
ZUK - Residential Location Choice

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Travel Survey Metadata Series

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Abstract

As a part of the project “Infrastructure, Accessibility und Spatial Development” a household survey in the Greater Zurich area has been conducted in spring 2005. The aim of the survey was to collect data, which are a prerequisite for the planned development of a simulation of land use and transport for the Greater Zurich area and which could not be received for the project from other sources. Because of the data gaps with regard to real estate and land prices, the survey focussed on questions concerning location, equipment, condition and price of the dwelling unit.

The dataset provided here contains the chosen alternatives as well as non-chosen alternatives scanned from the web portal "comparis".

Keywords

Preferred citation style

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1.0 Document Description

Citation

Title:	Estimation data for residential location choice
Subtitle:	Dataset for non-chosen alternatives scanned from web portal "comparis"
Identification Number:	ZUK_hhlcmodel_comparis_06
Authoring Entity:	Michaela Bürgle (Michael Löchl)
Producer:	Institute for Transport Planning and Systems
Copyright:	Institute for Transport Planning and Systems
Date of Production:	2007-01-31
Software used in Production:	Nesstar Publisher
Distributor:	Institute for Transport Planning and Systems
Access Authority:	Michaela Bürgle
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2.0 Study Description

Citation

Title: ZUK - residential location choice (comparis)

Date of Production: 2007-01-31

Software used in
Production: Nesstar Publisher

3.0 File Description

File: ZUK_hhLocationChoice_comparis.NSDstat

- Contents of Files: Dataset for estimating discrete choice models for residential location choice (non-chosen alternatives)
- Number of cases: 18103
- No. of variables per record: 44
- Type of File: NSDstat 200203
- Place of File Production: Zurich

4.0 Variable Description

Variable Groups

- [Densities](#)
- [distances](#)
- [object properties](#)
- [municipality level](#)
- [transport characteristics](#)
- [environment](#)

Densities

Variables within *Densities*

- [x coordinate](#)
- [y coordinate](#)
- [Density of people per ha within 1km radius based on VZ00 data](#)
- [Density of children per ha within 1km radius based on VZ00 data](#)
- [Density of jobs per ha in second and third sector within 1km radius based on BZ01 data](#)
- [Density of people per ha within 500m radius based on VZ00 data](#)
- [Density of children per ha within 500m radius based on VZ00 data](#)
- [Density of jobs per ha in second and third sector within 500m radius based on BZ01 data](#)
- [Density of jobs per ha of type 5 \(hotels and catering\) within 500m radius based on BZ01 data](#)
- [number of households with size 1 in the km2 this hectare is in](#)
- [number of households with size 2 in the km2 this hectare is in](#)
- [number of households with size 3 in the km2 this hectare is in](#)
- [number of households with size 4 in the km2 this hectare is in](#)
- [number of households with size 5 in the km2 this hectare is in](#)
- [number of households with size 6 or larger in the km2 this hectare is in](#)

distances

Variables within *distances*

- [Auto ID](#)
- [distance to railstop \(km\)](#)
- [rail tracks within 50m](#)
- [distance to lake bigger than 1sqkm \(m\)](#)
- [distance to motorway access \(km\)](#)

- [motorway within 100m](#)
- [distance to street category 1 \(m\)](#)

object properties

Variables within *object properties*

- [square metres](#)
- [number of rooms](#)
- [monthly rent \(CHF\)](#)
- [as calculated by august 06 regression model](#)
- [year of offer](#)

municipality level

Variables within *municipality level*

- [hectare id](#)
- [Rate of people in municipality with university degree \(from Statweb\)](#)
- [Vacancy rate of rent residential units in municipality \(from Statweb\)](#)
- [Percentage of buildings built before 1971](#)
- [Federal tax revenue per capita in municipality](#)

transport characteristics

Variables within *transport characteristics*

- [Auto ID](#)
- [x coordinate](#)
- [Regional car accessibility index \(IV03 model\) to inhabitants \(VZ2000\)](#)
- [Regional car accessibility index \(IV03 model\) to employment \(BZ2001\)](#)
- [Regional public transport accessibility index \(OEV03 model\) to inhabitants \(VZ2000\)](#)
- [Regional public transport accessibility index \(OEV03 model\) to employment \(BZ2001\)](#)
- [Distance to CBD/Buerkliplatz \(Regional IV03 model\) \(m\)](#)
- [Driving time to CBD/Buerkliplatz \(Regional IV03 model\)](#)

environment

Variables within *environment*

- [y coordinate](#)
- [hectare id](#)
- [Noise Exposure Day \(16h\) \(dB\)](#)
- ["Beurteilungspegel" day \(dB\)](#)
- ["Beurteilungspegel" night \(dB\)](#)
- [Exposure by orientation \(North alignment = 0 to South alignment = 180\) based on DEM 25](#)
- [Slope in percent based on DEM 25](#)
- [Sun radiation index](#)

Variables

Variable: Auto ID

Location: *Range of Valid Data Values: 1 to 18103*

Width: 4

Summary Statistics:

Minimum : 1

Maximum : 18103

Variable Format: numeric

Variable: x coordinate

Location: *Range of Valid Data Values: 654275 to 713500*

Width: 9

Summary Statistics:

Minimum : 654275

Maximum : 713500

Variable Format: numeric

Variable: y coordinate

Location: *Range of Valid Data Values: 224930 to 274869*

Width: 9

Summary Statistics:

Minimum : 224930

Maximum : 274869

Variable Format: numeric

Variable: hectare id

Location:

Range of Valid Data Values: 65422489 to 71352364

Width: 11

Summary Statistics:

Minimum : 65422489

Maximum : 71352364

Variable Format: numeric

Variable: square metres

Location: *Range of Valid Data Values: 20 to 500*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 20

Maximum : 500

Mean : 108.088

Standard deviation : 51.647

Variable Format: numeric

Variable: number of rooms

Location: *Range of Valid Data Values: 0 to 970*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 970

Mean : 3.993

Standard deviation : 7.444

Variable Format: numeric

Variable: monthly rent (CHF)

Location: *Range of Valid Data Values: -1950 to 690790*

Width: 7 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : -1950

Maximum : 690790

Mean : 1868.394

Standard deviation : 6315.057

Variable Format: numeric

Variable: as calculated by august 06 regression model

Location: *Range of Valid Data Values: 15.21 to 32.75*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 15.21

Maximum : 32.75

Mean : 19.812

Standard deviation : 3.015

Variable Format: numeric

Variable: year of offer

Location:	Value	Label	Frequency
Width: 4	2003 .		32
	2004 .		6265
	2005 .		11806

Range of Valid Data Values: 2003 to 2005

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: distance to railstop (km)

Location: *Range of Valid Data Values: 0.07 to 4638.79*

Width: 7 *Range of Invalid Data Values: -1*

Summary Statistics:

Variable Format: numeric

Variable: rail tracks within 50m

Location:	Value	Label	Frequency
Width: 2	0 .	Rail tracks not near	10589
	1 .	Rail tracks near	5771
	-1 .		1743

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: distance to lake bigger than 1sqkm (m)

