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# Travel Survey for Northern Ireland Technical Report

2021



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## About this publication

### TSNI Technical Report 2021

This report contains information about the Travel Survey for Northern Ireland (TSNI) methodology and the survey questionnaire. It also contains information on the 2021 survey response rates and confidence ranges. Results from the 2021 survey are available in the TSNI Headline Report 2021. More detailed 2021 TSNI results will be available in the TSNI In-depth Report 2021, due to be published in Summer 2023.

Please note: Data collection for the TSNI changed in April 2020 in response to the COVID-19 pandemic to ensure the survey could continue to be conducted safely. For details of how the data was collected prior to the pandemic, please see previous technical reports.

### Changes from previous Technical Reports

Sections added to the 2020 Technical Report have been retained and updated to cover 2021. This includes information on the survey methodology from April 2020 (Section 4, page 8), investigations into weighting methodologies (Section 6, page 11) and data analysis and reporting (Section 7, page 12). As 2021 data are unweighted, tables added in 2020 on calculating weights and comparing unweighted and weighted results have been removed.

### Accessibility

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## Symbols and conventions

### Rounding of figures

In tables where figures have been rounded to the nearest final digit, there may be an apparent slight discrepancy between the sum of the constituent items and the total shown.

### Weeks in a year

It is assumed in this report that there are 52.14 weeks in the year.

### Symbols

The following symbols have been used throughout where averages have been calculated:

- .. = not available/insufficient number of cases in sample
- = negligible (less than 0.5 (including 0))

Insufficient number of cases in the sample (..) includes analysis based on less than 50 journeys.

### Conversion factors for miles and kilometres

The following conversion factors may be of use:

1 Mile = 1.609 Kilometres

1 Kilometre = 0.6214 Miles

## Section 1: Introduction

The Travel Survey for Northern Ireland (TSNI) is based on the National Travel Survey as used in Great Britain up to 2012 (NTS coverage changed to England only from 2013). It is the only source of information on how, over Northern Ireland as a whole, people as individuals or family groups use different forms of transport to meet their travel needs.

The main survey in Northern Ireland began as a continuous survey in March 1999 and has been running since then on a monthly basis. The TSNI currently surveys around 160 addresses each month (although 320 addresses were surveyed each month from March to June 2021). The total number of useable households (includes either fully co-operating or partially co-operating households) for 2021 is 785.

The TSNI Headline Report 2021, published in March 2023, is available at the [Travel Survey for Northern Ireland statistics webpage](#).

There will be a further in-depth TSNI report for 2021 containing more detailed results which is planned for publication in Summer 2023. It will be available on the above website when it is published.

This Technical Report explains the methodology used to carry out the Travel Survey for Northern Ireland from January to December 2021.

### Changes from April 2020 due to COVID-19 pandemic

#### Survey methodology (Data collection)

Full details of all the survey methodology changes due to the COVID-19 pandemic are in [Section 4 “Changes to survey methodology from April 2020”](#) (page 8). Some of the key changes are highlighted below:

- Central Survey Unit (CSU) suspended face to face interviewing in March 2020 in response to the COVID-19 pandemic. This was replaced by telephone interviewing from April 2020. With the lifting of some restrictions, CSU implemented the [Knock to Nudge](#) method from July 2021. This allowed the interviewers to call at a sampled address, not entering the property, to collect contact information and arrange a time to complete a telephone interview.
- The full questionnaire was reinstated in 2021 after a reduced number of questions were asked from April to December 2020. Changes made to questions to accommodate telephone interviewing have been maintained.

#### Data analysis and reporting

Changes to the survey methodology have resulted in changes to the data analysis and reporting of the survey which are detailed in [Section 7 “Data analysis”](#) (page 12). Some of the key changes include:

- [Reporting 2020 and 2021 data as a single year](#), rather than the usual three years combined.
- Data in 2020 were weighted for the first time since the survey began. Following investigations, it was decided not to weight 2021 data. Details are available in [Section 6 “Investigations into weighting the data”](#) (page 11).
- It should also be noted that, due to the changes, 2020 and 2021 results can be compared to each other but are not directly comparable to those of previous years and caution should be taken in reaching any conclusions if making these comparisons. However, comparisons should be possible in future years when the survey methodology and other factors are more consistent from year to year.

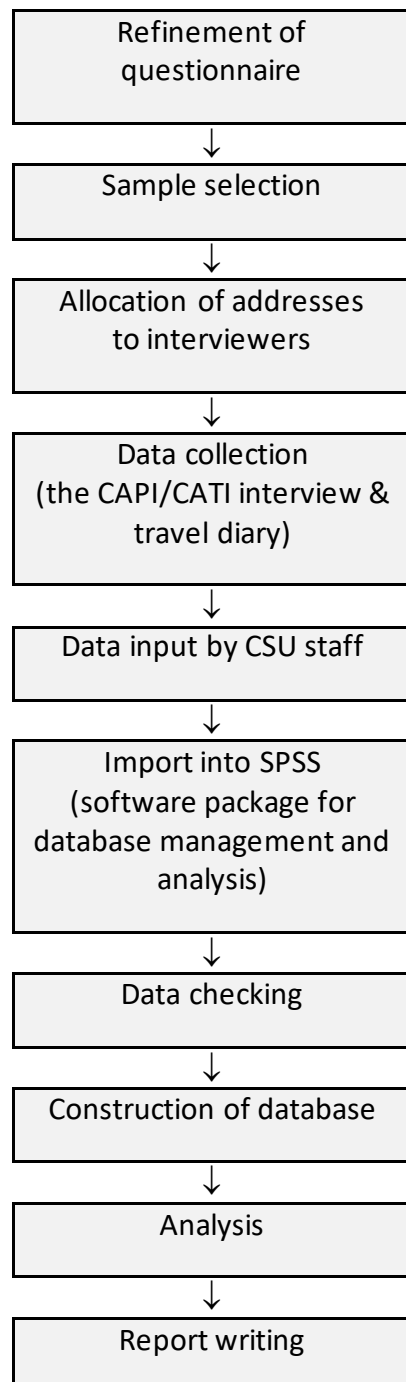
## Section 2: Sequence of work on the Travel Survey for Northern Ireland (TSNI)

The sequence of tasks carried out in the travel survey are summarised below. The survey collects information using two methods: a Computer Aided Telephone Interview (CATI) from April 2020 (it was a Computer Aided Personal Interview (CAPI) prior to April 2020) and a seven-day travel diary.

