

ODiN, the Dutch National Travel Survey

Statistics Netherlands

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Global characteristics ODiN

- Daily survey
- Continuous survey all year round
- Person survey (persons 6 years or older)
- CAWI-only (Computer Aided Web Interviewing)
- Annual sample of > 45,000 respondents (nationwide)



Characteristics CAWI questionnaire

- Logical structure based on way of thinking respondent
- No terminology and no definitions
- Limited use of instructions
- No redundant questions if register data is available



Example questionnaire: locations

	ler het adres <u>in Nederland</u> en kies daarna het juiste adres uit de suggesties. xtielweg Amersfoort' of 'Albert Heijn Utrecht'.
par, heerlen	
O Het adres	ligt in het buitenland
Zoeken	
De volgende	suggesties zijn gevonden:
○ SPAR exp	ress Heerlen Oost, Heerlen;Keulseweg Oost 1, 6419 PA Heerlen
	ger, Monseigneur Hanssenlaan, Hoensbroek, Heerlen; Monseigneur Hanssenlaan 83, 6433 BK
SPAR Vlie Hoensbro	ger, Monseigneur Hanssenlaan, Hoensbroek, Heerlen; Monseigneur Hanssenlaan 83, 6433 BK
SPAR Vlie Hoensbro	ger, Monseigneur Hanssenlaan, Hoensbroek, Heerlen;Monseigneur Hanssenlaan 83, 6433 BK ek
SPAR Vlie Hoensbro Sparstraa SPAR exp	ger, Monseigneur Hanssenlaan, Hoensbroek, Heerlen;Monseigneur Hanssenlaan 83, 6433 BK ek t, Heerlen;Sparstraat, 6413 PP Heerlen



Example questionnaire: stages

Welk(e) vervoermiddel(en) heeft u gebruikt onderweg tussen: **07:47** en **08:42**? Van: Verplaatsingsdreef 90, Heerlen (Thuis) Naar: MECC, Forum, Maastricht Vervoermiddel Tot Afstand Kilometer/meter Van Fiets, niet elektrisch 07:47 08:00 1,5 Kilometer Wis rij Trein 08:05 08:32 Wis rij Te voet 08:32 08:42 0,008 Meter Wis rij Selecteer vervoermiddel Kilometer 0,0 Wis rij Vorige Volgende



Results

Results of ODiN are also available in **English**

The next sheets contain a few examples of results. The results can be presented by different personal characteristics to analyze for instance inclusion.



StatLine

Mobility; per person, personal characteristics, modes of travel and regions

Changed on: 10 February 2022

Variables can be dragged to the header, rows or columns of the table. In the header only one item of a variable can be selected.

X

Population	Population 6 years or older						
Region characteristics	The Netherlands	T					
Margins	Value	T					

