Methodologies used in road freight transport surveys in Member States, EFTA and 3 Candidate countries 2023 edition
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Introduction

The present document contains the methodologies used by Member States, EFTA and Candidate Countries for their surveys on road freight transport statistics.

This document provides a quite extensive coverage of what is available on road transport statistics methodology.

It is set out as following:

- Part 1 describes national methodologies for data collection. Information presented there is based on the national metadata completed by the reporting countries. These national metadata files refer to the existing information up to the first quarter of 2022.

- Part 2 includes summary tables, with the basic information on sampling, response rate, register quality and precision of results of the surveys.

Data on the register used to draw the sample and the sampling methodology is relevant to the surveys conducted in the first quarter of 2022, while the main figures given for each country refer to the years 2021 and 2022, according to data availability. Out of all the yearly figures, only the total number of statistical units is calculated as the average of the quarterly data, whereas for all the others, sums are considered. The results presented in the summary tables have been calculated from the supplementary B-tables.

Concepts and definitions used in road freight transport statistics can be found in the manual ‘Road freight transport methodology’, i.e., the reference manual for the implementation of the Regulation (EU) No 70/2012 on statistical returns in respect of the carriage of goods by road.

Further information on road freight transport statistics

Detailed data and metadata are available in the Eurostat dissemination database under the collection ‘Road freight transport measurement (road_go)’
http://ec.europa.eu/eurostat/data/database

‘Road freight transport methodology’, the reference manual for the implementation of the Regulation (EU) No 70/2012 on statistical returns in respect of the carriage of goods by road:
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Methodologies used in road freight transport surveys in Member States, EFTA and Candidate Countries

Belgium

Organisation responsible for the conducting the survey:
Statistics Belgium

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Register of Motor Vehicles.

Name of organisation who maintains the register:
Ministry of Mobility and Transport.

Frequency of update:
Monthly.

Frequency of access to draw the samples:
Weekly.

Arrangements for accessing the register:
The register is obtained by file transfer.

Information obtained from the register:
Name and address of owner, license plate number, chassis number, VAT-number, load capacity, type of vehicle, type of body, brand.

Stratification: load capacity and type of body.

Procedure for reminders:
One reminder is sent after 1 month.

Response rate: 50-60 %.
Sampling methodology

Statistical unit:
Tractive vehicle.

Types of units excluded:
Agricultural vehicles, military vehicles, public administration and public service vehicles and vehicles not destined to the transport of goods.
Vehicles with a load capacity of less than 1 tonne.

Time unit:
One week.

Time units of quarter 1 of 2022 included in the survey:
All (13 weeks).

Stratification:
The sample is stratified according to 2 criteria: own account versus hire or reward and load capacity (9 classes): this gives 18 strata.

Recording of weight of goods:
Gross weight of goods is collected, i.e., containers swap bodies and pallets are excluded.

Recording of journey data sent to Eurostat:
Single stop: There is a 1-to-1 relation between journeys and goods (1 journey = 1 (main) good).
Multi stop: The distance considered for the calculation of the tonne-kilometres is the 2/3 of the total course in loading.
Collection/delivery: The distance considered for the calculation of the tonne-kilometres is the half of the total course in loading.

Calculation of weighting factors:
Weighting factor = \( \frac{13 \times N}{S + S'} \)

N = number of vehicles in the register (in a stratum)
S = number of questionnaires used in analysis (in A1 dataset)
S' = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

Additional (optional) variables collected compared to the legal requirements:

Environmental impact related variables: none

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (YES)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (NO)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation 'fully loaded' (procedure 2) or 'not fully loaded' (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

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<td>Total number of relevant goods vehicles in the country</td>
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<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
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<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
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<td>Number of cases classified as non-respondents</td>
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<td>Number of cases where sample register information was wrong and response could not be used</td>
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More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Bulgaria

Organisation responsible for the conducting the survey:
National Statistical Institute

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Register of Motor Vehicles.

Name of organisation who maintains the register:
The Ministry of Interior.

Frequency of update:
Quarterly updated.

Frequency of access to draw the samples:
Once a quarter.

Arrangements for accessing the register:
Bilateral inter-institutional agreement between the NSI and the Ministry of Interior for providing statistical information.

Information obtained from the register:
Vehicles' registration number, type of vehicle, year of first registration, maximum permissible laden weight, load capacity, number of axes, region, name and address of the owner, model gross weight.

In the stratification of the sample are used region and gross weight.

Procedure for reminders:
First reminder: 2 weeks after the end of the surveyed week.
Second reminder: 4 weeks after the end of the surveyed week.

The response rate is adequate.

Sampling methodology

Statistical unit:
Tractive vehicle.

Types of units excluded:
Vehicle with maximum permissible laden weight under 6 tonnes, military vehicles, vehicles of the Ministry of Interior and other public administrations, agriculture tractors and other motor vehicles not designed to carry goods, vehicles with weight and dimensions exceeding the normal permitted limits of the country.

Time unit:
One week.
Time units of quarter 1 of 2022 included in the survey:
All (13 weeks).

Stratification:
The sample for each quarter of the year is stratified by vehicles’ gross weight (6 groups) and country’s regions (28 regions), which give 168 strata.
The annual size of the sample for 2014 is provided on the base of sample size, tonnes carried and tonne-kilometres performed in 2013 and is stratified by vehicles’ gross weight into 6 groups:
- Group 1: Lorries and special vehicles with gross weight up to 7 499 kg;
- Group 2: Lorries and special vehicles with gross weight from 7 500 kg up to 14 999 kg;
- Group 3: Lorries and special vehicles with gross weight from 15 000 kg up to 16 999 kg;
- Group 4: Lorries and special vehicles with gross weight from 17 000 kg up to 24 999 kg;
- Group 5: Lorries and special vehicles with gross weight above 25 000 kg;
- Group 6: Road tractors.
Each quarter the 6 groups sample is distributed proportionally by the 28 regions.

Recording of weight of goods:
Gross weight of goods is reported. The containers swap bodies or pallets are excluded from the weight of goods.

Recording of journey data sent to Eurostat:
Single stop: Respondents can record only one type of goods, i.e., goods of larger weight. If no type of goods is dominant, the commodity 'Miscellaneous' is recorded.
Multi stop: Each transport operation is recorded.
Collection deliver: For type 3 journeys with more than 5 points for loading and unloading, the respondents are asked to fill in the total distance travelled loaded and the total distance empty, the total weight of transported goods, the main type of goods and the number of stops.

Calculation of weighting factors:
Weighting factor = $13 \times \frac{N}{S+S'}$
N = number of vehicles in the register (in a stratum)
S = number of questionnaires used in analysis (in A1 dataset)
S' = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

Additional (optional) variables collected compared to the legal requirements:

Optional variables covered:
- Vehicle empty kilometres
- Type of cargo
- Axle configuration
- Degree of loading of the vehicle

Environmental impact-related variables:
- Type of fuel used and fuel consumption.
A1. Vehicle-related variables:
• possibility of using vehicles for combined transport (YES)
• vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO)
• vehicle empty kilometres (YES)

A2. Journey-related variables:
• axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
• place of loading, if any, of the road transport vehicle on another means of transport (YES)
• place of unloading, if any, of the road transport vehicle from another means of transport (YES)
• situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

A3. Goods-related variables:
• type of freight (Cargo types) as defined in the Regulation (YES)

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<th>2021</th>
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<td>83 125</td>
<td>82 700</td>
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<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>16 000</td>
<td>16 000</td>
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<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>3 258</td>
<td>3 393</td>
</tr>
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<td>Number of cases classified as non-respondents</td>
<td>6 065</td>
<td>6 302</td>
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<td>3 260</td>
<td>2 785</td>
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<td>Number of questionnaires used in analysis</td>
<td>3 417</td>
<td>3 525</td>
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More information in Country and table specific notes:
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Czechia

Organisation responsible for the conducting the survey:
Ministry of Transport
(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Central Register of Vehicles.

Name of organisation who maintains the register:
Ministry of Transport.

Frequency of update:
Continuously.

Frequency of access to draw the samples:
Once a quarter.

Arrangements for accessing the register:
Sample of road vehicles is being selected by the administrator of the Central Register of Vehicles following agreed criteria (according to territorial units and weight categories).

Information obtained from the register:
List of vehicles including assigned license plate, holders of vehicle company, territorial unit (districts), type of body of goods road vehicle, weight category, vehicle type, year of first registration, fuel used, load capacity, permissible weight and number of axles.

Used in stratification: Load capacity, vehicle type and territorial unit.

Procedure for reminders:
The questionnaire for a given period surveyed is sent one week in advance. The deadline for response is 12 days following the end of the period surveyed. The first reminder is sent 14 days following termination of the mentioned period. If no response is received within next 14 days, the second reminder is sent to the vehicle’s holder.

If the Ministry of Transport is informed about the recent change of the ownership of a vehicle (not recorded in the register yet) or about leasing of a vehicle, then, if possible, a questionnaire is sent once more to the real operator of the vehicle.

The response rate is considered quite adequate, it varies around 91%.
Sampling methodology

Statistical unit: Tractive vehicle.

Types of units excluded: Vehicles with a load capacity less than 2 tonnes and vehicles with oversized load, agriculture vehicles, military vehicles and public administration vehicles.

Time unit: One week.

Time units of quarter 1 of 2022 included in the survey: All (13 weeks).

Stratification: The sample is stratified according to 4 weight categories and 8 territorial units.

Weight categories:
1. 2 - 6 tonnes
2. 6 - 10 tonnes
3. More than 10 tonnes
4. Tractors

Territorial units:
1. Praha
2. Střední Čechy
3. Jihozápad
4. Severozápad
5. Severovýchod
6. Jihovýchod
7. Střední Morava
8. Moravskoslezske

The stratum code consists of 2 numbers. The first is the code of the weight category and the second is the code of the territorial unit (e.g., 11, 12, ..., 18, 21, 22, ..., 28, ..., 41, ..., 48).

Recording of weight of goods: Gross weight of goods is collected. Large freight containers and swap bodies are excluded from the weight of goods. The pallets are included in the weight of goods.

Recording of journey data sent to Eurostat: Single stop: Respondents can record only one type of goods, i.e., goods of largest weight.
Collection/delivery: The first place of loading of the goods and the furthest place of unloading is being used.

Other variables: Most frequently used type and axle configuration of trailers or semi-trailers during a surveyed week is used for coding.
Calculation of weighting factors:

Weighting factor = 13 * \( \frac{N}{S+S'} \)

N = number of vehicles in the register (in a stratum)
S = number of questionnaires used in analysis (in A1 dataset)
S' = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables: none

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
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<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
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<tr>
<td>Total number of relevant goods vehicles in the country at mid-point of year</td>
<td>163 566</td>
<td>165 398</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires despatched to vehicle owners</td>
<td>17 960</td>
<td>17 960</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>4 169</td>
<td>4 290</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>2 007</td>
<td>1 960</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>2 162</td>
<td>2 045</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>9 622</td>
<td>9 665</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Denmark

Organisation responsible for the conducting the survey:
Statistics Denmark

*(Based on information referring to the first quarter of 2019)*

Sampling register used for the survey

**Name of register:**
Central Register of Motor Vehicles (CRM) and Road Worthiness Test (RWT).

**Name of organisation who maintains the register:**
Danish Tax Authority (Skat).

**Frequency of update:**
Monthly.

**Frequency of access to draw the samples:**
Quarterly.

**Arrangements for accessing the register:**
Statistics Denmark receives monthly a complete copy of the Danish register for motor vehicles and maintains a full copy for analytical and statistical purposes. From this copy a selection of vehicles is selected.

**Information obtained from the register:**
From Register of vehicles:
- Vehicle Registration number
- Type of vehicle (lorry, road tractor, etc.) (*)
- Primary vehicle use (freight, taxi, etc.)
- Net weight
- Maximum permissible laden weight (*)
- Unladen vehicle weight
- Number of axles
- Available coupling
- Type of permission for the vehicle use (e.g., own account, road freight, animal transport, etc.) (*)
- First date of registration in Denmark
- VAT number of owner

From Roadworthiness test:
- Vehicle registration number
- Date of last road worthiness test
- Odometer reading (*)

(*) indicated stratification variables.
Procedure for reminders:
Statistics Denmark has a general policy and procedure for reminders that is followed in the road freight survey.
First written reminder (by e-mail, if known) 1 week after collection week.
Second written reminder (by e-mail, if known) 2 weeks after collection week.
Third reminder by phone 3 weeks after collection week.
Fourth written reminder by registered letter.
After last due date set in the fourth reminder, the matter is turned over to the police for legal proceedings according to Law on Statistics Denmark. First time fines are usually set to DKK 800 (approximately EUR 100).
The response rate is between 98 and 99 %.

Sampling methodology

Statistical unit:
Tractive vehicle.

Types of units excluded:
Vehicles below 6 tonnes maximum permissible laden weight and personally owned vehicles are excluded.

Estimations for the vehicle-km (or performance) not covered by the survey:
Based on odometer readings an estimate for the total vehicle-km for all vehicles above any limit can be made. It is however not possible to assess neither vehicle-km nor performance not covered on road freight transport since not all vehicle-km should be counted as road freight.

Time unit:
1 week.

Time units of quarter 1 of 2019 included in the survey:
All (13 weeks).

Stratification:
The variable STRATUM indicates the strata of the vehicle with a three-digit code. Stratification is done by type of vehicle, use of vehicle and the expected vehicle-km.
First digit is the type of vehicle and can assume the following values:
1. = Sole lorries (mostly)
2. = Lorries with coupling, 15 - 18 tonnes
3. = Lorries with coupling, 18 - 24 tonnes
4. = Lorries with coupling, above 24 tonnes
5. = Road tractor, less than 18 tonnes
6. = Road tractor, 18 - 24 tonnes
7. = Road tractor, above 24 tonnes
Second digit is the use of vehicle and can assume the following values:
1. = Transport by reward
2. = Own account

Third digit is the expected vehicle-km based on past performance within the strata based on the first two digits from the odometer reading in the road worthiness tests and can assume the following values:
1. = Less than median
2. More than median
3. New vehicle (no odometer readings)

**Recording of weight of goods:**
The weight of containers, swap bodies, etc. are excluded the weight of goods.

**Recording of journey data sent to Eurostat:**
Single stop: Type 1 (single stop) journeys includes multi-stop journeys in the Danish survey. The journeys are split by stages and type of good is the dominant good.
Multi stop: It is assumed that multi-stop journeys are small in number and can be described as a series of single journeys or as a collection/delivery journey.
Collection/delivery: Tonne-kilometres = 0.5 * tonnes loaded * journey length

**Calculation of weighting factors:**
Weighting factor = \[13 \times \frac{N}{R}\]
N = number of vehicles in the register (in a stratum)
R = number of responses within stratum

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact related variables:**
None. Outside the scope of freight statistics, emissions are calculated within the environmental satellite account to national accounts.

**A1. Vehicle-related variables:**
- possibility of using vehicles for combined transport (YES)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

**A2. Journey-related variables:**
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

**A3. Goods-related variables:**
- type of freight (Cargo types) as defined in the Regulation (NO)
<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country at mid-point of year</td>
<td>36 478</td>
<td>37 222</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires despatched to vehicle owners</td>
<td>8 460</td>
<td>8 650</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>2 772</td>
<td>2 849</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>204</td>
<td>190</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>419</td>
<td>513</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>5 065</td>
<td>5 098</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified DESC
Germany

Organisation responsible for the conducting the survey:
Kraftfahrt-Bundesamt (KBA)

*(Based on information referring to the first quarter of 2022)*

Sampling register used for the survey

Name of register:
Zentrales Fahrzeugregister (ZFZR).

Name of organisation who maintains the register:
Kraftfahrt-Bundesamt (KBA).

Frequency of update:
Continuous.

Frequency of access to draw the samples:
Every 4 weeks.

Arrangements for accessing the register:
As administrative database of nationally registered vehicles, the register is located and maintained in a unit which is totally distinct from the statistical domain. Data access is legitimated by national legal act and strictly limited to the variables given in the law. Data access is logged and carried out via webservice.

Sampling from the register is carried out in accordance with the sample and stratification plan which is designed in cooperation with NSA (Federal Statistical Office).

Information obtained from the register:

Information for stratification: address of the vehicle owner, owner group, region of registration, type of vehicle, load capacity.

Information to conduct the survey: licence plate number, name and address of the vehicle owner, maximum permissible laden weight, load capacity, type of vehicle and body type, owner group.

Information to relieve the burden of respondents: date of first registration of the vehicle, maximum permissible laden weight, load capacity, engine power, number of axles, type of vehicle and body type, region of registration (Bundesland), owner group, exhaust emissions class.

Procedure for reminders:
Questionnaires are being sent out weekly for two reporting periods of a half-week at the time. Thus, the questionnaire gets to the respondent close to the reporting period (about 10 days ahead). If the vehicle owner is not the user, after notification a questionnaire is sent soonest possible to the user. As a response obligation exists the deadline is checked weekly (about 12 days after the end of the reporting period). If the questionnaire remained unanswered, one reminder is sent. If the reminder remains unanswered as well, a penalty procedure is launched. Response can be made either by online-questionnaire (available since the end of 2006) or by paper-questionnaire. A hotline is installed.

The sample includes roughly 180.000 vehicles per year in Germany drafted in a total of 13 sample series. Flyback results indicate a response rate of about 93 %. Approximately 67% have responded providing journey data. The register quality is around 95%.
Sampling methodology

**Statistical unit:**
Tractive vehicle.

**Types of units excluded:**
Not covered are operations by heavy utility vehicles of categories N2 and N3 (see Directive 2007/46/EC of the European Parliament and of the Council) which are:
- not designed for the transportation of goods such as:
  - Special purpose lorries (BA16, BA19, BA20, BA23, BA25, BA26, BA27, BA28, BA31)
  - Tractors (BD)
  - Mobile crane (SF)
- vehicles of public administrations;
- vehicles which are over 30 years of age (from 2015 onwards).

Also not covered are operations by light lorries up to 3.5 tonnes (including) weight capacity or up to 6 tonnes (including) maximum permissible laden weight (if weight capacity is not present).

**Estimations for the vehicle-km (or performance) not covered by the survey:**
Estimation of vehicle-km can be done using odometer readings from road worthiness tests for motor vehicles. Thereafter the estimation for vehicle-km of all light-duty lorries (up to 6 tons maximum permissible weight, including vehicles not designed for freight transport) comes up to about 54.6 thousand million km in 2019.

**Time unit:**
Half a week (either Sunday 22 o’clock to Wednesday 24 o’clock, or Thursday 0 o’clock to Sunday 22 o’clock).

**Time units of quarter 1 of 2022 included in the survey:**
27 half-weeks (from 5 sample series).

**Stratification:**
Stratification is done in 5 hierarchical steps; 72 strata are distinguished:

1. **1st level:** Fleet size (2 classes)
2. **2nd level:** Owner group (2 categories)
3. **3rd level:** Region of vehicle registration (6 categories)
4. **4th level:** Vehicle class (2 classes)
5. **5th level:** Vehicle size of lorry (2 classes)

Number of stratum for vehicles

**First digit:** Region of registration (grouped NUTS 1)

1: Ostsee: Schleswig-Holstein (DEF), Mecklenburg-Vorpommern (DE8)
2: Nordsee: Bremen (DE5), Hamburg (DE6), Niedersachsen (DE9)
3: Nordrhein-Westfalen (DEA)
4: Mitte: Hessen (DE7), Rheinland-Pfalz (DEB), Saarland (DEC)
5: Ost: Berlin (DE3), Brandenburg (DE4), Sachsen (DED), Sachsen-Anhalt (DEE), Thüringen (DEG)
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6: Süd: Baden-Württemberg (DE1), Bayern (DE2)

Second digit: Owner features (registered economic activity and fleet size in the population)

Owner group ‘Transportation and storage’

1: fleet up to 5 vehicles
2: fleet of more than 5 vehicles

Other owner groups

3: fleet up to 5 vehicles
4: fleet of more than 5 vehicles

Third digit: Vehicle features (vehicle class and size)

Owner group ‘Transportation and storage’

0: road tractor
1: lorry; load capacity of 3 501 tonnes to less than 11 500 tonnes
2: lorry; load capacity of 11 500 tonnes and more

Other owner groups

0: road tractor
3: lorry; load capacity of 3 501 tonnes to less than 9 500 tonnes
4: lorry; load capacity of 9 500 tonnes and more

Recording of weight of goods:

Gross weight of goods is collected, i.e., containers swap bodies and pallets are excluded.

Recording of journey data sent to Eurostat:

For every single journey or vertical stage (in case of multi-stop journey) data are collected for goods weight (kilogram) and vehicle-kilometres (kilometre) from which transport performance (tonne-kilometres) or journey-related data (in case of multi-stop journey) are calculated.

Journey type 1 (single stop):

Variable A2.2 = Weight of goods transported on the journey (weight)
Variable A2.5 = Distance travelled on the journey (distance)
Variable A2.6 = A2.2 * A2.5 (transport performance)

Journey type 2 (multi-stop): The measures for the journey are calculated from vertical stage data.

Variable A2.2 = A2.6 / A2.5 (weight; weighted average)
Variable A2.5 = Sum of distances travelled on all vertical stages (distance)
Variable A2.6 = Sum of each stage’s product of “kg” * “km” (transport performance)
Variable A3.2 = A2.2 (weight)
Variable A3.7 = A2.5 (distance)
Journey type 3 (collection/delivery)
Variable A2.2 = Maximum weight of goods transported on the journey (weight; maximum)
Variable A2.5 = Distance travelled on the journey (distance)
Variable A2.6 = A2.2 * A2.5 (transport performance)
Variable A3.2 = A2.2 (weight)
Variable A3.7 = A2.5 (distance)

Calculation of weighting factors:
The calculation of the grossing factor is done on a monthly basis (not quarterly) in two steps. At first each series is extrapolated considering missing answers in stratum using multiplicative completion. In a second step a monthly and stratum adaptation to the current stock data is done. Since the survey period may cover two different months the vehicle day is the unit for the adaptation instead of the survey period.
The grossing factor for the journeys of a vehicle, that belongs to a stratum h, drawn in series i, with journeys in month j is as follows:

\[ \frac{M_{hj}}{\hat{M}_{hj}} \cdot \frac{\hat{N}_{hi}}{n_{hi} - n_{hi,a}} \]

- \( N_{hi} \) = number of vehicles in stratum h at the time of the drawing of the series i
- \( n_{hi} \) = number of selected vehicles in stratum h of series i
- \( n_{hi,a} \) = number of real non-response of vehicles in stratum h, which were selected in series i (no feedback, refusals, questionnaire undeliverable, specifications of user not available)
- \( M_{hj} \) = number of vehicle-days in stratum h in month j of the population
- \( \hat{M}_{hj} \) = number of vehicles-days in stratum h in month j extrapolated from the sample

\( M_{hj} \) should be correctly identified using a daily count of each stratum of the vehicle register and in adding in each stratum the results of all days in the month. For practical reasons a good approximation is made multiplying the stock made up of stratum on the 15th of each month with the length of the month in days (i.e., 28, 29, 30 or 31). The method of extrapolation with the monthly adaptation to the actual stock of vehicles allows including estimates for the registration of new vehicles between the date of the sample drawing and the reference period. Missing answers are also estimated. Under the assumption that missing answers in each stratum occur at random the additional estimation of missing answers does not cause any bias.

The weighting factor is affected by the following items:

- **Reporting period not congruent with quarter**
  The initial sample of one sample series (vehicle sample stratified by 72 strata) covers a reporting period of 8 half-weeks (time-related sample).

- **Reminder**
  One reminder, send to non-respondents, gives a new reporting period. The new reporting period can be in another quarter.

- **Monthly grossing up**
  As data is collected continuously in sample series with time-units of a half-week a reference period of one quarter is covered by 27 half-weeks (from 5 sample series). As one vehicle may report in two different months and grossing up is done monthly these vehicles have
different grossing factors in each month and are reported as different A1-records. So, the number of A1-records is higher than the selected vehicles in the initial sample. As “grossing up factor used” varies within strata and number of A1-records is related to “grossing up factor used” Germany provides table B1 since reporting period 2015 (including) in two tables as agreed by e-mail of 16 December 2016. Table B1a gives the information about the initial sample and table B1b gives the number of A1-data records.