Location: *Range of Valid Data Values: 4.52 to 22903.89*

Width: 8 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 4.52

Maximum : 22903.89

Mean : 6708.517

Standard deviation : 5496.007

Variable Format: numeric

Variable: distance to motorway access (km)

Location: *Range of Valid Data Values: 0.01 to 11592.41*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.01

Maximum : 11592.41

Mean : 273.33

Standard deviation : 1127.674

Variable Format: numeric

Variable: motorway within 100m

Location:	Value	Label	Frequency
Width: 2	0 .	Motorway not near	16082
	1 .	Motorway near	278
	-1 .		1743

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: distance to street category 1 (m)

Location: *Range of Valid Data Values: 0.52 to 3486.67*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.52

Maximum : 3486.67

Mean : 318.883

Standard deviation : 405.645

Variable Format: numeric

Variable: Regional car accessibility index (IV03 model) to inhabitants (VZ2000)

Location: *Range of Valid Data Values: 27.07 to 182.7*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 27.07

Maximum : 182.7

Mean : 111.924

Standard deviation : 28.407

Variable Format: numeric

Variable: Regional car accessibility index (IV03 model) to employment (BZ2001)

Location: *Range of Valid Data Values: 12.81 to 235.87*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 12.81

Maximum : 235.87

Mean : 112.996

Standard deviation : 48.874

Variable Format: numeric

Variable: Regional public transport accessibility index (OEV03 model) to inhabitants (VZ2000)

Location: *Range of Valid Data Values: 1 to 721*

Width: 2 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 1

Maximum : 721

Mean : 72.72

Standard deviation : 99.813

Variable Format: numeric

Variable: Regional public transport accessibility index (OEV03 model) to employment (BZ2001)

Location: *Range of Valid Data Values: 1 to 667*

Width: 2 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 1

Maximum : 667

Mean : 69.931

Standard deviation : 104.109

Variable Format: numeric

Variable: Distance to CBD/Buerkliplatz (Regional IV03 model) (m)

Location: *Range of Valid Data Values: 1 to 39.19*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 1

Maximum : 39.19

Mean : 15.98

Standard deviation : 8.918

Variable Format: numeric

Variable: Driving time to CBD/Buerkliplatz (Regional IV03 model)

Location: *Range of Valid Data Values: 8 to 56*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 8

Maximum : 56

Mean : 29.492

Standard deviation : 8.808

Variable Format: numeric

Variable: Density of people per ha within 1km radius based on VZ00 data

Location: *Range of Valid Data Values: 0.05 to 144.27*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.05

Maximum : 144.27

Mean : 27.74

Standard deviation : 23.548

Variable Format: numeric

Variable: Density of children per ha within 1km radius based on VZ00 data

Location: *Range of Valid Data Values: 0.0094637228176 to 18.87*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.00946

Maximum : 18.87

Mean : 5.367

Standard deviation : 3.044

Variable Format: numeric

Variable: Density of jobs per ha in second and third sector within 1km radius based on BZ01 data

Location: *Range of Valid Data Values: 0 to 278.62*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 278.62

Mean : 18.118

Standard deviation : 33.389

Variable Format: numeric

Variable: Density of people per ha within 500m radius based on VZ00 data

Location: *Range of Valid Data Values: 0.18 to 210.88*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.18

Maximum : 210.88

Mean : 38.579

Standard deviation : 28.778

Variable Format: numeric

Variable: Density of children per ha within 500m radius based on VZ00 data

Location: *Range of Valid Data Values: 0.03 to 26.11*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.03

Maximum : 26.11

Mean : 7.598

Standard deviation : 3.792

Variable Format: numeric

Variable: Density of jobs per ha in second and third sector within 500m radius based on BZ01 data

Location: *Range of Valid Data Values: 0 to 436.11*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 436.11

Mean : 19.947

Standard deviation : 39.17

Variable Format: numeric

Variable: Density of jobs per ha of type 5 (hotels and catering) within 500m radius based on BZ01 data

Location: *Range of Valid Data Values: 0 to 54.75*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 54.75

Mean : 1.211

Standard deviation : 3.825

Variable Format: numeric

Variable: number of households with size 1 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 3	0 .		2410
	1 .		311
	2 .		225
	3 .		175
	4 .		107
	5 .		167
	6 .		72
	7 .		87
	8 .		146
	9 .		104
	10 .		200
	11 .		56
	12 .		232
	13 .		100
	14 .		72
	15 .		6
	16 .		241
	17 .		103
	18 .		75
	19 .		35
	20 .		29
	21 .		31
	22 .		3
	24 .		35
	25 .		8
	26 .		43
	27 .		65
	28 .		22
	29 .		88
	30 .		18
	31 .		4
	32 .		37
	33 .		40

34 .	102
35 .	42
36 .	21
37 .	10
38 .	61
39 .	30
40 .	123
41 .	77
42 .	137
43 .	79
44 .	1
45 .	72
46 .	72
47 .	19
48 .	118
49 .	7
50 .	24
51 .	64
52 .	72
53 .	11
54 .	14
55 .	103
56 .	45
58 .	5
59 .	19
60 .	110
61 .	61
62 .	20
63 .	41
65 .	37
66 .	4
67 .	1
69 .	13
70 .	5
71 .	1

73 .	36
75 .	59
76 .	43
77 .	13
78 .	23
79 .	29
80 .	13
83 .	26
84 .	36
85 .	26
86 .	11
87 .	1
88 .	13
90 .	52
93 .	39
95 .	23
96 .	28
97 .	10
98 .	57
99 .	68
100 .	72
101 .	62
102 .	49
106 .	59
107 .	7
110 .	33
111 .	87
113 .	61
114 .	8
117 .	6
118 .	97
120 .	22
122 .	13
123 .	22
124 .	28

126 .	19
127 .	49
131 .	2
133 .	184
134 .	49
135 .	18
136 .	67
137 .	18
142 .	25
143 .	6
148 .	8
150 .	61
156 .	17
158 .	42
161 .	72
162 .	4
168 .	31
171 .	1
172 .	56
173 .	2
174 .	54
175 .	67
176 .	51
177 .	1
178 .	26
179 .	58
184 .	24
186 .	30
187 .	43
190 .	25
195 .	47
197 .	5
198 .	5
200 .	13
201 .	40

202 .	78
206 .	23
209 .	7
210 .	67
211 .	66
213 .	53
220 .	20
222 .	28
223 .	26
224 .	32
225 .	53
226 .	7
231 .	85
232 .	109
233 .	7
235 .	15
236 .	57
240 .	12
243 .	124
244 .	19
247 .	64
248 .	27
250 .	77
252 .	24
254 .	78
259 .	54
266 .	207
269 .	78
270 .	14
272 .	48
273 .	4
276 .	11
279 .	6
281 .	68
288 .	22

297 .	13
298 .	18
301 .	7
302 .	33
304 .	7
316 .	119
321 .	9
323 .	33
326 .	44
327 .	46
330 .	69
331 .	17
333 .	28
335 .	13
339 .	5
346 .	9
347 .	5
352 .	14
353 .	17
354 .	16
355 .	91
359 .	7
361 .	94
366 .	10
367 .	57
373 .	12
375 .	75
397 .	101
399 .	32
405 .	121
410 .	14
412 .	39
413 .	25
416 .	14
420 .	20