The CATI questionnaire is reproduced in [Appendix A](#) (page 23). Copies of the travel diary are available from the Northern Ireland Statistics & Research Agency, Central Survey Unit, Colby House, Stranmillis Court, Belfast, BT9 5RR).

Details of the individual procedures are set out in the remainder of this report.

**Figure 2.1: Sequence of work on the TSNI**



## 2.1: Sample selection

The Travel Survey for Northern Ireland is required to provide a comprehensive picture of personal travel behaviour by people living in private households in Northern Ireland. The sample is therefore designed to provide a representative sample of households in Northern Ireland. Each member of each household is asked to provide information about journeys made in a pre-selected seven-day period, known as the Travel Week. As travel behaviour varies considerably depending on the month of the year or the day of the week, interviewing and travel record keeping is spread out evenly over the year.

The sample for the Travel Survey consists of a systematic random sample of addresses selected from the NISRA Address Register (NAR). The NISRA Address Register is maintained by NISRA's Census Branch and is created by merging the POINTER database (the address database for Northern Ireland maintained by Land & Property Services) with additional records, and removing duplicates and communal establishments. Each address within the NAR is given an Address score ranging from 0 to 10 by NISRA which is based on information gleaned from other address based datasets and/or administrative sources. A score of 10 indicates the highest likelihood of the property being an occupiable domestic address.

During most of 2021, 160 addresses were selected for interview each month for the Travel Survey apart from March to June 2021 when this was temporarily increased to 320 each month.

The NAR provides a good sampling frame of addresses, but contains no information about the number of households living at an address. Further selection stages are therefore required to decide which household to interview.

Interviewers are instructed to call at each address issued in their allocation. If an interviewer comes across an address, which contains more than one household, then a decision must be made as to which household to select to take part in the interview. The interviewer then numbers each individual household and uses Table 2.1 to determine which one of the households to interview:

**Table 2.1: Household selection table**

<b>Number of households</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>Household selected</b>	1	3	2	2	6	4



## 2.2: Allocation of addresses to interviewers

Every month each interviewer is allocated around 8 households to survey.

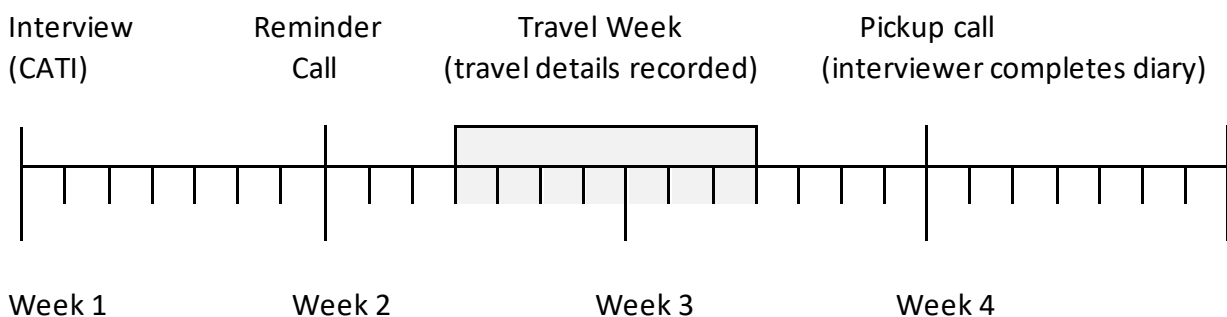
## 2.3: The interview

The information for the survey is collected in the following stages:

- The placement call
- The reminder call (if necessary) (from July 2021)
- The mid-week checking call (if necessary)
- The pick-up call

From April 2020, there were changes to the survey methodology due to the COVID-19 pandemic with the move from face to face interviewing to telephone interviewing. The placement call, mid-week checking call and pick-up call stages were maintained with accommodations made for telephone interviewing. The reminder call (by telephone) was reinstated from July 2021. Full details of the changes are given in [Section 4 “Changes to survey methodology \(from April 2020\)”](#) (page 8).

**Figure 2.2: Possible calls (by telephone) made by an interviewer to household (from July 2021)**



Before the interviewer’s first call, the respondent receives an advance letter and leaflet explaining the purpose of the study. The householder is asked to contact the office to provide telephone contact details if they wish to take part in the survey.

From July 2021, a brief socially distanced doorstep visit may be made by an interviewer to provide more information about the survey. If the household wish to take part, telephone contact details are collected.

The initial interview with the household is termed the **placement call**. At this call the interviewer explains the purpose of the survey, ideally to the entire household, and gains the co-operation of each household member. The interviewer then asks the Household Reference Person or other responsible person questions about the household composition and some general background information. Figure 2.3 (page 6) shows the contents of the placement questionnaire.

The interviewer then asks the other individuals of the household a set of questions with a reduced set for children under 16. Questions are also asked about each household vehicle from the person best able to give that information (usually the main driver). After each individual interview, a **travel diary** is completed. The interviewer explains that the main aim of the diary is to collect information about travel habits over a

seven-day period. Interviewers explain in detail how to record journeys made during their allocated travel week and talk the informants through some examples, explaining what to include and what not to include. They also describe the survey definitions, for example, usual place of work, in course of work, etc. From April 2020 onwards, with the move to telephone interviewing, the interviewer completed the travel diary on behalf of the respondent.

From July 2021, the interviewer may have made a **reminder call** (by telephone) to the household to remind them when the travel week was due to begin.

Sometimes the interviewer also makes an additional **mid-week checking call** on a household, part way through the travel week to help with problems and encourage accurate record keeping. This call is made at the interviewer's discretion, for example if the respondents are elderly or the household is particularly large and the interviewer was unable to get all members of the household together to explain the purpose of the study. The interviewer may also use this call to collect journey information for the travel week to date.

The interviewer makes the **pick-up call** within six days after the end of the travel week. From April 2020, the interviewer makes a phone call to obtain the rest of the journey information for the travel week (some information may have already been collected during the placement call and optional mid-week checking call). The interviewer then fills out a travel diary on behalf of each respondent. The interviewer also asks some additional questions to check whether the respondent has obtained a driving licence or any special tickets since the placement interview.