		Topic	Modes	of travel T	Periods	T											
		Average Trips	werage per person per day							Distance	e travelled						
	Sex T		Passenger	Passenger car						Distance	Passenger	Passenger car					
Personal characteristics T		Total	(driver)	(passenger)	Train	Bus/metro	Bike	Walking	Other	Total	(driver)	(passenger)	Train	Bus/metro	Bike	Walking	Other
		2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020	2020
			number passenger kilometres														
Male	Participation: working 12 -29 h. a week	2.40	0.85	0.11	-		0.77	0.42	0.15	26.00	14.33	2.26	-		3.23	1.02	2.53
	Participation: working >30 hours a week	2.55	1.30	0.08	0.04	0.02	0.47	0.46	0.19	38.98	27.02	1.90	1.82	0.35	2.47	1.09	4.34
	Participatie:student/scholier	2.23	0.12	0.43	0.05	0.05	1.02	0.47	0.09	17.26	2.03	6.96	2.35	0.95	3.45	0.88	0.64
	Participation: unemployed	1.93	0.55		-		0.55	0.63	-	14.76	7.68				2.66	1.23	
	Particip.: claiming disability benefit	1.85	0.48		-		0.49	0.58	-	13.39	5.80				2.26	1.29	
	Participation: retired	1.98	0.82	0.07	-		0.49	0.51	0.06	19.96	12.07	1.38			3.47	1.23	1.33
	Participation: unemployed, other	1.91	0.76		-		0.41	0.44	0.19	20.52	13.23				2.00	1.03	2.58
Female	Participation: working 12 -29 h. a week	3.04	1.30	0.28	0.03	0.03	0.76	0.61	0.04	26.63	14.79	5.95	1.20	0.41	2.55	1.29	
	Participation: working >30 hours a week	2.71	1.11	0.27	0.06	0.05	0.56	0.61	0.04	30.81	17.27	6.03	2.70	0.58	2.22	1.36	0.66
	Participatie:student/scholier	2.30	0.11	0.55	0.06	0.08	0.93	0.51	0.06	17.81	1.86	7.82	2.75	1.16	2.96	0.89	0.37
	Participation: unemployed	2.30	0.74	0.26			0.57	0.65	-	17.86	9.24	4.96			1.51	1.33	
	Particip.: claiming disability benefit	1.93	0.42	0.26			0.43	0.66		12.09	3.55	4.79			1.21	1.22	
	Participation: retired	1.78	0.43	0.27		0.02	0.49	0.54	0.03	14.36	4.65	4.84		0.17	2.42	1.15	
	Participation: unemployed, other	1.95	0.55	0.28		0.02	0.52	0.53	0.03	14.94	6.19	4.84		0.21	1.84	1.06	0.22



Personal characteristics available in ODiN (which can be divided by sex)

Personal characteristics Total □ Total Age Age: 6 to 11 years Age: 12 to 17 years Age: 18 to 24 years Age: 25 to 34 years Age: 35 to 49 years Age: 50 to 64 years Age: 65 to 74 years Age: 75 years or older Background Equivalised income ☑ Equivalised income: 1st 20%-group ☑ Equivalised income: 2nd 20%-group ☑ Equivalised income: 3rd 20%-group ☑ Equivalised income: 4th 20%-group ☑ Equivalised income: 5th 20%-group Students Students with week pass publ. transp. Students with weekend pass publ. transp. Persons without student publ.transp.card

✓ Level of educ
☑ Level of educ: 1. Low
☑ Level of educ: 2 Intermediate
☑ Level of educ: 3 High
☑ Participation
☑ Participation: working 12 -29 h. a week
✓ Participation: working >30 hours a week
☑ Participatie:student/scholier
☑ Participation: unemployed
☑ Particip.: claiming disability benefit
☑ Participation: retired
☑ Participation: unemployed, other
☑ Driver's license, pass. car, in own name
☑ Driver's license, passenger car in hh
☑ Driver's license, no passenger car in hh
✓ No driver's license; 17 years or older
✓ No driver's license; under 17



History of the Dutch National travel survey

- 1978-2003: OVG (Onderzoek Verplaatsingsgedrag)
- 1978-1993: household survey by means of a diary, population aged 12 years or older.
- 1994 sample from total population.
- 1999 survey through diary plus motivation by telephone in advance.
- 2004-2009: MON (Mobiliteitsonderzoek Nederland)
- Household survey (diary plus motivation by telephone in advance) was carried out by the company Social
 Data on behalf of the Ministry of Transport. Although the intention was that there would be no break in
 the method, this happened insidiously.
- 2010-2017: OViN (Onderzoek Verplaatsingen in NL)
- Survey conducted by Statistics Netherlands.
- Changes: Mixed Mode design: CAWI, CATI, CAPI.
- No longer household survey but a sample of individual persons.
- Data was enriched with register information such as the vehicle fleet.
- 2018-heden: ODiN (Onderweg in Nederland)
- Survey design completely renewed. Questionnaire requested via PC or tablet.
- Population: 6 years or older.



Themes

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StatLine

Mobility trend; per stage, modes of travel, purposes of travel, age and sex

Changed on: 2 February 2022

Variables can be dragged to the header, rows or columns of the table. In the header only one item of a variable can be selected.

