

## Quantitative Study Variables and Descriptive Statistics

	Variables	Variable Symbol	Unit	Min. Value	Max. Value	Mean	Median	Std. Dev.	Sources of Data
	<b>Demographic Variables</b>								
1	Motorization Rate	motorizationrate	%	27.9%	49.2%	37.460%	37.1%	5.605%	Indikatorenatlas
2	Percent of Population Under 18 Years of Age	under18	%	8.4%	20.5%	13.988%	13.5%	2.796%	Indikatorenatlas
3	Percent of Population Between 18 and 65 Years of Age	btwn1865	%	60.7%	79.5%	68.464%	67.6%	5.087%	Indikatorenatlas
4	Percent of Population Over 65 Years of Age	over65	%	11.3%	22.8%	17.548%	18.0%	3.180%	Indikatorenatlas
5	Percent of Households in the District with Children	hh.children	%	9.16%	26.07%	16.792%	15.96%	4.256%	Indikatorenatlas
6	Percent of Households which are Single Person Households	hh.single	%	38.58%	68.56%	53.694%	54.77%	8.626%	Indikatorenatlas
7	Unemployment Rate	unemployment	%	2.4%	5.4%	3.944%	3.8%	0.917%	Indikatorenatlas
8	Percent of Population Aged 15 to 65 receiving Unemployment Benefits (ALG 2)	ALG_15to65	%	2.4%	8.7%	5.260%	5.1%	1.689%	Indikatorenatlas
	<b>Density</b>								
9	Population Density	pop_density.dev	inh. / km² (dev. land)	3189.738	16437.827	8490.226	8088.998	3893.735	Statistisches Taschenbuch 2009
10	Job Density	job_density.dev	jobs / km² (dev. land)	553.706	17668.357	4018.294	2645.385	3752.820	Jahreszahlen, Arbeitsmarkt 2008 (München Statistisches Amt)
11	Employed Persons Density	emp_density.dev	employees / km² (dev. land)	1065.806	6140.826	3200.524	2870.044	1633.361	Jahreszahlen Archiv, 2008. Statistisches Taschenbuch 2009
12	Proportion of Developed Land of Total Land Area	devofrtotal	%	34.964%	94.619%	73.259%	73.723%	15.780%	Statistisches Taschenbuch 2009
13	"Altstadt"	altstadt	nominal (0 or 1)	0	1	NA	NA	NA	dummy variable, 1 for Altstadt-Lehel and 0 for every other district.
	<b>Diversity</b>								
14	Percent of Area of Infrastructure Facilities of Total Developed Area	infraofdev	%	17.910%	40.638%	28.388%	27.174%	5.495%	Statistisches Taschenbuch 2009
15	Percent of Area of All Buildings of Total Developed Area	bldgofdev	%	58.705%	77.315%	68.544%	70.188%	6.041%	Statistisches Taschenbuch 2009
16	Percent of Area of Residential Buildings of Total Developed Area	reso4dev	%	21.524%	60.479%	42.757%	43.853%	9.667%	Statistisches Taschenbuch 2009
17	Ratio of Health and Recreational Area to Total Developed Area	healthrectodev	ratio	0.0569	0.5167	0.2237	0.1947	0.1292	Statistisches Taschenbuch 2009
18	Ratio of Health & Recreational, Forest, and Water Areas to Total Developed Area	allgreentodev	ratio	0.0569	0.6750	0.2865	0.3001	0.1679	HOT Export Tool OSM Data
19	# of Offices and Administrative Buildings per Developed Area	offadmin_dev	offices / km²	0.111	29.030	6.976	3.421	8.289	HOT Export Tool OSM Data
20	# of Educational Facilities per Developed Area	educational_dev	education fac. / km²	0.997	12.441	4.052	2.737	3.221	HOT Export Tool OSM Data
21	# of All Stores and Shops per Developed Area	allshops_dev	all stores / km²	5.539	377.390	55.991	26.003	80.112	HOT Export Tool OSM Data
22	# of Shopping and Retail Stores per Developed Area	retailshopping_dev	shopping / km²	1.551	266.661	31.041	10.801	55.432	HOT Export Tool OSM Data
23	# of Bakeries and Cafes per Developed Area	bakeriescafes_dev	bakeries & cafes / km²	1.005	17.418	5.092	3.238	4.583	HOT Export Tool OSM Data
