
SVI Neuverkehr - Aktivitätenorientierte Analyse des Neuverkehrs

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Travel Survey Metadata Series

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Abstract

Neuverkehr oder induzierter Verkehr, ein Phänomen welches hier als zusätzliche durch Verbesserungen der Verkehrsbedingungen erzeugte Verkehrsnachfrage definiert ist, ist in der Verkehrsmodellierung seit Jahren Thema verschiedener Forschungsprojekte. Diese konzentrierten sich bisher hauptsächlich auf die Bewertung der Nebeneffekte einzelner Massnahmen, welche solche Verbesserungen erzeugen. Im Vergleich zu früheren Studien, welche sich meist mit spezifischen und lokalen Veränderungen, wie z.B. dem Bau neuer Strassen oder Bahnlinien in bestimmten Korridoren, und vor allem mit deren Nebeneffekten, beschäftigten, weichen die Zielsetzungen im hier beschriebenen Projekt methodisch und thematisch ab.

Es soll aufgezeigt werden, wie sich Veränderungen in den generalisierten Kosten der Verkehrsteilnahme auf die Erzeugung der Verkehrsnachfrage auswirken. Die interessierenden Dimensionen der Nachfrage liegen hier auf der Seite der Erzeugung auf Individuen- bzw. Kohortenebene: die Wahrscheinlichkeit, an einem bestimmten Tag eine oder mehrere Aktivitäten ausser Haus zu unternehmen, also mobil zu sein; die Anzahl der unternommenen Aktivitäten und der damit einhergehenden Wege, Wegeketten und Reisen; und die daraus resultierenden gesamthaft ausser Haus verbrachten Dauern und zurückgelegten Entfernungen. Die zentralen Hypothesen betreffen hier Nachfrageveränderungen als Reaktion auf Veränderungen der generalisierten Kosten. Wenn die generalisierten Kosten der Verkehrsteilnahme sinken, steigen sowohl die Zeit- als auch die monetären Ressourcen zum Unternehmen von Wegen und Aktivitäten. Es wird angenommen, dass diese Verschiebung der Ressourcenverfügbarkeit in den hier relevanten Dimensionen zu einer Anzahl von nachfrageerzeugenden Reaktionen führt:

- Zunahme der Wahrscheinlichkeit, an ausser-Haus-Aktivitäten teilzunehmen, also mobil zu sein;
- Zunahme der Anzahl und Dauer der ausser Haus durchgeführten Aktivitäten und Wege;
- Zunahme der Nachfrage nach Verkehrsleistungen (zurückgelegte Distanzen).

Keywords

Neuverkehr, induzierter Verkehr

Preferred citation style

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1.0 Document Description

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2.0 Study Description

Citation

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Abstract:

Neuverkehr oder induzierter Verkehr, ein Phänomen welches hier als zusätzliche durch Verbesserungen der Verkehrsbedingungen erzeugte Verkehrsnachfrage definiert ist, ist in der Verkehrsmodellierung seit Jahren Thema verschiedener Forschungsprojekte. Diese konzentrierten sich bisher hauptsächlich auf die Bewertung der Nebeneffekte einzelner Massnahmen, welche solche Verbesserungen erzeugen. Im Vergleich zu früheren Studien, welche sich meist mit spezifischen und lokalen Veränderungen, wie z.B. dem Bau neuer Strassen oder Bahnlinien in bestimmten Korridoren, und vor allem mit deren Nebeneffekten, beschäftigten, weichen die Zielsetzungen im hier beschriebenen Projekt methodisch und thematisch ab. Es soll aufgezeigt werden, wie sich Veränderungen in den generalisierten Kosten der Verkehrsteilnahme auf die Erzeugung der Verkehrsnachfrage auswirken. Die interessierenden Dimensionen der Nachfrage liegen hier auf der Seite der Erzeugung auf Individuen- bzw. Kohortenebene: die Wahrscheinlichkeit, an einem bestimmten Tag eine oder mehrere Aktivitäten ausser Haus zu unternehmen, also mobil zu sein; die Anzahl der unternommenen Aktivitäten und der damit einhergehenden Wege, Wegekettens und Reisen; und die daraus resultierenden gesamthaft ausser Haus verbrachten Dauern und zurückgelegten Entfernungen. Die zentralen Hypothesen betreffen hier Nachfrageveränderungen als Reaktion auf Veränderungen der generalisierten Kosten. Wenn die generalisierten Kosten der Verkehrsteilnahme sinken, steigen sowohl die Zeit- als auch die monetären Ressourcen zum Unternehmen von Wegen und Aktivitäten. Es wird angenommen, dass diese Verschiebung der Ressourcenverfügbarkeit in den hier relevanten Dimensionen zu einer Anzahl von nachfrageerzeugenden Reaktionen führt: • Zunahme der Wahrscheinlichkeit, an ausser-Haus-Aktivitäten teilzunehmen, also mobil zu sein; • Zunahme der Anzahl und Dauer der ausser Haus durchgeführten Aktivitäten und Wege; • Zunahme der Nachfrage nach Verkehrsleistungen (zurückgelegte Distanzen).

