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Japan International Cooperation Agency (JICA)  
Centre for Earthquake and Environmental Studies of Tehran (CEST)  
Tehran Municipality

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# The Study on Seismic Microzoning of the Greater Tehran Area in the Islamic Republic of Iran

Final Report  
Appendix 2 : Data for Social Conditions

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Greater Tehran Area in the Islamic Republic of Iran

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Appendix 2 : Data for  
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*Appendix I:*  
*1996 Statistics of each census zone within 22 municipal District of*  
*Tehran*



District No.	Zone No.	Area (sq ft)	Population	Pop. Dens (pop/sq ft)	No. of Buildings			Structure (Percentage of Structure)			Building Height (Number of Stories)							Building Height (Percentage of Stories)							Building Age (1985-1989)	Building Age (1990-1999)	Building Age (2000-2009)	Building Age (2010-2019)	Building Age (2020-2029)	Building Age (30+)	Length of Road (ft)																																																																								
					Shed (No.)	RC (No.)	Other (No.)	Shed (%)	RC (%)	Other (%)	Unknown (%)	ST1	ST2	ST3	ST4	ST5-15	Over ST15	ST1	ST2	ST3	ST4	ST5-15	Over ST15	Unknown								Unknown	Unknown	Unknown	Unknown	Unknown																																																																			
1	1069	5,911	1,384	234	333	225	77	52	4	64	20	15	0	12	4	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

Source: Statistics Center of New York  
 Note: \* Population density more than 600 persons/ha are marked in gray color  
 \* Percentage of structure in each census zone more than 60% are marked in gray color