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact related variables:** none

**A1. Vehicle-related variables:**
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO)
- vehicle empty kilometres (YES)

**A2. Journey-related variables:**
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (YES)
- place of unloading, if any, of the road transport vehicle from another means of transport (YES)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

**A3. Goods-related variables:**
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>559 492</td>
<td>567 247</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>183 085</td>
<td>186 060</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>37 716</td>
<td>39 532</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>13 618</td>
<td>14 812</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>9 238</td>
<td>9 485</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>122 513</td>
<td>122 230</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Estonia

Organisation responsible for the conducting the survey:
Statistics Estonia

*(Based on information referring to the first quarter of 2022)*

### Sampling register used for the survey

**Name of register:**
Estonian Traffic Register

**Name of organisation who maintains the register:**
Transport Administration of Estonia

**Frequency of update:**
Continuously

**Frequency of access to draw the samples:**
Once a quarter

**Arrangements for accessing the register:**
The order of Ministry of Economic Affairs and Communications by which the Vehicle Register is obliged to give the data to the Statistics Estonia.
The agreement between Statistics Estonia and Estonian Transport Administration about data exchange between those two organisations.

**Information obtained from the register:**
Data from the traffic register of the Estonian Transport Administration (vehicle details and authorised user), data from the Register of Economic Activities (the certified copies of licenses (carriage of goods)) are used.

From the Estonian Traffic Register the following data are obtained:

- Type of vehicle, registration number of vehicle, mark and model, maximum permissible laden weight, load capacity, age of vehicle (year and date of first registration), vehicle category, body type of lorry, type of fuel, number of axles of lorry or tractor, register weight, maximum gross weight of trailer, maximum load capacity of trailer, name and address with postal code of the vehicle user (or owner, when user information is not available), register code of enterprise or natural person (ID code); special characteristic for foreign owner.

- Main activity (NACE Rev.2) of enterprise/organisation using the vehicle is obtained from the register of economically active enterprises called the Statistical Profile. The Statistical Profile is created on the basis of the Commercial Register.

The data on licenses from the Register of Economic Activities are downloaded from the database at [https://mtr.mkm.ee](https://mtr.mkm.ee), data from the Estonian Transport Administration are received via an FTP-server and data from the Population Register via X-Road.

*Data used for stratification of sample:* main activities (NACE Rev.2) of enterprise/organisation using the vehicle (4941/other activities), sole proprietor as users; type of vehicle and body type, maximum load capacity of lorry, year of manufacture.

**Procedure for reminders:**
Statistics Estonia has a standard routine for reminders in electronic data collection system eSTAT:
• Deadline is 8 days after the survey week. Most of the data respondents (99.7 %) have an e-mail address.
• First reminder: 3 days after the deadline by e-mail (or by phone if no e-mail address is available)
• Second reminder: 8 days after the deadline by e-mail (or by phone if no e-mail address is available)
• Third reminder: 37 days after the deadline by e-mail. (or by phone if no e-mail address is available)
• After the third reminder, the vehicle users will be contacted by (mobile) phone.

The response rate is satisfactory, but the number of working vehicles is low. Response rate is about 80 %, but the share of working vehicles is only 20 %.

**Sampling methodology**

**Statistical unit:**
Tractive vehicle

**Types of units excluded:**
Lorries less than 3.5 tonnes load capacity, military vehicles, vehicles of public administrations and public services, agricultural tractors, vehicles with age of vehicle over 25 years, special purpose vehicles such as truck cranes, fire-engine vehicles, road maintenance vehicles and other special purpose vehicles are also excluded, if it is possible to identify them from sampling frame by Estonian Transport Administration.

**Time unit:**
One week

**Time units of quarter 1 of 2022 included in the survey:**
All (13 weeks)

**Stratification:**

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Description</th>
<th>Frame</th>
<th>Sample</th>
<th>Weighting factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Road tractors of road transport enterprises NACE rev.2 code 4941</td>
<td>7 979</td>
<td>650</td>
<td>252.38</td>
</tr>
<tr>
<td>2</td>
<td>Lorries: Load capacity &gt; 3.5&lt;10 tonnes: of road transport enterprises NACE rev.2 code 4941</td>
<td>1 351</td>
<td>26</td>
<td>878.15</td>
</tr>
<tr>
<td>3</td>
<td>Lorries: Load capacity &gt;10 tonnes: of road transport enterprises NACE rev.2 code 4941</td>
<td>2 011</td>
<td>182</td>
<td>221.55</td>
</tr>
<tr>
<td>4</td>
<td>Road tractors of all other enterprises Nace rev 2</td>
<td>2 079</td>
<td>234</td>
<td>152.69</td>
</tr>
<tr>
<td>5</td>
<td>Lorries: Load capacity &gt; 3.5&lt;10 tonnes: all other enterprises NACE rev.2</td>
<td>2 416</td>
<td>26</td>
<td>1 495.62</td>
</tr>
<tr>
<td>6</td>
<td>Lorries: Load capacity &gt;10 tonnes: all other enterprises NACE rev.2</td>
<td>2 425</td>
<td>390</td>
<td>91.38</td>
</tr>
</tbody>
</table>

**Recording of weight of goods**

Gross-gross weight of goods is collected, i.e., containers swap bodies and pallets are included.

**Recording of journey data sent to Eurostat:**

Single stop, multi stop and collection/delivery: If more than one goods commodity is carried, it is coded as NST2007 group 18 - Grouped goods: a mixture of types of goods which are transported together; 19 - Unidentifiable goods: goods which cannot be assigned to groups 01 - 16 or 20 - Other goods. If mixed goods are selected, then goods loading type is set according to good with highest weight.

Other variables: We assume that within one journey only one commodity is carried.
Estimation of maximum permissible laden weight:

Maximum permissible laden weight in dataset A2 is not estimated, collected information is used.

Calculation of weighting factors:

\[
\text{Weighting factor} = 13 \times \frac{N}{S+S'}
\]

\(N = \) number of vehicles in the register (in a stratum)

\(S = \) number of questionnaires used in analysis (in A1 dataset)

\(S' = \) number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.).

No post-stratification used.

Additional (optional) variables collected compared to the legal requirements:

Environmental impact related variables:

Type of fuel used. No information about fuel consumption.

A1. Vehicle-related variables:

- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:

- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:

- type of freight (Cargo types) as defined in the Regulation (YES)

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<td>6 032</td>
<td>6 032</td>
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<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>2 321</td>
<td>2 395</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>1 129</td>
<td>1 058</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>1 351</td>
<td>1 379</td>
</tr>
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<td>Number of questionnaires used in analysis</td>
<td>1 231</td>
<td>1 200</td>
</tr>
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Ireland

Organisation responsible for the conducting the survey:
Central Statistics Office

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Goods Vehicle File

Name of organisation who maintains the register:
Department of Transport

Frequency of update:
The goods vehicle file is updated on a daily basis within the Department

Frequency of access to draw the samples:
Every 8 weeks

Arrangements for accessing the register:
Every 8 weeks, the CSO receives an updated goods vehicle file from the Vehicle Registration Unit of the Department of Transport. This file contains details of all vehicles currently taxed as goods vehicles in the State. The file is used to update the CSO’s Register of goods vehicles which contains only vehicles with an un-laden weight of 2 000 kg and over. The CSO register is updated each time to reflect any newly licensed vehicles or vehicles that are no longer in use (these are deleted). Vehicles on the CSO register which have not been taxed in over 3 years are also deleted from the register.

Information obtained from the register:
The data obtained from the Department of Transport file are as follows:
- Year and month when the taxation certificate on the vehicle expires
- Motor tax office code (2 digit) in which the vehicle is taxed
- Unladen weight of the vehicle
- Registration number of the vehicle
- Society of Motor Industry code of the vehicle
- Year of manufacture of the vehicle
- Taxation use (own account/hire or reward - 1 digit code)
- License Code (to show if the vehicle is licensed for carriage of owner’s goods only or for hire and reward)
- Fuel type of vehicle (1 digit code)
- Body type of vehicle (2-digit code)
- Name and address of owner of vehicle
- Year of first registration of vehicle
- Make (3-digit character code) & model (3-digit code) of vehicle
- New/second hand (1 digit code)
Two new variables are created when updating the CSO Register:
- Age – calculated from the year of manufacture of the vehicle (3 age categories)
- Size – calculated from the unladen weight of the vehicle (3 size categories)

There are 9 sample selection strata based on the 9 different combinations of the age and size categories.

Procedure for reminders:
A final reminder is sent if the questionnaire has not been returned by post or online within 12 days of the due date.

In 2021, out of a total of 23,134 vehicles surveyed, a satisfactory return was received in respect of 9,087 vehicles representing an overall response rate of 39%.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
The following vehicles are excluded:
- Vehicles with an unladen weight of less than 2 000 kg
- Vehicles not registered for the transport of goods
- Vehicles taxed as non-commercial vehicles

Time unit:
One week

Time unit of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
There are 20 strata which are used for grossing based on year of manufacture, unladen weight, taxation class and year of first registration. These are aggregated to 9 strata for sample selection. Different sampling rates are applied to different selection strata. 15 % of vehicles in selection strata 1, 4 and 7, 50 % of vehicles in selection strata 2, 5 and 8, and 90 % in strata 3, 6 and 9 are sampled. Any vehicle selected is only sampled once in any survey year.

Recording of weight of goods:
Gross weight of goods is collected; containers swap bodies and pallets are excluded, but pallets might be included.

Recording of journey data sent to Eurostat:
Single stop: Our practice is to record only one goods type per journey. This would be recorded as a mixed load if there are more than one goods commodity carried.

Multi stop: Our practice is to record only one origin and one destination for each journey. For each journey, the origin, destination, number of collection stops and weight of goods collected and the number of delivery stops and weight of goods delivered are recorded. Tonne-km for the journey as a whole is derived by the processing system.

Collection/delivery: Our practice is to record only one origin and destination for a journey. The origin and destination, number of collection stops and weight of goods collected and the number of delivery stops and weight of goods delivered are recorded. There is no facility to enter tonne-kilometres on
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

the data entry system so tkm are calculated using formulas for a combination of collection and delivery stops.

**Calculation of weighting factors:**

When calculating the grossing factor per stratum, the average active vehicle population per stratum is first estimated. This is done by adding the number of vehicles in each stratum at the beginning and end of the calendar quarter and dividing by 2 which gives the average population of vehicles per strata. This figure serves as the benchmark figure for each stratum to which the survey estimates are grossed up to. The number of vehicles with activity during the quarter (vehicles included in A1) is then added to the number of non-working vehicles during the quarter for each stratum to give the total number of active vehicles in each stratum. The grossing factor is then calculated by dividing the average number of vehicles in the stratum by the number of active vehicles in the stratum multiplied by 13 (13 weeks in the quarter).

\[
\text{Weighting factor} = 13 \times \frac{N}{S + S'}
\]

- \(N\) = average number of vehicles on register in stratum for quarter (sum of number of vehicles on register in a stratum at the beginning and the end of a quarter divided by 2)
- \(S\) = number of questionnaires used in analysis (in A1 dataset)
- \(S'\) = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

No calibration is used.

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**

- Type of fuel used.
- A1. Vehicle-related variables:
  - possibility of using vehicles for combined transport (NO)
  - vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO – 2-digit only)
  - vehicle empty kilometres (YES)
- A2. Journey-related variables:
  - axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
  - place of loading, if any, of the road transport vehicle on another means of transport (YES - at ports)
  - place of unloading, if any, of the road transport vehicle from another means of transport (YES - at ports)
  - degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)
- A3. Goods-related variables:
  - type of freight (Cargo types) as defined in the Regulation (YES)
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>150 068</td>
<td>161 309</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>19 315</td>
<td>25 578</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>3 542</td>
<td>4 686</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>11 057</td>
<td>15 093</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>350</td>
<td>331</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>4 366</td>
<td>5 468</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Greece

Organisation responsible for the conducting the survey:
Hellenic Statistical Authority

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Vehicle Register

Name of organisation who maintains the register:
Ministry of Infrastructure and Transport

Frequency of update:
Continuous

Frequency of access to draw the samples:
Once a year

Arrangements for accessing the register:
Once in a year, according to the stratification plan of the sample, a copy of the circulating goods road motor vehicles on 31st December is obtained from the Ministry of Infrastructure and Transport.

Information obtained from the register:
Name, address, use of vehicle, maximum permissible laden weight, load capacity, type of vehicle, type of body, axles, year of national registration and registration number.

The same register is used for the vehicles performing international transport and the data are updated with information from previous surveys.

Procedure for reminders:
The survey is conducted through interviewers who are entrusted with the task to contact the vehicle owner until the end of the survey’s collection phase.

The efforts are focused on the improvement of the information of the register (as regards contact details) and the monitoring of the work of the interviewers.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Vehicles with load capacity less than 3.5 tonnes and less than 6 tonnes of maximum permissible weight, military vehicles, vehicles of public administration and agricultural tractors.
Time unit:
One week

Time units of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
The following information concerning stratification variables and codes used is provided.
The vehicles are separated in (by estimation):
1. Those conducting national journeys
2. Those conducting international journeys

For vehicles conducting national journeys, the strata are defined by:
1. The geographical division (NUTS 1)
   1. VOREIA ELLADA (North Greece)
   2. KENTRIKI ELLADA (Central Greece)
   3. ATTIKI (Attica)
   4. NISIA AIGAIOU, KRITI (Aegean Islands and Crete)

2. The use of the vehicle (in Greece a vehicle can have a permission for private or public use):
   1. Hire or Reward (Public use)
   2. On Own Account (Private use)

3. The type of the vehicle
   1. Lorries with load capacity 3.5 - 7.9 tonnes
   2. Lorries with load capacity 8 - 12.9 tonnes
   3. Lorries with load capacity greater than 13 tonnes
   4. Tank-trucks and lorries with specific ‘body’
   5. Tractors

For vehicles conducting international journeys, the strata are also defined by the geographical division (NUTS 1). Note that for those vehicles, the type of the truck is coded as 6.

As the vehicles of a large company (operating on a 24/7 basis) had a significant impact on the results, a new stratum was created (coded as 7) and is surveyed exhaustively. The data of this stratum are treated as confidential.

Recording of journey data sent to Eurostat:
Single stop: Respondents can record only one type of goods, i.e., goods of largest weight. If no type of goods is dominant then ‘miscellaneous’ is used.

Multi stop: Multi-stop journeys are coded by consignments.

Collection/delivery: For short distance journeys of type 3 (collection/delivery) with more than five points of loading and/or unloading, the respondent is not asked for the details of all the stops, but is asked about the number of stops, the distance travelled loaded and the distance travelled unloaded, the total weight transported and the main type of good (as in type 1).
Calculation of weighting factors:

Weighting factor = \( \frac{N}{S + S'} \)

\( N \) = number of vehicles in the register (in a stratum)
\( S \) = number of questionnaires used in analysis (in A1 dataset)
\( S' \) = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables:

Information on type of fuel and fuel consumption could be provided in the future but it should be considered as core variable in order to be collected.

- A1. Vehicle-related variables:
  - possibility of using vehicles for combined transport (YES)
  - vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
  - vehicle empty kilometres (YES)

- A2. Journey-related variables:
  - axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
  - place of loading, if any, of the road transport vehicle on another means of transport (YES)
  - place of unloading, if any, of the road transport vehicle from another means of transport (YES)
  - degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

- A3. Goods-related variables:
  - type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th></th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main figures</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>93 611</td>
<td>89 121</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>8 153</td>
<td>8 256</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>640</td>
<td>682</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>3 475</td>
<td>3 066</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>335</td>
<td>299</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>3 703</td>
<td>4 209</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

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Spain

**Organisation responsible for the conducting the survey:**
Ministry of Transport, Mobility and Urban Agenda

*(Based on information referring to the first quarter of 2022)*

**Sampling register used for the survey**

**Name of register:**
Registro de Empresas y Actividades de Transporte

**Name of organisation who maintains the register:**
Ministry of Transport, Mobility and Urban Agenda

**Frequency of update:**
Continuously

**Frequency of access to draw the samples:**
Once a month

**Arrangements for accessing the register:**
The register belongs to the Ministry

**Information obtained from the register:**
- Name, registration number, address, type of vehicle, type of transport (own account or hire or reward), range of authorisation of action of the vehicle (local, national, international), year of registration, load capacity and maximum permissible weight, region (Autonomous Community) where the vehicle is registered.
- Used in stratification: Type of transport, region (Autonomous Community) where the vehicle is registered, load capacity and type of vehicle.

**Procedure for reminders:**
During the week of reference and the following four weeks, daily phone calls are made.
During this period, if the company is not found, new addresses and telephone numbers of the companies are looked for.

**Sampling methodology**

**Statistical unit:**
Tractive vehicle

**Types of units excluded:**
- 'Light' transport vehicles: less than 3.5 tonnes weight capacity and less than 6 tonnes of maximum permissible laden weight.
- Special vehicles with very high weight capacity or dimensions, which need a special registration number.
- Military vehicles and those belonging to Public Administrations.
- Vehicles whose use is not for transport of goods: excavators, rollers, etc.
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

**Time unit:**
One week

**Time units of quarter 1 of 2022 included in the survey:**
All (13 weeks)

**Stratification:**
There are 10 strata (in proportion to the frame):
- Type of transport:
  1. own account
  2. hire or reward
- Type of vehicle and weight capacity:
  1. lorries of 3.6 to 10 tonnes
  2. lorries of 10.1 to 13.5 tonnes
  3. lorries of over 13.5 tonnes
  4. tractors
- Region (Autonomous Community) where the vehicle is registered
  5. Islas Canarias
  6. Remaining regions

**Recording of weight of goods:**
When possible, the weight of containers is excluded, but in most cases the informant only knows the total weight carried. The weight of goods rarely excludes swap bodies and pallets.

**Recording of journey data sent to Eurostat:**
Multi stop: Multi-stop journeys are coded as consignments.
Collection/delivery: Without points of loading and/or unloading of the goods,

\[
\text{Tonne-kilometres} = \text{maximum tonnes} \times \text{kilometres} / 2.
\]

Only the main type of goods is requested (but all tonnes).

**Calculation of weighting factors:**

\[
\text{Weighting factor} = 13 \times \frac{N}{S+S'} \times T
\]

- \(N\) = number of vehicles in the register (in a stratum)
- \(S\) = number of questionnaires used in analysis (in A1 dataset)
- \(S'\) = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)
- \(T\) = number of weeks in the month

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:** none

**A1. Vehicle-related variables:**
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

- A2. Journey-related variables:
  - axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
  - place of loading, if any, of the road transport vehicle on another means of transport (YES)
  - place of unloading, if any, of the road transport vehicle from another means of transport (YES)
  - degree of loading: situation 'fully loaded' (procedure 2) or 'not fully loaded' (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>371 739</td>
<td>381 602</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>56 000</td>
<td>56 000</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>10 111</td>
<td>11 034</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>874</td>
<td>1 126</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>17 618</td>
<td>17 587</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>27 318</td>
<td>26 186</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
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France

Organisation responsible for the conducting the survey:
Ministry for the Ecological Transition
Directorate for statistical data and studies (SDES)

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
National vehicle register (Répertoire statistique des véhicules routiers)

Name of organisation who maintains the register:
Ministry for the Ecological Transition
Directorate for statistical data and studies (SDES)

Frequency of update:
The national register is updated daily. The sampling frame is annual with three quarterly updates

Frequency of access to draw the samples:
Annual with quarterly updates

Arrangements for accessing the register:
The data are forwarded by the ministry daily.

Information obtained from the register:
Registration; date of first registration; brand; model; Type of vehicle (lorry or road tractor); type of body; power source; fiscal power; load capacity; maximum permissible weight; useful load; name and address of the owner; and administrative region (NUTS3).

Used in stratification: date of first registration; type and age of the vehicle; load capacity (lorry); fiscal power; maximum permissible weight (road tractor); main activity of the enterprise; and administrative region (NUTS1).

Procedure for reminders:
First reminder: 6 weeks after the surveyed week.
Second reminder: 12 weeks after the surveyed week, with a new copy of the questionnaire sent out.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Motor vehicles more than 15 years or older at the time of selection of the annual sample (31st October)
Lorries exceeding 3.5 tonnes PTAC < Load capacity < 32.6 tonnes.
Road tractors: 5 tonnes PTRA <= maximum permissible weight <= 44.5 tonnes
Special purpose road vehicles such as garbage trucks, fire brigade vehicles, ambulances, cranes, as well as military vehicles and vehicles belonging to government agencies or to owners involved in activities such as driving schools, fairgrounds, etc.

Vehicles that did not have a compulsory vehicle check within 15 months before the sample selection date and that were not first registered during those 15 months

**Time unit:**

1 week

**Time unit of quarter 1 of 2019 included in the survey:**

All (13 weeks):

- Q1 weeks 1 to 13
- Q2 weeks 14 to 26
- Q3 weeks 27 to 39
- Q4 weeks 40 to 52

**Stratification:**

Survey using unequal probabilities sampling with an overrepresentation of road tractors (compared to trucks), of the newest vehicles, of trucks with a high Maximum Permissible Laden Weight (MPLW), or the most powerful road tractors (in the fiscal sense), and of companies in the freight transport sector. The sampling base is separated based on the parity of the company's SIREN number. The refreshed half-sample consists of companies with the same parity as the survey year, while the carried-over half-sample consists of companies with the same parity as the previous year. The sampling rate is determined by stratum, based on the following criteria: vehicle type, age range, vehicle capacity, and company sector (grouped into 9 categories).

The sampling base with the same parity as the sample to be renewed is sorted by the company's sector of activity, by region (NUTS 1), by the company's SIREN number, by a variable combining the gender and age of the vehicle, and finally, by a variable grouping trucks by MPLW and road tractors by fiscal power. Each group of vehicles defined by the company's sector, grouped into 9 categories, and by the categories of the variables 'gender/age' and 'MPLW/fiscal power' is associated with a probability of selection reflecting the sampling rate applied within the stratum. It is the highest for very recent road tractors in the transport sector and the lowest for the oldest trucks outside of the transport sector. The sample is then drawn using unequal probabilities based on the values defined for each class using the systematic sampling method in the sorted sampling base.

**Recording of weight of goods:**

Gross weight of goods is collected, i.e., containers swap bodies and pallets are excluded.

**Recording journey data sent to Eurostat:**

Multi stop: Multi-stop journeys are coded as consignments.

Collection/delivery: In the recording of type 3, we describe one basic transport operation with the total weight of goods (A3.2 in table A3) and the total length of the journey (A3.7 in table A3). To calculate the number of tonne-kilometres, we multiply the total weight of goods by the total length of the journey and divide the result by 2, which gives the same result as if the vehicle had been unloading uniformly throughout the journey.

**Calculation of weighting factors:**

Calmar calibration method is used for calibration and treatment of nonresponse with the use of auxiliary information.

Calmar is a SAS macro program that implements the calibration methods. The program adjusts samples, through reweighting of individuals, using auxiliary information available from a number of variables referred to as calibration variables. The weights produced by this method are used to calibrate the sample on known population totals in the case of quantitative variables and on known
category frequencies in the case of qualitative variables.

Calmar is an acronym for CALibration on MARgins, an adjustment technique which adjusts the margins (estimated from a sample) of a contingency table of two or more qualitative variables to the known population margins.

Technical inspections are used as auxiliary information to distinguish, among non-responding vehicles, those within the scope of the survey (having undergone a recent technical inspection within the data collection period) from the others.

The first step of calibration involves weighting the responding and non-responding vehicles for which auxiliary information has determined their inclusion or exclusion from the survey scope in order to reflect the structure of the vehicle fleet.

The calibration margins for the first quarter are provided by the vehicle fleet used as the sampling base during the annual draw, with the reference date being October 31st of the preceding year. The margins for the subsequent quarters are obtained by adding the vehicles that entered the survey scope on the reference dates of the following quarters and subtracting those that exited (January 31st for Q2, April 30th for Q3, and July 31st for Q4).