Country:

Switzerland

3.0 File Description

File: households.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 141
- No. of variables per record: 13
- Type of File: NSDstat 200501

3.0 File Description

File: persons.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 205
- No. of variables per record: 13
- Type of File: NSDstat 200501

3.0 File Description

File: reference.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 768
- No. of variables per record: 24
- Type of File: NSDstat 200501

3.0 File Description

File: scenario.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 2797
- No. of variables per record: 20
- Type of File: NSDstat 200501

3.0 File Description

File: output.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 2692
- No. of variables per record: 20
- Type of File: NSDstat 200501

4.0 Variable Description

Variable Groups

- [Household](#)
- [Persons](#)
- [Reference](#)
- [Scenario](#)
- [Output](#)

Household

Variables within *Household*

- [Household ID](#)
- [Household size](#)
- [Less than 10 minutes walking time from home to the nearest school](#)
- [Less than 10 minutes walking time from home to the nearest doctor](#)
- [Less than 10 minutes walking time from home to the nearest bank](#)
- [Less than 10 minutes walking time from home to the nearest post office](#)
- [Less than 10 minutes walking time from home to the nearest supermarket](#)
- [Less than 10 minutes walking time from home to the nearest tram or bus station](#)
- [Less than 10 minutes walking time from home to the nearest railway station](#)
- [Number of cars in household](#)
- [Number of motorcycles in household](#)
- [Number of bicycles in household](#)
- [Monthly household income \[CHF\]](#)

Persons

Variables within *Persons*

- [Household ID](#)
- [Household size](#)
- [Household ID](#)
- [Person ID](#)
- [Gender](#)
- [Date of birth](#)

- [Marital status](#)
- [Employment status](#)
- [Degree of education](#)
- [Car driving license](#)
- [Car availability](#)
- [Member of car sharing programme](#)
- [Availability of parking space at work](#)
- [Ownership of flat-rate transit card \(GA\)](#)
- [Ownership of half-fare transit card](#)

Reference

Variables within *Reference*

- [Household size](#)
- [Less than 10 minutes walking time from home to the nearest school](#)
- [Less than 10 minutes walking time from home to the nearest doctor](#)
- [Less than 10 minutes walking time from home to the nearest bank](#)
- [Household ID](#)
- [Person ID](#)
- [Date](#)
- [Trip number](#)
- [Trip purpose](#)
- [Number of accompanying household members on the trip](#)
- [Number of accompanying non-household members on the trip](#)
- [Number of accompanying household members on the activity following the trip](#)
- [Number of accompanying non-household members on the activity following the trip](#)
- [Estimated trip distance](#)
- [Departure time](#)
- [Arrival time](#)
- [Walk travel time](#)
- [Bike travel time](#)
- [Motorcycle travel time](#)
- [Car travel time](#)
- [Bus travel time](#)
- [Tram travel time](#)
- [Rail travel time](#)
- [Plane travel time](#)
- [Boat travel time](#)
- [Other modes travel time](#)
- [Waiting time](#)
- [Total trip duration](#)

Scenario

Variables within *Scenario*

- [Less than 10 minutes walking time from home to the nearest bank](#)
- [Less than 10 minutes walking time from home to the nearest post office](#)
- [Less than 10 minutes walking time from home to the nearest supermarket](#)
- [Household ID](#)
- [Household ID](#)
- [Scenario number](#)
- [Date](#)
- [Trip number](#)
- [Trip purpose](#)
- [Departure time](#)
- [Arrival time](#)
- [Walk travel time](#)
- [Bike travel time](#)
- [Motorcycle travel time](#)
- [Car travel time](#)
- [Bus travel time](#)
- [Tram travel time](#)
- [Rail travel time](#)
- [Plane travel time](#)
- [Boat travel time](#)
- [Other modes travel time](#)
- [Waiting time](#)
- [Total trip duration](#)

Output

Variables within *Output*

- [Less than 10 minutes walking time from home to the nearest supermarket](#)
- [Less than 10 minutes walking time from home to the nearest tram or bus station](#)
- [Less than 10 minutes walking time from home to the nearest railway station](#)
- [Household ID](#)
- [Household ID](#)
- [Scenario number](#)
- [Date](#)
- [Trip number](#)
- [Trip purpose](#)
- [Departure time](#)
- [Arrival time](#)
- [Walk travel time](#)
- [Bike travel time](#)
- [Motorcycle travel time](#)
- [Car travel time](#)
- [Bus travel time](#)
- [Tram travel time](#)
- [Rail travel time](#)

- [Plane travel time](#)
- [Boat travel time](#)
- [Other modes travel time](#)
- [Waiting time](#)
- [Total trip duration](#)

Variables

Variable: Household ID

Location: *Range of Valid Data Values: 45 to 397*

Width: 2 **Summary Statistics:**

Minimum : 45

Maximum : 397

Mean : 214.993

Standard deviation : 95.482

Variable Format: numeric

Variable: Household size

Location:	Value	Label	Frequency
Width: 8	0 .		5
	1 .		33
	2 .		89
	3 .		6
	4 .		5
	5 .		3

Range of Valid Data Values: 0 to 5

Summary Statistics:

Minimum : 0

Maximum : 5

Mean : 1.872

Standard deviation : 0.861

Variable Format: numeric

Variable: Less than 10 minutes walking time from home to the nearest school

Location:	Value	Label	Frequency
Width: 8	0 .	no	43
	1 .	yes	98

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Less than 10 minutes walking time from home to the nearest doctor

Location:	Value	Label	Frequency
Width: 8	0 .	no	71
	1 .	yes	70

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Less than 10 minutes walking time from home to the nearest bank

Location:	Value	Label	Frequency
Width: 8	0 .	no	79
	1 .	yes	62

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Less than 10 minutes walking time from home to the nearest post office

Location:	Value	Label	Frequency
Width: 8	0 .	no	47
	1 .	yes	94

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Less than 10 minutes walking time from home to the nearest supermarket

Location:	Value	Label	Frequency
Width: 8	0 .	no	56
	1 .	yes	85

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Less than 10 minutes walking time from home to the nearest tram or bus station

Location:	Value	Label	Frequency
Width: 8	0 .	no	20
	1 .	yes	121

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Less than 10 minutes walking time from home to the nearest railway station

Location:	Value	Label	Frequency
Width: 8	0 .	no	87
	1 .	yes	54

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Number of cars in household

Location:	Value	Label	Frequency
Width: 8	0 .		32
	1 .		70
	2 .		31
	3 .		7
	4 .		1

Range of Valid Data Values: 0 to 4

Summary Statistics:

Minimum : 0

Maximum : 4

Mean : 1.113

Standard deviation : 0.837

Variable Format: numeric

Variable: Number of motorcycles in household

Location:	Value	Label	Frequency
Width: 8	0 .		113
	1 .		23
	2 .		4
	3 .		1

Range of Valid Data Values: 0 to 3

Summary Statistics:

Minimum : 0

Maximum : 3

Mean : 0.241

Standard deviation : 0.533

Variable Format: numeric

Variable: Number of bicycles in household

Location:	Value	Label	Frequency
Width: 8	0 .		29
	1 .		24
	2 .		35
	3 .		21
	4 .		16
	5 .		8
	6 .		3
	7 .		2
	8 .		3

Range of Valid Data Values: 0 to 8

Summary Statistics:

Minimum : 0

Maximum : 8

Mean : 2.248

Standard deviation : 1.879

Variable Format: numeric

Variable: Monthly household income [CHF]

Location:	Value	Label	Frequency
Width: 1	0 .	not specified	14
	1 .	< 2000	1
	2 .	2000 - 4000	17
	3 .	4000 - 6000	16
	4 .	6000 - 8000	34
	5 .	8000 - 10000	25
	6 .	10000 - 12000	14
	7 .	12000 - 14000	8
	8 .	14000 - 16000	5
	9 .	> 16000	7

Range of Valid Data Values: 0 to 9

Summary Statistics:

Variable Format: numeric

Variable: Household ID

Location: *Range of Valid Data Values: 45 to 397*

Width: 2 **Summary Statistics:**

Minimum : 45

Maximum : 397

Mean : 210.478

Standard deviation : 94.157

Variable Format: numeric

Variable: Person ID

Location: *Range of Valid Data Values: 50 to 351*

Width: 2 **Summary Statistics:**

Minimum : 50

Maximum : 351

Mean : 199.093

Standard deviation : 84.688

Variable Format: numeric

Variable: Gender

Location:	Value	Label	Frequency
Width: 8	1 .	male	106
	2 .	female	99

Range of Valid Data Values: 1 to 2

Summary Statistics:

Variable Format: numeric

Variable: Date of birth

Location:	Value	Label	Frequency
Width: 10	1923-08-11 .		1
	1927-05-22 .		1
	1928-06-12 .		1
	1929-03-11 .		1
	1929-07-11 .		1
	1930-03-03 .		1
	1932-09-13 .		1
	1933-08-01 .		1
	1934-04-02 .		1
	1934-11-10 .		1
	1935-04-01 .		1
	1935-06-11 .		1
	1935-06-22 .		1
	1935-12-01 .		1

1936-02-01 .	1
1937-06-11 .	1
1937-07-01 .	1
1938-01-22 .	1
1938-04-05 .	1
1938-05-19 .	1
1938-08-11 .	1
1939-09-01 .	1
1939-12-27 .	1
1940-10-14 .	1
1940-11-01 .	1
1941-01-07 .	1
1941-04-01 .	1
1941-06-11 .	1
1942-01-06 .	1
1942-09-16 .	1

1942-11-17 .	1
1943-04-09 .	1
1943-04-27 .	1
1943-05-11 .	1
1944-01-01 .	1
1944-02-01 .	1
1944-02-10 .	1
1944-03-18 .	1
1944-04-03 .	1
1944-04-11 .	1
1944-08-03 .	1
1944-09-11 .	1
1945-01-01 .	1
1945-05-18 .	1
1945-10-01 .	1
1946-02-10 .	1

1946-05-01 .	1
1946-07-01 .	1
1946-08-10 .	1
1947-03-11 .	1
1947-06-02 .	1
1947-07-07 .	1
1948-04-14 .	1
1948-10-19 .	1
1949-01-01 .	1
1950-06-10 .	1
1950-10-01 .	1
1951-01-02 .	1
1951-05-10 .	1
1953-07-01 .	1
1954-01-05 .	1
1954-01-30 .	1