### **Selection of the travel week**

From April 2020 to June 2021, to accommodate the move to telephone interviewing and interviewer completion of the travel diary, the travel week started on the date of the interview. This allowed the interviewer to record some of the first day of the travel diary during the initial interview.

From July 2021 when [Knock to Nudge](#) commenced (details given on page 8), selecting the travel week start date returned to the pre-pandemic method. Each address is given a random start date for the travel week to ensure that travel start days are spread evenly across days of the week and weeks of the year. This also avoids any bias that may occur if respondents are allowed to pick their own travel week.

**Figure 2.3: Information collected**

Survey section	Information collected
Household Section (In CATI Interview)	Household information, including sex, age, marital status, ethnic group Tenure, accommodation type Availability of public transport Bicycle ownership Number of household vehicles, Number of car/vans
Individual Section (In CATI Interview)	Disability section Public transport (including Park & Ride) Driving licence holding Employment, Occupation and Industry Place of work and travel to work Types of public transport tickets held Smartpass ownership Transport Difficulties when travelling to work Transport Difficulties when travelling to do main food shop Cycling Walking Road accidents Religion (Sexual Identity - not asked in 2021 to maintain privacy) Dependants
Vehicle Section (In CATI Interview)	Type of vehicle Fuel type Year of registration Engine size Vehicle mileage Whether used for school / work / in the course of work journeys Parking details for vehicles used to take someone in household to work
Travel diary (Filled in by interviewer on behalf of respondent)	Details of all journeys taken over the travel week: Purpose of journey Time left and arrived Method of travel Distance travelled Travelling time For car, motorcycle, van or lorry journeys: Whether driver or passenger Number in vehicle Where parked and whether free or paid for

## Section 3: Fieldwork control

Interviewers working on the survey carry out a 3G data transfer process to send their computer work to the office every week with details of interviews carried out that week. Diaries are also returned to the office by post after each pick up call.

The 3G data transfer system enables interviewers to send their weekly data in to our server and also to receive their next allocation.

A member of staff in Central Survey Unit paper codes the travel diaries and then, to ensure consistency, a different staff member checks the coding and transfers the information from the diary to the computerised Journey Input System.

### 3.1: The journey input system

The information from the travel diary is input into the Journey Input System using 'Blaise' software for Computer Assisted Interviewing. Hard and soft data checks are written into the journey input system. Quality checks are also made in order to monitor the progress of the interviewers' work and ensure diaries are being filled in correctly.

The data is then merged with the information from the CATI interview and converted into ASCII format. The data is imported into SPSS data files. Further quality checks are then made on the data in the SPSS files.

## Section 4: Changes to survey methodology from April 2020

Due to the COVID-19 pandemic, face-to-face interviewing or CAPI (Computer Assisted Personal Interviewing) was suspended in March 2020. This was replaced by telephone interviewing or CATI (Computer Assisted Telephone Interviewing) from April 2020. To accommodate the move to telephone interviewing, a number of changes needed to be made to the survey methodology (data collection) which are summarised below and includes changes that were made during 2021:

### Participation in the survey (April 2020 to June 2021)

From April 2020 to June 2021, restrictions meant interviewers could no longer call to sampled addresses to try and encourage people to participate in the survey. Instead, there was a reliance on individuals responding to postal invites (advance letters) to take part in the survey by either phoning the office or using a digital form on the Central Survey Unit website to make an expression of interest (EOI). Anyone who expressed an interest in taking part in the survey would then be contacted by an interviewer.

### Knock to Nudge method (from July 2021)

With the lifting of some restrictions, from the start of July 2021, Central Survey Unit (CSU) implemented the knock to nudge method. This meant that interviewers could once again call at sampled address to encourage people to participate in the survey while adhering to the COVID health and safety advice/restrictions (social distancing/PPE). Interviewers were not permitted to enter the property, only to collect contact information to complete the survey using CATI (Computer Assisted Telephone Interviewing) at an agreed time.

### Incentive scheme (April 2020 to June 2021)

An incentive scheme was introduced in April 2020. From June 2020, this meant that those households who participated in the survey received a voucher. From March 2021, all respondents to the survey received a voucher. The voucher scheme closed at the end of June 2021 with the introduction of [Knock to Nudge](#) in July 2021.

### Completion of the survey during the pandemic period

To ensure consistency, interviewers asked the respondent to complete the questionnaire considering their normal behaviours and routines apart from the three new working from home questions (added in 2021) which were completed based on their current routine. The travel diary captured current travel habits recording the respondent's journeys taken during the pandemic period.

### Questionnaire – completion by telephone

From April 2020, the interview has been conducted by telephone using CATI.

### Reintroduction of full questionnaire in 2021

To accommodate the move to telephone interviewing, the questionnaire was streamlined for 2020 and some questions were removed (see 2020 TSNi Technical Report for details). In 2021, the full questionnaire was reintroduced including all questions that had been asked pre-pandemic apart from sexual identity (to maintain privacy). Changes have been made to how some questions are asked or presented to allow the interview to be conducted over the telephone.

### Changes to show card questions

Show cards are given to respondents during face to face interviews, giving each of the answer options available for selection. Changing to telephone interviewing meant that show cards could no longer be

used and therefore required the revision of these questions. When a former show card question was adapted for use in a telephone interview, the same set of answer options was retained for consistency. For former show card questions with a long list of answer options, the interviewer asked the question without stating the answer options. They then coded all the responses given spontaneously by the respondent. For former show card questions with a short list of answer options, the interviewer could read out the list of answer options (running prompt). For some of the vehicle questions with a long list of answer options, the interviewer could read out only the relevant options from the full set. The 2021 questionnaire is in [Appendix A](#) (page 23).

### **Travel diary – completion by telephone**

Respondent's travel details were also collected by CATI and entered into the diary by the interviewer over the phone.

### **Responsibility for diary completion**

From April 2020, responsibility for completing the travel diary moved from respondents to interviewers. Interviewers collected the journey information from the respondents during/after the travel week and completed the travel diary on behalf of the respondents.