421 .	25
424 .	52
430 .	46
433 .	47
434 .	24
441 .	17
445 .	91
451 .	31
492 .	43
494 .	59
495 .	26
507 .	90
508 .	47
509 .	1
519 .	34
523 .	53
524 .	3
527 .	32
534 .	57
551 .	6
559 .	15
561 .	75
565 .	33
568 .	2
571 .	83
573 .	22
588 .	98
591 .	64
596 .	14
598 .	125
601 .	19
615 .	58
616 .	39
617 .	23
624 .	35

625 .	18
636 .	15
659 .	35
661 .	8
670 .	66
671 .	48
672 .	68
674 .	101
694 .	60
698 .	89
708 .	60
747 .	13
784 .	47
802 .	61
837 .	36
846 .	38
886 .	2
892 .	24
896 .	95
909 .	32
913 .	115
966 .	27
968 .	42
983 .	149
1004 .	54
1036 .	12
1047 .	92
1059 .	57
1068 .	37
1076 .	33
1088 .	21
1092 .	119
1099 .	69
1108 .	57
1109 .	84

1133 .	130
1188 .	6
1199 .	155
1234 .	28
1248 .	23
1260 .	11
1269 .	66
1274 .	62
1302 .	157
1313 .	64
1325 .	109
1339 .	36
1419 .	114
1522 .	90
1654 .	4
1881 .	69
1998 .	35
2009 .	64
2191 .	71
2299 .	89
2527 .	83
2536 .	55
2551 .	51
2565 .	89
2590 .	76
2883 .	124
3192 .	24
3650 .	122
3664 .	155
3783 .	102
4078 .	31
5282 .	111

Range of Valid Data Values: 0 to 5282

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 2 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 3	0 .		2157
	1 .		330
	2 .		275
	3 .		169
	4 .		196
	5 .		84
	6 .		49
	7 .		119
	8 .		153
	9 .		21
	10 .		66
	11 .		10
	12 .		97
	13 .		30
	14 .		2
	15 .		52
	16 .		15
	17 .		19
	18 .		57
	19 .		161
	20 .		100
	21 .		108
	22 .		53
	23 .		39
	24 .		11
	25 .		49
	26 .		95
	27 .		49
	28 .		97
	29 .		121
	31 .		114
	32 .		27
	33 .		27

34 .	42
36 .	56
37 .	12
38 .	42
39 .	21
40 .	8
41 .	56
42 .	93
43 .	42
44 .	70
45 .	86
46 .	39
48 .	67
49 .	38
51 .	31
52 .	79
53 .	15
54 .	109
55 .	41
56 .	59
57 .	35
58 .	15
59 .	39
60 .	31
63 .	39
64 .	49
65 .	31
66 .	87
67 .	29
68 .	13
69 .	6
71 .	19
73 .	26
74 .	46
75 .	4

76 .	59
77 .	30
78 .	41
79 .	122
80 .	70
82 .	68
84 .	18
85 .	20
89 .	17
90 .	33
91 .	34
93 .	16
94 .	44
95 .	5
96 .	21
97 .	18
98 .	130
100 .	17
101 .	19
102 .	30
104 .	3
105 .	44
106 .	22
107 .	9
109 .	5
110 .	32
111 .	104
113 .	34
115 .	53
116 .	28
117 .	29
128 .	51
129 .	8
131 .	35
134 .	14

135 .	21
136 .	18
137 .	49
138 .	27
139 .	3
142 .	24
143 .	60
145 .	1
147 .	3
148 .	1
149 .	18
151 .	8
152 .	95
153 .	33
155 .	19
156 .	1
157 .	138
158 .	4
160 .	28
161 .	49
164 .	45
165 .	37
168 .	26
169 .	45
170 .	18
173 .	39
174 .	55
176 .	18
178 .	17
179 .	2
182 .	55
187 .	24
190 .	13
191 .	150
192 .	10

193 .	89
195 .	68
197 .	49
199 .	141
200 .	6
201 .	2
205 .	28
206 .	73
207 .	8
208 .	34
211 .	13
212 .	31
217 .	37
218 .	5
220 .	31
221 .	96
222 .	16
224 .	54
226 .	114
228 .	116
231 .	20
233 .	55
238 .	138
241 .	16
244 .	7
246 .	4
248 .	73
252 .	1
253 .	9
257 .	3
258 .	4
260 .	23
262 .	37
267 .	101
268 .	64

271 .	154
273 .	11
277 .	65
279 .	26
282 .	35
283 .	42
285 .	101
287 .	85
288 .	140
289 .	91
291 .	115
293 .	35
294 .	19
296 .	48
298 .	22
299 .	47
301 .	18
303 .	12
305 .	22
310 .	28
315 .	40
316 .	43
322 .	57
323 .	7
325 .	56
328 .	26
330 .	28
331 .	130
335 .	22
336 .	14
338 .	26
339 .	41
350 .	132
352 .	33
355 .	10

358 .	60
364 .	18
371 .	76
374 .	32
377 .	11
378 .	57
386 .	31
390 .	32
391 .	6
393 .	98
395 .	52
396 .	39
397 .	17
398 .	19
400 .	61
404 .	17
409 .	1
412 .	5
413 .	5
415 .	109
422 .	25
435 .	17
437 .	5
443 .	12
444 .	88
446 .	13
448 .	24
455 .	46
464 .	2
467 .	37
468 .	30
477 .	5
480 .	32
482 .	17
495 .	2

498 .	75
501 .	11
503 .	68
506 .	59
516 .	25
517 .	33
528 .	27
537 .	69
538 .	34
544 .	3
555 .	57
559 .	15
576 .	6
577 .	3
578 .	60
580 .	8
581 .	23
582 .	19
587 .	113
588 .	60
601 .	155
606 .	125
615 .	23
619 .	46
620 .	18
630 .	130
632 .	34
634 .	64
644 .	48
651 .	36
653 .	48
655 .	32
667 .	8
671 .	42
677 .	83

681 .	92
684 .	38
692 .	22
733 .	21
734 .	12
741 .	89
748 .	61
784 .	24
787 .	33
804 .	95
811 .	149
821 .	36
828 .	37
841 .	58
857 .	66
869 .	25
873 .	28
876 .	119
878 .	21
880 .	108
887 .	84
888 .	157
890 .	6
902 .	4
910 .	69
980 .	114
994 .	62
1024 .	35
1032 .	11
1068 .	76
1111 .	57
1147 .	71
1165 .	64
1303 .	89
1309 .	62

1316 .	69
1356 .	122
1449 .	69
1486 .	55
1557 .	102
1562 .	62
1605 .	64
1711 .	24
1718 .	89
1823 .	83
1902 .	155
2112 .	31
2174 .	111

