

Supplementary Materials

Table S1. Areas of expansion and contraction of land use/land cover changes in Petrolina between 2013 and 2019. Positive values indicate an expansion of the respective land cover, negative values a contraction. The values are in million hectares (Mha).

Classes	Changes	Arboreal Caatinga	Shrub Caatinga	Herbaceous Caatinga	Pasture	Agriculture	Mosaic	Urban area	Water bodies
Arboreal Caatinga	Expansion	0	0.04819	0.01059	0.00344	0.07325	0.11101	0.00009	0.04943
	Contraction	0	-0.12969	-0.00538	-0.03725	-0.00759	-0.04025	-0.00026	-0.41311
Shrub Caatinga	Expansion	0.12969	0	0.57757	1.16917	0.69077	1.29887	0.07747	0.06038
	Contraction	-0.04819	0	-3.67917	-1.51427	-0.10318	-1.61711	-0.00044	-0.03742
Herbaceous Caatinga	Expansion	0.00538	3.67917	0	5.25066	0.39497	5.32671	0.13219	0.02004
	Contraction	-0.01059	-0.57757	0	-3.16846	-0.09504	-5.47194	-0.00106	-0.00953
Pasture	Expansion	0.03725	1.51427	3.16846	0	2.49279	5.78982	0.22995	0.00291
	Contraction	-0.00344	-1.16917	-5.25066	0	-0.37607	-13.26448	-0.00115	-0.00053
Agriculture	Expansion	0.00759	0.10318	0.09504	0.37607	0	0.28842	0.06707	0.00177
	Contraction	-0.07325	-0.69077	-0.39497	-2.49279	0	-2.03984	-0.0015	-0.04457
Mosaic	Expansion	0.04025	1.61711	5.47194	13.26448	2.03984	0	0.47289	0.03381
	Contraction	-0.11101	-1.29887	-5.32671	-5.78982	-0.28842	0	-0.00432	-0.07262
Urban area	Expansion	0.00026	0.00044	0.00106	0.00115	0.0015	0.00432	0	0.00026
	Contraction	-0.00009	-0.07747	-0.13219	-0.22995	-0.06707	-0.47289	0	-0.00026
Water bodies	Expansion	0.41311	0.03742	0.00953	0.00053	0.04457	0.07262	0.00026	0
	Contraction	-0.04943	-0.06038	-0.02004	-0.00291	-0.00177	-0.03381	-0.00026	0