District No.	Zone No.	Area (ha)	Population	Pop. Dens (p/h <sup>2</sup> )	No. of Buildings	Structures (No. of buildings)			Structure (Percentage of structures)		Building Height (Number of Stories)							Building Height (Percentage of Stories)			Building Age			Building Age (Percentage)			Length of Road (m)								
						Steel (No.)	RC (No.)	Others (No.)	Steel (%)	RC (%)	Others (%)	Unknown (%)	S11	S12	S13	S14	S15	Over S15	S11	S12	S13	S14	S15	Over S15	Building Age 1965	Building Age 1976-83		Building Age 1984-1988	Unknown						
2	2044	724	1711	236	498	222	4	264	45	1	53	7	1	184	177	78	33	33	15	7	0	5	213	102	65	74	1	62	28	13	15	0	1703		
2	2045	723	1743	240	368	164	3	205	41	1	53	3	1	132	178	75	22	0	31	0	0	6	63	205	67	32	2	18	63	11	9	1	1889		
2	2046	934	2404	257	656	484	30	128	71	3	20	1	236	173	129	22	0	184	0	184	0	32	159	219	109	142	6	24	37	16	21	1	2317		
2	2047	926	1747	186	484	117	6	367	31	23	1	75	0	203	119	73	21	0	63	0	63	0	12	80	281	61	87	3	13	59	13	14	1	2001	
2	2048	846	1831	216	474	164	35	269	37	35	1	57	0	203	119	73	21	0	63	0	63	0	12	80	281	61	87	3	13	59	13	14	1	2001	
2	2049	1419	2345	166	677	628	0	29	20	91	0	4	4	262	214	144	3	0	29	0	29	0	7	577	39	15	40	6	85	6	2	6	1	2047	
2	2050	1243	2445	196	756	298	110	311	30	39	15	42	7	272	173	129	22	0	37	0	37	0	5	264	129	73	254	16	38	17	10	34	2	2351	
2	2051	737	1814	246	488	276	55	151	31	11	31	2	10	122	171	142	14	0	21	0	21	0	28	215	177	60	4	6	44	36	12	2	1331		
2	2052	936	2163	232	628	186	25	402	31	4	68	0	7	297	142	66	47	0	186	1	186	0	3	53	310	132	114	0	9	51	22	18	0	2022	
2	2053	2211	1842	84	315	267	211	28	4	52	42	5	4	89	43	264	11	0	186	1	186	0	21	45	209	67	194	1	9	40	13	38	0	3720	
2	2054	781	1821	234	480	112	4	339	24	21	11	5	16	193	169	56	4	0	8	0	8	0	3	117	74	53	33	3	65	16	11	3	1720		
2	2055	831	1984	239	558	162	55	335	4	29	10	60	1	2	240	87	21	7	0	8	0	3	31	143	143	45	185	2	31	25	11	3	2084		
2	2056	1048	1499	141	499	345	68	72	6	70	14	15	9	74	64	139	23	0	34	2	34	0	7	28	109	70	72	2	31	22	37	15	0	2467	
2	2057	1048	1499	141	499	345	68	72	6	70	14	15	9	74	64	139	23	0	34	2	34	0	7	28	109	70	72	2	31	22	37	15	0	2467	
2	2058	836	1518	181	477	35	1	438	6	7	0	91	1	3	27	348	41	0	7	1	7	0	4	62	58	6	3	2	84	12	1	2	1	2780	
2	2059	536	1498	279	442	210	30	195	7	48	7	44	2	7	40	206	137	20	0	1	0	5	18	200	72	152	1	27	45	17	34	0	1433		
2	2060	972	1877	193	484	145	51	243	12	12	12	10	6	119	174	176	13	0	1	0	1	0	131	220	28	114	1	27	45	6	23	0	2066		
2	2061	1046	1551	145	463	478	0	4	1	18	0	1	0	105	94	165	13	0	1	0	1	0	20	64	196	94	118	17	13	39	20	24	4	2488	
2	2062	1046	1551	145	463	478	0	4	1	18	0	1	0	105	94	165	13	0	1	0	1	0	20	64	196	94	118	17	13	39	20	24	4	2488	
2	2063	1046	1551	145	463	478	0	4	1	18	0	1	0	105	94	165	13	0	1	0	1	0	20	64	196	94	118	17	13	39	20	24	4	2488	
2	2064	1046	1551	145	463	478	0	4	1	18	0	1	0	105	94	165	13	0	1	0	1	0	20	64	196	94	118	17	13	39	20	24	4	2488	
2	2065	742	1835	246	528	345	645	66	8	33	61	4	6	52	54	116	213	22	7	14	44	2	3	59	348	43	5	1	13	78	9	1	2351		
2	2066	742	1835	246	528	345	645	66	8	33	61	4	6	52	54	116	213	22	7	14	44	2	3	59	348	43	5	1	13	78	9	1	2351		
2	2067	860	1891	220	543	268	81	148	1	47	1	47	2	19	168	228	144	4	0	33	3	0	6	89	294	114	75	3	15	51	20	13	1	2059	
2	2068	789	1867	236	553	332	31	183	0	64	5	30	1	25	168	105	201	14	0	12	0	0	5	19	294	114	75	3	15	51	20	13	1	2059	
2	2069	835	1867	236	553	332	31	183	0	64	5	30	1	25	168	105	201	14	0	12	0	0	5	19	294	114	75	3	15	51	20	13	1	2059	
2	2070	865	1868	236	553	332	31	183	0	64	5	30	1	25	168	105	201	14	0	12	0	0	5	19	294	114	75	3	15	51	20	13	1	2059	
2	2071	810	1741	214	478	254	17	17	3	28	18	53	1	0	104	252	102	14	0	17	0	0	11	11	25	17	55	0	3	0	0	0	1	1722	
2	2072	3221	3380	105	410	243	142	67	17	52	30	14	2	4	99	49	24	18	0	16	0	0	3	11	82	248	110	18	3	13	53	23	6	1888	
2	2073	823	1834	222	483	181	51	231	2	4	56	3	7	4	18	148	253	47	11	0	4	0	4	31	53	110	60	4	0	0	0	0	1	1402	
2	2074	823	1834	222	483	181	51	231	2	4	56	3	7	4	18	148	253	47	11	0	4	0	4	31	53	110	60	4	0	0	0	0	1	1402	
2	2075	1719	3854	222	483	181	51	231	2	4	56	3	7	4	18	148	253	47	11	0	4	0	4	31	53	110	60	4	0	0	0	0	1	1402	
2	2076	789	1867	236	553	332	31	183	0	64	5	30	1	25	168	105	201	14	0	12	0	0	5	19	294	114	75	3	15	51	20	13	1	2059	
2	2077	831	1867	236	553	332	31	183	0	64	5	30	1	25	168	105	201	14	0	12	0	0	5	19	294	114	75	3	15	51	20	13	1	2059	
2	2078	831	1867	236	553	332	31	183	0	64	5	30	1	25	168	105	201	14	0	12	0	0	5	19	294	114	75	3	15	51	20	13	1	2059	
2	2079	1040	1871	178	478	254	17	17	3	28	18	53	1	0	104	252	102	14	0	17	0	0	11	11	25	17	55	0	3	0	0	0	1	1416	
2	2080	930	1863	201	450	315	45	35	0	89	4	0	2	28	52	115	10	18	0	289	2	0	2	6	10	22	29	3	0	3	0	0	0	1	1416
2	2081	930	1863	201	450	315	45	35	0	89	4	0	2	28	52	115	10	18	0	289	2	0	2	6	10	22	29	3	0	3	0	0	0	1	1416
2	2082	1184	3702	312	759	501	53	184	38	77	7	11	3	19	176	68	54	10	0	44	4	0	4	17	37	31	2	0	0	0	0	0	0	1	1933
2	2083	1184	3702	312	759	501	53	184	38	77	7	11	3	19	176	68	54	10	0	44	4	0	4	17	37	31	2	0	0	0	0	0	0	1	1933
2	2084	3765	5197	140	511	209	32	294	14	41	6	56	3	55	20	118	210	7	0	124	10	0	0	12	11	13	0	0	0	0	0	0	0	1	2834
2	2085	898	1879	209	449	1	1	4	1</																										