### **Travel week start date**

The method of selecting the travel week start date varied during 2021. Details are given below and in ["Selection of the travel week"](#) (page 5).

### **Travel week start date moved to date of interview (April 2020 to June 2021)**

From April 2020 to June 2021, to accommodate the move to telephone interviewing and interviewer completion of the travel diary, the travel week started on the date of the interview. This allowed the completion of some of the first day of the travel diary during the initial interview.

### **Return to random start date for the travel week (from July 2021)**

From July 2021, following the introduction of [Knock to Nudge](#), selecting the travel week start date returned to the pre-pandemic method. Each address is given a random start date for the travel week to ensure that travel start days are spread evenly across days of the week and weeks of the year.

## **Section 5: Response**

Households may be classified into the following levels of response:

A *Fully Complete* response has a fully completed computer interview i.e. every individual answering and the vehicle grid filled in for all cars. There is also a completed diary for every individual.

A *Partial* response is where an interview has not been completed for all people but there is a matching individual interview and diary for at least one person in the household.

Only information collected from households classified as fully complete or partial has been included in the calculations.

An *Outright Refusal* is when there is no chance of an interview during the field period.

A *Circumstantial Refusal* is if circumstances prevent the respondent from participating in the survey e.g. they are genuinely too busy.

An *Office Refusal* (or refusal to advance letter) applies when a refusal is received at the Northern Ireland Statistics & Research Agency, Central Survey Unit Headquarters from a recipient of an advance letter.

A *Refusal after promise to co-operate* applies if, for example, an interviewer successfully makes an appointment, then calls back later and finds that the respondent has changed their mind.

A *Non-Contact* is if any of the following apply: respondent would not answer door, respondent rarely there/unconfirmed second residence, shift-worker/works odd hours, respondent away all survey period/on holiday, interviewer could not find address or ran out of field time.

A *Non-eligible* code is for premises which are wholly or partially residential, but in which no one is living. It is applicable for buildings under construction or under conversion if there is no household currently living there. It also applies to holiday accommodation and second residences. Derelict/demolished buildings are also included as are non-residential properties, Institutions and Halls of residences. This code should also be used if there is no trace of the address, or if the household is no longer resident at the address.

Table 5.1 shows the TSNi response rates in 2021.

**Table 5.1: Response rates: 2021**

	Number	% Response Rate (Eligible sample)
Issued addresses*	2,560	
Eligible sample**	2,350	100%
Completes***	785	33%
Refusals	426	18%
Non contacts	1,139	48%

\* From March 2021 until June 2021 the monthly sample size was doubled from 160 to 320 cases per month. Issued addresses for 2021 are therefore 2,560 ((8 \* 160) + (4 \* 320)) instead of the regular 1,920 (12 \* 160).

\*\* As survey interviewers could not call to sampled addresses during January to June 2021 to determine eligibility (and encourage people to participate in the survey) the ineligible sample percentage for July to December 2021 was used for January to June 2021.

\*\*\* Includes Fully Complete and Partial responses

During most of 2021, 160 addresses were selected for interview each month for the Travel Survey. Only during March to June 2021 did this vary when the number of addresses selected was doubled to 320 to try to increase the achieved sample. Following the introduction of [Knock to Nudge](#) in July 2021, the number of addresses selected returned the usual number of 160 per month.

## Section 6: Investigations into weighting the data

### 6.1: Weighting the 2020 data

The 2020 survey included data collected prior to the COVID-19 pandemic and data collected during the pandemic. The achieved sample in the first quarter of 2020 (pre-pandemic) was nearly the same as that for the second, third and fourth quarters combined (during the pandemic). The same number of households were selected each month but the response rate dropped during the pandemic.

If nothing had been done, there would have been a bias in the data towards January to March 2020 results (pre-pandemic). Therefore, to ensure an even spread over the whole year, the 2020 data were weighted by quarter. This is the first time since the survey began that the data have been weighted.

Other weighting options by various demographic factors were considered and thoroughly examined but it was decided to weight the 2020 data by quarter alone. Full details of the work done are available in the 2020 TSNi Technical Report under Section 6 Weighting.

### 6.2: Decision not to weight the 2021 data

As 2020 data had been weighted by quarter, this option was fully investigated for the 2021 data. In addition, other weighting methodologies based on demographic factors were explored. These included weighting by gender, age and various combinations of these. Once the investigations were completed, it was decided not to weight the 2021 data. Some of the reasons for this included:

- The differences in the achieved sample from quarter to quarter were much less pronounced in 2021 compared to 2020. For 2021, 19% of the achieved sample was collected during January to March 2021, 23% in April to June 2021, 24% in July to September 2021 and 33% in October to December 2021. When comparisons were done between analysis weighted by quarter and unweighted analysis, there were found to be no significant differences between the data looking at both the questionnaire responses and the travel diary data.
- There were few significant differences noted between the unweighted and weighted data when investigating the other weighting methodologies.
- Weighting by age and gender for one year may have meant that previous years' databases would need to be weighted similarly for consistency and to ensure comparability. For example, the small number of significant differences comparing unweighted data and data weighted by age may also have been observed in previous years if that data had been weighted by age. When time allows, a wider review of the databases will be considered.



## Section 7: Data analysis

Data analysis is carried out using SPSS and Excel Spreadsheets. The Travel Survey for Northern Ireland data is collected and reported in a similar manner to the National Travel Survey (NTS) data and, as such, is broadly comparable. NTS covers England only from 2013. It covered Great Britain up to 2012.

### 7.1: Changes to data analysis and reporting from 2020

The survey methodology changed in April 2020 in response to COVID-19 pandemic to ensure the data could continue to be collected safely. The changes made are outlined in [Section 4 “Changes to survey methodology from April 2020”](#) (page 8). The key effects this has had on the data analysis and reporting the data are outlined below:

#### Results are not directly comparable with previous years

Due to the significant changes to the survey methodology, 2020 and 2021 results can be compared to each other but are not directly comparable to those of previous years and caution should be taken in reaching any conclusions if making these comparisons. However, comparisons should be possible in future years when the survey methodology and other factors are more consistent from year to year.