1954-06-04 .	1
1955-02-19 .	1
1955-06-11 .	1
1956-02-12 .	1
1956-04-02 .	1
1956-04-11 .	1
1956-05-10 .	1
1956-08-03 .	1
1956-12-11 .	1
1957-01-05 .	1
1957-01-28 .	1
1957-05-05 .	1
1958-07-10 .	1
1958-11-01 .	1
1958-12-11 .	1
1959-03-01 .	1

1959-04-11 .	1
1959-07-01 .	1
1960-03-10 .	1
1960-03-28 .	1
1960-04-29 .	1
1960-08-12 .	1
1960-09-04 .	1
1961-04-01 .	1
1961-04-05 .	1
1961-05-07 .	1
1961-05-08 .	1
1961-06-02 .	1
1961-06-29 .	1
1961-10-06 .	1
1962-02-10 .	1
1962-03-12 .	1

1962-03-21 .	1
1962-07-05 .	1
1962-07-23 .	1
1962-09-21 .	1
1962-09-23 .	1
1962-11-01 .	1
1963-01-12 .	1
1963-02-01 .	1
1963-03-05 .	1
1964-04-18 .	1
1964-05-12 .	1
1964-07-07 .	1
1964-09-01 .	1
1965-05-11 .	1
1965-06-20 .	1
1965-08-15 .	1

1965-08-16 .	1
1965-09-14 .	1
1966-03-23 .	1
1966-06-23 .	1
1966-07-22 .	1
1966-07-31 .	1
1966-09-11 .	1
1966-10-09 .	1
1966-10-12 .	1
1966-11-28 .	1
1966-12-04 .	1
1967-02-01 .	1
1967-02-15 .	1
1967-04-05 .	1
1967-04-26 .	1
1967-05-06 .	1

1967-06-01 .	1
1967-06-13 .	1
1967-07-01 .	1
1967-08-09 .	1
1967-09-01 .	1
1967-09-09 .	1
1967-09-27 .	1
1968-05-01 .	1
1968-07-28 .	1
1968-09-22 .	1
1968-11-01 .	1
1968-12-28 .	1
1969-01-06 .	1
1969-01-16 .	1
1969-06-23 .	1
1969-11-17 .	1

1970-02-01 .	1
1970-04-01 .	1
1970-07-01 .	1
1970-07-03 .	1
1970-08-29 .	1
1970-10-22 .	1
1971-01-01 .	1
1971-05-01 .	1
1971-05-08 .	1
1971-07-29 .	1
1971-11-17 .	1
1971-11-19 .	1
1972-01-03 .	1
1972-03-18 .	1
1972-07-06 .	1
1972-07-21 .	1

1972-07-28 .	1
1972-11-27 .	1
1973-07-01 .	1
1973-07-18 .	1
1974-03-01 .	1
1975-03-08 .	1
1975-03-10 .	1
1975-04-12 .	1
1975-10-01 .	1
1976-01-24 .	1
1976-02-28 .	1
1976-06-01 .	1
1976-07-01 .	1
1976-09-30 .	1
1977-04-13 .	1
1977-07-09 .	1

1977-11-23 .	1
1977-12-01 .	1
1978-01-18 .	1
1978-03-09 .	1
1978-06-01 .	1
1978-10-21 .	1
1979-02-09 .	1
1979-03-11 .	1
1979-09-01 .	2
1979-09-23 .	1
1979-11-01 .	1
1980-03-01 .	1
1980-04-06 .	1
1980-05-18 .	1
1980-08-01 .	1
1981-03-14 .	1

1982-04-23 .	1
1983-05-01 .	1
1983-06-01 .	1
1983-08-11 .	1
1985-09-26 .	1
1986-03-06 .	1
1988-05-10 .	1
1989-07-10 .	1
1989-10-29 .	1
1991-07-19 .	1

Summary Statistics:

Minimum : 1923-08-11

Maximum : 1991-07-19

Variable Format: character

Variable: Marital status

Location:	Value	Label	Frequency
Width: 8	1 .	single	49
	2 .	married	136
	3 .	married, living apart	3
	4 .	divorced	12
	5 .	widowed	5

Range of Valid Data Values: 1 to 5

Summary Statistics:

Variable Format: numeric

Variable: Employment status

Location:	Value	Label	Frequency
Width: 8	1 .	student	5
	2 .	employed	130
	3 .	jobless	3
	4 .	working in own household	17
	5 .	retired	47
	6 .	incapacitated for work	3

Range of Valid Data Values: 1 to 6

Summary Statistics:

Variable Format: numeric

Variable: Degree of education

Location:	Value	Label	Frequency
Width: 8	1 .	primary school	6
	2 .	lower secondary school	0
	3 .	junior high school	6
	4 .	high school	14
	5 .	apprenticeship	81
	6 .	technical college	38
	7 .	university	32
	8 .	other	28

Range of Valid Data Values: 1 to 8

Summary Statistics:

Variable Format: numeric

Variable: Car driving license

Location:	Value	Label	Frequency
Width: 8	0 .	no	39
	1 .	yes	166

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Car availability

Location:	Value	Label	Frequency
Width: 8	1 .	always	134
	2 .	often	15
	3 .	sometimes	25
	4 .	never	31

Range of Valid Data Values: 1 to 4

Summary Statistics:

Variable Format: numeric

Variable: Member of car sharing programme

Location:	Value	Label	Frequency
Width: 8	0 .	no	128
	1 .	yes	77

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Availability of parking space at work

Location:	Value	Label	Frequency
Width: 8	0 .	no	194
	1 .	yes	11

Range of Valid Data Values: 0 to 1

Summary Statistics:

Minimum : 0

Maximum : 1

Variable Format: numeric

Variable: Ownership of flat-rate transit card (GA)

Location:	Value	Label	Frequency
Width: 8	0 .	no	179
	1 .	yes	26

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Ownership of half-fare transit card

Location:	Value	Label	Frequency
Width: 8	0 .	no	90
	1 .	yes	115

Range of Valid Data Values: 0 to 1

Summary Statistics:

Variable Format: numeric

Variable: Household ID

Location: *Range of Valid Data Values: 45 to 389*

Width: 2 **Summary Statistics:**

Minimum : 45

Maximum : 389

Mean : 204.893

Standard deviation : 91.594

Variable Format: numeric

Variable: Person ID

Location: *Range of Valid Data Values: 50 to 341*

Width: 2 **Summary Statistics:**

Minimum : 50

Maximum : 341

Mean : 194.038

Standard deviation : 82.177

Variable Format: numeric

Variable: Date

Location:	Value	Label	Frequency
Width: 10	2009-11-17 .		8
	2009-11-19 .		4
	2009-11-20 .		14
	2009-12-02 .		7
	2010-03-15 .		6
	2010-03-19 .		9
	2010-03-23 .		5
	2010-03-24 .		21
	2010-03-25 .		14
	2010-03-26 .		23
	2010-03-27 .		2
	2010-03-29 .		57
	2010-03-30 .		20
	2010-03-31 .		24

2010-04-01 .	20
2010-04-07 .	35
2010-04-08 .	14
2010-04-09 .	33
2010-04-12 .	6
2010-04-13 .	13
2010-04-14 .	12
2010-04-15 .	4
2010-04-16 .	4
2010-04-19 .	17
2010-04-20 .	11
2010-04-21 .	5
2010-04-22 .	2
2010-04-23 .	27
2010-04-26 .	5
2010-05-03 .	10

2010-05-05 .	2
2010-05-10 .	34
2010-05-12 .	9
2010-05-14 .	4
2010-05-20 .	10
2010-05-25 .	18
2010-05-26 .	5
2010-05-31 .	7
2010-06-02 .	6
2010-06-14 .	7
2010-06-15 .	12
2010-06-16 .	9
2010-06-17 .	21
2010-06-18 .	10
2010-06-21 .	2
2010-06-22 .	16

2010-06-24 .	12
2010-06-25 .	19
2010-06-26 .	2
2010-06-28 .	14
2010-06-29 .	3
2010-07-01 .	6
2010-07-06 .	4
2010-07-07 .	9
2010-07-13 .	3
2010-07-15 .	4
2010-07-22 .	22
2010-07-23 .	11
2010-07-26 .	4
2010-07-29 .	7
2010-07-30 .	4
2010-08-05 .	8

2010-08-12 .	5
2010-08-26 .	4
2010-08-31 .	5
2010-09-03 .	10
2010-09-06 .	8

Summary Statistics:

Variable Format: character

Variable: Trip number

Location:	Value	Label	Frequency
Width: 7	1 .		190
	2 .		188
	3 .		137
	4 .		117
	5 .		60
	6 .		37
	7 .		19
	8 .		8
	9 .		5
	10 .		3
	11 .		1
	12 .		1
	13 .		1
	14 .		1

Range of Valid Data Values: 1 to 14

Summary Statistics:

Minimum : 1

Maximum : 14

Mean : 2.98

Standard deviation : 1.922

Variable Format: numeric

Variable: Trip purpose

Location:	Value	Label	Frequency
Width: 8	1 .	travel to the home location	308
	2 .	accompanying somebody	24
	3 .	work	148
	4 .	education	7
	5 .	shop (daily needs)	65
	6 .	shop (long-term needs)	39
	7 .	errand	25
	8 .	business	14
	9 .	leisure	82
	10 .	other	56

Range of Valid Data Values: 1 to 10

Summary Statistics:

Variable Format: numeric

Variable: Number of accompanying household members on the trip

Location:	Value	Label	Frequency
Width: 1	0 .		603
	1 .		127
	2 .		29
	3 .		9

Range of Valid Data Values: 0 to 3

Summary Statistics:

Variable Format: numeric

Variable: Number of accompanying non-household members on the trip

Location: *Range of Valid Data Values: 0 to 24*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 24

Mean : 0.128

Standard deviation : 1.082

Variable Format: numeric

Variable: Number of accompanying household members on the activity following the trip

Location:	Value	Label	Frequency
Width: 1	0 .		605
	1 .		124
	2 .		26
	3 .		12
	5 .		1