District No.	Zone No.	Area (sq)	Population	Pop Density (per sq mi)	No of Buildings	Structure (Percentage of structure)			Structure (Percentage of structure)			Building Height (Percentage of Stories)										Building Age (Percentage)			Length of Road (ft)
						Steel (%)	RC (%)	Others (%)	Steel (%)	RC (%)	Others (%)	S11	S12	S13	S14	S15-15	Over S15	Unknown	Under 1955	1955-75	1975-88	After 1988			
4	4087	30.26	1,871	62	RC (No)	RC (%)	Unknown (%)	Steel (%)	RC (%)	Others (%)	S11	S12	S13	S14	S15-15	Over S15	Unknown	Under 1955	1955-75	1975-88	After 1988	Length of Road (ft)			
4	4088	6.52	1,837	283	41	56	30	10	41	0	38	121	230	61	0	0	0	0	15	35	252	131	5,294		
4	4089	6.66	1,656	249	291	47	3	33	51	134	153	33	6	0	0	0	0	0	40	14	227	48	1,583		
4	4090	8.34	1,625	193	252	4	33	63	14	104	148	56	10	0	0	0	0	0	184	33	124	70	1,632		
4	4091	7.52	1,908	254	235	10	44	51	0	0	17	25	43	16	0	0	0	0	62	60	244	97	1,888		
4	4092	7.68	1,928	252	345	8	36	13	0	0	2	10	35	39	0	0	0	0	178	39	167	3	2,246		
4	4093	8.36	2,000	241	441	435	0	0	0	0	32	174	168	24	0	0	0	0	74	55	200	48	2,330		
4	4094	8.70	2,031	203	343	158	0	0	0	0	34	124	125	72	0	0	0	0	56	76	176	37	2,313		
4	4095	8.57	2,031	203	343	158	0	0	0	0	30	134	169	16	0	0	0	0	53	81	148	57	1,870		
4	4096	10.26	2,031	203	343	158	0	0	0	0	29	135	160	26	0	0	0	0	18	43	59	10	3,105		
4	4097	10.26	2,031	203	343	158	0	0	0	0	31	228	218	27	0	0	0	0	2	21	318	110	2,244		
4	4098	11.29	2,031	203	343	158	0	0	0	0	28	159	172	44	0	0	0	0	0	11	21	318	110	2,244	
4	4099	11.29	2,031	203	343	158	0	0	0	0	11	21	318	110	0	0	0	0	0	11	21	318	110	2,244	
4	4100	10.86	2,074	195	426	209	0	0	0	0	10	142	142	73	0	0	0	0	0	0	0	0	0	2,371	
4	4101	10.86	2,074	195	426	209	0	0	0	0	138	121	62	11	0	0	0	0	0	0	0	0	0	2,371	
4	4102	10.86	2,074	195	426	209	0	0	0	0	10	142	142	73	0	0	0	0	0	0	0	0	0	2,371	
4	4103	11.54	2,134	213	51	38	11	0	0	0	11	119	120	24	0	0	0	0	0	0	0	0	0	2,714	
4	4104	11.54	2,134	213	51	38	11	0	0	0	8	102	102	32	0	0	0	0	0	0	0	0	0	2,714	
4	4105	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4106	11.54	2,134	213	51	38	11	0	0	0	31	163	163	84	0	0	0	0	0	0	0	0	0	2,714	
4	4107	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4108	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4109	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4110	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4111	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4112	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4113	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4114	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4115	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4116	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4117	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4118	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4119	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4120	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4121	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4122	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4123	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4124	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4125	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4126	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4127	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4128	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4129	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	
4	4130	11.54	2,134	213	51	38	11	0	0	0	12	139	218	66	0	0	0	0	0	0	0	0	0	2,714	