#### 2020 data weighted/ 2021 data unweighted

See full details of investigations into weighting the data and decisions made in [Section 6 “Investigations into weighting the data”](#) (page 11). 2021 data are unweighted and can be compared with weighted 2020 data.

#### Reporting 2020 and 2021 as a single year

As the sample size is relatively small, normally three years of data are combined to ensure the analysis carried out is robust. It was decided that due to the methodology changes and because 2020 is an exceptional year, it would not be appropriate to combine 2020 data with previous years. Reporting as a single year has been continued for 2021. It would be difficult to combine 2020 and 2021 data due to the differences in weighting methodology and achieved sample size. This will limit the analysis that can be done as the sample size is reduced by reporting only one year instead of three years combined.

#### Analysis limited due to small achieved sample sizes

The achieved sample in 2021 of 785 households and 1,520 individuals was nearly double that of 2020 (415 households, 771 individuals). It is, however, less than achieved samples prior to 2020. This, along with the change to reporting data as a single year rather than three years combined, will limit the analysis that can be carried out.

#### LGD

The achieved sample by Local Government District (LGD) is too small to produce robust analysis and therefore there will be no LGD level tables produced for the 2021 data.

#### Age by gender

Similarly for the majority of age groups used in the TSNi reports, the achieved sample sizes are too small to produce robust analysis particularly when combined with gender. The possibility of producing tables for wider age bands will be explored for tables/charts by age and gender. If this is not feasible, separate age breakdowns and gender breakdowns may be produced where there is a sufficient achieved sample to produce robust analysis.

## 7.2: Sample profile (January – December 2021)

The tables in this section compare the demographic profile of the Travel Survey for Northern Ireland 2021 sample with that of the Northern Ireland population based on NISRA’s 2021 mid-year estimates of population. In addition, the TSNI 2017-2019 data have been included to show the usual demographic profile of the survey.

**Table 7.1: Sample profile by gender**

	TSNI 2021 – Number of persons	TSNI 2021 - Percentage	Mid Year Estimates 2021	TSNI 2017-2019 - Percentage
Male	712	47%	49%	47%
Female	808	53%	51%	53%
<b>All persons</b>	<b>1,520</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Note: Some percentage totals may not add to 100% due to rounding.

**Table 7.2: Sample profile by age**

	TSNI 2021 – Number of persons	TSNI 2021 - Percentage	Mid Year Estimates 2021	TSNI 2017-2019 - Percentage
0 – 15	236	16%	20%	15%
16 – 24	114	8%	11%	8%
25 – 44	332	22%	26%	25%
45 – 59	382	25%	20%	24%
60 – 74	316	21%	15%	19%
75+	140	9%	8%	10%
<b>All ages</b>	<b>1,520</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Note: Some percentage totals may not add to 100% due to rounding.

**Table 7.3: Sample profile by Local Government District**

	TSNI 2021 - Number of persons	TSNI 2021 - Percentage	Mid Year Estimates 2021	TSNI 2017-2019 - Percentage
Antrim and Newtownabbey	108	7%	8%	5%
Armagh City, Banbridge and Craigavon	145	10%	12%	10%
Belfast	222	15%	18%	16%
Causeway Coast and Glens	122	8%	7%	9%
Derry City and Strabane	133	9%	8%	9%
Fermanagh and Omagh	100	7%	6%	6%
Lisburn and Castlereagh	109	7%	8%	7%
Mid and East Antrim	153	10%	7%	10%
Mid Ulster	115	8%	8%	8%
Newry, Mourne and Down	148	10%	10%	10%
Ards and North Down	165	11%	9%	9%
<b>All Northern Ireland</b>	<b>1,520</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

Note: Some percentage totals may not add to 100% due to rounding.

## Section 8: Sampling errors

Estimates of population values (e.g. means or proportions) made from a random sample survey are dependent upon the particular sample chosen – a different sample selected will produce different estimates of the population figures. The estimates deviate from the true population values by varying amounts; these deviations are known as the sampling error and are, in theory, randomly distributed. The likely size of the sampling error or precision is measured by calculating the *standard error* of the estimate. This precision can also be expressed in terms of a *confidence range* about the sample estimate. A 95 per cent confidence range is the range of values contained within 1.96 standard errors of the survey estimate. If the survey were repeated many times under the same circumstances we would expect such a confidence range to contain the true value 95 per cent of the time.

For example, the number of journeys per person per year is estimated for 2021 as 838 with a confidence range of 26. Hence the 95% confidence range for the number of journeys is 812 to 864.

Survey estimates are usable only if the standard errors are small, or put another way, that the estimates have the necessary precision for the particular purposes to which they are put. The size of a standard error depends upon three factors: the size of the sample; the survey design; and the variability in the population of the attribute being measured.

## 8.1: Confidence ranges (grouped modes and purposes)

This section contains confidence intervals for the grouped categories of mode and purpose, in line with the format currently used in the Headline and In-depth reports. For the full breakdown by mode and purpose, published in Tables 6.1 to 6.8 of previous TSNI Technical Reports (prior to 2017-2019), please see [Section 8.2 “Confidence ranges \(Full breakdown of modes and purposes\)”](#) (page 19).

**Table 8.1.1: Average distance travelled per person per year by mode: 2021**

Mode	Estimate	Miles
		95% confidence range +/-
Walk	277	23
Bicycle	60	24
Car <sup>1</sup>	4,130	228
Public transport <sup>2</sup>	155	37
Other <sup>3</sup>	317	99
<b>All modes</b>	<b>4,940</b>	<b>245</b>

<sup>1</sup> Car includes ‘Car driver’, ‘Car passenger’ and ‘Car undefined’

<sup>2</sup> Public Transport includes ‘Metro and Ulsterbus’, ‘Other bus’, ‘NI Railways’ and ‘Black taxi’

<sup>3</sup> Other mode includes ‘Motorcycle’, ‘Other private’, ‘Taxi’, ‘Other public’ and ‘Undefined mode’

See Travel Survey for Northern Ireland In-depth Report 2020 for definitions of individual travel modes

**Table 8.1.2: Time spent travelling per person per year by main mode: 2021**

Mode	Estimate	Hours
		95% confidence range +/-
Walk	84	6.9
Bicycle	5	2.0
Car <sup>1</sup>	178	8.0
Public transport <sup>2</sup>	12	2.5
Other <sup>3</sup>	12	3.2
<b>All modes</b>	<b>291</b>	<b>10.6</b>