Range of Valid Data Values: 0 to 5

Summary Statistics:

Variable Format: numeric

Variable: Number of accompanying non-household members on the activity following the trip

Location: *Range of Valid Data Values: 0 to 50*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 50

Mean : 0.411

Standard deviation : 3.033

Variable Format: numeric

Variable: Estimated trip distance

Location: *Range of Valid Data Values: 0 to 2500*

Width: 4 **Summary Statistics:**

Minimum : 0

Maximum : 2500

Mean : 12.474

Standard deviation : 93.154

Variable Format: numeric

Variable: Departure time

Location:

Summary Statistics:

Width: 5

Variable Format: character

Variable: Arrival time

Location:

Summary Statistics:

Width: 5

Variable Format: character

Variable: Walk travel time

Location: *Range of Valid Data Values: 0 to 155*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 155

Mean : 4.822

Standard deviation : 11.931

Variable Format: numeric

Variable: Bike travel time

Location: *Range of Valid Data Values: 0 to 60*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 60

Mean : 1.029

Standard deviation : 4.194

Variable Format: numeric

Variable: Motorcycle travel time

Location: *Range of Valid Data Values: 0 to 45*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 45

Mean : 0.301

Standard deviation : 2.907

Variable Format: numeric

Variable: Car travel time

Location: *Range of Valid Data Values: 0 to 110*

Width: 2 **Summary Statistics:**

Minimum : 0

Maximum : 110

Mean : 8.104

Standard deviation : 13.468

Variable Format: numeric

Variable: Bus travel time

Location: *Range of Valid Data Values: 0 to 33*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 33

Mean : 1.091

Standard deviation : 4.105

Variable Format: numeric

Variable: Tram travel time

Location: *Range of Valid Data Values: 0 to 40*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 40

Mean : 1.406

Standard deviation : 4.784

Variable Format: numeric

Variable: Rail travel time

Location: *Range of Valid Data Values: 0 to 120*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 120

Mean : 2.372

Standard deviation : 9.803

Variable Format: numeric

Variable: Plane travel time

Location: *Range of Valid Data Values: 0 to 150*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 150

Mean : 0.195

Standard deviation : 5.413

Variable Format: numeric

Variable: Boat travel time

Location:	Value	Label	Frequency
Width: 1	0 .		768

Range of Valid Data Values: 0 to 0

Summary Statistics:

Minimum : 0

Maximum : 0

Mean : 0

Standard deviation : 0

Variable Format: numeric

Variable: Other modes travel time

Location: *Range of Valid Data Values: 0 to 40*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 40

Mean : 0.237

Standard deviation : 2.491

Variable Format: numeric

Variable: Waiting time

Location: *Range of Valid Data Values: -31 to 100*

Width: 1 **Summary Statistics:**

Minimum : -31

Maximum : 100

Mean : 1.319

Standard deviation : 5.736

Variable Format: numeric

Variable: Total trip duration

Location: *Range of Valid Data Values: 0 to 155*

Width: 8 **Summary Statistics:**

Minimum : 0

Maximum : 155

Mean : 20.876

Standard deviation : 20.56

Variable Format: numeric

Variable: Household ID

Location: *Range of Valid Data Values: 45 to 389*

Width: 2 **Summary Statistics:**

Minimum : 45

Maximum : 389

Mean : 202.085

Standard deviation : 91.13

Variable Format: numeric

Variable: Household ID

Location: *Range of Valid Data Values: 50 to 341*

Width: 2 **Summary Statistics:**

Minimum : 50

Maximum : 341

Mean : 191.897

Standard deviation : 82.22

Variable Format: numeric

Variable: Scenario number

Location:	Value	Label	Frequency
Width: 1	1 .		770
	2 .		768
	3 .		736
	4 .		523

Range of Valid Data Values: 1 to 4

Summary Statistics:

Variable Format: numeric

Variable: Date

Location:	Value	Label	Frequency
Width: 10	2009-11-17 .		32
	2009-11-19 .		16
	2009-11-20 .		52
	2009-12-02 .		28
	2010-03-15 .		24
	2010-03-19 .		26
	2010-03-23 .		20
	2010-03-24 .		84
	2010-03-25 .		54
	2010-03-26 .		92
	2010-03-27 .		8
	2010-03-29 .		202
	2010-03-30 .		80
	2010-03-31 .		80

2010-04-01 .	70
2010-04-07 .	123
2010-04-08 .	60
2010-04-09 .	123
2010-04-12 .	24
2010-04-13 .	52
2010-04-14 .	48
2010-04-15 .	16
2010-04-16 .	16
2010-04-19 .	60
2010-04-20 .	44
2010-04-21 .	20
2010-04-22 .	8
2010-04-23 .	86
2010-04-26 .	20
2010-05-03 .	36

2010-05-05 .	8
2010-05-10 .	128
2010-05-12 .	27
2010-05-14 .	12
2010-05-20 .	37
2010-05-25 .	54
2010-05-26 .	20
2010-05-31 .	28
2010-06-02 .	24
2010-06-14 .	28
2010-06-15 .	48
2010-06-16 .	36
2010-06-17 .	77
2010-06-18 .	40
2010-06-21 .	8
2010-06-22 .	62