Sex Total male and female

Margins Value

			Modes of	travel 👅	Topic T									
			Car as driver		Car as passenger		Train		Bus/metro		Bike		Walking	
Periods Y Age Y Travel motives Y			Stages per person per day (average)	Distance travelled per stage	Stages per person per day (average)	Distance travelled per stage (average)	Stages per person per day (average)		Stages per person per day (average)	Distance travelled per stage	Stages per person per day (average)		Stages per person per day (average)	Distance travelled per stage (average)
mave	· mouves		number	passenger kilometres	number	passenger kilometres	number	passenger kilometres	number	passenger kilometres	number	passenger kilometres	number	passenger kilometres
1999°	Total	Total	0.93	15.90	0.50	15.89	0.06	45.68	0.14	10.19	0.77	3.04	0.69	1.13
		Travel to/from work, (non)-daily commute	0.23	20.47	0.04	22.20	0.02	38.65	0.04	10.23	0.12	3.63	0.06	0.88
		Shopping, groceries, funshopping.	0.19	6.71	0.08	8.89	0.00	36.40	0.02	7.61	0.18	1.96	0.16	0.93
		Attending education/courses	0.02	16.33	0.04	5.64	0.01	34.65	0.03	11.51	0.13	2.75	0.11	0.71
		Other	0.48	17.32	0.34	18.15	0.02	60.84	0.05	10.45	0.34	3.51	0.37	1.38
	0 to 5 years	Total			1.24	9.77	-	-	0.03	7.96	0.64	1.99	0.84	0.97
		Travel to/from work, (non)-daily commute												
		Shopping, groceries, funshopping.			0.07	6.23	-	-	_	-	0.04	1.69	0.08	0.98
		Attending education/courses			0.23	3.19			-	_	0.20	1.39	0.20	0.61
		Other			0.94	11.65			0.02	8.25	0.40	2.32	0.56	1.09
	18 to 24 years	Total	0.88	15.27	0.49	18.82	0.21	41.85	0.44	10.80	0.86	3.09	0.87	0.94
		Travel to/from work, (non)-daily commute	0.27	17.62	0.08	20.70	0.04	34.04	0.10	10.48	0.21	3.33	0.13	0.76
		Shopping, groceries, funshopping.	0.12	7.11	0.07	10.61	0.01	38.23	0.04	8.15	0.14	1.86	0.16	0.79
		Attending education/courses	0.05	20.58	0.02	18.80	0.10	35.10	0.20	11.25	0.13	3.13	0.20	0.73
		Other	0.44	15.45	0.31	20.11	0.06	58.69	0.11	11.14	0.37	3.42	0.38	1.17
	60 to 64 years	Total	0.88	15.67	0.37	18.71	0.03	60.69	0.08	9.64	0.65	3.68	0.60	1.50
		Travel to/from work, (non)-daily commute	0.08	17.97	0.02	19.59			0.01	10.31	0.05	3.31	0.03	0.96
		Shopping, groceries, funshopping.	0.25	7.21	0.10	9.20			0.03	7.74	0.29	2.25	0.22	1.07
		Attending education/courses	0.01	16.13	_	-	-	_	_	_	_	-	_	_
		Other	0.53	19.32	0.25	22.49	0.02	70.93	0.04	10.70	0.30	5.16	0.35	1.82
	70 years or older	Total	0.42	12.14	0.25	15.05	0.02	65.47	0.09	9.43	0.37	3.66	0.54	1.28
		Travel to/from work, (non)-daily commute		_	_	_	-	_	_	_	_	-	_	_
		Shopping, groceries, funshopping.	0.14	6.41	0.07	7.36	_		0.04	7.73	0.18	2.24	0.25	1.02
		Attending education/courses		_	_	_	_	_	_	_	_			_
		Other	0.27	15.01	0.18	17.82	0.01	73.41	0.05	10.83	0.19	5.06	0.29	1.52
2020°	Total	Total	0.71	15.85	0.28	14.72	0.03	40.62	0.05	6.99	0.58	3.65	0.63	1.56
		Travel to/from work, (non)-daily commute	0.19	22.30	0.01	18.13	0.01	34.07	0.01	6.61	0.09	4.20	0.05	0.78
		Shanning arresping functioning	0.17	4 27	0.04	7.00	0.00	27 42	0.01	4 91	0.16	2.00	0.14	0.94



Questions?