<sup>1</sup> Car includes ‘Car driver’, ‘Car passenger’ and ‘Car undefined’

<sup>2</sup> Public Transport includes ‘Metro and Ulsterbus’, ‘Other bus’, ‘NI Railways’ and ‘Black taxi’

<sup>3</sup> Other mode includes ‘Motorcycle’, ‘Other private’, ‘Taxi’, ‘Other public’ and ‘Undefined mode’

See Travel Survey for Northern Ireland In-depth Report 2020 for definitions of individual travel modes

**Table 8.1.3: Average distance travelled per person per year by purpose<sup>1</sup>: 2021**

Purpose	Estimate	Miles
		95% confidence range +/-
Commuting & Business	1,322	168
Leisure & Other	1,917	135
Personal business	492	64
Shopping	654	53
Education & Escort education	338	53
Other escort	216	44
<b>All purposes</b>	<b>4,940</b>	<b>245</b>

<sup>1</sup> See Travel Survey for Northern Ireland In-depth Report 2020 for definitions of journey purpose. Leisure and Other category includes 'Visit friends at private home', 'Visit friends elsewhere', 'Entertainment/public social activities', 'Sport participate', 'Holiday base', 'Day trip', 'Other including just walk' and 'Undefined purpose'.

**Table 8.1.4: Average number of journeys per person per year by main mode: 2021**

Mode	Estimate	Number of journeys
		95% confidence range +/-
Walk	199	17
Bicycle	10	3
Car <sup>1</sup>	583	23
Public transport <sup>2</sup>	20	4
Other <sup>3</sup>	27	7
<b>All modes</b>	<b>838</b>	<b>26</b>

<sup>1</sup> Car includes 'Car driver', 'Car passenger' and 'Car undefined'

<sup>2</sup> Public Transport includes 'Metro and Ulsterbus', 'Other bus', 'NI Railways' and 'Black taxi'

<sup>3</sup> Other mode includes 'Motorcycle', 'Other private', 'Taxi', 'Other public' and 'Undefined mode'

See Travel Survey for Northern Ireland In-depth Report 2020 for definitions of individual travel modes

**Table 8.1.5: Average number of journeys per person per year by purpose<sup>1</sup>: 2021**

Purpose	Estimate	Number of journeys
		95% confidence range +/-
Commuting & Business	139	12
Leisure & Other	323	17
Personal business	73	7
Shopping	148	9
Education & Escort education	117	14
Other escort	38	6
<b>All purposes</b>	<b>838</b>	<b>26</b>

<sup>1</sup> See Travel Survey for Northern Ireland In-depth Report 2020 for definitions of journey purpose. Leisure and Other category includes 'Visit friends at private home', 'Visit friends elsewhere', 'Entertainment/public social activities', 'Sport participate', 'Holiday base', 'Day trip', 'Other including just walk' and 'Undefined purpose'.

**Table 8.1.6: Average journey length by main mode: 2021**

Mode	Estimate	Miles
		95% confidence range +/-
Walk	1.3	0.0
Bicycle	6.2	0.8
Car <sup>1</sup>	7.1	0.2
Public transport <sup>2</sup>	8.0	0.6
Other <sup>3</sup>	11.6	0.9
<b>All modes</b>	<b>5.9</b>	<b>0.1</b>

<sup>1</sup> Car includes 'Car driver', 'Car passenger' and 'Car undefined'

<sup>2</sup> Public Transport includes 'Metro and Ulsterbus', 'Other bus', 'NI Railways' and 'Black taxi'

<sup>3</sup> Other mode includes 'Motorcycle', 'Other private', 'Taxi', 'Other public' and 'Undefined mode'

See Travel Survey for Northern Ireland In-depth Report 2020 for definitions of individual travel modes

**Table 8.1.7: Average journey length by purpose<sup>1</sup>: 2021**

Purpose	Estimate	Miles
		95% confidence range +/-
Commuting & Business	9.5	0.4
Leisure & Other	5.9	0.2
Personal business	6.8	0.4
Shopping	4.4	0.2
Education & Escort education	2.9	0.1
Other escort	5.8	0.5
<b>All purposes</b>	<b>5.9</b>	<b>0.1</b>

<sup>1</sup> See Travel Survey for Northern Ireland In-depth Report 2020 for definitions of journey purpose. Leisure and Other category includes 'Visit friends at private home', 'Visit friends elsewhere', 'Entertainment/public social activities', 'Sport participate', 'Holiday base', 'Day trip', 'Other including just walk' and 'Undefined purpose'.

**Table 8.1.8: Average journey time by main mode: 2021**

Mode	Estimate	Minutes
		95% confidence range +/-
Walk	25	0.5
Bicycle	34	3.2
Car <sup>1</sup>	18	0.3
Public transport <sup>2</sup>	34	1.6
Other <sup>3</sup>	26	1.6
<b>All modes</b>	<b>21</b>	<b>0.2</b>

<sup>1</sup> Car includes 'Car driver', 'Car passenger' and 'Car undefined'

<sup>2</sup> Public Transport includes 'Metro and Ulsterbus', 'Other bus', 'NI Railways' and 'Black taxi'

<sup>3</sup> Other mode includes 'Motorcycle', 'Other private', 'Taxi', 'Other public' and 'Undefined mode'

See Travel Survey for Northern Ireland In-depth Report 2020 for definitions of individual travel modes

## 8.2: Confidence ranges (full breakdown of modes and purposes)

The full breakdown of modes and purposes are available in the tables accompanying the reports. These full breakdowns were published as Tables 6.1 to 6.8 in previous Technical Reports (prior to 2017-2019).