Range of Valid Data Values: 0 to 2174

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 3 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 3	0 .		2422
	1 .		413
	2 .		193
	3 .		239
	4 .		120
	5 .		92
	6 .		119
	7 .		200
	8 .		110
	9 .		63
	10 .		138
	11 .		132
	12 .		32
	13 .		145
	14 .		38
	15 .		190
	16 .		121
	17 .		185
	18 .		157
	19 .		96
	20 .		19
	21 .		157
	22 .		113
	23 .		52
	24 .		174
	25 .		138
	26 .		60
	27 .		25
	28 .		25
	29 .		31
	30 .		32
	31 .		90
	32 .		30

33 .	13
34 .	10
35 .	106
36 .	3
37 .	86
38 .	46
39 .	65
40 .	88
41 .	84
42 .	51
43 .	26
44 .	172
45 .	76
46 .	47
47 .	4
49 .	256
50 .	66
51 .	2
52 .	29
53 .	44
54 .	12
55 .	65
56 .	23
57 .	62
58 .	21
59 .	151
60 .	63
61 .	2
62 .	27
63 .	40
64 .	101
65 .	84
66 .	34
67 .	82
68 .	17

69 .	152
70 .	13
71 .	43
73 .	11
74 .	114
75 .	41
76 .	52
77 .	115
78 .	18
79 .	27
80 .	5
81 .	38
82 .	93
83 .	97
84 .	96
85 .	91
86 .	13
87 .	39
88 .	114
89 .	103
90 .	93
91 .	8
92 .	3
93 .	13
94 .	19
95 .	25
96 .	10
97 .	85
98 .	6
99 .	17
100 .	55
101 .	40
102 .	47
103 .	101
104 .	9

105 .	72
106 .	86
107 .	113
109 .	121
111 .	26
112 .	32
113 .	3
114 .	65
116 .	3
117 .	89
118 .	68
119 .	35
121 .	43
123 .	52
124 .	14
125 .	34
126 .	45
128 .	91
129 .	181
130 .	38
131 .	21
132 .	64
133 .	31
134 .	117
135 .	37
136 .	52
137 .	17
140 .	170
141 .	47
142 .	43
144 .	153
146 .	99
147 .	1
151 .	36
152 .	7

155 .	39
156 .	111
157 .	71
159 .	83
162 .	60
164 .	66
165 .	25
167 .	135
169 .	119
170 .	250
178 .	18
179 .	62
180 .	140
181 .	23
182 .	52
187 .	6
190 .	52
192 .	46
193 .	17
195 .	8
198 .	74
200 .	110
201 .	43
206 .	15
210 .	37
211 .	57
212 .	28
213 .	11
215 .	5
219 .	74
224 .	66
225 .	14
227 .	25
228 .	1
239 .	21

240 .	12
243 .	3
245 .	48
246 .	119
248 .	30
251 .	38
253 .	23
254 .	57
256 .	18
258 .	205
262 .	33
265 .	21
267 .	92
268 .	51
274 .	12
275 .	125
277 .	184
279 .	6
293 .	114
294 .	95
295 .	90
298 .	34
299 .	64
300 .	168
308 .	66
310 .	69
313 .	36
315 .	28
317 .	37
318 .	121
319 .	4
333 .	89
334 .	154
335 .	119
337 .	61

355 .	122
375 .	69
383 .	62
386 .	76
392 .	25
398 .	64
412 .	114
418 .	11
434 .	58
437 .	62
444 .	69
448 .	89
490 .	102
519 .	89
525 .	55
537 .	57
572 .	83
575 .	24
586 .	64
595 .	155
723 .	31
819 .	111

Range of Valid Data Values: 0 to 819

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 4 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 3	0 .		2425
	1 .		263
	2 .		195
	3 .		208
	4 .		204
	5 .		142
	6 .		102
	7 .		123
	8 .		153
	9 .		39
	10 .		97
	11 .		26
	12 .		222
	13 .		38
	14 .		252
	15 .		163
	16 .		106
	17 .		75
	18 .		26
	19 .		155
	20 .		75
	21 .		69
	22 .		139
	23 .		93
	24 .		71
	25 .		172
	26 .		26
	27 .		43
	28 .		1
	29 .		79
	30 .		115
	31 .		177
	32 .		67

33 .	57
34 .	50
35 .	5
36 .	28
37 .	25
38 .	75
39 .	47
40 .	29
41 .	29
42 .	70
43 .	43
44 .	133
45 .	91
46 .	36
47 .	20
48 .	148
49 .	129
50 .	41
51 .	31
53 .	102
54 .	29
55 .	136
56 .	114
57 .	54
58 .	89
59 .	126
60 .	37
61 .	62
63 .	59
65 .	180
66 .	45
67 .	13
69 .	2
70 .	40
71 .	132

72 .	78
73 .	19
74 .	63
75 .	65
76 .	12
77 .	1
78 .	28
79 .	21
80 .	17
81 .	8
82 .	91
83 .	73
84 .	70
85 .	74
86 .	137
87 .	67
88 .	67
89 .	10
90 .	13
91 .	17
92 .	211
93 .	23
94 .	100
95 .	17
96 .	121
97 .	5
100 .	103
101 .	42
102 .	109
103 .	192
104 .	42
105 .	17
106 .	58
107 .	9
109 .	46

110 .	36
111 .	273
112 .	48
113 .	98
114 .	63
115 .	99
116 .	161
117 .	17
118 .	41
119 .	8
120 .	41
121 .	84
123 .	150
124 .	69
125 .	9
127 .	11
130 .	103
131 .	22
134 .	25
135 .	24
136 .	58
139 .	95
141 .	107
143 .	31
144 .	46
145 .	87
147 .	38
148 .	68
150 .	28
151 .	78
152 .	36
153 .	32
154 .	7
155 .	31
156 .	38

157 .	231
160 .	39
162 .	57
163 .	66
164 .	52
167 .	67
169 .	132
170 .	46
175 .	22
176 .	37
177 .	32
178 .	81
180 .	39
184 .	98
186 .	57
187 .	4
188 .	5
189 .	43
190 .	35
191 .	151
192 .	34
195 .	11
196 .	58
197 .	119
200 .	3
201 .	4
202 .	122
205 .	32
206 .	16
207 .	92
208 .	62
210 .	56
211 .	48
212 .	12
214 .	46

216 .	23
218 .	168
220 .	72
223 .	75
224 .	76
225 .	60
231 .	17
233 .	25
235 .	12
237 .	1
238 .	37
239 .	36
240 .	30
241 .	92
243 .	343
248 .	14
251 .	66
253 .	95
255 .	4
259 .	27
261 .	18
264 .	114
267 .	34
268 .	5
269 .	69
271 .	102
272 .	62
277 .	28
280 .	69
282 .	24
287 .	76
290 .	69
291 .	89
293 .	83
294 .	28

302 .	6
305 .	149
306 .	89
317 .	64
318 .	61
333 .	119
342 .	64
370 .	55
371 .	11
385 .	83
388 .	155
389 .	24
399 .	89
410 .	58
437 .	64
458 .	25
460 .	57
475 .	111
486 .	31