24	# of Restaurants, Cafes, & Bars per Developed Area	alleateries_dev	eateries / km²	1.994	165.471	32.009	12.601	42.802	HOT Export Tool OSM Data
25	# of Cultural and Social Facilities per Developed Area	culturalsocial_dev	rec. facilities / km²	0.185	14.930	2.484	1.079	3.570	HOT Export Tool OSM Data
26	# of All Food Stores per Developed Area	allfoodstores_dev	food stores / km²	1.329	43.130	8.311	4.444	9.235	HOT Export Tool OSM Data
27	# of Supermarkets per Developed Area	supermarkets_dev	supermarkets / km²	0.2215	8.6515	3.2586	2.4035	2.4034	HOT Export Tool OSM Data
28	Stores and Shops Diversity (1km)	avg_shoptypes1km	# of types of shops	8.620	106.230	39.215	31.100	25.775	HOT Export Tool OSM Data
29	Stores and Shops Diversity (3km)	avg_shoptypes3km	# of types of shops	32.360	197.280	106.988	102.230	45.453	HOT Export Tool OSM Data
30	Amenity Diversity (1km)	avg_amenitytypes1km	# of types of amenities	7.720	47.810	23.438	21.080	10.031	HOT Export Tool OSM Data
31	Amenity Diversity (3km)	avg_amenitytypes3km	# of types of amenities	25.950	82.560	51.048	47.940	16.285	HOT Export Tool OSM Data
32	Jobs-Housing Balance	jobs_housing11	ratio	0.1296	5.8752	1.1408	0.5078	1.4126	TUM Professor für Räumliche Modellierung & IndikatorenAtlas
	<b>Design</b>								
33	Kilometers of Cycling Infrastructure along Streets per Developed Land Area	cyclestreet_dev	km cycle street / km²	1.773	8.614	5.738	5.694	1.809	CoM & OSM
34	Kilometers of Cycle Paths in Green Areas or Parks per Developed Land Area	cyclegreen_dev	km green path / km²	0.000	3.207	1.267	1.084	0.882	CoM & OSM
35	Kilometers of Cycle Paths in Urban Green Areas per Developed Land Area	cycleugreen_dev	km urban green path / km²	0.000	1.803	0.736	0.594	0.543	CoM & OSM
36	Kilometers of Signposted Cycle Ways Developed per qkm	cyclespr_dev	km cycle route / km²	0.569	3.400	1.713	1.517	0.745	CoM & OSM
37	Meters of Cycleway Underpasses per Developed per qkm	cycleunder_dev	m / km²	4.196	487.533	123.664	96.303	103.859	CoM & OSM
38	Area of All Streets open to Cycling per Developed Land Area	allopenstreet_dev	m² / km²	495.540	65990.444	16879.622	11274.989	16906.366	CoM & OSM
39	Area of "Bicycle Streets" per Developed Land Area	fahrradstrasse_dev	m² / km²	0.000	21,373.152	4,048.444	1,689.074	5,716.863	CoM & OSM
40	Area of "Against One Way Streets" per Developed Land Area	contraflow_dev	m² / km²	187.095	57,399.466	11,898.414	7,438.934	13,553.115	CoM & OSM
41	Median Distance to a Park or Natural Area	med_parkdist	meters	104.450	215.310	144.568	129.610	34.326	HOT Export Tool OSM Data and GeoFabrik OSM Data
42	# of Bike Parking Points per Developed Land Area	bikeparking_dev	parking racks / km²	0.509	43.744	8.657	4.273	10.282	BBBike OSM Data
43	# of Bike Rental Points per Developed Land Area	bikerental_dev	sharing docks / km²	0.000	3.318	0.984	0.515	1.115	BBBike OSM Data
44	Intersection Density per Developed Land Area	int_density.dev	intersection points / km²	326.772	897.441	542.555	521.775	153.269	GeoFabrik & HOT Export Tool OSM Data
45	Average Block Length	avgblock	meters	88.500	171.671	123.882	121.788	19.173	GeoFabrik OSM Data
46	Average Street Speed Limit	avgspeed	km/h	35.000	44.000	40.920	41.000	2.499	GeoFabrik OSM Data
47	Percent of Roadways with a Speed Limit of 30 km/h or lower	share30kmh	%	30.658%	73.425%	49.964%	50.427%	11.012%	GeoFabrik OSM Data
48	Length of All Roadways per Land Area	roadways_area	km all roads / km²	4.989	15.465	10.663	10.568	2.921	GeoFabrik OSM Data