**Table 8.2.1: Average distance travelled per person per year by mode: 2021**

Mode	Estimate	Miles	
		95% confidence range	+/-
Walk	277		23
Bicycle	60		24
Car driver	2,939		219
Car passenger	1,191		115
Car undefined	..		..
Motorcycle	..		..
Other private	269		97
Metro and Ulsterbus	97		29
Other bus	13		8
NI Railways	45		19
Black taxi	..		..
Taxi	40		22
Other public	..		..
Undefined mode	..		..
<b>All modes</b>	<b>4,940</b>		<b>245</b>

**Table 8.2.2: Time spent travelling per person per year by main mode: 2021**

Mode	Estimate	Hours	
		95% confidence range	+/-
Walk	84		6.9
Bicycle	5		2.0
Car driver	125		7.9
Car passenger	52		4.6
Car undefined	..		..
Motorcycle	..		..
Other private	9		3.1
Metro and Ulsterbus	8		2.1
Other bus	1		0.8
NI Railways	3		1.1
Black taxi	..		..
Taxi	2		0.9
Other public	..		..
Undefined mode	..		..
<b>All modes</b>	<b>291</b>		<b>10.6</b>



**Table 8.2.3: Average distance travelled per person per year by purpose: 2021**

Purpose	Estimate	Miles
		95% confidence range +/-
Commuting	904	122
Business	419	120
Education	171	41
Escort education	167	35
Shopping	654	53
Other escort	216	44
Personal business	492	64
Visit friends at private home	823	95
Visit friends elsewhere	92	25
Entertainment/ public social activities	107	24
Sport participate	131	28
Holiday base	128	45
Day trip	430	60
Other including just walk	200	19
Undefined purpose	..	..
<b>All purposes</b>	<b>4,940</b>	<b>245</b>

**Table 8.2.4: Average number of journeys per person per year by main mode: 2021**

Mode	Estimate	Number of journeys
		95% confidence range +/-
Walk	199	17
Bicycle	10	3
Car driver	412	24
Car passenger	171	15
Car undefined	-	..
Motorcycle	1	1
Other private	19	6
Metro and Ulsterbus	16	4
Other bus	2	1
NI Railways	3	1
Black taxi	-	..
Taxi	7	2
Other public	-	..
Undefined mode	-	..
<b>All modes</b>	<b>838</b>	<b>26</b>

**Table 8.2.5: Average number of journeys per person per year by purpose: 2021**

Purpose	Estimate	Number of journeys
		95% confidence range +/-
Commuting	112	11
Business	27	7
Education	46	7
Escort education	71	12
Shopping	148	9
Other escort	38	6
Personal business	73	7
Visit friends at private home	95	8
Visit friends elsewhere	12	2
Entertainment/ public social activities	16	3
Sport participate	25	4
Holiday base	5	2
Day trip	41	5
Other including just walk	128	13
Undefined purpose	-	..
<b>All purposes</b>	<b>838</b>	<b>26</b>

**Table 8.2.6: Average journey length by main mode: 2021**

Mode	Estimate	Miles
		95% confidence range +/-
Walk	1.3	0.0
Bicycle	6.2	0.8
Car driver	7.2	0.2
Car passenger	7.0	0.3
Car undefined	..	..
Motorcycle	..	..
Other private	13.9	1.2
Metro and Ulsterbus	6.4	0.5
Other bus	6.7	2.0
NI Railways	17.0	2.6
Black taxi	..	..
Taxi	6.0	0.9
Other public	..	..
Undefined mode	..	..
<b>All modes</b>	<b>5.9</b>	<b>0.1</b>

**Table 8.2.7: Average journey length by purpose: 2021**

	Miles	
<b>Purpose</b>	<b>Estimate</b>	<b>95% confidence range +/-</b>
Commuting	8.1	0.3
Business	15.3	1.2
Education	3.7	0.2
Escort education	2.4	0.1
Shopping	4.4	0.2
Other escort	5.8	0.5
Personal business	6.8	0.4
Visit friends at private home	8.6	0.5
Visit friends elsewhere	7.6	1.0
Entertainment/ public social activities	6.6	0.7
Sport participate	5.2	0.4
Holiday base	25.5	4.8
Day trip	10.5	0.7
Other including just walk	1.6	0.0
Undefined purpose	..	..
<b>All purposes</b>	<b>5.9</b>	<b>0.1</b>

**Table 8.2.8: Average journey time by main mode: 2021**

	Minutes	
<b>Mode</b>	<b>Estimate</b>	<b>95% confidence range +/-</b>
Walk	25	0.5
Bicycle	34	3.2
Car driver	18	0.3
Car passenger	18	0.5
Car undefined	..	..
Motorcycle	..	..
Other private	29	2.1
Metro and Ulsterbus	30	1.4
Other bus	32	6.1
NI Railways	55	5.9
Black taxi	..	..
Taxi	18	1.7
Other public	..	..
Undefined mode	..	..
<b>All modes</b>	<b>21</b>	<b>0.2</b>

## Appendix A: 2021 questionnaires

From April 2020, changes were made to some questions to accommodate telephone interviewing (details given in [“Questionnaire – completion by telephone”](#), page 8). The 2021 questionnaires in this section show only the telephone interview format. Questionnaires in previous TSNI Technical Reports show the face-to-face interview format.

Please note: To ensure consistency, interviewers asked the respondent to complete the questionnaire considering their normal behaviours and routines apart from the three new working from home questions added in 2021 (WorkHome, NoDaysWk, NoDaysMn, page 32) which were completed based on their current routine.

### Household Questionnaire

*(Automatically computed)*

#### PerNo

1..97

*(Read out to the Household Reference Person (HRP) or his/her spouse)*

#### hintro

##### HOUSEHOLD INTRODUCTION

I am first going to ask a few questions about the people who live here and some details about your accommodation.

PRESS 1 TO CONTINUE

*(Ask to the HRP or his/her spouse)*

#### Numpers

INTERVIEWER: YOU ARE GOING TO ASK ABOUT ALL THE PEOPLE IN THE HOUSEHOLD. START WITH THE HRP, THEN LIST ALL OTHER PEOPLE (ADULTS AND CHILDREN) IN DESCENDING ORDER (YOUNGEST LAST) OF AGE WITHIN HOUSEHOLD

How many people are there in this household, that is, people whose main residence this is and who share cooking facilities, and share either a living room, sitting room, or dining area with you?