Range of Valid Data Values: 0 to 486

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 5 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 2	0 .		2741
	1 .		552
	2 .		507
	3 .		372
	4 .		329
	5 .		492
	6 .		254
	7 .		242
	8 .		136
	9 .		345
	10 .		481
	11 .		377
	12 .		339
	13 .		235
	14 .		289
	15 .		159
	16 .		303
	17 .		103
	18 .		388
	19 .		293
	20 .		95
	21 .		184
	22 .		376
	23 .		202
	24 .		303
	25 .		136
	26 .		253
	27 .		91
	28 .		77
	29 .		204
	30 .		85
	31 .		112
	32 .		278

33 .	325
34 .	219
35 .	180
36 .	181
37 .	92
38 .	175
39 .	139
40 .	411
41 .	91
42 .	106
43 .	365
44 .	184
45 .	43
46 .	47
47 .	135
48 .	1
49 .	91
50 .	98
51 .	220
52 .	273
53 .	176
54 .	221
55 .	25
56 .	18
57 .	317
58 .	177
59 .	38
60 .	69
61 .	72
62 .	81
63 .	34
64 .	133
65 .	39
66 .	131
67 .	181

71 .	122
72 .	12
73 .	12
74 .	4
75 .	224
76 .	286
77 .	35
78 .	4
81 .	119
86 .	28
90 .	61
93 .	102
98 .	64
104 .	82
106 .	119
107 .	6
108 .	31
110 .	89
111 .	89
122 .	25
125 .	57
135 .	111

Range of Valid Data Values: 0 to 135

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 6 or larger in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 1	0 .		4042
	1 .		4215
	2 .		1964
	3 .		2434
	4 .		1392
	5 .		735
	6 .		738
	7 .		458
	8 .		482
	9 .		326
	10 .		562
	11 .		124
	12 .		102
	13 .		1
	14 .		59
	16 .		92
	18 .		98
	19 .		25
	25 .		119
	26 .		135

Range of Valid Data Values: 0 to 26

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Noise Exposure Day (16h) (dB)

Location: *Range of Valid Data Values: 30 to 70*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 30

Maximum : 70

Mean : 44.694

Standard deviation : 8.971

Variable Format: numeric

Variable: "Beurteilungspegel" day (dB)

Location: *Range of Valid Data Values: 0 to 88.6*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 88.6

Mean : 6.563

Standard deviation : 21.48

Variable Format: numeric

Variable: "Beurteilungspegel" night (dB)

Location: *Range of Valid Data Values: 0 to 87*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 87

Mean : 6.321

Standard deviation : 20.725

Variable Format: numeric

**Variable: Exposure by orientation (North alignment = 0 to South alignment = 180)
based on DEM 25**

Location: *Range of Valid Data Values: 0 to 180*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 180

Mean : 90.098

Standard deviation : 50.438

Variable Format: numeric

Variable: Slope in percent based on DEM 25

Location: *Range of Valid Data Values: 0 to 30.03*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 30.03

Mean : 4.007

Standard deviation : 3.745

Variable Format: numeric

Variable: Sun radiation index

Location: *Range of Valid Data Values: 53 to 122.55*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 53

Maximum : 122.55

Mean : 89.047

Standard deviation : 6.561

Variable Format: numeric

Variable: Rate of people in municipality with university degree (from Statweb)

Location: *Range of Valid Data Values: 0 to 19.22*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 19.22

Mean : 7.751

Standard deviation : 4.17

Variable Format: numeric

Variable: Vacancy rate of rent residential units in municipality (from Statweb)

Location: *Range of Valid Data Values: 0 to 12.19*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 12.19

Mean : 1.043

Standard deviation : 1.203

Variable Format: numeric

Variable: Percentage of buildings built before 1971

Location: *Range of Valid Data Values: 15.54 to 79.61*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 15.54

Maximum : 79.61

Mean : 58.056

Standard deviation : 16.292

Variable Format: numeric

Variable: Federal tax revenue per capita in municipality

Location: *Range of Valid Data Values: 570.59 to 6853.68*

Width: 7 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 570.59

Maximum : 6853.68

Mean : 1385.405

Standard deviation : 1002.542

Variable Format: numeric

1.0 Document Description

Citation

Title:	Estimation data for residential location choice
Subtitle:	Dataset for chosen alternatives (household survey)
Identification Number:	ZUK_hhlcmodel_survey_06
Authoring Entity:	Michaela Bürgle (Michael Löchl)
Producer:	Institute for Transport Planning and Systems
Copyright:	Institute for Transport Planning and Systems
Date of Production:	2007-01-31
Software used in Production:	Nesstar Publisher
Distributor:	Institute for Transport Planning and Systems
Access Authority:	Michaela Bürgle
Depositor:	Institute for Transport Planning and Systems

2.0 Study Description

Citation

Title:	ZUK - residential location choice (survey)
Authoring Entity:	Michael Löchl (Michaela Bürgle)
Date of Production:	2007-01-31
Software used in Production:	Nesstar Publisher

3.0 File Description

File: ZUK_hhLocationChoice_survey.NSDstat

- Contents of Files: Dataset for estimating discrete choice models for residential location choice (chosen alternatives)
- Number of cases: 1907
- No. of variables per record: 56
- Type of File: NSDstat 200203
- Place of File Production: Zurich

4.0 Variable Description

Variable Groups

- [densities](#)
- [distances](#)
- [object properties](#)
- [municipality level](#)
- [transport characteristics](#)
- [environment](#)
- [socioeconomics](#)

densities

Variables within *densities*

- [x coordinate](#)
- [y coordinate](#)
- [Density of people per ha within 1km radius based on VZ00 data](#)
- [Density of children per ha within 1km radius based on VZ00 data](#)
- [Density of jobs per ha in second and third sector within 1km radius based on BZ01 data](#)
- [Density of people per ha within 500m radius based on VZ00 data](#)
- [Density of children per ha within 500m radius based on VZ00 data](#)
- [Density of jobs per ha in second and third sector within 500m radius based on BZ01 data](#)
- [Density of jobs per ha of type 5 \(hotels and catering\) within 500m radius based on BZ01 data](#)
- [number of households with size 1 in the km2 this hectare is in](#)
- [number of households with size 2 in the km2 this hectare is in](#)
- [number of households with size 3 in the km2 this hectare is in](#)
- [number of households with size 4 in the km2 this hectare is in](#)
- [number of households with size 5 in the km2 this hectare is in](#)
- [number of households with size 6 or larger in the km2 this hectare is in](#)

distances

Variables within *distances*

- [Auto ID](#)
- [distance to railstop \(km\)](#)
- [rail tracks within 50m](#)
- [distance to lake bigger than 1sqkm \(m\)](#)

