

**TABLE S3** | PCs up to the 3rd axis showing the eigenvalue, the percentage of individual variation, the percentage of accumulated variation performed for 23 local variables, for 12 land use variables (*i.e.*, forest, pasture, agriculture and urban use) of the 4 spatial scales (*i.e.*, 30, 60, and 90 m buffer, and catchment); and for 6 macroscale variables (*i.e.*, slope, 4 topsoil types and soil density). Bold: The highest values of accumulated variation up to the 3rd axis. The scores up to the third axis were used as an environmental matrix of local, land use and macro-scale variables in the RDAP analyses. Loading up to the third axis of local variables was used as limiting criteria for choosing the 16 local variables used in DistLM.

	PC	Eigenvalues	% Variation	% Accumulated Variation
<b>Local</b>				
	1	5.10	22.20	22.20
	2	3.76	16.30	38.50
	3	2.18	9.50	<b>48.00</b>
<b>Land use</b>				
S	1	2.70	67.60	67.60
	2	0.92	23.10	90.70
	3	0.26	6.50	<b>97.20</b>
M	1	2.66	66.50	66.50
	2	0.96	23.90	90.40
	3	0.28	7.00	<b>97.40</b>
L	1	2.72	67.90	67.90
	2	0.87	21.80	89.70
	3	0.32	8.10	<b>97.80</b>
T	1	2.76	69.00	69.00
	2	0.84	21.00	89.90
	3	0.28	6.90	<b>96.90</b>
<b>Macroscale</b>				
	1	2.21	36.90	36.90
	2	1.61	26.80	63.60
	3	1.23	20.40	<b>84.10</b>



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