49	Length of Autobahn per Developed Land Area	autobahn_dev	km Autobahn / km²	0.000	3.576	0.595	0.227	0.884	GeoFabrik OSM Data
50	Length of Trunk & Primary Roadways per Developed Land Area	trunkprimary_dev	km Primary / km²	0.000	3,541.946	1,178.555	852.707	986.715	GeoFabrik OSM Data
51	Length of Secondary Roads per Developed Land Area	secondary_dev	km Secondary / km²	0.989	5.848	2.604	2.038	1.363	GeoFabrik OSM Data
52	Length of Tertiary Roads per Developed Land Area	tertiary_dev	km Tertiary / km²	0.000	1.933	0.794	0.792	0.432	GeoFabrik OSM Data
53	Length of Side Streets per Developed Land Area	sidestreets_dev	km Side Streets/ km²	6.460	12.219	8.932	8.567	1.578	GeoFabrik OSM Data
54	Length of Pedestrian Paths per Developed Land Area	pedway_dev	km Pedestrian / km²	7.319	26.810	17.009	17.257	4.960	GeoFabrik OSM Data
	<b>Destination Accessibility</b>								
55	Median Distance to the Altstadt	med_altstadtdist	meters	530.410	11,915.260	5,278.479	4,916.897	2,834.971	HOT Export Tool Data
56	Median Distance to the Isar	med_isardist	meters	599.424	8,056.417	3,421.574	2,547.401	2,372.027	HOT Export Tool Data
57	Median Distance to a "Stammstrecke" S-Bahn Station	med_stammsdist	meters	361.701	6,970.284	3,094.540	3,255.692	1,847.468	HOT Export Tool Data
58	Average Number of Offices and Administrative Bldgs within 1km of Residences	offadmin_1km	# of offices and admin bldgs	0.185	72.100	18.815	9.820	21.450	HOT Export Tool Data
59	Average Number of Offices and Administrative Bldgs within 3km of Residences	offadmin_3km	# of offices and admin bldgs	5.310	385.060	145.525	104.540	115.682	HOT Export Tool Data
60	Average Number of Educational Facilities within 1km of Residences	educational_1km	# of edu. facilities	2.490	27.390	10.762	8.080	7.718	HOT Export Tool Data
61	Average Number of Educational Facilities within 3km of Residences	educational_3km	# of edu. facilities	16.980	192.130	84.134	71.890	51.264	HOT Export Tool Data
62	Average Number of All Stores and Shops within 1km of Residences	allshops_1km	# of all shops	13.400	893.900	159.992	73.240	205.482	HOT Export Tool Data
63	Average Number of All Stores and Shops within 3km of Residences	allshops_3km	# of all shops	105.930	3,312.050	1,117.608	749.870	972.741	HOT Export Tool Data
64	Average Number of Retail and Shopping Facilities within 1km of Residences	retail_1km	# of retail facilities	3.730	625.070	89.852	29.950	140.839	HOT Export Tool Data
65	Average Number of Retail and Shopping Facilities within 3km of Residences	retail_3km	# of retail facilities	35.680	1,975.290	607.707	341.260	598.156	HOT Export Tool Data

66	Average Number of Bakeries and Cafes within 1km of Residences	bakeriescafes_1km	# of bakeries and cafes	2.600	46.060	14.394	10.030	12.212	HOT Export Tool Data
67	Average Number of Bakeries and Cafes within 3km of Residences	bakeriescafes_3km	# of bakeries and cafes	20.830	260.720	105.596	79.680	75.259	HOT Export Tool Data
68	Average Number of Eateries within 1km of Residences	eateries_1km	# of eateries	4.710	455.310	90.649	33.830	117.464	HOT Export Tool Data
69	Average Number of Eateries within 3km of Residences	eateries_3km	# of eateries	45.350	1,995.510	648.273	373.840	608.962	HOT Export Tool Data
70	Average Number of Cultural and Social Bldgs within 1km of Residences	culturalsocial_1km	# of cult. and soc. bldgs	0.560	43.130	7.121	2.440	10.347	HOT Export Tool Data