- [distance to motorway access \(km\)](#)
- [motorway within 100m](#)
- [distance to street category 1 \(m\)](#)

object properties

Variables within *object properties*

- [square metres](#)
- [number of rooms](#)
- [monthly rent \(CHF\)](#)
- [as calculated by august 06 regression model](#)
- [year of offer](#)

municipality level

Variables within *municipality level*

- [hectare id](#)
- [Rate of people in municipality with university degree \(from Statweb\)](#)
- [Vacancy rate of rent residential units in municipality \(from Statweb\)](#)
- [Percentage of buildings built before 1971](#)
- [Federal tax revenue per capita in municipality](#)

transport characteristics

Variables within *transport characteristics*

- [Auto ID](#)
- [x coordinate](#)
- [Regional car accessibility index \(IV03 model\) to inhabitants \(VZ2000\)](#)
- [Regional car accessibility index \(IV03 model\) to employment \(BZ2001\)](#)
- [Regional public transport accessibility index \(OEVO3 model\) to inhabitants \(VZ2000\)](#)
- [Regional public transport accessibility index \(OEVO3 model\) to employment \(BZ2001\)](#)
- [Distance to CBD/Buerkliplatz \(Regional IV03 model\) \(m\)](#)
- [Driving time to CBD/Buerkliplatz \(Regional IV03 model\)](#)

environment

Variables within *environment*

- [y coordinate](#)
- [hectare id](#)
- [Noise Exposure Day \(16h\) \(dB\)](#)
- ["Beurteilungspegel" day \(dB\)](#)
- ["Beurteilungspegel" night \(dB\)](#)
- [Exposure by orientation \(North alignment = 0 to South alignment = 180\) based on DEM 25](#)
- [Slope in percent based on DEM 25](#)
- [Sun radiation index](#)

socioeconomics

Variables within *socioeconomics*

- [hectare id](#)
- [square metres](#)
- [Household income \(CHF\)](#)
- [Number of household members](#)
- [Number of children in household](#)
- [Number of children under age 12 in household](#)
- [Number of employed in household](#)
- [Is there a workplace for the household](#)
- [Are there cars in the household](#)
- [Is there a pt abo in the household](#)
- [Is the head of household under 35 and are there no children](#)
- [Is the head of household at least 65 and are there no children](#)
- [x coordinate of first workplace](#)
- [y coordinate of first workplace](#)

Variables

Variable: Auto ID

Location:

Range of Valid Data Values: 1 to 1907

Width: 5

Summary Statistics:

Minimum : 1

Maximum : 1907

Variable Format: numeric

Variable: x coordinate

Location: *Range of Valid Data Values: 654307 to 713092*

Width: 9

Summary Statistics:

Minimum : 654307

Maximum : 713092

Variable Format: numeric

Variable: y coordinate

Location: *Range of Valid Data Values: 225639 to 267383*

Width: 9 **Summary Statistics:**

Minimum : 225639

Maximum : 267383

Variable Format: numeric

Variable: hectare id

Location:

Range of Valid Data Values: 65432488 to 71302369

Width: 11

Summary Statistics:

Minimum : 65432488

Maximum : 71302369

Variable Format: numeric

Variable: square metres

Location: *Range of Valid Data Values: 20 to 450*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 20

Maximum : 450

Mean : 106.6

Standard deviation : 53.829

Variable Format: numeric

Variable: number of rooms

Location:	Value	Label	Frequency
Width: 5	-1 .		1907

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: monthly rent (CHF)

Location: *Range of Valid Data Values: 200 to 6050*

Width: 7 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 200

Maximum : 6050

Mean : 1443.508

Standard deviation : 567.624

Variable Format: numeric

Variable: as calculated by august 06 regression model

Location: *Range of Valid Data Values: 15.91 to 28.67*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 15.91

Maximum : 28.67

Mean : 19.473

Standard deviation : 2.221

Variable Format: numeric

Variable: year of offer

Location:	Value	Label	Frequency
Width: 4	2000 .		316
	2001 .		328
	2002 .		365
	2003 .		418
	2004 .		347
	2005 .		32
	Sysmiss .		101

Range of Valid Data Values: 2000 to 2005

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: distance to railstop (km)

Location: *Range of Valid Data Values: 0.07 to 3923.05*

Width: 7 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.07

Maximum : 3923.05

Mean : 128.368

Standard deviation : 438.967

Variable Format: numeric

Variable: rail tracks within 50m

Location:	Value	Label	Frequency
Width: 2	0 .	no railtracks near	1399
	1 .	railtracks near	246
	-1 .		262

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: distance to lake bigger than 1sqkm (m)

Location: *Range of Valid Data Values: 14.28 to 20577.82*

Width: 8 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 14.28

Maximum : 20577.82

Mean : 7146.037

Standard deviation : 4872.586

Variable Format: numeric

Variable: distance to motorway access (km)

Location: *Range of Valid Data Values: 0.03 to 12317.36*

Width: 7 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.03

Maximum : 12317.36

Mean : 402.671

Standard deviation : 1573.157

Variable Format: numeric

Variable: motorway within 100m

Location:	Value	Label	Frequency
Width: 2	0 .	no motorway near	1607
	1 .	motorway near	38
	-1 .		262

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: distance to street category 1 (m)

Location: *Range of Valid Data Values: 1.75 to 2358.11*

Width: 7 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 1.75

Maximum : 2358.11

Mean : 266.763

Standard deviation : 263.43

Variable Format: numeric

Variable: Regional car accessibility index (IV03 model) to inhabitants (VZ2000)

Location: *Range of Valid Data Values: 27.07 to 179.19*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 27.07

Maximum : 179.19

Mean : 115.386

Standard deviation : 34.264

Variable Format: numeric

Variable: Regional car accessibility index (IV03 model) to employment (BZ2001)

Location: *Range of Valid Data Values: 12.81 to 233.94*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 12.81

Maximum : 233.94

Mean : 122.053

Standard deviation : 52.986

Variable Format: numeric

Variable: Regional public transport accessibility index (OEV03 model) to inhabitants (VZ2000)

Location: *Range of Valid Data Values: 1 to 747*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 1

Maximum : 747

Mean : 71.768

Standard deviation : 97.017

Variable Format: numeric

Variable: Regional public transport accessibility index (OEV03 model) to employment (BZ2001)

Location: *Range of Valid Data Values: 1 to 716*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 1

Maximum : 716

Mean : 69.29

Standard deviation : 101.761

Variable Format: numeric

Variable: Distance to CBD/Buerkliplatz (Regional IV03 model) (m)

Location: *Range of Valid Data Values: 2 to 39.19*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 2

Maximum : 39.19

Mean : 16.599

Standard deviation : 9.641

Variable Format: numeric

Variable: Driving time to CBD/Buerkliplatz (Regional IV03 model)

Location: *Range of Valid Data Values: 12 to 56*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 12

Maximum : 56

Mean : 30.119

Standard deviation : 9.047

Variable Format: numeric

Variable: Density of people per ha within 1km radius based on VZ00 data

Location: *Range of Valid Data Values: 0.11 to 146.23*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.11

Maximum : 146.23

Mean : 28.727

Standard deviation : 25.029

Variable Format: numeric

Variable: Density of children per ha within 1km radius based on VZ00 data

Location: *Range of Valid Data Values: 0.08 to 19.1*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.08

Maximum : 19.1

Mean : 5.507

Standard deviation : 3.214

Variable Format: numeric

Variable: Density of jobs per ha in second and third sector within 1km radius based on BZ01 data

Location: *Range of Valid Data Values: 0 to 197*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 197