The variables used for calibration grouping are region (NUTS 1), company activity (9 groups), and a variable that combines the gender and age range of the vehicle. Samples are calibrated in groups of 4 or 5 consecutive weeks belonging to the same month according to the ISO week definition. A week spanning two months is attributed to the month containing its Thursday, following the ISO standard. Three monthly calibrations using quarterly margins (multiplied by a factor of 4 or 5, depending on the number of weeks attributed to the month) are performed to obtain calibration for the 13 consecutive weeks within a survey quarter, still according to the ISO week. These three-monthly calibrations ensure a balanced distribution between months with high or low activity within the same quarter, for example, between July, August, and September in Q3. To achieve this balance between weeks within the same month, for example, in December with reduced activity during the Christmas week, the ‘week’ variable is also added as a calibration variable. Thus, the sum of the weights of vehicles in the same survey week is equal to the size of the vehicle fleet on the reference date of the quarter. The sum of weights for an ISO month of calibration is equal to 4 or 5 times the size of the vehicle fleet, and for the quarter, it is 13 times that size.

The second step of calibration involves calibrating the sample of responding vehicles within the survey scope according to the estimated counts within the same margin criteria as in the first step. The margins are calculated based on the weights obtained after the first step for both responding and non-responding vehicles within the survey scope.

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables:
Average fuel consumption per 100 km.

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (YES)
- place of unloading, if any, of the road transport vehicle from another means of transport (YES)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)
A3. Goods-related variables:

- type of freight (Cargo types) as defined in the Regulation (YES)

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<tr>
<th>Main figures</th>
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</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>408,026</td>
<td>415,447</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>61,032</td>
<td>60,490</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>10,827</td>
<td>10,727</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>18,087</td>
<td>18,367</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>4,068</td>
<td>4,190</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>28,050</td>
<td>27,206</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

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Croatia

Organisation responsible for the conducting the survey:
Croatian Bureau of Statistics

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Database of registered road motor vehicles

Name of organisation who maintains the register:
Ministry of Interior

Frequency of update:
Continuously

Frequency of access to draw the samples:
Once a quarter

Arrangements for accessing the register:
Bilateral agreement between the Croatian Bureau of Statistics and the Ministry of the Interior for providing statistical information.

Ministry of Interior transmits part of the register with all motor goods vehicles once a quarter in compliance with the Annual Implementation Plan of Statistical Activities. After receiving the data on registered vehicles, the Department for Programming creates a database with necessary data and then match the data with the Statistical Business Register and other consulting databases in order to take over addresses and other data on vehicles owners and their activity.

Information obtained from the register:
Database of registered road motor vehicles: registration mark, type of vehicle, body type, main use of vehicle, mark of vehicle, made in year, load capacity, maximum permissible weight, name and address of owner of vehicle, number of axles, type of the owner.

Statistical Business Register: main activity of the operator.

Used in stratification: load capacity.

Procedure for reminders:
First reminder for web questionnaire: sent 5 days after the end of reference period.

First reminder for paper questionnaire and the second reminder for web questionnaire: sent 10 days after the end of reference period.

Phone reminder for paper and web questionnaire: 18 days after the end of reference period non-respondents are reminded by phone.
Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Agricultural vehicles, military and public service vehicles and special purpose vehicle such as truck cranes, fire-engine vehicles, road maintenance vehicles and other special purpose vehicles.
Vehicles with load capacity less than 3.5 tonnes.

Time unit:
One week

Time unit of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
The sample for each stratum was chosen by a systematic random method. The systematic selection made it possible to do the implicit stratification by county and type of owner (tradesmen, enterprises). Moreover, in that way it was also possible to achieve a better geographical dissemination of the sample. The unbiased Horvitz-Thompson assessor was used in the method.

1 – 3.50 - 4.99 tonnes of load capacity
2 – 5.00 - 9.99 tonnes of load capacity
3 – 10.00 - 11.99 tonnes of load capacity
4 – 12.00 - 14.99 tonnes of load capacity
5 – 15.00 and over tonnes of load capacity
6 – road tractors

Recording of weight of goods:
Gross weight of goods is collected, i.e., containers, swap bodies and pallets are excluded.

Recording of journey data sent to Eurostat:
Single stop: In case of carrying more than one type of goods, respondents can record only the type of good with the largest weight.
Multi stop: recorded by vertical stages. In case of carrying more than one type of good, respondents can record only the type of goods with the largest weight.
Collection/delivery: In case of carrying more than one type of goods, respondents can record only the type of good with the largest weight. Collection/delivery journeys are recorded only for national transport.

Calculation of weighting factors:

Weighting factor = $\frac{13 \times N}{N + S' + S}$

N = number of vehicles in the register (in a stratum)
S = number of questionnaires used in analysis (in A1 dataset)
S’ = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.), scrapped, final or temporally out of operation, not performing transport activity anymore.
Additional (optional) variables collected compared to the legal requirements:

Environmental impact related variables:
Fuel purchased.

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (YES)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (YES)
- place of unloading, if any, of the road transport vehicle from another means of transport (YES)
- degree of loading: situation 'fully loaded' (procedure 2) or 'not fully loaded' (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

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<td>34,911</td>
<td>36,491</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>10,400</td>
<td>10,400</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>2,918</td>
<td>2,926</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>1,966</td>
<td>1,972</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>853</td>
<td>937</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>4,663</td>
<td>4,565</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Italy

Organisation responsible for the conducting the survey:
National Statistical Institute (ISTAT)

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
National Vehicle Register; Tax Register and Road freight survey register

Name of organisation who maintains the register:
Ministry of Transport, Ministry of Finance and ISTAT

Frequency of update:
Quarterly, except Road freight survey register yearly (30/09 of the previous year).

Frequency of access to draw the samples:
Once a year

Arrangements for accessing the register:
The owners of the two registers provide a release at the end of each quarter of the year. The Registers updated at 30/09/2021 were used as input of a procedure, whose final output is the ‘Road freight survey register’ used for the 2022 road freight survey.

Information obtained from the register:
The ‘Road freight survey register’ contains one record for each road freight transport vehicle (trailers and semi-trailers are not included), identified by their license-plate number. It is the sampling frame of the survey. The register is updated yearly using data in the ‘National vehicle register’ (technical data concerning the vehicle) and in the ‘Tax register’ (administrative data concerning the enterprise owning the vehicle), and pieces of information gathered from other sources (National enterprise register, data collected in the previous replies of the survey). The variables gathered from the ‘National vehicle register’ are: name of the enterprise (user of the vehicle, owned or leased), address of the enterprise, VAT number, license plate number, place in which the plate was registered, load capacity, maximum permissible laden weight, year of first registration, number of axles of the motor vehicle, type of vehicle, type of body, type of transport (hire and reward/own account). The variables gathered from the ‘Tax register’ are administrative information concerning legal status of the enterprise. The ‘Tax register’ is also used to complete information about technical data if missing or found not reliable in the ‘National vehicle register’.

The variables used in the stratification are:
- Place of registration (18 regions at NUTS2 level; 6 provinces at NUTS3 level);
- Type of transport (hire and reward/own account);
- Load capacity class (5 classes).

Procedure for reminders:
Spot actions for reminders were undertaken in 2011 and 2012. Since 2019 reminders to non-respondents are made regularly (week by week to the sampled units) through the whole reference year.

Starting with 2012, a fine is applied to non-respondents.
Sampling methodology

**Statistical unit:**
Tractive vehicle

**Types of units excluded:**
Agricultural vehicles, military vehicles, vehicles belonging to central or local public administrations;
All road transport vehicles with a load capacity < 3.5 tonnes;
All road transport vehicles more than 11-year-old (from first registration);
Vehicles with technical characteristics not specifically designed for the transport of goods.

**Time unit:**
One week

**Time unit of quarter 1 of 2022 included in the survey:**
All (13 weeks)

**Stratification:**
The overall sample size (year 2022) is 45 050 road transport vehicles overall sample size (year 2019) is 42 291 road transport vehicles.
The survey design is based on stratified random sampling.
The sample is stratified according to three criteria: place of first registration, type of transport and load capacity.

Place of first registration: This variable refers to the regions; however, to allow exhaustive studies on traffic within administrative units, the survey manager can design sub-strata at NUTS 3 level; these strata have a ‘P’ in the first digit.

<table>
<thead>
<tr>
<th>Region</th>
<th>Code</th>
<th>Region</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piemonte</td>
<td>R001</td>
<td>Marche - Ascoli Piceno</td>
<td>P044</td>
</tr>
<tr>
<td>Valle d’Aosta</td>
<td>R002</td>
<td>Lazio</td>
<td>R012</td>
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<td>Lombardia</td>
<td>R003</td>
<td>Abruzzo</td>
<td>R013</td>
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<td>Veneto</td>
<td>R005</td>
<td>Molise</td>
<td>R014</td>
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<tr>
<td>Friuli Venezia Giulia</td>
<td>R006</td>
<td>Campania</td>
<td>R015</td>
</tr>
<tr>
<td>Liguria</td>
<td>R007</td>
<td>Puglia</td>
<td>R016</td>
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<tr>
<td>Emilia Romagna</td>
<td>R008</td>
<td>Basilicata</td>
<td>R017</td>
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<tr>
<td>Toscana</td>
<td>R009</td>
<td>Calabria</td>
<td>R018</td>
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<tr>
<td>Umbria</td>
<td>R010</td>
<td>Sicilia</td>
<td>R019</td>
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<td>Marche -Pesoar -Urbino</td>
<td>P041</td>
<td>Sardegna</td>
<td>R020</td>
</tr>
<tr>
<td>Marche - Ancona</td>
<td>P042</td>
<td>Provincia di Trento</td>
<td>P022</td>
</tr>
<tr>
<td>Marche -Macerata</td>
<td>P043</td>
<td>Provincia di Bolzano</td>
<td>P023</td>
</tr>
</tbody>
</table>

**Type of transport**
- Hire or reward = T
- Own account = P

**Load capacity (5 categories)**
- 1 = from 3.5 to 4.9 tonnes
- 2 = from 5 to 9.9 tonnes
- 3 = from 10 to 12.4 tonnes
- 4 = from 12.5 to 14.9 tonnes
 Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

- 5 = over 14.9 tonnes

Example: stratum coded R001T1; the vehicles included in this stratum were registered in Piemonte, the owner are enterprises which operates on hire or reward and their load capacity is between 3.5 and 4.9 Tonnes (class 1).

**Recording of weight of goods:**

Gross-gross weight is reported only for the weight of goods loaded in container or swap body; i.e., containers, swap bodies and pallets are included. Gross weight is collected for other goods.

**Recording journey data sent to Eurostat:**

Single stop and multi stop: The questionnaire is specifically designed to collect information on three type of goods carried both for type 1 and 2 journeys.

Collection/delivery: In the recording of type 3 journeys only the main type of goods is requested; it is assumed that the type 3 journeys report only national journeys.

**Calculation of weighting factors:**

\[
\text{Weighting factor} = 13 \times \frac{N}{S+S'}
\]

\(N =\) number of vehicles in the register (in a stratum)

\(S =\) number of questionnaires used in analysis (in A1 dataset)

\(S' =\) number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**

Data on weekly fuel consumption.

**A1. Vehicle-related variables:**

- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO - possible but difficult to achieve in the short term)
- vehicle empty kilometres (NO)

**A2. Journey-related variables:**

- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (NO)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

**A3. Goods-related variables:**

- type of freight (Cargo types) as defined in the Regulation (NO)
Methodologies used in road freight transport surveys in Member States, EFTA and Candidate Countries

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>199 066</td>
<td>210 231</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched</td>
<td>42 576</td>
<td>45 050</td>
</tr>
<tr>
<td>to vehicle owners</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled</td>
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<td>3 945</td>
</tr>
<tr>
<td>period but the vehicle could be considered as part of the active stock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>20 949</td>
<td>21 405</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response</td>
<td>2 716</td>
<td>2 543</td>
</tr>
<tr>
<td>could not be used</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>15 532</td>
<td>17 157</td>
</tr>
</tbody>
</table>

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Cyprus

Organisation responsible for the conducting the survey:
Statistical Service of Cyprus (CYSTAT)

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Road Vehicle Register

Name of organisation who maintains the register:
Road Transport Department

Frequency of update:
Yearly

Frequency of access to draw the samples:
Quarterly

Arrangements for accessing the register:
Very good co-operation of the Statistical service with the Road Transport Department (Ministry of Communication and Works).

Information obtained from the register:
Category of vehicle (Hire or Reward and Own account), gross vehicle weight and load capacity of the vehicle.

Procedure for reminders:
The major part of the survey is conducted by telephone and a few cases by personal visits. The response rate is considered as adequate and reaches 95 % of the sample.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Vehicles with load capacity less than 3 tonnes.

Time unit:
One Week

Time units of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
A total of 3 372 vehicles (Lorries and Road Tractors) are surveyed. The sample is distributed in all weeks (65 vehicles per week). The sample consists of 9 categories (strata according to the load capacity of the vehicle and the type of transport (Hire or reward and own account).
Recording of weight of goods:
Gross-gross weight of goods is collected, i.e. containers swap bodies and pallets are included.

Recording of journey data sent to Eurostat:
Single stop: Only the commodity with the highest weight is taken into account.
Multi stop: For the calculation of tonnes-kilometres the sum of weight received plus the weight delivered multiplied by the distance covered is divided by 1 500.
Collection/delivery: For the calculation of tonnes-kilometres the sum of weight received plus the weight delivered multiplied by the distance covered is divided by 2 000.

Calculation of weighting factors:
Weighting factor = $13 \times \frac{N}{Q}$

N = number of vehicles in the register (in a stratum)
Q = number of questionnaires completed

Additional (optional) variables collected compared to the legal requirements:
Environmental impact-related variables: none.
Type of fuel used and fuel consumption.

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>14 602</td>
<td>14 926</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>2 938</td>
<td>3 372</td>
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<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>1 068</td>
<td>1 042</td>
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<tr>
<td>Number of cases classified as non-respondents</td>
<td>388</td>
<td>479</td>
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<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>349</td>
<td>512</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>1 133</td>
<td>1 339</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
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Latvia

Organisation responsible for the conducting the survey:
Central Statistical Bureau

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
1) Register of road transport vehicles
2) Register of vehicles

Name of organisation who maintains the register:
1) Road Traffic Safety Directorate - Register of vehicles
2) Road Transport Administration - Register of road transport vehicles

Frequency of update:
Monthly

Frequency of access to draw the samples:
Once a month

Arrangements for accessing the register:
CSB has access to extract information from the Register of vehicles. This part of the Register contains information on transport vehicles which are owned by natural or legal persons and which at the moment of sample formation had passed the yearly technical inspection and could be legally operated.

CSB has access to extract information from the Register of road transport vehicles. This part of the Register contains information on transport vehicles, which has license to carry out national and international transport for hire or reward.

Information obtained from the register:
1) Made; model; registration number; vehicle ID number; legal (enterprise) or private person; enterprise VAT number or personal code; enterprise actual NACE code; self-weight, load capacity; road tractor or not; body type; year of production; name of owner (legal i.e., enterprise or private person); address of owner; mark about leasing and address of leaseholder.
2) Authorisation to carry out transport for dangerous goods.
3) Authorisation to carry out national and international transport for hire or reward.

Used for stratification:
- carrying capacity
- allowed to carry out commercial shipments
- allowed to carry out international shipments
- has ADR
- year of production of vehicle
- name of owner or holder

Procedure for reminders:
First reminder: 19 days after the survey week another copy of the questionnaire is sent to the respondent.
Second reminder: After 4 weeks, another reminder letter is sent to the respondent.
The response rate for 2022:
Q1 74.4 %
Q2 69 %
Q3 69 %
Q4 65.9 %

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Special purpose vehicles such as truck cranes, fire-fighters vehicles, platform lorries, road maintenance vehicles, border guards’ vehicles and other special purpose vehicles.
Vehicles older than 25 years.
Vehicles with load capacity less than 3.5 tonnes.
Starting with 2017, special concrete mixers are included in the survey in the list of special lorries.

Time unit:
One week

Time units of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
The sample for one month (5 weeks within the first month of each quarter and 4 weeks within the second and third month of each quarter) is obtained using a single stage stratified systematic sampling.
The vehicles selected in sample for one month will be not sampled for six, nine or twelve sequence months, in order to reduce the workload for respondents.
For the estimation of averages, totals, ratios and percentages the so-called Horvitz-Thompson estimator is used. It means that the probability for each vehicle to be included into the sample must be calculated.
For every survey month the inclusion probability of a vehicle in the sample is calculated as a ratio between the number of vehicles that were included in the sample and did respond and the total number of vehicles in the stratum, i.e., the number of vehicles that had valid technical examination certificates in the survey month. This means that within each stratum the responding vehicles represent the non-responding ones of the same stratum, too.
The estimates of totals and means are obtained first for each survey month and each stratum separately. The estimates of population totals and population means (or domain totals and domain means) are obtained by summing up or calculating the weighted sum over all strata and over all survey months of the corresponding strata estimates.
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

Recording of weight of goods:

Gross weight of goods is collected, i.e., containers swap bodies and pallets are excluded.

Recording of journey data sent to Eurostat:

The questionnaire has 2 parts: one part for journeys with 1 to 4 stops and other for journeys with 5 and more stops.

Single journey is journey when goods are loaded and then unloaded. Multi stop journey is journey, when goods are loaded then have some stops to load/unload goods and at the end all goods are unloaded. Each stop is recorded separately.

If journey has 5 or more stops or collection/delivery journeys they are recorded as one. Such journeys have 5 types:

- 5 and more stops with goods are only loaded
- 5 and more stops with goods are only unloaded
- Number of stops with goods are loaded are equal to number of stops with goods are loaded

<table>
<thead>
<tr>
<th>Strata</th>
<th>Load capacity</th>
<th>Allowed to carry out commercial shipments</th>
<th>Allowed to carry out international shipments</th>
<th>Has ADR(¹)</th>
<th>Year of production of vehicles (in 2020)</th>
<th>Owner or Holder</th>
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</thead>
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<td>34</td>
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<td>Yes</td>
<td>All</td>
<td>All</td>
<td>2016-2018</td>
<td>Legal</td>
</tr>
<tr>
<td>35</td>
<td>cap. &gt;10t</td>
<td>Yes</td>
<td>All</td>
<td>All</td>
<td>2019-2020</td>
<td>Legal</td>
</tr>
<tr>
<td>36</td>
<td>cap. &gt;10t</td>
<td>Yes</td>
<td>All</td>
<td>All</td>
<td>2021-2022</td>
<td>Legal</td>
</tr>
<tr>
<td>37</td>
<td>cap. &gt;10t</td>
<td>Yes</td>
<td>All</td>
<td>All</td>
<td>1997-2022</td>
<td>Private</td>
</tr>
</tbody>
</table>

(¹) European Agreement concerning the International Carriage of Dangerous Goods by Road
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

- Number of stops with goods are loaded are more than number of stops with goods are loaded
- Number of stops with goods are loaded are less than number of stops with goods are loaded

Depending on the number of stops, the type of journey is determined and tonnes and tkm are calculated based on the type of journey, respectively.

**Estimation of maximum permissible laden weight:**

Maximum permissible laden weight is estimated by adding load capacity and basic weight.

**Calculation of weighting factors:**

Weighting factor = \( \frac{M}{S + S'} \)

- \( M \) = mean of population between the beginning and the end of the reference month.
- \( S \) = number of questionnaires used in analysis (in a stratum, during the reference period).
- \( S' \) = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.).

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:** none.

**A1. Vehicle-related variables:**
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

**A2. Journey-related variables:**
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

**A3. Goods-related variables:**
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>21 975</td>
<td>22 261</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>6 240</td>
<td>6 240</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>1 143</td>
<td>1 302</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>2 139</td>
<td>2 015</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>115</td>
<td>111</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>2 843</td>
<td>2 812</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Lithuania

Organisation responsible for the conducting the survey:
Statistics Lithuania

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Register of Road Motor Vehicles, Data on road freight vehicles, which passed a roadworthiness test

Name of organisation who maintains the register:
State enterprise ‘Regitra’ Lithuanian Association of Roadworthiness

Frequency of update:
Continuously

Frequency of access to draw the samples:
Once a quarter

Arrangements for accessing the register:
Each quarter at fixed dates, information is received from State Enterprise ‘Regitra’:

- 2022 first quarter - 12 November, 2021,
- 2022 second quarter - 15 February, 2022,
- 2022 third quarter - 13 May, 2022,
- 2022 fourth quarter - 12 August, 2022.

Information obtained from the register:
Registration number; type of road vehicle (lorry/road tractors); enterprise code; year of production;
name of private operators; name of business operators; address; load capacity; maximum permissible weight of vehicle.

Load capacity of vehicle is used for stratification.

Procedure for reminders:
The first reminder is sent 9 days after the survey week by e-mail.
The second reminder is sent 16 days after the survey week by e-mail.
The third reminder is sent 23 days after the survey week by e-mail.

An adequate sampling frame is provided

Sampling methodology

Statistical unit:
Tractive vehicle
Types of units excluded:
- Special purpose road vehicles;
- Goods road vehicles with maximum permissible weight of less than 6 tonnes in case of a single motor vehicle;
- Vehicles which are not used for goods carriage;
- Goods road vehicle older than 25 years.

For vehicles less than 6 tonnes maximum permissible weight, estimations are carried out for the vehicle kilometres.

Time unit:
One week.

Time units of quarter 1 of 2022 included in the survey:
All (13 weeks).

Stratification:
The sample for one quarter is obtained using a sample in each stratum. All goods transport vehicles are distributed in 15 strata.

Road goods vehicles are distributed in the following way:

<table>
<thead>
<tr>
<th>Strata code</th>
<th>Goods vehicles</th>
<th>Load capacity (kg)</th>
<th>Form of ownership</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Lorries</td>
<td>3500 ≥</td>
<td>Vehicles with licences for carriage of dangerous goods.</td>
</tr>
<tr>
<td>5</td>
<td>Road tractors</td>
<td>not divided</td>
<td>Vehicles with licences for carriage of dangerous goods.</td>
</tr>
<tr>
<td>23</td>
<td>Lorries</td>
<td>3500 - 9999</td>
<td>Vehicles with licences for international journeys.</td>
</tr>
<tr>
<td>8</td>
<td>Lorries</td>
<td>10000 - 14999</td>
<td>Vehicles with licences for international journeys.</td>
</tr>
<tr>
<td>9</td>
<td>Lorries</td>
<td>15000 +</td>
<td>Vehicles with licences for international journeys.</td>
</tr>
<tr>
<td>10</td>
<td>Road tractors</td>
<td>not divided</td>
<td>Vehicles with licences for international journeys.</td>
</tr>
<tr>
<td>24</td>
<td>Lorries</td>
<td>3500 - 9999</td>
<td>Vehicles of enterprises with activity NACE Rev.2 49.41.</td>
</tr>
<tr>
<td>13</td>
<td>Lorries</td>
<td>10000 - 14999</td>
<td>Vehicles of enterprises with activity NACE Rev.2 49.41.</td>
</tr>
<tr>
<td>14</td>
<td>Lorries</td>
<td>15000 +</td>
<td>Vehicles of enterprises with activity NACE Rev.2 49.41.</td>
</tr>
<tr>
<td>15</td>
<td>Road tractors</td>
<td>not divided</td>
<td>Vehicles of enterprises with activity NACE Rev.2 49.41.</td>
</tr>
<tr>
<td>16</td>
<td>Lorries</td>
<td>3500 - 5999</td>
<td>Vehicles with licences for national journeys and other</td>
</tr>
<tr>
<td>17</td>
<td>Lorries</td>
<td>6000 - 9999</td>
<td>Vehicles with licences for national journeys and other</td>
</tr>
<tr>
<td>18</td>
<td>Lorries</td>
<td>10000 - 14999</td>
<td>Vehicles with licences for national journeys and other</td>
</tr>
<tr>
<td>19</td>
<td>Lorries</td>
<td>15000 +</td>
<td>Vehicles with licences for national journeys and other</td>
</tr>
<tr>
<td>20</td>
<td>Road tractors</td>
<td>not divided</td>
<td>Vehicles with licences for national journeys and other</td>
</tr>
</tbody>
</table>

Recording of weight of goods:
Gross weight of goods is collected, i.e., containers swap bodies and pallets are excluded.

