

Table 2) urban sprawling (km^2) using HBASE data

Cities	2010	2018	2030
Ankara	1000	1400	1800
Istanbul	1100	1300	1600
Mashhad	300	500	800
Tehran	700	1000	1200

Table 3) population status using WUP data

	Ankara	Istanbul	Mashhad	Tehran
	Population (Million people)			
2018	4.9	14.7	3.0	8.9
2030	5.9	17.1	3.7	10.3
	Population density (1000 people per km^2)			
2018	3.5	11.3	6.0	8.9
2030	3.3	10.7	4.6	4.7

Table 4) estimation of the environmental changes ΔY resulting from sprawling and its components in 2018 and 2030

	Ankara	Istanbul	Mashhad	Tehran
The ratio of sprawling to developable lands (Y/X)				
2018	0.40	0.37	0.14	0.29
2030	0.51	0.46	0.23	0.63
Environmental turbulence caused by sprawling (ΔX)				
2018	1.40	1.18	1.67	1.43
2030	1.80	1.45	2.67	3.14
Environmental changes indicator (ΔY)				
2018	0.56	0.44	0.24	0.41
2030	0.93	0.66	0.61	1.98

Table 5) daily distribution of the SWEAT index in the studied cities in 2018

	Ankara	Istanbul	Mashhad	Tehran
Index less than 1				
Day	337	309	361	349
Percentage	92.3	84.7	98.9	95.6
Index between 200 and 300				
Day	28	51	4	15
Percentage	7.7	13.9	1.1	4.1
Index more than 300				
Day	0	5	0	1
Percentage	0	1.4	0	0.3