Definitions of topics used in the Dutch National Travel survey

Stages per person per day (average)

This concerns the traffic participation of persons expressed in the average number of stages (or trip legs) per person per day. A stage is a trip or part of a trip that takes place with one single mode of transport. For example, a trip from home to work with successively the bicycle to the station, the train and on foot to the office consists of three stages (or trip legs). Stages with an aircraft are not included in the investigation.

This is the average over all persons living in the Netherlands in private households, so excluding residents of institutions and homes. The average also includes people who indicated that they had not travelled on the survey day.

Distance travelled per stage (average)

A trip consists of one or more stages taking place with a single means of transport. A new stage is defined when there is a change in the form of transport or when there is a change of vehicle. For example, in the case of a trip from home to work taking place successively by bicycle to the station, by train and then on foot to the office consists of three stages. A stage is also known as a trip leg.

The average number of passenger kilometres travelled per stage per travel mode. In those cases where several travel modes have been used for a trip this does not include the entire distance of the trip, but only the (stage) distance with the travel mode in question. For example, when travelling from the shop to work by walking, bus and walking, for the calculation of the average distance per stage with regard to the means of transport 'walking', only the (distances of the) two walking stages are taken into account. Stage distances with an aircraft are not included in the study.

Trips

The average number of trips per person per year. A trip, is a one-way course of travel with a single main purpose regardless of whether one or more means of transport are used. Switching to another mode of transport does not count as a new trip. In tables showing trips in combination with mode of transport, the main mode of transport is used. For trips made with multiple modes of transport, the vehicle with which the longest distance has been travelled is the main mode of transport. For example, when travelling from home to work with successively the bicycle (3 km) to the station, the train (50 km) and on foot (1 km) to the office, the entire trip is counted as one train trip of 54 km.

Distance travelled

The average number of passenger kilometres travelled by a person in a year. The distance travelled per mode of travel is counted on basis of mode of transport of a stage so that pre-transport and post-transport are measured separately. For example, when travelling from home to work with successively the bicycle to the station, the train and on foot to the office, the passenger kilometres for the three modes of transport are counted separately.



Dutch National Travel survey: hyperlinks

Mobility trend; per stage, modes of travel, purposes of travel, age and gender

A survey summary of samples and registrations in English is available in: Dutch National Travel survey (cbs.nl)

A short description of the research method of the development of the trend estimates can be found in:

Mobility trend National Travel surveys 1999-2020 Mobility trend National Travel surveys 1999-2020

A detailed explanation of the trends estimate can be found in the article:

Time series modelling of mobility trends, 1999-2020

Other ODiN tables:

Mobility; per person, personal characteristics, travel purposes and regions

Mobility; per person, personal characteristics, modes of travel and regions

Mobility; per person, trip characteristics, travel purposes and region

Mobility; per person, trip characteristics, modes of travel and regions

Mobility; per trip, modes of travel, purposes of travel and regions

Total transport performance in the Netherlands; modes of travel and regions

Traffic participation and participation in public transport

Mobility; per trip, purposes of travel, trip characteristics, and regions

Mobility; per trip, trip characteristics, modes of travel, and regions

An elaborate report about ODiN results and changes in 2018-2020 is available in Dutch:

Eindrapportage heropleveringen ODiN 2018-2020

A more detailed description of samples, registrations and the method used available in Dutch:

Onderweg in Nederland (ODiN) 2018.

Onderweg in Nederland (ODiN) 2019.

Onderweg in Nederland (ODiN) 2020.