Recording of journey data sent to Eurostat:
Single stop and multi stop: Only the commodity with highest weight is taken into account.

Other variables: Currently only 5 countries are reported as countries crossed in transit (variable A2.7) as this is the maximum limit, although Lithuanian trucks can cross more than 5 transit countries. Lithuania may identify more than five transit countries.

Calculation of weighting factors:

Weighting factor = \(13 \times \frac{N}{S+S'}\)

N = number of vehicles in the register (in a stratum)
S = number of questionnaires used in analysis (in A1 dataset)
S’ = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.), sold, scrapped, leased, with load capacity too low.

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables:
Type of fuel used and fuel consumption.

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (YES)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (YES)
- place of unloading, if any, of the road transport vehicle from another means of transport (YES)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>60 535</td>
<td>64 132</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>12 855</td>
<td>12 911</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>2 139</td>
<td>2 696</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>3 378</td>
<td>3 385</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>1 337</td>
<td>1 136</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>6 001</td>
<td>5 694</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Luxembourg

Organisation responsible for the conducting the survey:
National Statistical Institute (STATEC)

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Parc des véhicules automoteurs

Name of organisation who maintains the register:
Centre des technologies de l’information de l’Etat (CTIE)

Frequency of update:
Daily update, but monthly transmission of an extract to STATEC.

Frequency of access to draw the samples:
At present, the samples are drawn at the beginning of the year, with two supplementary samples drawn in July and November.

Arrangements for accessing the register:
The first days of each month, the CTIE is transmitting an extract of the register to STATEC.

Information obtained from the register:
In the data files transmitted by the CTIE, there are technical specifications for all kind of automotive vehicles. At present, the CTIE is drawing the samples without any stratification. In 2022, STATEC plans to use stratified samples. The criteria for stratification are not yet fixed.

Procedure for reminders:
In general, the questionnaires have to be returned to STATEC within 5 days after the end of the reference week. At present, the enterprises receive, if necessary, 1-3 reminders per questionnaire. A scheduled system, sending out automatically reminders according to intervals to be fixed by STATEC is implemented. In general, the response rate is good.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
According to the EU road freight transport statistics regulation, STATEC excludes:

- Lorries < 3.5 tonnes load capacity
- Goods road transport vehicles whose authorised weight or dimensions exceed the limits normally permitted in the Member States concerned;
- Agricultural vehicles, military vehicles and vehicles belonging to central or local public administrations, vehicles not destined to the transport of goods, with the exception of goods road transport vehicles belonging to public undertakings, and in particular railway undertakings. In addition, several types of vehicles are also excluded, such as those used for breakdown services.
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

Time unit:
One week

Time unit of quarter 1 of 2022 included in the survey:
7 weeks

Stratification: There is no stratification. The same weighting factor is used for all vehicles for the whole quarter.

Recording of weight of goods:
Enterprises should indicate the weight of transported goods without packaging.

Recording of journey data sent to Eurostat:
Single stop, multi stop and collection/delivery: It is only allowed to indicate the carriage of one commodity per journey. If there are two or more commodities transported, the most important in terms of weight must be indicated.

Estimation of maximum permissible laden weight:
In the data files on the automotive vehicles, the maximum permissible laden weight on the different axes is indicated. The enterprises have to indicate the number of axles of the vehicle, the trailer or the semi-trailer. These indications allow calculating the total maximum permissible laden weight.

Calculation of weighting factors:

\[ \text{Weighting factor} = \frac{w \times v}{r + e} \]

- \( w \) = number of calendar weeks in a quarter
- \( v \) = quarterly average number of tractive vehicles in the register used for goods carriage
- \( r \) = quarterly recorded questionnaires
- \( e \) = quarterly unused questionnaires (no activity or unusable indications)

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables:
STATEC does not collect any information on the type of fuel used or the fuel consumption. Nevertheless, in the vehicle register there is a variable on the type of fuel used: in 2014, more than 98 % of the transport vehicles use diesel.

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)
### Main figures

<table>
<thead>
<tr>
<th></th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>9 538</td>
<td>9 700</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>8 705</td>
<td>8 806</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>2 024</td>
<td>930</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>1 004</td>
<td>1 129</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>0</td>
<td>970</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>5 677</td>
<td>5 777</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Hungary

Organisation responsible for the conducting the survey:
Hungarian Central Statistical Office (HCSO)

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
National stock of goods carriage motor vehicles

Name of organisation who maintains the register:
Ministry of Interior, Deputy State Secretariat Responsible for Keeping Registers

Frequency of update:
Twice a year

Frequency of access to draw the samples:
Once a year

Arrangements for accessing the register:
Agreement between the Hungarian Central Statistical Office and the Ministry of Interior, Deputy State Secretariat Responsible for Keeping Registers based on the Government-decree of the National Statistical Data-collecting Programme.

Information obtained from the register:
Name, address, legal status (corporation or individuals), load capacity, vehicle type and age of the vehicle.

Used in stratification: Legal status, load capacity, vehicle type and location.

Procedure for reminders:
First reminder: 8 days after the end of the reference period by post. The non-respondents must answer within 5 days.

HCSO has the right to take steps to impose penalty in case of notorious non-responds. The Data Collection Directory (responsible for data recording) has already taken a few steps to impose penalty in regions where the non-response rate was high. The non-response rate is still the same but more work is behind. The willingness to answer is getting worse. The willingness may improve in case the time period for answering will be halved in a reference year due to change in sample frequency.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Special-purpose vehicles: agricultural vehicles, military vehicles and vehicles belonging to central or local public administrations.

Lorries with less than 3.5 tonnes load capacity.
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

Time unit:
One week

Time units of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
The sample is stratified according to:
1st criteria: vehicle operator’s legal status (corporation or individual)
2nd criteria: load capacity, 4 categories: load capacity between 3.5 - 5 tonnes, 5 - 10 tonnes, above 10 tonnes and road tractors as a separate stratum

After this stratification we insure the required representation of the sample.

As a 3rd criterion, at data grossing-up, the 20 countries are taken into consideration.

Recording of weight of goods:
Gross-gross weight of goods is collected, i.e., containers swap bodies and pallets are included.

Recording of journey data sent to Eurostat:
Single stop: If more than one goods commodity is carried, only the commodity with the highest weight is taken into account.

Multi stop: multi-stop journeys are coded by vertical stages. In the calculation for the multi stop journeys, the total weight is the sum of weights loaded at each stop.

Collection/delivery: Journeys with less than 5 stops are not considered as collection/delivery journeys.

Estimation of maximum permissible laden weight:
Maximum permissible laden weight is available.

Calculation of weighting factors:
The main formula for the grossing (calculated for each of the 160 strata) is as follows:

\[
\text{weighting factor} = 13 \times (1 + C)^{\frac{N}{S}}
\]

\(N\) = total stratum population,
\(S\) = number of vehicles selected for initial sample and questionnaires despatched to vehicles owner.

Since 2014, a correction factor (C) has been calculated as proposed in the reference manual.

\[C = \frac{0.5 \times n_3 + n_4}{n_1 + n_2}\]

\(n_1\) = the number of vehicles (respondents) that could be used for analysis (including those who had any activity during the sampled period and those where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock.)
\(n_2\) = respondents whose performance is 0 because the vehicle was withdrawn from circulation;
\(n_3\) = non respondents – no information; wrong address; the vehicle does not belong to the addressed person (register fault)
\(n_4\) = vehicle has been sold, leased, performs somewhere else

The non-respondents were present in the calculation system in different ways than recommended. The multiplier proposed in the reference manual is 0.5 because the probability whether a vehicle performs or not is 50 percent. In order to prolong the effect, the correction factor was adjusted to the common calculation system during the time period of 2011–2013. The multiplier was 0.8 till 2010, 0.7
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

in 2011, and 0.6 in 2012 and 2013.

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**

Type of fuel used and fuel purchased.

**A1. Vehicle-related variables:**

- possibility of using vehicles for combined transport (YES)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

**A2. Journey-related variables:**

- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (NO)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

**A3. Goods-related variables:**

- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>81 451</td>
<td>83 562</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>48 164</td>
<td>48 512</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>8 658</td>
<td>9 446</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>9 983</td>
<td>10 595</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>7 177</td>
<td>6 967</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>22 346</td>
<td>21 504</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Malta

Organisation responsible for the conducting the survey:
National Statistics Office

The input below is based on information provided in the first quarter of 2004. Regulation (EU) No 70/2012 does not apply to Malta, as long as the number of Maltese-registered goods road transport vehicles licensed to engage in international transport does not exceed 400 vehicles. This is the case since 2004 and, therefore, the country does not report any data.

Sampling register used for the survey

Name of register:
Vehicle registration database

Name of organisation who maintains the register:
Department of Licensing and Testing

Frequency of update:
Continuously

Frequency of access to draw the samples:
Quarterly

Arrangements for accessing the register:
The NSO has an agreement with the Malta Transport Authority within whose portfolio the Licensing and Testing Directorate resides, through which the latter give access to the data in their register. Indeed, the MTA has recently agreed to provide the NSO with an electronic copy, with selected variables, of this register.

Information obtained from the register:
Registration number, name and surname of operator and his identity number, address, make, model, body type and gross vehicle weight.

Procedure for reminders:
Individual interviewers carry out the survey. There is no standard routine for reminders whilst the response rate was 67.6 % for the domestic survey and 32.7 % for the international operators.

Sampling methodology

Statistical unit:
Tractive vehicle and transport firm

Types of units excluded:
International transport: no exclusions are possible because the population is very small (70 trucks). Local transport of goods by road: the survey is carried out in accordance with the requirements of the Regulation.

Time unit:
1 weekday to which the statistical unit is assigned and both weekend days.
Time units of quarter 1 of 2004 included in the survey:
Zero

Stratification:
The overall sample size is 2 080 trucks, which are distributed 40 per week. The total number of 5–9.9 tonnage trucks sampled is 780, which amount to 15 per week (or 3 per weekday). The total number of 10+ tonnage trucks sampled is 1 300, which amount to 25 per week (or 5 per weekday). The idea is to allocate to each day of the week 8 trucks in all, and ask the individual to answer for that particular day to which he is assigned together with both weekend days for that week (i.e., Saturday and Sunday). Each address is tagged with a week number (running from 1 to 52) and a day number (running from 1 to 5, 1 being Monday to 5 being Friday).

Additional variables collected compared to the legal requirements:

Environmental impact related variables: none

A1. Vehicle-related variables:
• possibility of using vehicles for combined transport (NO)
• vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO)
• vehicle empty kilometres (NO)

A2. Journey-related variables:
• axle configuration according to the nomenclature defined in the Regulation on road transport statistics (NO)
• place of loading, if any, of the road transport vehicle on another means of transport (NO)
• place of unloading, if any, of the road transport vehicle from another means of transport (NO)
• Degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

A3. Goods-related variables:
• type of freight (Cargo types) as defined in the Regulation (NO)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
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<td>Number of cases classified as non-respondents</td>
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<td>Number of cases where sample register information was wrong and response could not be used</td>
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<td>Number of questionnaires used in analysis</td>
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More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified.DESC
Netherlands

Organisation responsible for the conducting the survey:
Statistics Netherlands

(Based on information referring to the first quarter of 2022 no methodological change for year 2022)

Sampling register used for the survey

Name of register:
- a) National vehicle Register of RDW (Centrum voor voertuigtechniek en informatie)

For the stratification of the sample also the following registers are also used:
- b) National Business Register (CBS/ Chamber of Commerce)
- c) Lease Registers from the Tax Authorities

Name of organisation who maintains the register:
Statistics Netherlands

Frequency of update:
Once a quarter

Frequency of access to draw the samples:
Once a quarter

Arrangements for accessing the register:
The data are forwarded by RDW to Statistics Netherlands up to one month in advance of the statistical period (quarter).

Information obtained from the register:
Information obtained among others from the register: licence number, brand name, loading capacity of the vehicle, type of motor vehicle, age of the vehicle, empty weight of the vehicle, fuel type, engine type (EURO norm), KW class of engine, enterprise number.

Information used in the stratification of the sample: to determine the type of transport (own account or hire and reward) the enterprise number belonging to the licence number in the National Vehicle Register of RDW is linked to the enterprise number of the National Business register. Furthermore, the NACE is used to categorize the vehicles to the enterprises that own the vehicle to minimize the sample-variance per stratum.

Further the following register variables are used for the stratification: loading capacity, type of vehicles and age of the vehicle.

Procedure for reminders:
There is a standard routine for reminders:
- immediately after the reported time period, the non-respondents receive a first written reminder.
- 3 weeks after the reported time period, the non-respondents receive a second written reminder.
- 5 weeks after the reported time period, the most important non-respondents, based on the number of vehicles, receive a reminder performed by telephone.

The response rate is adequate.
Monitoring methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Vehicles not used for goods transport on public roads and passenger vehicles, such as Buses and campers.
Vehicles with a Maximum Permissible Weight <= 3 500 kg.
Vehicles older than 25 years.

Statistics Netherlands has introduced a new survey to cover vehicles with a Maximum Permissible weight <= 3500 kg. The results of this group of vehicles in 2016: transported weight 64 million tonnes of goods (equipment excluded) and 16.5 billion kilometres.

Time unit:
One week

Time unit of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
The sample is drawn at random within 74 strata. The stratification variables used are:

- Type of transport (Own account or hire and reward) based on the National Business register
- Type of vehicle
- Loading capacity
- Age of vehicle

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Fraction</th>
<th>Year</th>
<th>Type of transport</th>
<th>Type of vehicle</th>
<th>Load capacity (¹)</th>
<th>Age of vehicle</th>
<th>Nace(¹)</th>
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(¹) 1. Less than 2 tonnes, 2. 2-3,5 tonnes, 3. 3,5-15 tonnes, 4. 15 tonnes or more
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

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<td>Hire and reward</td>
<td>Special vehicle</td>
<td>NULL</td>
<td>2,3,4</td>
<td>All vehicles</td>
</tr>
</tbody>
</table>

(¹) 1. Less than 2 tonnes, 2. 2-3.5 tonnes, 3. 3.5-15 tonnes, 4. 15 tonnes or more
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

Recording of weight of goods:
Gross-gross weight of goods is collected, i.e., containers swap bodies and pallets are included.

Recording journey data sent to Eurostat:
Single stop: The respondent can record only one type of goods.
Collection/delivery: Tonne-kilometres = Tonnes * Distance / 2.
Other variables: Unladen journeys are assumed to be associated with laden journeys.

Calculation of weighting factors:
Weighting factor = $13 \times 0.5 \times \frac{N \times N'}{S + S'}$
N = number of vehicles in the register (per stratum) (average of the current quarter)
N' = number of vehicles in the register (per stratum) (average of the next quarter)
S = number of questionnaires used in analysis (in A1 dataset)
S' = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.).

<table>
<thead>
<tr>
<th>Nacestratum</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Agriculture, hunting, forestry, fishing</td>
</tr>
<tr>
<td>A</td>
<td>Mining and quarrying</td>
</tr>
<tr>
<td>B</td>
<td>Manufacture of food products, beverages and tobacco</td>
</tr>
<tr>
<td>B</td>
<td>Manufacture of textiles and textile products, manufacture of leather and leather products, Manufacture of rubber and plastic products</td>
</tr>
<tr>
<td>B</td>
<td>Manufacture of wood and wood products</td>
</tr>
<tr>
<td>B</td>
<td>Manufacture of pulp, paper and paper products</td>
</tr>
<tr>
<td>B</td>
<td>Publishing, printing and reproduction of recorded media</td>
</tr>
<tr>
<td>B</td>
<td>Manufacture of coke, refined petroleum products and nuclear fuel, Manufacture of chemicals, chemical products and man-made fibres</td>
</tr>
<tr>
<td>B</td>
<td>Manufacture of other non-metallic mineral products</td>
</tr>
<tr>
<td>B</td>
<td>Manufacture of basic metals and fabricated metal products, Manufacture of machinery and equipment n.e.c.,</td>
</tr>
<tr>
<td>B</td>
<td>Manufacture of electrical and optical equipment, Manufacture of transport equipment</td>
</tr>
<tr>
<td>B</td>
<td>Manufacturing n.e.c.</td>
</tr>
<tr>
<td>B</td>
<td>Electricity, gas and water supply</td>
</tr>
<tr>
<td>C</td>
<td>Construction</td>
</tr>
<tr>
<td>D</td>
<td>Wholesale trade and commission trade, except of motor vehicles and motorcycles</td>
</tr>
<tr>
<td>D</td>
<td>Retail trade, except of motor vehicles and motorcycles; repair of personal and household goods</td>
</tr>
<tr>
<td>D</td>
<td>Hotels and restaurants</td>
</tr>
<tr>
<td>E</td>
<td>Sale, maintenance and repair of motor vehicles and motorcycles; retail sale of automotive fuel</td>
</tr>
<tr>
<td>E</td>
<td>Transport, storage and communication (excl. Freight transport by road)</td>
</tr>
<tr>
<td>F</td>
<td>Financial intermediation, Real estate, renting and business activities</td>
</tr>
<tr>
<td>F</td>
<td>Education, Health and social work, Other community, social and personal service activities</td>
</tr>
<tr>
<td>G</td>
<td>Nace classification unknown</td>
</tr>
</tbody>
</table>
To correct for changes in the population during the quarter, two consecutive versions of the vehicle register are used (N and N').

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**
Type of fuel used and average fuel consumption.

**A1. Vehicle-related variables:**
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

**A2. Journey-related variables:**
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (NO)
- place of loading, if any, of the road transport vehicle on another means of transport (YES)
- place of unloading, if any, of the road transport vehicle from another means of transport (YES)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

**A3. Goods-related variables:**
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>136 541</td>
<td>138 891</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>39 302</td>
<td>39 150</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>6 603</td>
<td>5 964</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>4 940</td>
<td>7 183</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>2 684</td>
<td>2 582</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>25 157</td>
<td>23 425</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Austria

Organisation responsible for the conducting the survey:
Statistics Austria

*(Based on information referring to the first quarter of 2022)*

**Sampling register used for the survey**

**Name of register:**
Vehicle-Register (VR) and Statistical Business Register (BR)

**Name of organisation who maintains the register:**
Vehicle Register: Austrian motor vehicle liability insurance
Business Register: Bundesanstalt Statistik Österreich / Statistics Austria

**Frequency of update:**
Vehicle Register: Monthly
Business Register: Continuously

**Frequency of access to draw the samples:**
Once a quarter

**Arrangements for accessing the register:**
Access to the vehicle register of the Austrian motor vehicle liability insurance is regulated in §40b Abs. 10 and §47 Abs. 1a of the Kraftfahrgesetzes 1967- KFG. 1967.
The vehicle liability insurance has to grant Statistics Austria electronic access to all data necessary for the compilation of statistics on the national vehicle inventory.

**Information obtained from the register:**
Vehicle Register: Bundesland (Federal State), registration office, vehicle registration number, vehicle identification number, registration date, type of vehicle, empty weight, load capacity, maximum permissible weight, link to BR.
Business Register: Enterprise number (link to VR), name of enterprise, address, NACE.
Stratum: Load capacity class (derived from total load capacity of all vehicles registered at a local unit), transport type (“transport on own account / for hire or reward “, derived from NACE), maximum permissible gross vehicle weight, geographic region derived from address.

**Procedure for reminders:**
First reminder: 3 weeks after the surveyed week
Second reminder: 5 weeks after the surveyed week
Penalty procedure: starts 6 weeks after the second reminder
The response rate is adequate.
The survey is obligatory, and respondents that do not complete the survey have to face legal fines.
**Sampling methodology**

**Statistical unit:**
Tractive vehicle, Local unit

**Types of units excluded:**
Excluded are local units with NACE 7525 (Fire brigade), 8041 (Driving schools), 9500 (Private household) and 9900 (Exterritorial organisations and corporations).

Agricultural vehicles, vehicles of regional administrative bodies and foreign organisations and military vehicles.

Vehicles with load capacity less than 2 tonnes.

Vehicles older than 30 years.

**Time unit:**
One week

**Time unit of quarter 1 of 2022 included in the survey:**
All of quarter 1

**Stratification:**

The stratification of the survey is based on groups based on load capacity class of the local unit at which the vehicle is registered, transport type, maximum permissible weight and geographic region.

<table>
<thead>
<tr>
<th>Stratum code</th>
<th>Load capacity class</th>
<th>Transport type</th>
<th>Maximum permissible weight</th>
<th>Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>1051</td>
<td>1</td>
<td>0</td>
<td>All vehicles</td>
<td>AT</td>
</tr>
<tr>
<td>2112</td>
<td>2</td>
<td>1</td>
<td>&lt;=12.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>2113</td>
<td>2</td>
<td>1</td>
<td>&lt;=12.5t</td>
<td>V</td>
</tr>
<tr>
<td>2132</td>
<td>2</td>
<td>1</td>
<td>&gt;12.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>2133</td>
<td>2</td>
<td>1</td>
<td>&gt;12.5t</td>
<td>V</td>
</tr>
<tr>
<td>2161</td>
<td>2</td>
<td>1</td>
<td>Road tractors</td>
<td>AT</td>
</tr>
<tr>
<td>2222</td>
<td>2</td>
<td>2</td>
<td>&lt;=7.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>2223</td>
<td>2</td>
<td>2</td>
<td>&lt;=7.5t</td>
<td>V</td>
</tr>
<tr>
<td>2242</td>
<td>2</td>
<td>2</td>
<td>&gt;7.5t and &lt;=12.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>2243</td>
<td>2</td>
<td>2</td>
<td>&gt;7.5t and &lt;=12.5t</td>
<td>V</td>
</tr>
<tr>
<td>2232</td>
<td>2</td>
<td>2</td>
<td>&gt;12.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>2233</td>
<td>2</td>
<td>2</td>
<td>&gt;12.5t</td>
<td>V</td>
</tr>
<tr>
<td>2261</td>
<td>2</td>
<td>2</td>
<td>Road tractors</td>
<td>AT</td>
</tr>
<tr>
<td>3112</td>
<td>3</td>
<td>1</td>
<td>&lt;=12.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>3113</td>
<td>3</td>
<td>1</td>
<td>&lt;=12.5t</td>
<td>V</td>
</tr>
<tr>
<td>3132</td>
<td>3</td>
<td>1</td>
<td>&gt;12.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>3133</td>
<td>3</td>
<td>1</td>
<td>&gt;12.5t</td>
<td>V</td>
</tr>
<tr>
<td>3161</td>
<td>3</td>
<td>1</td>
<td>Road tractors</td>
<td>AT</td>
</tr>
<tr>
<td>3222</td>
<td>3</td>
<td>2</td>
<td>&lt;=7.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>3223</td>
<td>3</td>
<td>2</td>
<td>&lt;=7.5t</td>
<td>V</td>
</tr>
<tr>
<td>3242</td>
<td>3</td>
<td>2</td>
<td>&gt;7.5t and &lt;=12.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>3243</td>
<td>3</td>
<td>2</td>
<td>&gt;7.5t and &lt;=12.5t</td>
<td>V</td>
</tr>
<tr>
<td>3232</td>
<td>3</td>
<td>2</td>
<td>&gt;12.5t</td>
<td>ATeV</td>
</tr>
<tr>
<td>3233</td>
<td>3</td>
<td>2</td>
<td>&gt;12.5t</td>
<td>V</td>
</tr>
<tr>
<td>3261</td>
<td>3</td>
<td>2</td>
<td>Road tractors</td>
<td>AT</td>
</tr>
</tbody>
</table>
Principle behind the numerical encoding of the Strata:

Load capacity class of local unit (total load capacity registered at a local unit, including vehicles and trailers):

1: <15 tonnes load capacity
2: 15-150 tonnes load capacity
3: >150 tonnes load capacity

Transport type:

0: any transport type
1: transport for hire or reward
2: transport on own account

Maximum permissible weight of vehicles:

<= 12.5 tonnes (only for transport on own account)
<= 7.5 tonnes (only for hire or reward)
between 7.5 and 12.5 tonnes (only for hire or reward)
> 12.5 tonnes
5: All vehicles
6: Road tractors

Geographic region:

AT: Austria
ATEv: Austria excluding Vienna
V: Vienna

Recording of weight of goods:

A2: gross-gross-weight
A3: For containers (not swap bodies or pallets) a separate record for the container (with tare weight of the container, type of goods = 16) and the load (gross-weight) is produced. For swap bodies and pallets, the gross-gross weight is reported directly.