2010-06-24 .	36
2010-06-25 .	76
2010-06-26 .	8
2010-06-28 .	28
2010-06-29 .	12
2010-07-01 .	18
2010-07-06 .	16
2010-07-07 .	36
2010-07-13 .	12
2010-07-15 .	16
2010-07-22 .	53
2010-07-23 .	44
2010-07-26 .	12
2010-07-29 .	21
2010-07-30 .	16
2010-08-05 .	32

2010-08-12 .	20
2010-08-26 .	16
2010-08-31 .	20
2010-09-03 .	40
2010-09-06 .	24

Summary Statistics:

Variable Format: character

Variable: Trip number

Location:	Value	Label	Frequency
Width: 7	1 .		694
	2 .		689
	3 .		496
	4 .		422
	5 .		220
	6 .		138
	7 .		66
	8 .		28
	9 .		17
	10 .		11
	11 .		4
	12 .		4
	13 .		4
	14 .		4

Range of Valid Data Values: 1 to 14

Summary Statistics:

Minimum : 1

Maximum : 14

Mean : 2.976

Standard deviation : 1.927

Variable Format: numeric

Variable: Trip purpose

Location:	Value	Label	Frequency
Width: 1	1 .	travel to the home location	1128
	2 .	accompanying somebody	90
	3 .	work	533
	4 .	education	24
	5 .	shop (daily needs)	240
	6 .	shop (long-term needs)	142
	7 .	errand	92
	8 .	business	55
	9 .	leisure	284
	10 .	other	209

Range of Valid Data Values: 1 to 10

Summary Statistics:

Variable Format: numeric

Variable: Departure time

Location:

Summary Statistics:

Width: 5

Variable Format: character

Variable: Arrival time

Location:

Summary Statistics:

Width: 5

Variable Format: character

Variable: Walk travel time

Location: *Range of Valid Data Values: 0 to 155*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 155

Mean : 6.21

Standard deviation : 14.872

Variable Format: numeric

Variable: Bike travel time

Location: *Range of Valid Data Values: 0 to 90*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 90

Mean : 2.086

Standard deviation : 8.541

Variable Format: numeric

Variable: Motorcycle travel time

Location: *Range of Valid Data Values: 0 to 90*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 90

Mean : 0.388

Standard deviation : 4.568

Variable Format: numeric

Variable: Car travel time

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

Width: 2 **Summary Statistics:**

Minimum : 0

Maximum : 180

Mean : 11.669

Standard deviation : 20.059

Variable Format: numeric

Variable: Bus travel time

Location: *Range of Valid Data Values: 0 to 90*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 90

Mean : 1.677

Standard deviation : 7.285

Variable Format: numeric

Variable: Tram travel time

Location: *Range of Valid Data Values: 0 to 60*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 60

Mean : 1.889

Standard deviation : 7.372

Variable Format: numeric

Variable: Rail travel time

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

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 180

Mean : 3.084

Standard deviation : 12.561

Variable Format: numeric

Variable: Plane travel time

Location: *Range of Valid Data Values: 0 to 150*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 150

Mean : 0.161

Standard deviation : 4.911

Variable Format: numeric

Variable: Boat travel time

Location:	Value	Label	Frequency
Width: 1	0 .		2797

Range of Valid Data Values: 0 to 0

Summary Statistics:

Minimum : 0

Maximum : 0

Mean : 0

Standard deviation : 0

Variable Format: numeric

Variable: Other modes travel time

Location: *Range of Valid Data Values: 0 to 40*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 40

Mean : 0.253

Standard deviation : 2.596

Variable Format: numeric

Variable: Waiting time

Location: *Range of Valid Data Values: -35 to 110*

Width: 1 **Summary Statistics:**

Minimum : -35

Maximum : 110

Mean : 1.369

Standard deviation : 7.063

Variable Format: numeric

Variable: Total trip duration

Location: *Range of Valid Data Values: 0 to 199*

Width: 8 **Summary Statistics:**

Minimum : 0

Maximum : 199

Mean : 28.786

Standard deviation : 26.483

Variable Format: numeric

Variable: Household ID

Location: *Range of Valid Data Values: 45 to 389*

Width: 2 **Summary Statistics:**

Minimum : 45

Maximum : 389

Mean : 203.063

Standard deviation : 90.804

Variable Format: numeric

Variable: Household ID

Location: *Range of Valid Data Values: 50 to 341*

Width: 2 **Summary Statistics:**

Minimum : 50

Maximum : 341

Mean : 193.038

Standard deviation : 81.726

Variable Format: numeric

Variable: Scenario number

Location:	Value	Label	Frequency
Width: 1	1 .		750
	2 .		726
	3 .		694
	4 .		522

Range of Valid Data Values: 1 to 4

Summary Statistics:

Variable Format: numeric

Variable: Date

Location:	Value	Label	Frequency
Width: 10	2009-11-17 .		31
	2009-11-19 .		13
	2009-11-20 .		48
	2009-12-02 .		24
	2010-03-15 .		22
	2010-03-19 .		14
	2010-03-23 .		20
	2010-03-24 .		84
	2010-03-25 .		54
	2010-03-26 .		91
	2010-03-27 .		8
	2010-03-29 .		188
	2010-03-30 .		78
	2010-03-31 .		79

