clustering method	optimal number of clusters	penalization				
		0	0.25	0.5	1	2
median	175	0.77	0.74	0.70	0.63	0.50
Ward	139	0.83	0.80	0.77	0.72	0.61

Table 1: Optimal number of clusters and their purity values under the normalized entropy method for various used clustering methods. The complete linkage method and both implementations of ward D method seems to be the most successful in separating clusters according to their residences.