Mean : 17.761

Standard deviation : 26.291

Variable Format: numeric

Variable: Density of people per ha within 500m radius based on VZ00 data

Location: *Range of Valid Data Values: 0.16 to 210.88*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.16

Maximum : 210.88

Mean : 40.356

Standard deviation : 30.407

Variable Format: numeric

Variable: Density of children per ha within 500m radius based on VZ00 data

Location: *Range of Valid Data Values: 0.07 to 26.11*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.07

Maximum : 26.11

Mean : 7.799

Standard deviation : 3.992

Variable Format: numeric

Variable: Density of jobs per ha in second and third sector within 500m radius based on BZ01 data

Location: *Range of Valid Data Values: 0 to 222.85*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 222.85

Mean : 20.203

Standard deviation : 31.796

Variable Format: numeric

Variable: Density of jobs per ha of type 5 (hotels and catering) within 500m radius based on BZ01 data

Location: *Range of Valid Data Values: 0 to 24.24*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 24.24

Mean : 1.234

Standard deviation : 2.223

Variable Format: numeric

Variable: number of households with size 1 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 3	0 .		288
	1 .		29
	2 .		9
	3 .		29
	5 .		4
	6 .		4
	7 .		7
	8 .		93
	11 .		1
	12 .		37
	13 .		5
	14 .		2
	16 .		16
	19 .		7
	20 .		1
	26 .		10
	29 .		25
	33 .		10
	34 .		46
	35 .		1
	36 .		9
	40 .		1
	45 .		2
	47 .		5
	48 .		1
	75 .		18
	78 .		2
	80 .		11
	90 .		4
	99 .		21
	118 .		17
	123 .		21
	142 .		4

158 .	1
161 .	10
168 .	4
172 .	29
176 .	8
186 .	6
190 .	1
201 .	2
223 .	41
233 .	1
243 .	4
248 .	10
250 .	16
252 .	12
254 .	5
266 .	115
276 .	2
279 .	5
281 .	6
288 .	8
298 .	1
316 .	39
330 .	2
352 .	5
355 .	11
359 .	7
361 .	33
367 .	77
405 .	9
420 .	4
430 .	4
445 .	12
508 .	50
523 .	73
534 .	2

551 .	3
573 .	27
588 .	2
591 .	43
596 .	1
615 .	33
624 .	4
659 .	6
661 .	1
670 .	27
672 .	33
674 .	16
837 .	1
846 .	1
886 .	5
896 .	23
966 .	2
983 .	9
1004 .	1
1047 .	16
1076 .	1
1088 .	15
1092 .	16
1099 .	8
1109 .	19
1133 .	24
1188 .	3
1199 .	11
1234 .	4
1248 .	1
1260 .	2
1269 .	2
1302 .	19
1325 .	1
1419 .	12

1881 .	3
2009 .	14
2299 .	11
2527 .	16
2565 .	5
2883 .	24
3664 .	28
3783 .	1
4078 .	3
5282 .	55

Range of Valid Data Values: 0 to 5282

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 2 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 3	0 .		304
	1 .		8
	2 .		5
	3 .		3
	5 .		6
	6 .		1
	8 .		11
	10 .		27
	11 .		3
	12 .		8
	15 .		3
	17 .		3
	19 .		4
	20 .		1
	21 .		1
	23 .		7
	25 .		10
	26 .		128
	29 .		1
	34 .		9
	42 .		11
	48 .		25
	52 .		21
	53 .		6
	54 .		40
	56 .		4
	66 .		2
	68 .		9
	69 .		1
	79 .		18
	84 .		5
	102 .		17
	113 .		2

116 .	7
135 .	11
143 .	4
152 .	25
153 .	6
179 .	1
193 .	4
195 .	6
197 .	3
199 .	8
221 .	33
226 .	13
228 .	1
233 .	10
238 .	85
241 .	5
244 .	1
253 .	2
267 .	33
273 .	2
279 .	41
282 .	1
283 .	4
285 .	7
288 .	30
289 .	12
293 .	6
298 .	8
305 .	3
310 .	2
325 .	16
336 .	5
350 .	39
364 .	1
371 .	16

378 .	77
391 .	11
393 .	2
400 .	50
415 .	1
455 .	4
464 .	5
467 .	9
501 .	1
503 .	33
528 .	2
555 .	2
576 .	3
587 .	27
601 .	11
615 .	1
619 .	1
630 .	24
634 .	43
653 .	73
667 .	1
681 .	16
684 .	1
692 .	27
733 .	15
787 .	1
804 .	23
811 .	9
821 .	1
841 .	33
857 .	2
873 .	4
876 .	16
887 .	19
888 .	19

890 .	3
910 .	8
980 .	12
1032 .	2
1303 .	11
1449 .	3
1557 .	1
1562 .	24
1605 .	14
1718 .	5
1823 .	16
1902 .	28
2112 .	3
2174 .	55

Range of Valid Data Values: 0 to 2174

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 3 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 3	0 .		305
	1 .		16
	2 .		3
	3 .		12
	4 .		11
	5 .		7
	6 .		33
	7 .		95
	8 .		1
	10 .		37
	12 .		8
	14 .		1
	15 .		21
	16 .		6
	17 .		1
	18 .		1
	19 .		12
	24 .		40
	25 .		1
	27 .		25
	29 .		10
	38 .		9
	40 .		2
	41 .		24
	45 .		6
	46 .		4
	57 .		17
	59 .		5
	63 .		11
	64 .		8
	67 .		12
	71 .		22
	75 .		11

79 .	10
85 .	4
88 .	9
90 .	4
95 .	1
100 .	1
103 .	4
105 .	1
106 .	1
107 .	33
109 .	29
116 .	5
117 .	4
118 .	2
119 .	2
123 .	12
124 .	5
125 .	41
128 .	61
129 .	86
131 .	7
135 .	2
140 .	30
146 .	2
157 .	16
159 .	3
167 .	98
169 .	39
170 .	11
178 .	1
179 .	1
180 .	33
181 .	1
187 .	11
192 .	4

195 .	1
210 .	9
211 .	2
213 .	1
224 .	1
239 .	15
258 .	51
262 .	1
267 .	16
277 .	21
279 .	3
293 .	100
294 .	23
295 .	22
299 .	43
300 .	9
308 .	2
310 .	8
313 .	1
315 .	4
335 .	16
412 .	12
418 .	2
434 .	33
437 .	24
444 .	3
448 .	11
490 .	1
519 .	5
572 .	16
586 .	14
595 .	28
723 .	3
819 .	55

Range of Valid Data Values: 0 to 819

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 4 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 3	0 .		308
	1 .		7
	2 .		6
	3 .		9
	4 .		8
	5 .		33
	6 .		5
	7 .		7
	8 .		49
	12 .		101
	13 .		1
	19 .		23
	20 .		25
	22 .		10
	24 .		2
	25 .		1
	29 .		1
	31 .		58
	38 .		5
	43 .		4
	45 .		10
	46 .		2
	49 .		27
	53 .		6
	54 .		4
	55 .		11
	56 .		9
	57 .		8
	61 .		4
	66 .		6
	70 .		20
	71 .		3
	74 .		1