2010-04-01 .	66
2010-04-07 .	119
2010-04-08 .	58
2010-04-09 .	118
2010-04-12 .	20
2010-04-13 .	52
2010-04-14 .	48
2010-04-15 .	16
2010-04-16 .	16
2010-04-19 .	62
2010-04-20 .	44
2010-04-21 .	20
2010-04-22 .	8
2010-04-23 .	79
2010-04-26 .	20
2010-05-03 .	38

2010-05-05 .	8
2010-05-10 .	128
2010-05-12 .	27
2010-05-14 .	12
2010-05-20 .	37
2010-05-25 .	46
2010-05-26 .	20
2010-05-31 .	28
2010-06-02 .	24
2010-06-14 .	28
2010-06-15 .	48
2010-06-16 .	36
2010-06-17 .	73
2010-06-18 .	40
2010-06-21 .	8
2010-06-22 .	60

2010-06-24 .	29
2010-06-25 .	65
2010-06-26 .	11
2010-06-28 .	28
2010-06-29 .	12
2010-07-01 .	12
2010-07-06 .	16
2010-07-07 .	36
2010-07-13 .	11
2010-07-15 .	16
2010-07-22 .	53
2010-07-23 .	39
2010-07-26 .	12
2010-07-29 .	21
2010-07-30 .	16
2010-08-05 .	32

2010-08-12 .	20
2010-08-26 .	18
2010-08-31 .	20
2010-09-03 .	40
2010-09-06 .	24

Summary Statistics:

Variable Format: character

Variable: Trip number

Location:	Value	Label	Frequency
Width: 7	1 .		686
	2 .		681
	3 .		485
	4 .		412
	5 .		202
	6 .		109
	7 .		53
	8 .		25
	9 .		15
	10 .		8
	11 .		4
	12 .		4
	13 .		4
	14 .		4

Range of Valid Data Values: 1 to 14

Summary Statistics:

Minimum : 1

Maximum : 14

Mean : 2.898

Standard deviation : 1.876

Variable Format: numeric

Variable: Trip purpose

Location:	Value	Label	Frequency
Width: 1	1 .	travel to the home location	1082
	2 .	accompanying somebody	85
	3 .	work	507
	4 .	education	24
	5 .	shop (daily needs)	240
	6 .	shop (long-term needs)	131
	7 .	errand	86
	8 .	business	56
	9 .	leisure	282
	10 .	other	199

Range of Valid Data Values: 1 to 10

Summary Statistics:

Variable Format: numeric

Variable: Departure time

Location:

Summary Statistics:

Width: 5

Variable Format: character

Variable: Arrival time

Location:

Summary Statistics:

Width: 5

Variable Format: character

Variable: Walk travel time

Location: *Range of Valid Data Values: 0 to 155*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 155

Mean : 4.665

Standard deviation : 11.678

Variable Format: numeric

Variable: Bike travel time

Location: *Range of Valid Data Values: 0 to 60*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 60

Mean : 1.517

Standard deviation : 5.828

Variable Format: numeric

Variable: Motorcycle travel time

Location: *Range of Valid Data Values: 0 to 90*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 90

Mean : 0.281

Standard deviation : 3.554

Variable Format: numeric

Variable: Car travel time

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

Width: 2 **Summary Statistics:**

Minimum : 0

Maximum : 180

Mean : 10.229

Standard deviation : 18.209

Variable Format: numeric

Variable: Bus travel time

Location: *Range of Valid Data Values: 0 to 90*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 90

Mean : 1.854

Standard deviation : 7.342

Variable Format: numeric

Variable: Tram travel time

Location: *Range of Valid Data Values: 0 to 90*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 90

Mean : 1.803

Standard deviation : 6.918

Variable Format: numeric

Variable: Rail travel time

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

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 180

Mean : 3.442

Standard deviation : 12.348

Variable Format: numeric

Variable: Plane travel time

Location: *Range of Valid Data Values: 0 to 150*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 150

Mean : 0.167

Standard deviation : 5.006

Variable Format: numeric

Variable: Boat travel time

Location:	Value	Label	Frequency
Width: 1	0 .		2692

Range of Valid Data Values: 0 to 0

Summary Statistics:

Minimum : 0

Maximum : 0

Mean : 0

Standard deviation : 0

Variable Format: numeric

Variable: Other modes travel time

Location: *Range of Valid Data Values: 0 to 40*

Width: 1 **Summary Statistics:**

Minimum : 0

Maximum : 40

Mean : 0.241

Standard deviation : 2.605

Variable Format: numeric

Variable: Waiting time

Location: *Range of Valid Data Values: -21 to 101*

Width: 1 **Summary Statistics:**

Minimum : -21

Maximum : 101

Mean : 1.414

Standard deviation : 6.219

Variable Format: numeric

Variable: Total trip duration

Location: *Range of Valid Data Values: 0 to 300*

Width: 8 **Summary Statistics:**

Minimum : 0

Maximum : 300

Mean : 25.613

Standard deviation : 24.604

Variable Format: numeric