71	Average Number of Cultural and Social Bldgs within 3km of Residences	culturalsocial_3km	# of cult. and soc. bldgs	4.540	154.730	51.353	30.020	48.293	HOT Export Tool Data
72	Average Number of All Food Stores within 1km of Residences	allfoodstores_1km	# of all food stores	3.160	104.390	24.012	14.320	24.378	HOT Export Tool Data
73	Average Number of All Food Stores within 3km of Residences	allfoodstores_3km	# of all food stores	21.510	456.110	170.727	133.260	129.093	HOT Export Tool Data
74	Average Number of Supermarkets within 1km of Residences	super_1km	# of supermarkets	0.400	23.340	9.379	6.750	6.694	HOT Export Tool Data
75	Average Number of Supermarkets within 3km of Residences	super_3km	# of supermarkets	7.380	160.570	70.120	62.440	45.349	HOT Export Tool Data
Distance to Transit									
76	Median Distance to Nearest Bus Stop	med_busdist	meters	146.154	252.978	195.718	189.902	29.060	Mapzen OSM Data
77	Median Distance to Nearest Tram Stop	med_tramdist	meters	200.988	3,578.238	1,252.536	736.024	1,124.525	Mapzen OSM Data
78	Median Distance to Nearest U-Bahn Stop	med_ubahndist	meters	312.575	6,266.667	1,107.070	607.966	1,368.872	Mapzen OSM Data
79	Median Distance to Nearest S-Bahn Stop	med_sbahndist	meters	361.701	3,384.178	1,435.118	1,208.735	841.043	Mapzen OSM Data
80	Average Number of Bus Stops within 200m of Residences	busstops_200m	# of bus stops	0.790	2.070	1.264	1.260	0.330	Mapzen OSM Data
81	Average Number of Bus Stops within 400m of Residences	busstops_400m	# of bus stops	3.020	7.030	4.868	4.800	1.105	Mapzen OSM Data
82	Average Number of Bus Stops within 1km of Residences	busstops_1km	# of bus stops	15.680	37.500	28.007	28.470	5.840	Mapzen OSM Data
83	Average Number of Tram Stops within 200m of Residences	tramstops_200m	# of tram stops	0.000	0.560	0.152	0.080	0.168	Mapzen OSM Data
84	Average Number of Tram Stops within 400m of Residence	tramstops_400m	# of tram stops	0.000	2.200	0.566	0.360	0.611	Mapzen OSM Data
85	Average Number of Tram Stops within 1km of Residences	tramstops_1km	# of tram stops	0.000	13.320	3.502	2.560	3.731	Mapzen OSM Data
86	Average Number of U-Bahn Stations within 400m of Residences	ubahn_400m	# of U-Bahn stations	0.000	0.950	0.346	0.320	0.269	Mapzen OSM Data
87	Average Number of U-Bahn Stations within 1km of Residences	ubahn_1km	# of U-Bahn stations	0.000	5.700	1.920	1.760	1.482	Mapzen OSM Data
88	Average Number of U-Bahn Stations within 3km of Residences	ubahn_3km	# of U-Bahn stations	0.000	30.490	14.248	12.960	9.396	Mapzen OSM Data
89	Average Number of S-Bahn Stations within 400m of Residences	sbahn_400m	# of S-Bahn stations	0.000	0.610	0.095	0.070	0.123	Mapzen OSM Data
90	Average Number of S-Bahn Stations within 1km of Residences	sbahn_1km	# of S-Bahn stations	0.000	2.360	0.598	0.410	0.623	Mapzen OSM Data
91	Average Number of S-Bahn Stations within 3km of Residences	sbahn_3km	# of S-Bahn stations	0.660	8.740	4.333	3.950	2.236	Mapzen OSM Data
92	Bus Stop Density	bus_density	Bus stops / km² (dev.)	5.946	15.861	10.712	10.091	2.726	Mapzen OSM Data
93	Tram Stop Density	tram_density	Tram stops / km² (dev.)	0.000	5.391	1.313	0.807	1.500	Mapzen OSM Data
94	U-Bahn Stop Density	ubahn_density	U-Bahn stops / km² (dev.)	0.000	2.903	0.684	0.570	0.624	Mapzen OSM Data
95	S-Bahn Stop Density	sbahn_density	S-Bahn stops / km² (dev.)	0.000	1.442	0.302	0.153	0.403	Mapzen OSM Data