Recording journey data sent to Eurostat:

Single stop: Only the most common type of good is recorded for a single stop journey.

For multi stop journeys it is assumed that either only loading or unloading occurs. It is not possible to report mixed journeys on which both - loading and unloading - occurs. For multi-stop journeys with equal or less than 5 stops, each loading/unloading operation is recorded separately.

For multi-stop journeys with more than 5 stops, the simplified reporting recommended by the manual is used - total weight, total distance, number of stops.

Estimation of maximum permissible laden weight:

Exact data is available.

Calculation of weighting factors:

For calculating the weighting factor $w_{hz}$ the year is subdivided into 12 periods ($z$). Each period contains $k$ weeks, where $k$ is 4, except for each third period where it is 5. The weighting factor $w_{hz}$ in each stratum $h$ is calculated as $k$ times the quotient of the number of all vehicles $F_h$ of stratum $h$ divided by the number of responding vehicles $f_{hz}$ in period $z$.

$$w_{hz} = k \times \frac{F_h}{f_{hz}}$$
Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables: none

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (PARTIALY – Only RORO with ship)
- place of unloading, if any, of the road transport vehicle from another means of transport (PARTIALY – Only RORO with ship)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>67,859</td>
<td>68,806</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>27,311</td>
<td>27,260</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>3,794</td>
<td>3,961</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>613</td>
<td>549</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>3,934</td>
<td>3,775</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>18,970</td>
<td>18,975</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Poland

Organisation responsible for the conducting the survey:
Central Statistical Office

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Statistical motor vehicle database (created for the purpose of this survey)

Name of organisation who maintains the register:
Ministry of Digital Affairs

Frequency of update:
Quarterly

Frequency of access to draw the samples:
Quarterly

Arrangements for accessing the register:
The main data source is Central Vehicle Register (maintained by Ministry of the Digital Affairs).

Data as of the end of each quarter are received as 16 files in the XML format (according to NTS 3-level/districts) four times a year (at the end of December, March, June, September)

Information obtained from the register:
Information to conduct the survey: registration number, name, address and ID number (REGON) of the vehicle owner or user, type of vehicle, year of manufacture, load capacity, maximum permissible weight, type of body, administrative region (NTS4/district-codes), number of axles information on model and brand of vehicles in case both the vehicle’s load capacity and maximum permissible laden weight is unknown.

Information for the stratification: type of vehicle, year of manufacture, administrative region (NUTS4-level), permissible gross weight, load capacity (for lorries).

Procedure for reminders:
First reminder: 23 days after the survey week.
Second reminder: 3 weeks after first sent reminder.

In 2022, the survey sample amounted to 50 025 goods motor vehicles.

The statistical obligations of the companies with more than 100 vehicles are limited to only 30 % of their fleet.
Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Road motor vehicles over 25 years old.
Lorries with 3.5 and less than 3.5 tonnes maximum permissible weight and less than 1.5 tonnes load capacity.
Military vehicles, vehicles of the border guard, police vehicles, vehicles belonging to central or local public administrations and agricultural tractors.
Special purposes vehicles and vehicle not adjusted to carry goods.

Estimations for the vehicle-km (or performance) not covered by the survey:
In 2015, about 5 % of total performance is not covered by Regulation 70/2012.

Time unit:
One week

Time units of quarter 1 of 2022 included in the survey:
All (13 weeks).

Stratification:
The sample has 192 strata and is stratified according to:
- Type of vehicle (2 classes): lorry; road tractor
- Age (4 age-groups): 0–5, 6–10 (younger), 11–15; 16–25 (older)
- Load capacity (2 classes): <6 tonnes; ≥ 6 tonnes (concerning the lorries only)
- 16 regions (from 02 to 32)
The sample is divided into 12 large strata:
- 11 - lorries with under 6 tonnes of load capacity and within the 0–5 age group
- 12 - lorries with under 6 tonnes of load capacity and within the 6–10 age group
- 21 - lorries with under 6 tonnes of load capacity and within the 11–15 age group
- 22 - lorries with under 6 tonnes of load capacity and within the 16–25 age group
- 31 - lorries with 6 tonnes and more than 6 tonnes of load capacity and within the 0–5 age group
- 32 - lorries with 6 tonnes and more than 6 tonnes of load capacity and within the 6–10 age group
- 41 - lorries with 6 tonnes and more than 6 tonnes of load capacity and within the 11–15 age group
- 42 - lorries with 6 tonnes and more than 6 tonnes of load capacity and within the 16–25 age group
- 51 - road tractors within the 0–5 age group
- 52 - road tractors within the 6–10 age group
- 61 - road tractors within the 11–15 age group
- 62 - road tractors within the 16–25 age group
Each of the strata is allocated into 16 regions. The sample is allocated to the stratum in proportion to the population of the stratum and distributed equally among the 13 weeks of the quarter.
Each of strata has a unique code which consists of code for the region and a symbol of the large stratum (e.g., 0211).

The sampling fraction is greater for younger and heavier vehicles, which means that:

- the sample of heavier lorries is one and a half as big as the sample of lighter lorries, while the sample of younger lorries is almost as much as the sample of older lorries
- the sample of younger road tractors is twice as big as the sample of older road tractors

**Recording of weight of goods**

Gross-gross weight of goods is collected, i.e., containers swap bodies and pallets are included.

**Recording of journey data sent to Eurostat:**

Single stop: Transport operators are requested to give only one main type of goods (dominant considering the weight of goods).

Multi stop: For each place of loading in the type 2 journeys is recorded only one main type of goods. Goods are unloaded according to the method FIFO (the first type of goods loaded is the first type of goods unloaded)

Collection/delivery: The transport operators give only the first and last place of loading/unloading and the number of stops. Type 3 journeys are recorded only for national transport.

The weight of goods and tonnes-kilometres are calculated according to the formula:

\[
\text{Weight of goods (A2.2)} = \text{weight of goods (A3.2)}
\]

\[
\text{Tonnes-km} = \sum \left( \frac{A3.2 \times A3.7}{20} \right)
\]

where:

- A3.2 - weight of goods
- A3.7 - distance travelled

Other variables: The axle configuration of vehicle and the type of transport are recorded as the most frequently-used during the survey week.

**Estimation of maximum permissible laden weight:**

For a given vehicle whose load capacity is known, the maximum permissible laden weight is estimated using the most common maximum permissible laden weight recorded by other vehicles of the same load capacity.

In case both the vehicle’s load capacity and maximum permissible laden weight is unknown in Central Vehicle Register, we refer to information regarding model and brand of vehicles. Missing information on maximum permissible laden weight and load capacity is completed on the basis of the vehicle catalogue.

**Calculation of weighting factors:**

Weighting factors = \[13 \times C \times \frac{N}{n}\]

- \(N\) = total number of vehicles in the sampling frame (in a stratum)
- \(n\) = number of vehicles selected for the sample
- \(C\) = correction factor computed as \[\frac{s_1 + s_3}{s_1}\]
  - \(s_1\) = number of active stock (active vehicles (records in A1 dataset) and non-working vehicles (due to sickness, repair, lack of work etc))
  - \(s_3\) = number of non-responses (non-contacts, refusals, unknown users, sold vehicles, vehicles covered by banking secrecy, etc.)

During the weighting process we deal with:
1. Over-coverage
2. Non-response

Basic weighting factor:

\[ w_1 = 13 \frac{N}{n} \]

Assumption 1: The proportion of scrapped and other out-of-scope vehicles found on the survey is the same as on the register.

Assumption 2: All non-responses are assumed to be in-scope.

1. Over-coverage

Weighting factor considering over-coverage:

\[ w_2 = w_1 \frac{s_1 + s_3}{n} \]

2. Non-response

Weighting factor considering non-response:

\[ w_3 = w_2 \frac{n}{s_1} \]

Finally:

\[ w_4 = 13 \frac{N}{n} \frac{s_1 + s_3}{s_1} \]

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables:

Type of fuel used and average fuel consumption.

A1. Vehicle-related variables:

- possibility of using vehicles for combined transport (YES)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:

- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (YES)
- place of unloading, if any, of the road transport vehicle from another means of transport (YES)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:

- type of freight (Cargo types) as defined in the Regulation (YES)
<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>707 009</td>
<td>708 366</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>50 024</td>
<td>50 025</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>8 383</td>
<td>7 833</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>15 826</td>
<td>16 253</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>7 163</td>
<td>7 407</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>18 652</td>
<td>18 532</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Portugal

Organisation responsible for the conducting the survey:
National Statistical Institute (INE)

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Heavy goods road vehicle file

Name of organisation who maintains the register:
National Organisations:
  - I.R.N. (Instituto dos Registos e do Notariado)
  - I.M.T. (Instituto da Mobilidade e dos Transportes)

Frequency of update:
Quarterly concerning the survey feedback, annually concerning the 2 external sources

Frequency of access to draw the samples:
Once a quarter

Arrangements for accessing the register:
Each year, IMT provides the file containing the vehicles licensed to transport activities and IRN provides the file containing the identification (name and address) of the owners or users (these last only for registers changed in the current year).

Information obtained from the register:
Vehicle registration, 1st year of the vehicle registration, maximum permissible laden weight, load capacity, number of axles, category of the vehicle, type of transport, identification and NACE of the owner, auxiliary information about some leasing contracts.

Used in stratification: NUTS II of the address of the owners (Mainland regions: Norte, Centro, Lisboa, Alentejo and Algarve), Category of the vehicle (Lorry or Road tractor), Gross weight class (5 for lorries and 2 for tractors), Type of transport (Own Account, Hire or Reward).

Procedure for reminders:
The first reminder goes out 3 weeks after the end of the month under observation, the second reminder goes out three weeks after the first one and the last reminder goes out only for selected specific cases.

The response rate seems to be adequate (about 90-95 % in provisional data).
Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
All vehicles with maximum permissible laden weight equal or inferior to 3 500 kg, vehicles not used for the transport of goods, such as agricultural and military vehicles, fire engines and special transport vehicles.

Time unit:
One week

Time unit of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
Two strata of ‘gross weight class’ were merged: 19 001kg - 22 000kg and 22 000kg - 26 000Kg into 19 001 Kg - 26 000 Kg.

The sample is stratified according to the following variables:
- First two digits:
  - Region NUTS II (Norte, Centro, Lisboa, Alentejo and Algarve)
- Third digit:
  - Category of vehicle (Lorry or Road Tractor)
- Fourth digit:
  - Gross weight class (Lorry):
    - 3 501 - 10 000 kg
    - 10 001 - 16 000 kg
    - 16 001 - 19 000 kg
    - 19 001 - 26 000 kg
    - over 26 000
  - Gross weight class (Road Tractor):
    - 3 501 - 7 000 kg
    - over 7 000
- Fifth digit:
  - Type of transport (Own Account, Hire or Reward)

Recording of weight of goods:
Gross weight of goods is collected, i.e., containers swap bodies and pallets are excluded.

Recording of journey data sent to Eurostat:
Single stop: If in the same journey, more than one goods commodity is carried, we consider that journey as type 2.
Multi stop: multi-stop journeys are coded by consignments. This type of journey is considered when there is more than one goods commodity being carried or several stops during the journey. When the answer implies several stops, the journey is transformed into type 1 journeys; if the vehicle becomes empty, a new road freight transport operation is considered.
Collection/delivery: This type of journey is considered whenever there is a collection/delivery of goods with an unrecorded number of stops with short distances separating them. When retrieving data there are often the following situations:

7. On the same journey, when an empty packaging retrieval occurs simultaneously (type of goods: 250), the registered number of kilometres travelled equals the total kilometres divided by the number of goods being carried. The calculation of the tonnes-kilometres is made in the same way as for type 2 journeys.

8. When there is no simultaneous retrieval of empty packaging, it is considered as origin the first point of departure and as the last the farthest one (not the last); it is registered the kilometres that were effectively travelled (usually, the sum of all the stages is huge), and the calculation of the tonnes-kilometres is made according to: weight * distance / 20.

**Estimation of maximum permissible laden weight:**

Maximum permissible laden weight is estimated by adding the gross weight of the vehicle and the gross weight of the trailers (or semi-trailer) used.

**Calculation of weighting factors:**

Weighting factor = \( 1.3 \times \frac{N_h}{n_h} \)

\( h \) = stratum

\( N_h \) = total number of vehicles adjusted for strata changes and out-of-scope vehicles

\( n_h \) = number of usable responses (vehicles with activity + vehicles without activity)

Non response: only effective responses are considered. Partial and non-responses are not treated.

Wrong information in sample register(s): the information is corrected in the sampling frame.

Vehicles without activity during the sampled period (due to sickness, repair, lack of work etc): are considered as effective responses.

Post-stratification and sampling frame adjustment is used.

Collection data is used to correct strata variables of sample units and adjust, in the same proportion, the distribution of total number of vehicles by strata.

The out-of-scope vehicles are also eliminated from the sampling frame. Total number of vehicles is adjusted as well.

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**

Type of fuel used and fuel consumption.

**A1. Vehicle-related variables:**

- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

**A2. Journey-related variables:**

- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

- degree of loading: situation 'fully loaded' (procedure 2) or 'not fully loaded' (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

**A3. Goods-related variables:**

- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>75,907</td>
<td>73,177</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>17,748</td>
<td>17,813</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>0</td>
<td>1,765</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>2,066</td>
<td>2,006</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>775</td>
<td>729</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>13,221</td>
<td>13,313</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Romania

Organisation responsible for the conducting the survey:
National Institute of Statistics: Institutul National de Statistica - INS - Romania

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Vehicle Register

Name of organisation who maintains the register:
Romanian Road Authority

Frequency of update:
Quarterly

Frequency of access to draw the samples:
Once a quarter

Arrangements for accessing the register:
The sampling frame is based on the information on authorised vehicles received quarterly from Romanian Road Authority. The scrapped vehicles reported by owners and the vehicles older than 25 years are not included in the sampling frame.

Information obtained from the register:
Number of registration, type of vehicle (category of vehicle and subcategory of vehicle), year of manufacturing, maximum permissible weight, load capacity, number of axles of vehicle (single vehicle), name and address of the vehicle’s owner. From NIS statistical registers is obtained the information on main activity for owner of vehicle (NACE Rev 2). The above-mentioned information is updated by the transport operator while filling in the questionnaire.

Used in stratification: Type of transport (derived from NACE Rev 2), load capacity

Procedure for reminders:
Reminders are transmitted by email at one week, respectively two weeks after the reporting deadline. After the second reminder the respondents are contacted by phone.

The response rate is adequate.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Vehicles with load capacity less than 3.5 tonnes, military vehicles, vehicles of public administrations, agricultural vehicles and vehicles older than 25 years.
**Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries**

**Time unit:**
One week

**Time units of quarter 1 of 2022 included in the survey:**
All (13 weeks)

**Stratification:**
The sample is stratified according to the following variables:

- **Statistical regions (8 classes):**
  - Nord-Est
  - Sud-Est
  - Sud - Muntenia
  - Sud-Vest Oltenia
  - Vest
  - Nord-Vest
  - Centru
  - Bucuresti-Ilfov

- **Type of transport:**
  - hire or reward
  - own account

- **Load capacity (4 classes):**
  - 3 500 - 7 500 kg
  - 7 501 - 12 000kg
  - 12 001 - 17 000 kg
  - more than 17 000 kg

**Recording of weight of goods:**
Gross weight of goods is collected, i.e., containers swap bodies and pallets are excluded.

**Recording of journey data sent to Eurostat:**

- **Single stop:** For journeys with more than one commodity, only one record is created.
  Journeys with the same distance, same goods, same quantity, same place of loading and unloading are recorded on a single row in the questionnaire, mentioning the number of identical journeys, but in A2 are recorded all journeys.

- **Multi stop:** multi-stop journeys are recorded by vertical stages.

**Calculations of weighting factors:**

\[
\text{Weighting factor} = 13 \times C \times \frac{N}{n}
\]

- \(N\) = total number of vehicles in a stratum
- \(n\) = number of vehicles selected for the sample

\[
C = \text{correction factor computed for each stratum } h \text{ as } \frac{n_{h1} + n_{h3}}{n_{h1} + n_{h2} + n_{h3} + n_{h4}}
\]

where:

- \(n_{h1}\) = number of vehicles with activity from stratum \(h\)
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

\[ n_{h2} = \text{number of vehicles without activity from stratum } h \]
\[ n_{h3} = \text{number of refusals from stratum } h \]
\[ n_{h4} = \text{number of vehicles with uncertain activity from stratum } h \]

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables:
Quantity of fuel purchased (low quality of data)

A1. Vehicle-related variables:

- possibility of using vehicles for combined transport (YES)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (NO)

A2. Journey-related variables:

- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- Degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES) (see the mention from Country and table specific notes)

A3. Goods-related variables:

- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>139 816</td>
<td>144 253</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>32 208</td>
<td>32 212</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>12 421</td>
<td>12 418</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>1 430</td>
<td>1 507</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>2 014</td>
<td>2 054</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>16 343</td>
<td>16 233</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Slovenia

Organisation responsible for the conducting the survey:
Statistical Office of the Republic of Slovenia
(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Central Register of Vehicles and Traffic Documents

Name of organisation who maintains the register:
Ministry of Infrastructure

Frequency of update:
Monthly

Frequency of access to draw the samples:
Quarterly

Arrangements for accessing the register:
Bilateral institutional agreement by the Statistical Office of the Republic of Slovenia and the Ministry of Infrastructure and Spatial Planning.

The replication of the statistical version of the Central Register of Vehicles and Traffic Documents at the Ministry of Infrastructure and Spatial Planning is made on the last day of every month.

Before each quarterly sampling, the Central Register of Vehicles and Traffic Documents is matched with the Business Register of Slovenia to obtain information on activity and address for owners and users of vehicle.

Information obtained from the register:
Central Register of Vehicles and Traffic Documents: identification of the owner/user, type of owner, registration number, type of vehicle, type of body, unladen weight, maximum permissible laden weight, year of manufacture, number of axles, date of first registration, date of first registration in Slovenia, type of fuel used.

Used in stratification:
- type of owner
- unladen weight
- maximum permissible laden weight

Business Register: main activity of the operator, name of the owner/user, address of the owner/user.

Procedure for reminders:
First reminder – two weeks following the observation period
Second reminder - four weeks following the observation period
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Agricultural vehicles, military vehicles, public service vehicles, special purpose vehicles and vehicles belonging to users that could not be matched with the business register.

Vehicles with load capacity below 2 tonnes.

Time unit:
One week

Time units of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
Strata were defined with the type of ownership (2 classes: legal entities, natural persons) and loading capacity (4 classes: 2.00 - 4.99, 5.00 - 9.99, 10.00 and more tonnes, road tractors). The allocation of units among the strata is proportional with slight corrections due to fact that the sample size in each stratum should be divisible by 13 (weeks in a quarter).

Recording of weight of goods:
Gross weight of goods is collected; containers and swap bodies are excluded, but pallets might be included.

Recording of journey data sent to Eurostat:

Single stop: In case of more than one type of goods in the same journey, the main type of goods carried is used for the classification of goods. However, total weight of all goods is recorded.

Multi stop: In case of more than one type of goods in the same journey, the main type of goods carried is used for the classification of goods. However, total weight of all goods is recorded. Dataset A3 is set up with the assumption that goods loaded first are unloaded first (FIFO).

Collection/delivery: In case of more than one type of goods in the same journey, the main type of goods carried is used for the classification of goods. However, total weight of all goods is recorded.

Origin is the first place of loading or the first place from where the empty vehicle is set out to pick up goods. Destination is the furthest town in a circular journey. Empty kilometres are not recorded in A3 or A2; however, they are included in A1_8_2. In case of collection/delivery in international journey, type 2 or simplified type 1 journey is used.

Tonne-kilometres for type 3 journeys are calculated as follows:

\[ A2.6 = \sum_{i=0}^{n-1} DL/n \ast (WL - i \ast WL/n) + \sum_{i=0}^{n-1} DL/n \ast (WC - i \ast WC/n) \]

n is number of stops
DL is distance travelled loaded
WL is weight of goods loaded
WC is weight of goods collected

Other variables: In case of usage of more than one trailer in the surveyed week, only information on the trailer used in majority of cases is collected.

Calculation of weighting factors:

Weights for each stratum are calculated as follows.
Weights due to non-response:

\[ w_{\text{NONR}} = \frac{\text{Number of units in sample}}{\text{Number of eligible} + \text{Number of ineligible units}} \]

Weights due to sample selection:

\[ w_{\text{SEL}} = \frac{\text{Number of units in frame}}{\text{Number of units in sample}} \]

Overall weight:

\[ w_{\text{Overall}} = w_{\text{SEL}} \cdot w_{\text{NONR}} \cdot 13 \]

Eligible units are units that respond to the questionnaire regardless of the activity of the vehicle (also inactive: no work, holiday, etc.).

Ineligible units are units beyond the target population that were included in the sample. These include cases where the capacity of the vehicle was below 2 tonnes or the vehicle was temporarily or permanently withdrawn from the Register.

Vehicles with unknown addresses and other mistakes in the register, sold, leased or subcontracted vehicles and vehicles whose respondents refused to answer or dispatched unusable questionnaires are treated as non-response.

Additional (optional) variables collected compared to the legal requirements:

Environmental impact related variables:

Type of fuel used and quantity of fuel purchased.

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)
### Main figures

<table>
<thead>
<tr>
<th>Description</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>29 786</td>
<td>30 315</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>8 333</td>
<td>8 333</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>1 403</td>
<td>1 320</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>2 600</td>
<td>2 893</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>450</td>
<td>454</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>3 880</td>
<td>3 666</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Slovakia

Organisation responsible for the conducting the survey:
Statistical Office of the Slovak Republic
*(Based on information referring to the first quarter of 2022)*

Sampling register used for the survey

**Name of register:**
Vehicle Register and Register of operators

**Name of organisation who maintains the register:**
Ministry of Interior and Statistical Office

**Frequency of update:**
Permanently

**Frequency of access to draw the samples:**
Yearly

**Arrangements for accessing the register:**
Vehicle register: Annually taken over from administrative sources, Ministry of Interior. Sample survey is updated quarterly.
Operator’s register (administrator Statistical Office of the Slovak Republic) is being currently updated.
Identifier Code of operators is converted between register.

**Information obtained from the register:**
Vehicle register: Vehicle register mark, identifier of operators, type of vehicle, year of production, load capacity and date of input.
Operators register: Identifier of operators, type of operators, name of operators, settlement code, settlement name, street and number, ZIP code, NACE code and date of input.

Used in stratification: a low form of the vehicle owner (enterprise or tradesman), type of vehicle and loading capacity is used.
In the frame of sample survey, the region is taking into sampling.
The region is not a criterion for strata.

**Procedure for reminders:**
Respondent has to send the filled questionnaire in written or electronic form to the Statistical Office within 8 days after the end of the surveyed week.
First reminder: If the respondent does not fulfil his obligation within the deadline, a first reminder is sent 2 weeks after the surveyed week.
Second reminder: Sent 2 weeks after the 1st reminder.
Reminders are automatically generated by the IT system according to the date of the surveyed week.
The response rate is adequate.
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

Sampling methodology

**Statistical unit:**
Tractive vehicle

**Types of units excluded:**
None

**Time unit:**
One week

**Time units of quarter 1 of 2022 included in the survey:**
All (13 weeks)

**Stratification:**
From 2019 a new stratification is used:

<table>
<thead>
<tr>
<th>Loading capacity</th>
<th>Enterprise/Business register</th>
<th>Sole entrepreneurs/Tradesman register</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 3 499 tonnes</td>
<td>lorries</td>
<td>lorries</td>
</tr>
<tr>
<td>3 500 – 4 999 tonnes</td>
<td>lorries</td>
<td>lorries</td>
</tr>
<tr>
<td>5 000 – 9 999 tonnes</td>
<td>lorries</td>
<td>lorries</td>
</tr>
<tr>
<td>10 000 tonnes and more</td>
<td>lorries</td>
<td>lorries</td>
</tr>
<tr>
<td>10 000 tonnes and more</td>
<td>lorries</td>
<td>lorries</td>
</tr>
</tbody>
</table>

Since 2017, the sample has been increased from 10 400 to 13 000 vehicles per year.

