$

Table SI 6: The mean (%) difference (Tukey Post–Hoc Test) for landscape fragmentation for IJI among land use.

	Bare soil	Bush land	Forest	Grassland	Urban	Water
Agriculture	-20.35	5.23	5.6	-2.77	-5.37	-10.13
Bare soil		25.58	25.95	17.58	14.98	10.22
Bushland			0.37	-8	-10.6	-15.37
Forest				-8.37	-10.97	-15.73
Grassland					-2.6	-7.37
Urban						-4.77