Source: Statistics Center of Iran (1996)  
 Note: \*1 Population density more than 600 persons/ha are marked in gray color  
 \*2 Percentage of structure in each census zone more than 60% are marked in gray color





















Table with columns: District No., Zone No., Area (ha), Population, Pop Dens (pop/ha), No of Buildings, Steel (No), RC (No), RC (No), Steel (No), Unknown (No), Structures (Percentage of Structure), Other (No), Other (No), Building Height (Number of Storeys), Building Height (Percentage of Storeys), Building Age, Building Age (Percentage), Length of Road (m). Rows 1-50.

Sources: Statistics Center of Iran (1996)

Note: \* 1 Population density more than 600 persons/ha are marked in gray color

\* 2 Percentage of structure in each census zone more than 50% are marked in gray color













Table with columns: District No., Zone, Area (ha), Population, Pop Dens (ph/ha), No of Buildings, Structure (No of buildings), Structure (Percentage of structure), Building Height (Number of stories), Building Height (Percentage of stories), Building Age, Building Age (% average), and Length of Road (m). Rows 1-1000.

Source: Statistics Center of Iran (1996). Note: \*1: Population density more than 500 persons/ha are marked in gray color. \*2: Percentage of structure in each census zone more than 60% are marked in gray color.











District No.	Zone No.	Area (Sq.)	Population	Pop. Dens. (Pop/Sq.)	No. of Buildings	Structural (No. of buildings)			Structure (Percentage of Involutions)			Building Height (Number of Storeys)						Building Height (Percentage of Storeys)						Building Age				Length of Road (ft)		
						Steel (No.)	RC (No.)	Others (No.)	Steel (%)	RC (%)	Others (%)	Unknown (%)	S11	S12	S13	S14	S15-15	Over S15	S11	S12	S13	S14	S15-15	Over S15	Before 1925	1925-1935	1935-1945		1945-1955	After 1955
13	13001	8.78	13,917	225	70	8	445	10	13	2	83	2	15	261	133	26	0	36	3	60	25	5	0	2	305	114	50	57	7	2,411
13	13002	9.72	13,927	198	112	212	2	11	151	112	37	4	134	2	0	0	0	0	31	22	18	0	0	76	158	114	133	105	11	2,595
13	13003	7.40	13,931	263	42	484	7	6	130	131	44	10	54	7	0	0	0	0	46	25	9	2	0	10	150	233	47	73	2	2,272
13	13004	7.45	13,931	263	505	304	3	53	202	131	64	0	39	10	0	0	0	0	49	20	13	0	0	4	46	231	119	69	1	2,596
13	13005	8.49	2,014	237	518	89	2	413	2	19	6	0	20	10	0	0	0	0	37	18	15	2	0	15	44	234	122	73	4	3,139
13	13006	7.56	2,178	281	518	172	0	344	0	33	0	0	89	3	0	0	0	0	54	23	12	0	0	15	44	238	128	63	3	2,634
13	13007	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13008	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13009	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13010	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13011	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13012	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13013	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13014	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13015	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13016	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13017	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13018	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13019	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13020	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13021	10.10	1,574	272	380	140	0	380	4	28	0	0	11	3	0	0	0	0	39	26	12	0	0	19	44	238	128	63	3	2,634
13	13022	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13023	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13024	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13025	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13026	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13027	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13028	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13029	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132
13	13030	8.37	2,013	230	533	203	5	329	2	4	0	0	0	0	0	0	0	0	47	21	10	1	0	15	28	272	157	73	2	3,132

Source: Statistics Center of Iran (1996)  
Note: \*1. Population density more than 600 persons/ha are marked in gray color.  
\*2. Percentage of structures in each census zone more than 60% are marked in gray color.