**Recording of weight of goods:**
Gross-gross weight of goods is collected, i.e. containers are included.

**Estimation of maximum permissible laden weight:**
Maximum permissible laden weight is estimated as 1.25 * loading capacity.

**Calculation of weighting factors:**
Weighting factor = $13 \cdot \frac{N}{S}$ or $13 \cdot \frac{N}{S+S'}$ (depending on register quality)

$N =$ number of vehicles in the register (in a stratum)

$S =$ number of questionnaires used in analysis (in A1 dataset)

$S'$ = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**
Type of fuel used and fuel consumption.

**A1. Vehicle-related variables:**
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
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</tr>
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<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>167 164</td>
<td>164 586</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>13 000</td>
<td>12 055</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>4 282</td>
<td>4 065</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>2 016</td>
<td>1 787</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>1 096</td>
<td>923</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>5 606</td>
<td>5 280</td>
</tr>
</tbody>
</table>

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Finland

Organisation responsible for the conducting the survey:
Statistics Finland

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
1) Vehicle Register
2) Membership register

Name of organisations who maintains the register:
1) Finnish Transport and Communications Agency (Traficom)
2) SKAL-S (International Road Carriers of Finland – Association of Contract Operators in Finland – Association of Tank Operators in Finland)

Frequency of update:
Constantly

Frequency of access to draw the samples:
1) Once a quarter
2) Twice a year

Arrangements for accessing the register:
An agreement for co-operation in statistical issues with Finnish Transport and Communications Agency and with SKAL-S.

Information obtained from the register:
1) The vehicle’s register number, the vehicle holder’s name and address, the vehicle holder’s register code (if not a natural person), the vehicle holder’s language, date of first registration, model, made, type of vehicle, body type, type of transport, self-weight, load capacity, maximum permissible laden weight, type of haul device (hook/fifth wheel), number of axles, engine power.

Used for stratification:
- type of transport (own account, hire or reward),
- maximum permissible laden weight (over 3.5 tonnes and up to 6 tonnes, over 6 tonnes),
- type of vehicle (lorry, articulated vehicle, road train).

2) Membership of SKAL-S, which is also used for stratification.

Procedure for reminders:
Questionnaires for four successive survey periods (two weeks altogether) are sent simultaneously. Reminders are sent like described below:
- If a vehicle holder does not respond in 3 days after the due date for return of the questionnaire, first reminder is sent out by post.
- If a vehicle holder still does not respond within 2 weeks of the previous reminder, second reminder is sent by post.
- If a vehicle holder still does not respond within 2 weeks of the previous reminder, third reminder is
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

sent by e-mail.

- If a vehicle holder still does not respond within one week of the previous reminder, fourth reminder is sent by text message

From 2014 to 2019 response rate has been between 58 and 63 % while the share of questionnaires used in analysis has stayed around 50 %. The share of incomplete answers has also risen. By incomplete answers we mean that:

- Respondent has only visited web questionnaire but not filled in anything
- Filled in only contact information
- Filled in that vehicle was in use, but no journeys were given
- Etc.

Sampling methodology

Statistical unit:
Ttractive vehicle

Types of units excluded:
Vans whose maximum permissible laden weight is 3.5 tonnes or less. Furthermore, military vehicles and vehicles which are not especially designed to transport goods such as museum vehicles, fire engines and special vehicles.

Estimations for the vehicle-km (or performance) not covered by the survey:
Vans, whose maximum permissible laden weight is 3.5 tonnes or less, had 5.217 million vehicle kilometres in 2008 (see 2010 EU-GRANTS project ‘Estimating vehicle kilometres with odometer readings, Eurostat No 30402.2009.004–2009.401, Table 17.).

Time unit:
3 days for non-members of SKAL-S, 4 days for members of SKAL-S. These days make a period of one week. Every other week starts with 3 days and every other week starts with 4 days.

Time unit of quarter 1 of 2022 included in the survey:
12 weeks (out of possible 12 weeks and 6 days), i.e., all

Stratification:
The population frame consists of lorries registered in Finland. The sample is drawn from this frame. The sample is spread evenly over all days of the week and the sample is self-weighting with respect to seasonal effects as well as to the regional coverage of 20 regions.

The sample is stratified by:

- if the holder of the vehicle belongs to SKAL-S (2)
- type of transport (2)
- maximum permissible laden weight (2)
- type of vehicle (3)

All together there are 16 strata:
1) non-member of SKAL-S, own account, MPLW over 3.5 tonnes and up to 6 tonnes, lorry
2) non-member of SKAL-S, own account, MPLW over 6 tonnes, lorry
3) non-member of SKAL-S, own account, MPLW over 6 tonnes, articulated vehicle
4) non-member of SKAL-S, own account, MPLW over 6 tonnes, road train
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5) non-member of SKAL-S, hire or reward, MPLW over 3.5 tonnes and up to 6 tonnes, lorry
6) non-member of SKAL-S, hire or reward, MPLW over 6 tonnes, lorry
7) non-member of SKAL-S, hire or reward, MPLW over 6 tonnes, articulated vehicle
8) non-member of SKAL-S, hire or reward, MPLW over 6 tonnes, road train
9) member of SKAL-S, own account, MPLW over 3.5 tonnes and up to 6 tonnes, lorry
10) member of SKAL-S, own account, MPLW over 6 tonnes, lorry
11) member of SKAL-S, own account, MPLW over 6 tonnes, articulated vehicle
12) member of SKAL-S, own account, MPLW over 6 tonnes, road train
13) member of SKAL-S, hire or reward, MPLW over 3.5 tonnes and up to 6 tonnes, lorry
14) member of SKAL-S, hire or reward, MPLW over 6 tonnes, lorry
15) member of SKAL-S, hire or reward, MPLW over 6 tonnes, articulated vehicle
16) member of SKAL-S, hire or reward, MPLW over 6 tonnes, road train

Stratum 1 and 9 are combined and marked as stratum 1 when data are sent to Eurostat.

This is done similarly to strata 2 and 10, to strata 3 and 11 and so on.

**Recording of weight of goods:**

Gross weight of goods is collected, i.e., containers, swap bodies and pallets are excluded.

**Recording of journey data sent to Eurostat:**

Single stop: The commodity class of the goods that has the biggest weight is being used.

Multi stop: multi-stop journeys are coded by consignments (the first place of loading for the goods and the last place of unloading of the goods are being used). The weight of goods is reported when biggest during the journey.

Collection/delivery: if there are more than 4 stops for loading/unloading during the journey, journey is classified as a collection or distribution journey.

The first place of loading of the goods and the last place of unloading is being used.

The weight of goods is reported when the biggest during the journey.

Tonne-kilometres are divided by 2.

**Estimation of maximum permissible laden weight:**

If the maximum permissible laden weight for an articulated vehicle or a road train is not given by the holder, then it is estimated.

In estimation we use a table which has means of weights for different axle combinations of vehicles from an earlier time period.
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Calculation of weighting factors:

Strata 1–8 are exactly the same as strata 9–16 except for one difference: in strata 1–8 the first variable has the value ‘non-member of SKAL-S’ whereas in strata 9–16 it has the value ‘member of SKAL-S’.

When weighing factors are calculated, the first variable is not taken into account.

In other words, stratum 1 and 9 are combined and the weighing factor is calculated to that group, and this is done similarly to strata 2 and 10, to strata 3 and 11 and so on.

\[
\text{Weighting factor } = T * \frac{N}{R}
\]

\(T\) = Time factor
\(N\) = number of all vehicles (in a stratum)
\(R\) = number of respondents (active and non-active in a stratum)

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables: none

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO)
- vehicle empty kilometres (NO)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (YES)
- place of unloading, if any, of the road transport vehicle from another means of transport (YES)
- Degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (NO)

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC

Main figures 2021 2022

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<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>108 657</td>
<td>104 784</td>
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<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
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<td>10 000</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
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<td>2 333</td>
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<td>Number of cases classified as non-respondents</td>
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<td>Number of cases where sample register information was wrong and response could not be used</td>
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<td>482</td>
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<tr>
<td>Number of questionnaires used in analysis</td>
<td>2 562</td>
<td>2 606</td>
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</table>
Sweden

Organisation responsible for the conducting the survey:
Transport Analysis (NSI) and Statisticon (Statistics and Research)

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Vehicle Register (VR), Commercial Traffic Register (CTR), Central register of corporations (FDB) and the vehicle-kilometre database (VKD). These registers are used to construct the sampling frame.

Name of organisation who maintains the register:
Swedish Transport Agency (the registers VR and CTR) and Statistics Sweden (the registers FDB and VKD).

Frequency of update:
- VR, CTR and FDB: daily
- Vehicle-kilometre data (VKD): yearly

Frequency of access to draw the samples:
Once a quarter

Arrangements for accessing the register:
Transport Analysis is the responsible authority for the survey and they have since year 2009 commissioned the company Statisticon AB to produce the survey. Statisticon AB currently has the option for this production until reference year 2020. The VR and CTR is delivered from the Swedish Transport Agency to the producer at specified dates. For quarter Q the register data is received 1.5 months in advance. The specific dates each year are:
- First quarter: November 15 (previous year)
- Second quarter: February 15
- Third quarter: May 15
- Fourth quarter: August 15

The sampling frame is constructed based on the Vehicle Register data where the object is vehicle. In the process various steps are taken, including omitting vehicles not belonging to the target population (e.g., load capacity should be 3.5 tonnes or more). One other step includes merging data from the central register of corporations (FDB) and only keeping those vehicles belonging to formally registered companies. Yet another step includes merging register-based data on driving distance (kilometres travelled) from previous year for each vehicle based on information from the vehicle-kilometre database (VKD).

Information obtained from the register:
Most of the information regarding a vehicle is obtained from the Vehicle Register. Important variables are: vehicle registration number, organisation number of the enterprise/owner of the vehicle, name and address, year of first registration, vehicle in use/not in use, type of transport (hire/reward or own account), number of axles for the vehicle, vehicle body code plus the information is used in the stratification as follows:
- County codes where the vehicle is registered are used to get the NUTS 2-level codes
- Maximum permissible laden weight and the service weight of the vehicle. The difference between
those two concepts gives the vehicle load capacity, which is used in the stratification

- From the Commercial Traffic Register we obtain the number of permits for international traffic for an enterprise. This variable is used to form a stratification variable whether the vehicle has a permit for international traffic or not
- The variable kilometres travelled previous year is also used in the stratification
- Age for the vehicle (used in the stratification)

Procedure for reminders:
First reminder: sent out by post after one week and 3 days after the due date.
Second reminder: sent by post after another week.
Third reminder: performed by telephone after another week. The telephone reminder process continues for two weeks.

A normal figure for the response rate is around 60 percent. Considering the potential effect the non-response might have on the estimates, we judge the response rate to be satisfactory for the purpose of the survey.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Vehicles with load capacity under 3.5 tonnes are excluded.
Vehicles that are not operating.
Vehicles 30 years and older.
Some body type codes for which transport of goods is not possible, such as ambulances, hearses, breakdown lorries, fire engines (military vehicles are not included in the Vehicle Register).
Vehicles owned by companies that are not registered in the central register of corporations.

Time unit:
One week

Time unit of quarter 1 of 2022 included in the survey:
All (13 weeks)

Stratification:
The lorries in the sampling frame are stratified in 52 strata. The stratification is done with respect to several variables. The first variable is whether the lorry owner has a permit for international traffic or not. If the owner (i.e., the company) has a permit for international traffic the lorry or the lorries are categorized to international stratum, otherwise to national stratum. There are 35 national and 17 international strata. The next stratification variable is where the lorry is registered. The eight NUTS2-regions in Sweden categorized into 5 geographic areas according to the following:

1. SE11 and SE12
2. SE21 (without the island Gotland) and SE23
3. SE22
4. SE31, SE32 and SE33
5. Gotland
Due to special circumstances regarding the island Gotland, it is kept as a region of its own.

For the 35 national strata the stratification is done according to the following principles:

- The lorries are geographically divided according to the geographic regions above.
- In every geographic region, except Gotland, the lorries are divided into two groups according to their age; lorries 0–5 years old and lorries older than 5 years old.
- Within each age group the lorries are divided into six subgroups according to total kilometres travelled per year (register variable) and load capacity (register variable) according to:
  - Lorries with load capacity up to 13 tonnes (regardless of yearly distance travelled).
  - Lorries with yearly distance travelled 100 000 km or less and load capacity 13 - 16 tonnes.
  - Lorries with yearly distance travelled 100 000 km or less and load capacity over 13 tonnes.
  - Lorries with yearly distance travelled more than 100 000 km and load capacity over 13 tonnes.
- Lorries registered in Gotland are divided into two groups according to load capacity; 13 tonnes or less and over 13 tonnes.

For the 17 international strata the stratification is done according to the following principles. In a first step road tractors that fulfill the following criteria are placed in a separate stratum (200000):

- Lorry owned by company with 16 or more permits for international traffic.
- The lorry is younger than 11 years old.
- The lorry is registered in NUTS2 region SE11 or SE12 or the counties Blekinge or Västra Götaland and has a yearly total distance travelled over 100 000 km and a load capacity over 10 tonnes.
- The lorry is registered in the county Skåne or Halland and has a load capacity over 10 tonnes.

In a second step the additional 16 strata are created by dividing the lorries into four geographic regions according to:

- NUTS2 region SE11, SE12 and SE21.
- NUTS2 region SE22.
- NUTS2 region SE23.
- NUTS2 region SE31, SE32 and SE33.

For each geographic region, road tractors are divided into a separate stratum regardless of yearly distance travelled or load capacity. The remaining lorries are divided into three strata according to yearly distance travelled and load capacity according to:

- Lorries with yearly distance travelled 100 000 km or less and load capacity 10 tonnes or less.
- Lorries with yearly distance travelled 100 000 km or less and load capacity 10 tonnes or more.
- Lorries with yearly distance travelled more than 100 000 km.
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The 35 national strata:

<table>
<thead>
<tr>
<th>Nr</th>
<th>Stratum code</th>
<th>Geographic division</th>
<th>Age</th>
<th>Yearly distance travelled (km)</th>
<th>Load capacity (Kg)</th>
</tr>
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<tbody>
<tr>
<td>1</td>
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Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

The 17 international strata:

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<tr>
<th>Nr</th>
<th>Stratum code</th>
<th>Geographic division</th>
<th>Type of lorry</th>
<th>Yearly distance travelled (km)</th>
<th>Load capacity (Kg)</th>
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</table>

Recording of weight of goods:

Gross weight of goods is collected (i.e., not gross-gross weight), which means that containers, swap bodies and pallets are excluded. However, for journeys with no goods but a container, the information to the respondents is to register the weight of the container and use NST-code 16.

Recording of journey data sent to Eurostat:

Single stop: the respondent is allowed to record the main type of goods if there are several types of goods. Otherwise, the respondent will record mixed goods for such a journey.

Multi stop: multi-stop journeys are coded by consignments. The respondent records each basic transport operation in the questionnaire. These records are then recalculated to journey level by the producer. The method used can be described as follows:

- The tonne-kilometres per consignment (each basic transport operation) is calculated by multiplying tonnes with travelled distance (km).
- The tonne-kilometres for each consignment are added to a total tonnes-kilometres for the journey.
- The kilometres driven for the journey is registered by identifying the distance between loading
point and unloading point (normally not the same as adding the km driven for each basic operation).

Then the tonnes for the journey is calculated according to:

\[ \frac{A}{B} = C \]

- **A** = Tonne-kilometres for each basic transport operation is calculated and summed up
- **B** = Kilometres driven on the journey
- **C** = Average tonnes for the journey

Tonne-kilometres will be the same regardless of which file, A2 or A3, that is used for their calculation. The exact figures in kilos are used in the calculations.

The type of goods for the total journey is calculated as the main type of goods (in respect of kilos).

Regarding journey type 2 (multi-stop-journeys), we use the principle that if a trailer was used for the first consignment of the journey a trailer was used for the entire journey.

Collection/delivery: In the Swedish survey we allow the respondents to decide if the journey can be seen upon as a collection (c) or distribution (d) round or a combined collection/distribution round (c/d). If the journey consists of five or more stops the respondent is allowed to give information on the journey as a whole. The respondent is asked to indicate the c/d-round with a “D” for distribution or “U” for collection (the U refers to the Swedish wording) or “DU” for combined distribution/collection rounds in the questionnaire. The respondent is also asked to register the number of stops (or approximate number if there are hundreds of stops). If the journey is considered as a c, d or c/d-round the respondent is asked to indicate the total weight for the round as a whole, the total kilometres driven during the round and the main commodity group.

The tonne-kilometres driven during the round and the main commodity group. In the instructions to our respondents, it is stated that the round is considered to start at the first loading point and finished at the last unloading point. This means that the possible empty leg must be recorded as a separate journey before and/or after the round. The information from the Swedish survey in the A2 file and the A3 file is the same regarding type 3 journeys. The tonne-kilometres are calculated according to the principles in the manual vol 1 2016 in section 6.5. More specifically, for delivery rounds (only) the type 1-principle is used. For collection rounds (only) the type 2-principle is used. For combined delivery and collection rounds the type 5-principle is used.

Special notes on some variables: The respondents are asked to fill in the UN-number instead of the ADR-number for hazardous goods. The UN-number is then converted into ADR-number.

Other variables: Regarding trailers we allow the respondent to record the most common trailer or combination of trailers used during the week for measurement.

**Calculation of weighting factors:**

The weighting factor is based on the methodology called straight expansion within strata. However, since 2014 the weighting factor is multiplied with an inflation factor that accounts for false reporting of no activity. False reporting means that for a certain vehicle the reply is that no activity was performed during the measurement week, when in fact activity was performed, i.e., a false reply. Inflating the weighting factors leads to a raise in the estimates with about 30 percent. These higher levels are better estimates of the true levels of the parameters, e.g., total km driven. The weighting factor is given by:

\[ \text{Weighting factor} = 13 \times \frac{N_h}{m_h} \times w_g \]

- **h** = is the index for stratum, \( h = 1,2,...,H \) (and \( H = 52 \))
- **N_h** = the number of vehicles in stratum \( h \)
- **m_h** = the number of responding vehicles in stratum \( h \). A vehicle is regarded as responding if it belongs to category B1:5 (vehicles responding with journey data) or B1:6 (vehicles responding without journey)
- **g** = is the index for stratum in the help survey \( g = 1,2,...,G \) (and \( G = 11 \)).
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

\( w_g \) = an inflation factor that accounts for false reporting of no activity

Remark regarding \( N_h \): For a certain quarter the number of vehicles in a stratum is taken from the following quarter. Example: for quarter 1 the numbers of vehicles in a stratum is taken from the frame from quarter 2. The rationale behind this is that the frame for Q2 originates from February 15, i.e. the midpoint of Q1 in time. The number of vehicles at the midpoint of Q1 is a better source for the population size than the number of vehicles in the frame for Q1 which is originated from November 15 the previous year. This method agrees with the suggested method in the reference manual vol 1 2016 chapter 7.2.2

Remark regarding \( w_g \): A parallel help survey called the No Activity Survey (NAS) is performed together with the ordinary Road Freight Survey (RFS). The target populations are the same and the same frame is used in both surveys. The sample size in the NAS is 500 vehicles each quarter and in the Road Freight Survey (RFS) about 3,000 each quarter. The stratification in the NAS is based on company characteristics rather than vehicle characteristics which are used in the RFS. If a vehicle is selected in the RFS it is non-eligible in the NAS for one year. The reason for the NAS is that there are (strong) indications that the amount of no activity is too large in the RFS Survey. If a vehicle falsely reports no activity, when in fact journeys were performed, the estimates of, e.g., total km driven will be underestimated. In the NAS performed by telephone, only one question is posed: “Did you use the vehicle for goods transportation last week?”. Since only one question is posed, we believe that an accurate answer is obtained. Based on each survey, NAS and RFS, the proportion of vehicles with activity and no activity can be estimated. The ratio between the two estimates of proportion of vehicles with activity forms an inflation factor \( w_g \). If, for example, the proportion of vehicles with activity in the NAS is 0.85 and 0.70 in the RFS (in a certain stratum), then the inflation factor is \( w_g = 0.85/0.7 = 1.21 \), i.e., a raise of 21 %. Since the sample size in the NAS is fairly small the inflation factors can vary between quarters. A stabilizing procedure is used. For a certain quarter \( Q \) a weighted average of the inflation factors from year \( t \), \( t-1 \) and \( t-2 \) is calculated. One (weighted) inflation factor \( w_g \) is calculated for each stratum \( g \) and is multiplied with the straight expansion weight \( 13 \times (N_h/N_h) \). Since the stratification is different in both surveys the weighting factors will not be constant within a stratum \( h \). Hence no weighting factors can be presented in the supplementary table B1.

Estimation of maximum permissible laden weight:

The variable maximum permissible laden weight regarding the vehicle is register based information. The maximum permissible laden weight for the trailer or semi-trailer is collected through the questionnaire. If no trailer or semi-trailer is used the maximum permissible laden weight registered in the A2 dataset (variable A1.4) is thus only based on register information. If a trailer or semi-trailer is used, the maximum permissible laden weight for the entire vehicle configuration is calculated as the sum of the vehicle and trailer/semi-trailer maximum permissible laden weight.

Additional (optional) variables collected compared to the legal requirements:

Environmental impact-related variables: none.

A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES - register information)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES - register information regarding vehicle, collected information regarding trailer or semi-trailer)
- place of loading, if any, of the road transport vehicle on another means of transport (YES)
- place of unloading, if any, of the road transport vehicle from another means of transport (YES)
- Degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

A3. Goods-related variables:

- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>65 806</td>
<td>66 856</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>11 756</td>
<td>11 741</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>2 443</td>
<td>2 364</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>4 942</td>
<td>5 016</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>398</td>
<td>361</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>3 973</td>
<td>4 000</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Liechtenstein

Organisation responsible for the conducting the survey:
Office of Statistics

(Based on information referring to the first quarter of 2010)

Starting with the reference year 2014, Liechtenstein is exempted from the reporting of road freight data according to Regulation (EU) No 70/2012.

Sampling register used for the survey

Name of register:
National vehicle register

Name of organisation who maintains the register:
Motorfahrzeugkontrolle MKF (Office of Motor Vehicles)

Frequency of update:
Once a quarter

Frequency of access to draw the samples:
Once a quarter

Arrangements for accessing the register:
There is a direct access to the database of the national vehicle register and to the business register for NACE codes.

Information obtained from the register:
Vehicle registration mark; ID of operator of vehicle; Name of operator of vehicle; Address of operator of vehicle; NACE-Code of operator; Type of vehicle (lorry, road tractor, trailer); Type of lorry; Brand name of Vehicle; Date of first registration; Number of axles; Maximum permissible weight; Maximum permissible weight of vehicle and trailer; Empty weight of the vehicle; Maximum loading capacity; Chassis number.

Procedure for reminders:
A reminder system is used to chase non-respondents:

- First written reminder to the owner of the vehicle: 2 weeks after the deadline when the questionnaire was due to be returned.
- Second written reminder to the owner of the vehicle: 4 weeks after the deadline when the questionnaire was due to be returned.
- Third reminder to the owner of the vehicle (phone call): 6 weeks after the deadline when the questionnaire was due to be returned.
- Afterwards, every two weeks there is a phone call to the owner of the vehicle.

Sampling methodology

Statistical unit:
Tractive vehicle
Types of units excluded:
Lorries and vans with maximum permissible weight of less than 6 000 kg.
Due to the EEA treaty, all vehicles operating only in Liechtenstein and Switzerland are not recorded.

Time unit:
1 week

Time unit of quarter 1 of 2010 included in the survey:
6 weeks

Stratification:
The population is stratified in two separate classes of vehicles.
Strata 1: Road tractors and lorry with or without trailer
Strata 2: All other vehicles

Recording of weight of goods:
Gross weight of goods is collected, i.e., containers, swap bodies and pallets are excluded.