78 .	7
80 .	5
83 .	11
85 .	5
86 .	33
87 .	10
90 .	1
92 .	6
94 .	5
101 .	1
103 .	4
107 .	2
110 .	1
111 .	13
112 .	3
114 .	1
117 .	4
118 .	29
121 .	65
123 .	85
127 .	2
130 .	8
134 .	1
135 .	12
141 .	30
144 .	11
151 .	16
155 .	41
157 .	55
167 .	4
169 .	16
170 .	4
176 .	9
178 .	7
184 .	1

186 .	77
191 .	19
195 .	1
196 .	2
197 .	39
207 .	16
210 .	1
211 .	73
218 .	25
224 .	27
239 .	1
243 .	2
251 .	27
253 .	23
259 .	2
264 .	12
271 .	1
272 .	24
277 .	4
280 .	8
290 .	3
302 .	3
305 .	9
306 .	11
333 .	16
342 .	43
371 .	2
385 .	16
388 .	28
399 .	5
410 .	33
437 .	14
475 .	55
486 .	3

Range of Valid Data Values: 0 to 486

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 5 in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 2	0 .		412
	1 .		19
	2 .		27
	3 .		47
	4 .		16
	5 .		11
	6 .		5
	7 .		1
	9 .		31
	10 .		33
	11 .		46
	12 .		7
	13 .		38
	14 .		16
	15 .		17
	16 .		34
	17 .		18
	18 .		139
	19 .		32
	20 .		36
	21 .		5
	22 .		17
	23 .		7
	24 .		6
	26 .		33
	28 .		4
	29 .		30
	31 .		3
	32 .		86
	33 .		14
	34 .		24
	36 .		4
	38 .		1

39 .	36
40 .	36
43 .	46
44 .	2
45 .	11
46 .	8
47 .	66
50 .	4
51 .	19
52 .	41
54 .	27
57 .	40
61 .	73
64 .	2
67 .	9
71 .	24
75 .	31
76 .	11
77 .	14
81 .	43
86 .	4
93 .	1
98 .	14
104 .	33
106 .	16
107 .	3
108 .	3
110 .	11
111 .	5
135 .	55

Range of Valid Data Values: 0 to 135

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: number of households with size 6 or larger in the km2 this hectare is in

Location:	Value	Label	Frequency
Width: 1	0 .		438
	1 .		489
	2 .		134
	3 .		371
	4 .		154
	5 .		79
	6 .		74
	7 .		8
	8 .		43
	9 .		14
	10 .		12
	11 .		3
	12 .		5
	13 .		12
	14 .		2
	16 .		3
	18 .		11
	26 .		55

Range of Valid Data Values: 0 to 26

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Noise Exposure Day (16h) (dB)

Location: *Range of Valid Data Values: 0 to 69.9*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 69.9

Mean : 45.656

Standard deviation : 18.06

Variable Format: numeric

Variable: "Beurteilungspegel" day (dB)

Location: *Range of Valid Data Values: 0 to 85.7*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 85.7

Mean : 6.561

Standard deviation : 21.814

Variable Format: numeric

Variable: "Beurteilungspegel" night (dB)

Location: *Range of Valid Data Values: 0 to 85.3*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 85.3

Mean : 6.33

Standard deviation : 21.091

Variable Format: numeric

**Variable: Exposure by orientation (North alignment = 0 to South alignment = 180)
based on DEM 25**

Location: *Range of Valid Data Values: 0 to 179.98*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 179.98

Mean : 82.623

Standard deviation : 51.283

Variable Format: numeric

Variable: Slope in percent based on DEM 25

Location: *Range of Valid Data Values: 0.03 to 21.58*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0.03

Maximum : 21.58

Mean : 3.444

Standard deviation : 3.41

Variable Format: numeric

Variable: Sun radiation index

Location: *Range of Valid Data Values: 63.55 to 115.33*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 63.55

Maximum : 115.33

Mean : 88.662

Standard deviation : 5.577

Variable Format: numeric

Variable: Rate of people in municipality with university degree (from Statweb)

Location: *Range of Valid Data Values: 1.2 to 19.16*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 1.2

Maximum : 19.16

Mean : 6.814

Standard deviation : 3.829

Variable Format: numeric

Variable: Vacancy rate of rent residential units in municipality (from Statweb)

Location: *Range of Valid Data Values: 0 to 5.02*

Width: 4 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 5.02

Mean : 0.819

Standard deviation : 0.872

Variable Format: numeric

Variable: Percentage of buildings built before 1971

Location: *Range of Valid Data Values: 27.44 to 79.61*

Width: 5 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 27.44

Maximum : 79.61

Mean : 60.246

Standard deviation : 12.715

Variable Format: numeric

Variable: Federal tax revenue per capita in municipality

Location: *Range of Valid Data Values: 666.5 to 5966.69*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 666.5

Maximum : 5966.69

Mean : 1309.694

Standard deviation : 814.451

Variable Format: numeric

Variable: Household income (CHF)

Location:	Value	Label	Frequency
Width: 7	1000 .		112
	3000 .		593
	5000 .		596
	7000 .		330
	9000 .		158
	-1 .		118

Range of Valid Data Values: 1000 to 9000

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Number of household members

Location:	Value	Label	Frequency
Width: 2	1 .		570
	2 .		578
	3 .		256
	4 .		178
	5 .		57
	6 .		12
	7 .		1
	8 .		1
	-1 .		254

Range of Valid Data Values: 1 to 8

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Number of children in household

Location:	Value	Label	Frequency
Width: 2	0 .		1182
	1 .		471
	-1 .		254

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

***Variable:* Number of children under age 12 in household**

Location:	Value	Label	Frequency
Width: 1	0 .		1493
	1 .		414

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Number of employed in household

Location:	Value	Label	Frequency
Width: 2	0 .		134
	1 .		1520
	-1 .		253

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Is there a workplace for the household

Location:	Value	Label	Frequency
Width: 1	0 .	no workplace	500
	1 .	workplace data available	1407

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Are there cars in the household

Location:	Value	Label	Frequency
Width: 1	0 .	no cars available	432
	1 .	cars available	1475

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Is there a pt abo in the household

Location:	Value	Label	Frequency
Width: 1	0 .	no pt abo	558
	1 .	pt abo	1349

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Is the head of household under 35 and are there no children

Location:	Value	Label	Frequency
Width: 2	0 .	no young household	1156
	1 .	young household	498
	-1 .		253

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: Is the head of household at least 65 and are there no children

Location:	Value	Label	Frequency
Width: 1	0 .	no retired household	1871
	1 .	retired household	36

Range of Valid Data Values: 0 to 1

Range of Invalid Data Values: -1

Summary Statistics:

Variable Format: numeric

Variable: x coordinate of first workplace

Location: *Range of Valid Data Values: 0 to 759776*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 759776

Variable Format: numeric

Variable: y coordinate of first workplace

Location: *Range of Valid Data Values: 0 to 289300*

Width: 6 *Range of Invalid Data Values: -1*

Summary Statistics:

Minimum : 0

Maximum : 289300

Variable Format: numeric