Recording of journey data sent to Eurostat:
Single stop: transport operators are required to fill in as many lines of the questionnaire as different commodity groups are transported.
Multi stop: multi-stop journeys are coded by consignments. Up to 5 stops are recorded and transport operators are required to fill in as many lines of the questionnaire as different commodity groups are transported.
Collection/delivery: Transport operators fill in only one line for a pick-up or a distribution round mentioning the first and the last place of loading/unloading and the number of loading/unloading operations.

Estimation of maximum permissible laden weight:
The maximum permissible laden weight is calculated from the maximum loading capacity of the trailer, the maximum loading capacity of the lorry, and the maximum permissible weight of lorry and trailer.

Calculation of weighting factors:
Weighting factor = \(13 \times \frac{N}{S + S'}\)

N = number of vehicles in the register (in a stratum)
S = number of questionnaires used in analysis (in A1 dataset)
S' = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

Additional (optional) variables collected compared to the legal requirements:

Environmental impact related variables:
Type of fuel used.
- A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)
A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>265</td>
<td>258</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>321</td>
<td>314</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>255</td>
<td>239</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Norway

Organisation responsible for the conducting the survey:
Statistics Norway
(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
The Norwegian Public Roads Administration’s motor vehicle register

Name of organisation who maintains the register:
The Norwegian Public Roads Administration

Frequency of update:
Daily

Frequency of access to draw the samples:
Once a quarter

Arrangements for accessing the register:
Through the Statistics Act § 2-2, 2-3 we are authorized to get copies of the register. The data are forwarded from the Directorate of Roads to Statistics Norway at specified dates of deliveries. The dates are approximately the same for each survey year. The early dates of access for each quarter are stipulated in order to make up the sampling frame, draw a sample, giving a label to the web questionnaires and sending out the forms in due time before the survey period.

Information obtained from the register:
Vehicle Register records most of the information registered on a specific vehicle, about 50 variables. In addition, information about the owner of the vehicle and about the registration of the vehicle is collected.

Used in stratification: Estimated yearly driving distance by PVI and vehicle classification according to The Register of Vehicles.

Procedure for reminders:
First reminder: one week after the due date, a reminder is sent to all those who have not responded. The letter has information about the consequences of not responding and gives a new due date one week later to avoid the compulsory fine.
Second reminder: three-four weeks after the deadline on the last letter, those who have still not responded are reported to the Norwegian National Collection Agency that fines them.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Vehicles used for training purposes (owned by driving schools) and other kinds of driving Vehicles not considered to be freight transport such as roadwork, snow clearing, relocation of circus- or
fairground carriages etc are excluded.
Vehicles more than 30 years old, vehicles with a carrying capacity of less than 3.5 tonnes, and
vehicles with a total weight of 35 tonnes or more.

**Time unit:**
One week

**Time unit of quarter 1 of 2022 included in the survey:**
13 weeks

**Stratification:**
Stratified sampling is used.
The sampling plan was reorganised in the 3rd quarter of 2015, mainly because the Norwegian Public
Roads Administration’s register of community licences was discontinued. This had been an important
source for identifying vehicles that were assumed to be used abroad. Furthermore, there had long
been a desire to reduce the reporting burden on big companies with large fleets of vehicles. At the
same time, mileage data obtained from vehicle controls (PKK-data) was improved and used to
establish the new sampling plan. This data from meter readings is updated quarterly for the lorries in
the target group.

In December 2017, a minor adjustment was made to the sample design, with a view to extracting
more vehicles used for international transport.

The sample is selected in two steps:
Step 1: Sample of companies engaged in road haulage.
Step 2: Sample of lorries within the selected companies.
The lorries are distributed into 12 categories, based on annual mileage (3 groups) and vehicle class
derived from the vehicle group (4 classes).
Approximately 1 900 lorries belong to companies engaged in freight transport are selected every
quarter to participate in the survey.

**Recording of weight of goods:**
Gross weight of goods is collected; containers and swap bodies are excluded, but pallets might be
included.

**Recording of journey data sent to Eurostat:**
Single stop: in case more than one type of commodity is transported, the respondent is allowed to
record it as mixed goods.
Multi stop: multi-stop journeys consist of several consignments.
Collection/delivery: Respondents are allowed to decide if the journey can be regarded as a collection
and/or distribution round (c/d).
If the journey consists of five or more stops the respondent is allowed to give information on the
journey as a whole.
If the journey is considered as a c/d-round the respondent is asked to indicate the average weight for
the c/d as a whole, the total kilometres driven during the c/d and the main commodity group.
Statistics Norway does not calculate the number of collection stops.
In the instructions to our respondents, it is stated that the c/d-round is considered to start at the first
loading point and finished at the last unloading point. The respondents are asked to add an unladen
journey before or after the first or last c/d-round.
Estimation of maximum permissible laden weight:
The maximum permissible laden weight is estimated by computing the average of maximum permissible laden weight values for lorries having the same vehicle classification.

Calculation of weighting factors:
Weighting of the sample takes place in six steps. In the first step, sample weights are calculated based on the ratio of the number of vehicles in the population and the number of vehicles selected in each vehicle category. In the second step, these weights are adjusted using known population totals in different subpopulations derived from an updated vehicle population. In the third step, the calibration weights of the vehicles that were driven in the survey week are weighted according to a set of factors, based on a sample-based calibration model. This step is performed in order to compensate for the lack of information from vehicles that participated in the survey but were not driven during the reporting period. In the fourth step, a further adjustment is made to ensure consistency between the estimates of the tonnage carried from the international part of the lorry survey and quarterly figures from the external trade statistics on imports and exports. This adjustment is made for vehicles that transported goods internationally in the reporting week. In step five, the sample weights for vehicles that only transport goods domestically are further adjusted to ensure consistency between the sample estimates for these vehicles and the associated population totals. In the final step, the sample weights are multiplied by 13 in order to convert the results from a reporting week to a quarter.

Additional (optional) variables collected compared to the legal requirements:
Environmental impact-related variables: none
A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)
A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)
A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)
<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>36 266</td>
<td>35 967</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>7 520</td>
<td>7 449</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>2 151</td>
<td>2 076</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>176</td>
<td>167</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>409</td>
<td>388</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>4 782</td>
<td>4 815</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Switzerland

Organisation responsible for the conducting the survey:
Swiss Federal Statistical Office

(Based on information referring to the first quarter of 2022)

Sampling register used for the survey

Name of register:
Motor Vehicle Register

Name of organisation who maintains the register:
Swiss Federal Roads Office (FEDRO)

Frequency of update:
Once a week

Frequency of access to draw the samples:
Once a week

Arrangements for accessing the register:
Bilateral agreement between the FSO and the FEDRO in line with the Federal Statistics Act. Weekly extraction of the register at FEDRO via a protected web server.

Information obtained from the register:
Name, address, registration number, number of seats, type of vehicle, type of body (lorries only), brand name and model, load capacity, maximum permissible laden weight, unladen weight, emission class, date of first registration of the vehicle, existence or not of a loading crane, existence or not of a hydraulic lift, existence or not of a cable winch, existence or not of a trailer coupling, tank volume (cistern volume), number of axles (tractive vehicle only), license plate number, existence or not of a particle filter, odometer reading from the last roadworthiness test, date of the last roadworthiness test, CO2 emission, Enterprise Identification Number, type of fuel, energy efficiency category.

Used in stratification: type of vehicle and maximum permissible laden weight.

Data reported by vehicle owners: type of transport (hire or reward / own account), reasons of non-utilisation of the vehicle during the whole survey week (if any), transit countries (if any), type of goods, weight of goods, type of freight (bulk, container, palletised, etc.), type of dangerous goods (if any), postal codes of loading and unloading places, country codes of loading and unloading places (only if abroad), odometer readings at the points of loading and unloading

Procedure for reminders:
First reminder: sent out 2 weeks after the deadline.
Second reminder: sent 3 weeks after the first one.
For both reminders, all material is sent again (questionnaire, letter, instructions).
Sampling methodology

**Statistical unit:**
Ttractive vehicle

**Types of units excluded:**
Light vehicles with a maximum permissible laden weight equal or less than 3 500 kg and special vehicles (e.g., agricultural tractors, fire engines, military vehicles). In 2013, however, a special survey on light goods vehicles was carried out. This survey is planned to be conducted in a ten-year interval.

Light Vehicles with a maximum permissible laden weight equal or less than 3 500 kg (e.g., vans) cover about 60 % of the vehicle-km and about 5 % of the performance (tkm) in road freight transport in Switzerland.

**Time unit:**
One week

**Time unit of quarter 1 of 2022 included in the survey:**
13 weeks

**Stratification:**
The sample is stratified according to the week of survey, the type of vehicle and the maximum permissible laden weight (MPLW). Lorries are divided into 4 strata (351, 352, 353, 354). Road tractors form the 5th stratum (381).

351: MPLW 3 501 - 7 500 kg
352: MPLW 7 501 - 18 000 kg
353: MPLW 18 001 - 26 000 kg
354: MPLW >26 000 kg

This decomposition is applied to each week and the coding sent to Eurostat corresponds to the survey week number followed by the preceding code. For instance, a road tractor with information during the week 22 is in the stratum 22381.

**Recording of weight of goods:**
Gross weight of goods is collected, i.e., containers, swap bodies and pallets are excluded.

**Recording of journey data sent to Eurostat:**
Single stop: all commodity types transported on a vehicle are recorded.
Multi stop: by consignments, i.e., information is collected on the basis of a description of each basic transport operation (with additional details on unladen journeys). The journey data are derived from the data on basic transport operations.
Collection/delivery: The transported goods weight is assumed to increase/decrease steadily between the first and last stop of collection/delivery tonne-km = (0.5 * goods weight * distance of collection/delivery).

**Calculation of weighting factors:**
Weighting factor = \(13 \times \frac{N}{S + S'}\)
N = number of vehicles in the register (in a stratum)
S = number of questionnaires used in analysis (in A1 dataset)
S' = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.)

This initial grossing factor is then adjusted by a raking ratio procedure (calibration method). The
external data sources used for this method are the total number of vehicles by strata for the survey week and the total distance by class of distance travelled weekly by quarter (data extracted from the LSVA tax).

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**

Type of fuel. Data on emission class and average CO2-emissions are available from the register.

**A1. Vehicle-related variables:**

- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO) (Vehicle operator’s NACE category of activity is obtained by matching name and address of the vehicle owner to the business register. For about 15% of the vehicles, no NACE category can be defined due to lacking matches)
- vehicle empty kilometres (YES)

**A2. Journey-related variables:**

- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (NO)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

**A3. Goods-related variables:**

- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>673 720</td>
<td>685 835</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>8 992</td>
<td>8 940</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>971</td>
<td>984</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>3 434</td>
<td>3 383</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>743</td>
<td>732</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>3 844</td>
<td>3 841</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
United Kingdom (national transport)

Organisation responsible for the conducting the survey:
Department for Transport (DfT)

(Based on information referring to the first quarter of 2017)

Sampling register used for the survey

Name of register:
Driver Vehicle Licensing Agency (DVLA) for GB & NI-registered vehicles

Name of organisation who maintains the register:
DVLA

Frequency of update:
Ongoing

Frequency of access to draw the samples:
Quarterly (for both Great Britain and Northern Ireland vehicles)

Arrangements for accessing the register:
A quarterly sample is drawn from DVLA licensing records based on an agreed specification for the proportion of vehicles required in each stratum, which are then divided into the desired weekly sample. The process is the same for both GB & NI vehicles but NI vehicles are administered and sampled separately.

Information obtained from the register:
Name and contact details of the vehicle owner; fuel type; Gross train weight; NUTS1 region of registration; propulsion code; wheel plan code; taxation class; body type code; tipper; year of first registration, unladen weight and articulated or rigid vehicle type.

Information used in stratification: NUTS1 region of registration and gross train weight, articulated or rigid vehicle type.

Procedure for reminders:
First reminder: sent 2.5 weeks after the end of the survey week by email.
Second reminder: sent 5.5 weeks after the end of the survey week by email.
Third reminder: 7.5 weeks after the end of the survey week by phone.
The response rate is adequate.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Vehicles weighing less than 3.5 tonnes maximum permissible laden weight and certain vehicles with invalid body type codes e.g., street cleansing vehicles, ambulances, snow ploughs, etc.
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

**Time unit:**
1 week

**Time unit of quarter 1 of 2017 included in the survey:**
All (13 weeks)

**Stratification:**
The sample is stratified according to vehicle type and traffic area.

1. **Vehicle weight group:**
   - Rigid: 3.5 to 7.5 tonnes, 7.5 to 15 tonnes, 15 to 18 tonnes, 18 to 26 tonnes, over 26 tonnes
   - Articulated: 3.5 to 26 tonnes, 26 to 34 tonnes, 34 to 38 tonnes, 38 to 40 tonnes, over 40 tonnes

2. **Government Office Region (NUTS1)**
   - North East
   - North West
   - Yorkshire & Humberside
   - East Midlands
   - West Midlands
   - East of England
   - London
   - South East
   - South West
   - Wales
   - Scotland
   - Northern Ireland

**Recording of weight of goods:**
Gross-gross weight of goods is collected, i.e., containers, swap bodies and pallets are included.

**Recording journey data sent to Eurostat:**

Single stop: If a vehicle is carrying more than one type of good, when the largest component is at least 75 % of the total consignment weight the largest component determines the type of good carried. Otherwise, the type of good will be recorded as groupage. The weight is the sum of all the consignments for the journey.

Multi stop: Where there are fewer than 4 stops, we collect the details of each leg. We provide records, coded as journey type 1, because our system requires that the journey to consignment relationship is a 1 to 1 relationship.

Collection/delivery: As for a single stop journey, if a vehicle is carrying more than one type of good, when the largest component is at least 75 % of the total consignment weight the largest component determines the type of good carried. Otherwise, the type of good will be recorded as groupage.

For collection journeys, weight=goods collected.
For delivery journeys, weight=goods delivered.

For journeys with both deliveries and collections, but more deliveries, weight=goods delivered.
For journeys with both deliveries and collections, but more collections, weight=goods collected.
For journeys with equal deliveries and collections, weight=goods delivered + goods collected.

Other variables: For Northern Ireland registered vehicles’ activity, the domestic survey methodology
is used for recording international activity.

**Calculation of weighting factors:**

Weighting factor = \( 13 \times \frac{N}{S} \)

\( N \) = Number of vehicles in the register (in a stratum)

\( S \) = Achieved sample count (in a stratum)

Two strata have relatively small sample sizes (artics up to 26 tonnes and artics 38-40 tonnes). To smooth the estimates, these strata have been merged with two others (artics 26-34 tonnes and artics 34-38 tonnes respectively) and the weighting factor calculated as:

\[
w_1 = \frac{N_1}{n_1} \times \frac{(N_1 + N_2)}{(r_1 N_1 + r_2 N_2)}
\]

\( N_1 \) = number of vehicles in the register in stratum 1

\( n_1 \) = number of vehicles sampled in stratum 1

\( r_1 \) = achieved sample count in stratum 1

The achieved sample includes the following returns:

9. Vehicles used during the survey week

10. Vehicles unused during the survey week for the following reasons:

- On holiday
- In for MOT, service or repair
- With no driver
- With no work
- Doing site work
- Scrapped vehicles
- Unlicensed vehicles

The achieved sample excludes the following returns:

- Vehicle sold during the reference week
- Vehicle stolen during the reference week
- Vehicle on multi-hire
- Form not delivered
- Refusal
- Respondent excused (for example when vehicle only used for personal use)

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**

Type of fuel used and fuel consumption. Air pollution emissions caused by road freight is estimated based on the fuel purchased data collected.
A1. Vehicle-related variables:
- possibility of using vehicles for combined transport (NO)
- vehicle operator's NACE Rev. 2 at class level (four-digit level) (NO)
- vehicle empty kilometres (YES)

A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- Degree of loading: situation 'fully loaded' (procedure 2) or 'not fully loaded' (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>407 721</td>
<td>406 266</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>13 940</td>
<td>13 918</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>3 047</td>
<td>2 681</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>2 354</td>
<td>2 518</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>510</td>
<td>553</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>8 029</td>
<td>8 166</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
United Kingdom (international transport)

Organisation responsible for the conducting the survey:
Department for Transport (DfT)

(Based on information referring to the first quarter of 2017)

Sampling register used for the survey

Name of register:
Applications and Decisions’ register

Name of organisation who maintains the register:
Traffic Area Offices

Frequency of update:
Continuous

Frequency of access to draw the samples:
Monthly

Arrangements for accessing the register:
An extract detailing those hauliers issued with a standard international licence is provided electronically to the road freight team each month.

Information obtained from the register:
Address details of firms operating heavy goods vehicles that have been granted a licence to undertake international journeys.
Firms are subsequently asked to provide information about their expected number of international trips; which is used in the stratification of the sample.

Procedure for reminders:
First reminder: sent 2.5 weeks after the end of the survey week by email.
Second reminder: sent 5.5 weeks after the end of the survey week by email.
Third reminder: 7.5 weeks after the end of the survey week by phone.
The response rate is adequate.

Sampling methodology

Statistical unit:
Transport firm

Types of units excluded:
Organisations not holding, or not requiring international licences (e.g., armed forces, emergency services, breakdown recovery vehicles).
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

**Time unit:**
Time periods differ according to size of firm (see stratification below).

**Time unit of quarter 1 of 2017 included in the survey:**
All (13 weeks)

**Stratification:**
The sample is stratified according to the number of international trips expected to be undertaken by a firm:

<table>
<thead>
<tr>
<th>Group</th>
<th>Expected number of international trips a year</th>
<th>Time period for survey</th>
<th>Frequency of survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 001+</td>
<td>1 day</td>
<td>4 weeks</td>
</tr>
<tr>
<td>3</td>
<td>401 – 1 000</td>
<td>3 days</td>
<td>12.5 weeks</td>
</tr>
<tr>
<td>6</td>
<td>101 – 400</td>
<td>1 week</td>
<td>25 weeks</td>
</tr>
<tr>
<td>12</td>
<td>25 – 100</td>
<td>2 weeks</td>
<td>50 weeks</td>
</tr>
<tr>
<td>24</td>
<td>10 – 24</td>
<td>4 weeks</td>
<td>100 weeks</td>
</tr>
</tbody>
</table>

**Recording of weight of goods:**
Gross-gross weight of goods is collected, i.e., containers, swap bodies and pallets are included.

**Recording of journey data sent to Eurostat:**
Multi stop, multi stop, collection/delivery: No simplifying assumptions because the data is collected at commodity level.

**Calculation of weighting factors:**
Weighting factor = P * K
P = design weight for a given firm group
K = population figure for a given route * number of sample trips leaving the UK via that route

**Additional (optional) variables collected compared to the legal requirements:**

**Environmental impact-related variables:**
Type of fuel. Air pollution emissions caused by road freight is estimated based on the fuel purchased data collected via the national survey.

**A1. Vehicle-related variables:**
- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO)
- vehicle empty kilometres (YES)

**A2. Journey-related variables:**
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- Degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

**A3. Goods-related variables:**
- type of freight (Cargo types) as defined in the Regulation (YES)
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>2 814</td>
<td>3 404</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>1 590</td>
<td>2 210</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>1 927</td>
<td>2 599</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:
https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
North Macedonia

Organisation responsible for the conducting the survey:
State Statistical Office

(Based on information referring to the first quarter of 2019)

Sampling register used for the survey

Name of register:
Register of road freight transport survey

Name of organisation who maintains the register:
Ministry of Interior Affairs

Frequency of update:
Quarterly updated

Frequency of access to draw the samples:
Once a year

Arrangements for accessing the register:
The Ministry of Interior Affairs submits the data for registered freight vehicles. After receiving the data of registered vehicles, the IT Department creates a database with the required data and then merges them with the Statistical Business Register and other databases in order to obtain the addresses and other data on vehicle owners and their activity.

Information obtained from the register:
Vehicles registration number, year of first registration, maximum permissible laden weight, number of axes, capacity for loading, address, type of vehicle, name of owners, region in country, purpose of the vehicle.

Procedure for reminders:
First reminder by written letter and second reminder one week later by phone or by written letter.

Sampling methodology

Statistical unit:
Tractive vehicle

Types of units excluded:
Agricultural vehicles; military vehicles; vehicles older than 30 years; vehicles with maximum permissible laden weight less than 3.5 tonnes

Time unit:
1 week

Time unit of quarter 1 of 2019 included in the survey:
13 weeks
Stratification:

The sample for each stratum was chosen by a systematic random method. The systematic selection made it combination of the types of the vehicles, of allowed load capacity and information whether the owner of the vehicle is natural or legal person. All vehicles are classified under the category of allowed load capacity to 5 load categories:

1. 3 500 – 4 999 kg of load capacity
2. 5 000 – 6 999 kg of load capacity
3. 7 000 – 9 999 kg of load capacity
4. 10 000 – 14 999 kg of load capacity
5. 15 000 kg and over of load capacity

The selection of sample units is proportional within each stratum.

Additional variables collected compared to the legal requirements:

Environmental impact related variables:

Type of fuel used and fuel consumption.

A1. Vehicle-related variables:

- possibility of using vehicles for combined transport (NO)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (NO)
- vehicle empty kilometres (NO)

A2. Journey-related variables:

- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (NO)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- Degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (NO)

A3. Goods-related variables:

- type of freight (Cargo types) as defined in the Regulation (NO)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td>:</td>
<td>:</td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td>:</td>
<td>:</td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td>:</td>
<td>:</td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td>:</td>
<td>:</td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td>:</td>
<td>:</td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td>:</td>
<td>:</td>
</tr>
</tbody>
</table>

More information in Country and table specific notes:

https://circabc.europa.eu/ui/group/0c7a12bf-2645-4509-9339-a266f3e1e44d/library/09be2be6-defd-4cb4-818c-134ded0107ca?p=1&n=10&sort=modified_DESC
Montenegro

Organisation responsible for the conducting the survey:
Statistical Office of Montenegro (MONSTAT)
*(Based on information referring to the fourth quarter of 2019)*

Sampling register used for the survey

**Name of register:**
Database of registered road motor vehicles

**Name of organisation who maintains the register:**
Ministry of Interior

**Frequency of update:**
Quarterly

**Frequency of access to draw the samples:**
Once a year

**Arrangements for accessing the register:**
Agreement between the Statistical Office of Montenegro – MONSTAT and the Ministry of the Interior for providing statistical information for survey road freight traffic. After receiving the data on registered vehicles, it creates a database with necessary data.

**Information obtained from the register:**
Registration number, date of registration, name and address of owner of vehicle, mark of vehicle, type of vehicle and model vehicle, maximum permissible weight, weight of empty vehicle, number of axles, fuel type, year of production.

**Procedure for reminders:**
Interviewers visit the reporting unit before the reference week and deliver them a flyer with a brief description of survey informing them that they are in a survey sample. Seven days after the end of reference week, the interviewer visits the reporting unit for collecting the data.

Sampling methodology

**Statistical unit:**
Tractive vehicle

**Types of units excluded:**
Agricultural vehicles; military vehicles; vehicles older than 30 years; vehicles with maximum permissible laden weight less than 3.5 tonnes.

**Time unit:**
One week

**Time unit of quarter 4 of 2019 included in the survey:**
13 weeks
Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries

Stratification:

The survey of road freight transport is done on the basis of a stratified sample. The stratum is a combination of the types of the vehicles, of allowed load capacity and information whether the owner of the vehicle is natural or legal person. It was done by using the optimal allocation of variables allowed load capacity. All vehicles are classified under the category of "allowed load capacity" to 6 load categories:

Class 1: vehicles up to 4,999 kg;
Class 2: vehicles from 5,000 kg to 9,999 kg;
Class 3: vehicles from 10,000 kg to 11,999 kg;
Class 4: vehicles from 12,000 kg to 14,999 kg;
Class 5: vehicles of 15,000 kg to 19,999 kg;
Class 6: vehicles from 20,000 kg.

Recording of weight of goods:

Gross weight of goods is collected, i.e., containers, swap bodies and pallets are excluded.

Recording of journey data sent to Eurostat:

Single stop: In case of carrying more than one type of goods, respondents can record only the type of good with the largest weight.

Multi stop: recorded by vertical stages.

Collection/delivery: In case of carrying more than one type of goods, respondents can record only the type of good with the largest weight. Collection/delivery journeys are recorded only for national transport.

Calculation of weighting factors:

Weighting factor = \( \frac{N}{S+S'} \)

\( N \) = number of vehicles in the register (in a stratum).
\( S \) = number of questionnaires used in analysis.
\( S' \) = number of vehicles for which no activity was recorded, but vehicles could be considered as active (holiday, no work, etc.), scrapped, final or temporarily out of operation, not performing transport activity anymore.

Additional (optional) variables collected compared to the legal requirements:

Environmental impact related variables: none.

A1. Vehicle-related variables:

- possibility of using vehicles for combined transport (YES)
- vehicle operator’s NACE Rev. 2 at class level (four-digit level) (YES)
- vehicle empty kilometres (YES)
### A2. Journey-related variables:
- axle configuration according to the nomenclature defined in the Regulation on road transport statistics (YES)
- place of loading, if any, of the road transport vehicle on another means of transport (NO)
- place of unloading, if any, of the road transport vehicle from another means of transport (NO)
- Degree of loading: situation ‘fully loaded’ (procedure 2) or ‘not fully loaded’ (procedure 1) of the goods road transport vehicle during the journey in question, in terms of maximum volume of space used during the journey (procedure 0 = by convention for unladen journeys) (YES)

### A3. Goods-related variables:
- type of freight (Cargo types) as defined in the Regulation (YES)

<table>
<thead>
<tr>
<th>Main figures</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of relevant goods vehicles in the country</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of vehicles selected for initial sample and questionnaires dispatched to vehicle owners</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of cases where no vehicle activity was recorded during the sampled period but the vehicle could be considered as part of the active stock</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of cases classified as non-respondents</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of cases where sample register information was wrong and response could not be used</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of questionnaires used in analysis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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## Table A – Scope of surveys

<table>
<thead>
<tr>
<th>Country</th>
<th>Sampling base</th>
<th>Other</th>
<th>Agricultural, military and public service vehicles</th>
<th>Vehicles over or below certain limits</th>
<th>Other vehicles not covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>Yes -</td>
<td>Yes</td>
<td>Vehicles &lt; 1 tonnes LC</td>
<td>Vehicles not destined to the transport of goods</td>
<td></td>
</tr>
<tr>
<td>Bulgaria</td>
<td>Yes -</td>
<td>Yes</td>
<td>Vehicles &lt; 6 tonnes MPLW</td>
<td>Vehicles with dimensions exceeding permitted limits of the country. Vehicles not destined to the transport of goods.</td>
<td></td>
</tr>
<tr>
<td>Czechia</td>
<td>Yes -</td>
<td>Yes</td>
<td>Vehicles &lt; 2 tonnes LC</td>
<td>Vehicles with oversized load</td>
<td></td>
</tr>
<tr>
<td>Denmark</td>
<td>Yes -</td>
<td>-</td>
<td>Vehicles &lt; 6 tonnes MPLW</td>
<td>Personally owned vehicles</td>
<td></td>
</tr>
<tr>
<td>Germany</td>
<td>Yes -</td>
<td>Yes</td>
<td>Lorries ≤ 3.5 tonnes LC or ≤ 6 tonnes MPLW if LC not present Vehicles &gt; 30 years</td>
<td>Vehicles not destined to the transport of goods (special purpose lorries, mobile cranes)</td>
<td></td>
</tr>
<tr>
<td>Estonia</td>
<td>Yes -</td>
<td>Yes</td>
<td>Lorries &lt; 3.5 tonnes LC and Vehicles &gt; 25 years</td>
<td>Special purpose vehicles</td>
<td></td>
</tr>
<tr>
<td>Ireland</td>
<td>Yes -</td>
<td>-</td>
<td>Vehicles &lt; 2 tonnes unladen weight</td>
<td>Vehicles not destined to the transport of goods. Vehicles taxed as non-commercial vehicles</td>
<td></td>
</tr>
<tr>
<td>Greece</td>
<td>Yes -</td>
<td>Yes</td>
<td>Vehicles &lt; 3.5 tonnes LC and Vehicles &gt; 25 years</td>
<td>Special vehicles with very high weight capacity or dimensions which need a special registration number. Vehicles not destined to the transport of goods</td>
<td></td>
</tr>
<tr>
<td>Spain</td>
<td>Yes -</td>
<td>Yes</td>
<td>Vehicles &lt; 3.5 tonnes LC and Vehicles &gt; 25 years</td>
<td>Special vehicles with very high weight capacity or dimensions which need a special registration number. Vehicles not destined to the transport of goods</td>
<td></td>
</tr>
</tbody>
</table>

(*) Ministry of Transport or other national organisations.
### Table A – Scope of surveys (continuation)

<table>
<thead>
<tr>
<th>Country</th>
<th>Sampling base</th>
<th>Vehicle types not covered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Register of tractive vehicles maintained by the NSI or national organisations (¹)</td>
<td>Lorries &gt; 32.5 tonnes LC Tractors &gt; 44.5 tonnes LC Vehicles &lt; 3.5 tonnes MPLW Vehicles &gt; 15 years Special purpose vehicles. Vehicles belonging to owners involved in activities such as driving schools, fairgrounds, etc. Vehicles that didn't have a compulsory vehicle check within 15 months before the sample selection date and that were not first registered during those 15 months.</td>
</tr>
<tr>
<td>France</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Croatia</td>
<td>Yes</td>
<td>-</td>
</tr>
<tr>
<td>Italy</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Cyprus</td>
<td>Yes</td>
<td>-</td>
</tr>
<tr>
<td>Latvia</td>
<td>Yes</td>
<td>Register of vehicles</td>
</tr>
<tr>
<td>Lithuania</td>
<td>Yes</td>
<td>Data on road freight vehicles, which passed a roadworthiness</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>Yes</td>
<td>-</td>
</tr>
<tr>
<td>Hungary</td>
<td>Yes</td>
<td>-</td>
</tr>
<tr>
<td>Malta</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Yes</td>
<td>National Business Register Lease Registers from the Tax Authorities</td>
</tr>
<tr>
<td>Austria</td>
<td>Yes</td>
<td>Statistical Business Register (BR)</td>
</tr>
<tr>
<td>Poland</td>
<td>Yes</td>
<td>-</td>
</tr>
</tbody>
</table>

(¹) Ministry of Transport or other national organisations.
### Table A – Scope of surveys (continuation)

<table>
<thead>
<tr>
<th>Country</th>
<th>Sampling base</th>
<th>Vehicle types not covered</th>
<th>Other vehicles not covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portugal</td>
<td>Yes</td>
<td>Yes</td>
<td>Vehicles ≤ 3.5 tonnes MPLW</td>
</tr>
<tr>
<td>Romania</td>
<td>Yes</td>
<td>Yes</td>
<td>Vehicles &lt; 3.5 tonnes LC</td>
</tr>
<tr>
<td>Slovenia</td>
<td>Yes</td>
<td>Yes</td>
<td>Vehicles &lt; 2 tonnes LC</td>
</tr>
<tr>
<td>Slovakia</td>
<td>Yes</td>
<td>Register of operators</td>
<td></td>
</tr>
<tr>
<td>Finland</td>
<td>Yes</td>
<td>National: Vehicle Register</td>
<td>Yes</td>
</tr>
<tr>
<td>Sweden</td>
<td>Yes</td>
<td>Commercial Traffic Register (CTR) Central Register of Corporation (FDB)</td>
<td>Yes</td>
</tr>
<tr>
<td>Liechtenstein</td>
<td>Yes</td>
<td>Office of Motor Vehicles</td>
<td>-</td>
</tr>
<tr>
<td>Norway</td>
<td>Yes</td>
<td>-</td>
<td>Vehicles ≤ 3.5 tonnes LC</td>
</tr>
<tr>
<td>Switzerland</td>
<td>Yes</td>
<td>-</td>
<td>Vehicles ≥ 35 tonnes MPLW</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Yes</td>
<td>National: Driver Vehicle Licensing Agency for GB-registered vehicles and Driver Vehicle Licensing for Northern Ireland registered vehicles International: Application and Decisions’ Register from Traffic Area Offices</td>
<td>Yes</td>
</tr>
<tr>
<td>North Macedonia</td>
<td>Yes</td>
<td>-</td>
<td>Vehicles &lt; 3.5 tonnes MPLW</td>
</tr>
<tr>
<td>Montenegro</td>
<td>Yes</td>
<td>-</td>
<td>Vehicles &lt; 3.5 tonnes MPLW</td>
</tr>
</tbody>
</table>

(*) Ministry of Transport or other national organisations.
Table B – Sampling rate in space (of vehicles, firms), 2022

<table>
<thead>
<tr>
<th>Country</th>
<th>Statistical unit</th>
<th>Number of statistical units in the population</th>
<th>Number of statistical units in the sample</th>
<th>Sampling rate in space (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>Tractive vehicle</td>
<td>103 030</td>
<td>17 080</td>
<td>16.6</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>Tractive vehicle</td>
<td>82 700</td>
<td>16 000</td>
<td>19.3</td>
</tr>
<tr>
<td>Czechia</td>
<td>Tractive vehicle</td>
<td>165 398</td>
<td>17 960</td>
<td>10.9</td>
</tr>
<tr>
<td>Denmark</td>
<td>Tractive vehicle</td>
<td>37 222</td>
<td>8 650</td>
<td>23.2</td>
</tr>
<tr>
<td>Germany</td>
<td>Tractive vehicle</td>
<td>567 247</td>
<td>186 060</td>
<td>32.8</td>
</tr>
<tr>
<td>Estonia</td>
<td>Tractive vehicle</td>
<td>18 140</td>
<td>6 032</td>
<td>33.3</td>
</tr>
<tr>
<td>Ireland</td>
<td>Tractive vehicle</td>
<td>161 309</td>
<td>25 578</td>
<td>15.9</td>
</tr>
<tr>
<td>Greece</td>
<td>Tractive vehicle</td>
<td>89 121</td>
<td>8 256</td>
<td>9.3</td>
</tr>
<tr>
<td>Spain</td>
<td>Tractive vehicle</td>
<td>381 602</td>
<td>56 000</td>
<td>14.7</td>
</tr>
<tr>
<td>France</td>
<td>Tractive vehicle</td>
<td>415 447</td>
<td>60 490</td>
<td>14.6</td>
</tr>
<tr>
<td>Croatia</td>
<td>Tractive vehicle</td>
<td>36 491</td>
<td>10 400</td>
<td>28.5</td>
</tr>
<tr>
<td>Italy</td>
<td>Tractive vehicle</td>
<td>210 231</td>
<td>45 050</td>
<td>21.4</td>
</tr>
<tr>
<td>Cyprus</td>
<td>Tractive vehicle</td>
<td>14 926</td>
<td>3 372</td>
<td>22.6</td>
</tr>
<tr>
<td>Latvia</td>
<td>Tractive vehicle</td>
<td>22 261</td>
<td>6 240</td>
<td>28.0</td>
</tr>
<tr>
<td>Lithuania</td>
<td>Tractive vehicle</td>
<td>64 132</td>
<td>12 911</td>
<td>20.1</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>Tractive vehicle</td>
<td>9 700</td>
<td>8 806</td>
<td>90.8</td>
</tr>
<tr>
<td>Hungary</td>
<td>Tractive vehicle</td>
<td>83 562</td>
<td>48 512</td>
<td>58.1</td>
</tr>
<tr>
<td>Malta</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Tractive vehicle</td>
<td>138 891</td>
<td>39 150</td>
<td>28.2</td>
</tr>
<tr>
<td>Austria</td>
<td>Tractive vehicle, Local unit</td>
<td>68 806</td>
<td>27 260</td>
<td>39.6</td>
</tr>
<tr>
<td>Poland</td>
<td>Tractive vehicle</td>
<td>708 366</td>
<td>50 025</td>
<td>7.1</td>
</tr>
<tr>
<td>Portugal</td>
<td>Tractive vehicle</td>
<td>73 177</td>
<td>17 813</td>
<td>24.3</td>
</tr>
<tr>
<td>Romania</td>
<td>Tractive vehicle</td>
<td>144 253</td>
<td>32 212</td>
<td>22.3</td>
</tr>
<tr>
<td>Slovenia</td>
<td>Tractive vehicle</td>
<td>30 315</td>
<td>8 333</td>
<td>27.5</td>
</tr>
<tr>
<td>Slovakia</td>
<td>Tractive vehicle</td>
<td>164 586</td>
<td>12 055</td>
<td>7.3</td>
</tr>
<tr>
<td>Finland</td>
<td>Tractive vehicle</td>
<td>104 764</td>
<td>10 000</td>
<td>9.5</td>
</tr>
<tr>
<td>Sweden</td>
<td>Tractive vehicle</td>
<td>66 856</td>
<td>11 741</td>
<td>17.6</td>
</tr>
<tr>
<td>Liechtenstein</td>
<td>Tractive vehicle</td>
<td>258</td>
<td>314</td>
<td>121.7</td>
</tr>
<tr>
<td>Norway</td>
<td>Tractive vehicle</td>
<td>35 967</td>
<td>7 449</td>
<td>20.7</td>
</tr>
<tr>
<td>Switzerland</td>
<td>Tractive vehicle</td>
<td>685 635</td>
<td>8 940</td>
<td>1.3</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Tractive vehicle (national)</td>
<td>406 266</td>
<td>13 918</td>
<td>3.4</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Transport firm (international)</td>
<td>3 404</td>
<td>2 210</td>
<td>64.9</td>
</tr>
<tr>
<td>North Macedonia</td>
<td>Tractive vehicle</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Montenegro</td>
<td>Tractive vehicle</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

(*) Some vehicles may be surveyed several times in the same quarter; 2013 data used for number of statistical units in the population and sample.
(²) 2019 data.

The sampling rate in space (%) has been obtained as follows: ‘Number of statistical units in the sample’ divided by ‘Number of statistical units in the population’; the result multiplied by 100.
### Table C – Time-based sampling rate, 2022

<table>
<thead>
<tr>
<th>Country</th>
<th>Time unit</th>
<th>Number of time units in the year</th>
<th>Number of time units represented in the survey in the year</th>
<th>Time-based sampling rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Czechia</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Denmark</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Germany</td>
<td>Half week</td>
<td>104</td>
<td>104</td>
<td>0.96</td>
</tr>
<tr>
<td>Estonia</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Ireland</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Greece</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Spain</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>France</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Croatia</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Italy</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Cyprus</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Latvia</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Lithuania</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>Week</td>
<td>52</td>
<td>28</td>
<td>3.57</td>
</tr>
<tr>
<td>Hungary</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Malta</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Austria</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Poland</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Portugal</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Romania</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Slovenia</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Slovakia</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Finland (¹)</td>
<td>3 or 4 days</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Sweden</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Liechtenstein</td>
<td>Week</td>
<td>52</td>
<td>24</td>
<td>4.17</td>
</tr>
<tr>
<td>Norway</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Switzerland</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>Week (national)</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td></td>
<td>Dependant on the firm size (international)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>North Macedonia</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
<tr>
<td>Montenegro</td>
<td>Week</td>
<td>52</td>
<td>52</td>
<td>1.92</td>
</tr>
</tbody>
</table>

(¹) 3 days for non-members of SKAL-S, 4 days for members of SKAL-S. These days make a period of one week. Every other week starts with 3 days and every other week starts with 4 days.

The time-based sampling rate (%) has been obtained as follows: 100 divided by ‘Number of time units represented in the survey in the year’.
Table D – Global sampling rates in space and in time, 2022

<table>
<thead>
<tr>
<th>Country</th>
<th>Collection unit</th>
<th>Sampling rate in space (%)</th>
<th>Sampling rate in time (%)</th>
<th>Global sampling rate in space and in time (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>Vehicle-week</td>
<td>16.6</td>
<td>1.92</td>
<td>0.32</td>
</tr>
<tr>
<td>Bulgaria</td>
<td>Vehicle-week</td>
<td>19.3</td>
<td>1.92</td>
<td>0.37</td>
</tr>
<tr>
<td>Czechia</td>
<td>Vehicle-week</td>
<td>10.9</td>
<td>1.92</td>
<td>0.21</td>
</tr>
<tr>
<td>Denmark</td>
<td>Vehicle-week</td>
<td>23.2</td>
<td>1.92</td>
<td>0.45</td>
</tr>
<tr>
<td>Germany</td>
<td>Vehicle-half week</td>
<td>32.8</td>
<td>0.96</td>
<td>0.32</td>
</tr>
<tr>
<td>Estonia</td>
<td>Vehicle-week</td>
<td>33.3</td>
<td>1.92</td>
<td>0.64</td>
</tr>
<tr>
<td>Ireland</td>
<td>Vehicle-week</td>
<td>15.9</td>
<td>1.92</td>
<td>0.30</td>
</tr>
<tr>
<td>Greece</td>
<td>Vehicle-week</td>
<td>9.3</td>
<td>1.92</td>
<td>0.18</td>
</tr>
<tr>
<td>Spain</td>
<td>Vehicle-week</td>
<td>14.7</td>
<td>1.92</td>
<td>0.28</td>
</tr>
<tr>
<td>France</td>
<td>Vehicle-week</td>
<td>14.6</td>
<td>1.92</td>
<td>0.28</td>
</tr>
<tr>
<td>Croatia</td>
<td>Vehicle-week</td>
<td>28.5</td>
<td>1.92</td>
<td>0.55</td>
</tr>
<tr>
<td>Italy</td>
<td>Vehicle-week</td>
<td>21.4</td>
<td>1.92</td>
<td>0.41</td>
</tr>
<tr>
<td>Cyprus</td>
<td>Vehicle-week (national)</td>
<td>22.6</td>
<td>1.92</td>
<td>0.43</td>
</tr>
<tr>
<td>Latvia</td>
<td>Vehicle-week</td>
<td>28.0</td>
<td>1.92</td>
<td>0.54</td>
</tr>
<tr>
<td>Lithuania</td>
<td>Vehicle-week</td>
<td>20.1</td>
<td>1.92</td>
<td>0.39</td>
</tr>
<tr>
<td>Luxembourg</td>
<td>Vehicle-week</td>
<td>90.8</td>
<td>3.57</td>
<td>3.24</td>
</tr>
<tr>
<td>Hungary</td>
<td>Vehicle-week</td>
<td>58.1</td>
<td>1.92</td>
<td>1.12</td>
</tr>
<tr>
<td>Malta</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Netherlands</td>
<td>Vehicle-week</td>
<td>28.2</td>
<td>1.92</td>
<td>0.54</td>
</tr>
<tr>
<td>Austria</td>
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<td>39.6</td>
<td>1.92</td>
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<tr>
<td>Poland</td>
<td>Vehicle-week</td>
<td>7.1</td>
<td>1.92</td>
<td>0.14</td>
</tr>
<tr>
<td>Portugal</td>
<td>Vehicle-week</td>
<td>24.3</td>
<td>1.92</td>
<td>0.47</td>
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<td>22.3</td>
<td>1.92</td>
<td>0.43</td>
</tr>
<tr>
<td>Slovenia</td>
<td>Vehicle-week</td>
<td>27.5</td>
<td>1.92</td>
<td>0.53</td>
</tr>
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<td>Slovakia</td>
<td>Vehicle-week</td>
<td>7.3</td>
<td>1.92</td>
<td>0.14</td>
</tr>
<tr>
<td>Finland</td>
<td>Vehicle-week</td>
<td>9.5</td>
<td>1.92</td>
<td>0.18</td>
</tr>
<tr>
<td>Sweden</td>
<td>Vehicle-week</td>
<td>17.6</td>
<td>1.92</td>
<td>0.34</td>
</tr>
<tr>
<td>Liechtenstein (¹)</td>
<td>Vehicle-week</td>
<td>121.7</td>
<td>4.17</td>
<td>5.07</td>
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<td>Norway</td>
<td>Vehicle-week</td>
<td>20.7</td>
<td>1.92</td>
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<td>1.3</td>
<td>1.92</td>
<td>0.03</td>
</tr>
<tr>
<td>United Kingdom (²)</td>
<td>Vehicle-week (national)</td>
<td>3.4</td>
<td>1.92</td>
<td>0.07</td>
</tr>
<tr>
<td>North Macedonia</td>
<td>Vehicle-week</td>
<td>-</td>
<td>1.92</td>
<td>-</td>
</tr>
<tr>
<td>Montenegro</td>
<td>Vehicle-week</td>
<td>-</td>
<td>1.92</td>
<td>-</td>
</tr>
</tbody>
</table>

(¹) 2013 data used for the sampling rate in space.
(²) 2019 data.

The global sampling rate has been obtained by multiplying the sampling rate in space by the sampling rate in time.
Table E – Response rate, 2021-2022

<table>
<thead>
<tr>
<th>Country</th>
<th>Response rate (in %)</th>
<th>2021</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>48.94</td>
<td>45.50</td>
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<td>Bulgaria</td>
<td>62.09</td>
<td>60.61</td>
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</tr>
<tr>
<td>Czechia</td>
<td>88.83</td>
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<td>Denmark</td>
<td>97.59</td>
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<td>Germany</td>
<td>92.56</td>
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<td>Estonia</td>
<td>81.28</td>
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<td>Ireland</td>
<td>42.75</td>
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(¹) Based on 2012-2013 data.
(²) Based on 2018-2019 data.

The response rate (%) is defined as the number of questionnaires dispatched minus those classified as non-response, divided by the number of questionnaires dispatched.
Table F – Register quality rate, 2021-2022

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(¹) Based on 2012-2013 data.
(²) Based on 2018-2019 data.

The register quality (in %) is defined as the number of usable questionnaires (i.e., number of questionnaires dispatched minus number of questionnaires classified as non-response minus number of questionnaires where sample register information was wrong) divided by the number of questionnaires dispatched minus those classified as non-response.
Table G – Precision of results in terms of standard error for total transport (on tonnes), 2021-2022

<table>
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<th>Country</th>
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Percentage standard error of estimate (95 % confidence).

See the manual ‘Road freight transport methodology’, i.e., the reference manual for the implementation of Regulation (EU) No 70/2012 on statistics on the carriage of goods by road. Chapters 3 and 7 provide more details on the methodology used for the calculation of the percentage standard error.

Table H – Precision of results in terms of standard error for total transport (on tonne-kilometres), 2021-2022

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Percentage standard error of estimate (95 % confidence).

See the manual ‘Road freight transport methodology’, i.e., the reference manual for the implementation of Regulation (EU) No 70/2012 on statistics on the carriage of goods by road. Chapters 3 and 7 provide more details on the methodology used for the calculation of the percentage standard error.

### Table I – Precision of results in terms of standard error for total transport (on kilometres loaded), 2021-2022

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Percentage standard error of estimate (95 % confidence).

See the manual ‘Road freight transport methodology’, i.e., the reference manual for the implementation of Regulation (EU) No 70/2012 on statistics on the carriage of goods by road. Chapters 3 and 7 provide more details on the methodology used for the calculation of the percentage standard error.

### Table J – Optional variables provided by the reporting countries

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<td>Vehicle empty kilometres</td>
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<tr>
<td>Netherlands</td>
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<tr>
<td>Montenegro</td>
<td>x</td>
<td>x</td>
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</table>

(¹) Austria collects partial data on the place of loading/unloading of the road transport vehicle on/from another mean of transport.
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Methodologies used in road freight transport surveys in Member States, EFTA and 3 Candidate countries

2023 edition

The present document describes the methods used by Member States, candidate and EFTA countries in their surveys on road freight transport statistics. Part I describes national methodologies for data collection. This information is based on the national reference metadata produced by the reporting countries. Data in these national metadata refer to the first quarter of 2022. Part II includes summary tables, with the basic information on sampling, response rate, register quality and precision of results of the surveys. Data on the registers used to draw the sample and the sampling methodology are relevant for the surveys conducted in the first quarter of 2022, while the main characteristics given for each country refer to the years 2021 and 2022, according to data availability. ‘Methodologies used in surveys of road freight transport in Member States, EFTA and Candidate Countries’ is published in English only.

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