1..10

*(Ask always)*

#### Name

PLEASE ENTER FIRST NAME OF THIS PERSON. IF TWO PEOPLE HAVE THE SAME NAME: ADD, FOR EXAMPLE, JNR OR SNR AFTER THE FIRST NAME, SO THAT YOU CAN DISTINGUISH THEM LATER

STRING [20]

*(Ask always)*

#### Sex

PLEASE ENTER SEX OF ^Name

(1) Male

(2) Female

*(Ask always)*

#### Age

What was your age/^Name's age on their last birthday?

ENTER CODE 99 IF BORN IN 1900 OR EARLIER. CHECK WITH RESPONDENT AND ENTER AGREED AGE. IF AGE NOT KNOWN RECORD ESTIMATE OF AGE.

*(Ask always)*

#### RelHoh

##### ASK OR RECORD

I would now like to ask how all the people in your household are related to each other. Code relationship of each member to the others. Treat relatives of Civil Partners as though the Civil Partners were married. Also, treat cohabiting members of the household as though the cohabiting couple were married, unless the couple are a same sex couple but not in a Civil Partnership.:

- (1) Household Reference Person
- (2) Spouse
- (3) Cohabiting partner
- (4) Son/daughter (incl. adopted)
- (5) Step-son/daughter
- (6) Foster child
- (7) Son-in-law/Daughter-in-law
- (8) Parent/guardian
- (9) Step-parent
- (10) Foster Parent
- (11) Parent-in-law
- (12) Brother/sister (incl. adopted)
- (13) Step-brother/sister
- (14) Foster brother/sister
- (15) Brother/sister-in-law
- (16) Grand-child
- (17) Grand-parent
- (18) Other relative
- (19) Other non-relative
- (20) Civil Partner

(Ask if age > 15)

**MarStt** (Question & answer options updated in 2021)

What is your/ ^Name's legal marital or registered civil partnership status

RUNNING PROMPT

- (1) Never married and never registered in a civil partnership
- (2) Married
- (3) In a registered civil partnership
- (4) Separated, but still legally married
- (5) Separated, but still legally in a civil partnership
- (6) Divorced
- (7) Formerly in a civil partnership, which is now legally dissolved
- (8) Widowed
- (9) Surviving partner from a registered civil partnership?

(Ask if: MarStt = married OR in a registered civil partnership)

**MarChk**

ASK OR RECORD

Is ^Name's husband/wife/civil partner a member of the household?:

- (1) Yes
- (2) No

(Ask always)

**Ethnic**

What is your/ ^Name's ethnic group? Choose one option that best describes your/ ^Name's ethnic group or background:

This is a question of respondent's (or proxy's) opinion):

- (1) White
- (2) Irish Traveller
- (3) White and Black Caribbean
- (4) White and Black African
- (5) White and Asian
- (6) Any other Mixed/Multiple ethnic background
- (7) Indian
- (8) Pakistani
- (9) Bangladeshi
- (10) Chinese
- (11) Any other Asian background
- (12) African
- (13) Caribbean
- (14) Any other Black/African/Caribbean background
- (15) Arab
- (16) Any other ethnic group

(Ask if: Ethnic=Other)

**EthnicOt**

Please can you describe your ethnic group? Enter description of ethnic group.

STRING [100]

(Ask if: age > 15)

**LivTog**

ASK OR RECORD

May I just check, are you/is ^Name currently living with someone in this household as a couple?

- (1) Yes - opposite sex couple
- (2) Yes - same sex couple
- (3) No

(Ask always)

**Joint**

Does ^Name/you jointly own or rent this accommodation?

- (1) Do not own or rent
- (2) Sole owner/renter
- (3) Joint owner/renter

## Household Section

(Ask to the HRP or his/her spouse)

**ResLen**

Now I would like to ask a little bit about circumstances which may affect the travelling people do.

First, how many years has HRP lived at this address?

- (1) less than 3 months,
- (2) 3 - 6 months,
- (3) 6-12 months,
- (4) more than 12 months

(Ask to the HRP or his/her spouse if ResLen = under 1 year)

**OldAdd**

Is HRP's old address more than 1 mile from here or less than that?

- (1) More than one mile
- (2) One mile or less

(Ask to the HRP or his/her spouse)

**Tenure** (answer options updated in 2020)

In which of these ways do you occupy this accommodation?

RUNNING PROMPT

- (1) Own it outright
- (2) Buying it with the help of a mortgage/loan
- (3) Pay part rent and part mortgage (co-ownership)
- (4) Rented from Housing Executive
- (5) Rented from a housing association
- (6) Rented privately
- (7) Live here rent free
- (8) Squatting

*(Ask to the HRP or his/her spouse if Tenure = rented OR rent free)*

**Furnish**

Is the accommodation provided?

- (1) furnished
- (2) partly furnished (e.g. curtains and carpets only)
- (3) Unfurnished

*(Ask to the HRP or his/her spouse)*

**Accommod**

INTERVIEWER PLEASE RECORD THE TYPE OF BUILDING AT/IN WHICH ADDRESS IS LOCATED:

- (1) Whole house detached
- (2) Whole bungalow detached
- (3) Whole house/bungalow - semi-detached
- (4) Terraced house or terraced bungalow
- (5) Purpose-built flat or maisonette
- (6) Part of house/converted flat or maisonette in house
- (7) Rooms in flat/maisonette or house
- (8) Dwelling with business premises
- (9) Rural cottage
- (10) Other (specify)?

*(Ask if: Accommod = other)*

**AccomOth**

PLEASE SPECIFY TYPE OF ACCOMMODATION:  
STRING [40]

*(Ask to the HRP or his/her spouse)*

**BusProv**

RUNNING PROMPT. Following are a few questions about local transport. Which is the main type of bus provided locally?

(EXCLUDE EDUCATION BOARD BUSES.)

Are they...

- (1) Mainly small buses (e.g. mini-buses or flexi-buses)
- (2) Mainly large buses
- (3) OR an equal mixture of both small and large buses?
- (4) No local bus service
- (5) Other

*(Ask to the HRP or his/her spouse)*

**NearBus1**

About how long would it take ME to walk from here to the NEAREST bus stop (or place where I could get on a bus)?

I am interested in the NEAREST one even if it isn't the main one you use.

INTERVIEWER: CODE ANSWER IN MINUTES EG IF ONE HOUR CODE 60. IF MORE THAN 98 MINUTES SELECT DON'T KNOW ICON.

IF RESPONDENT SAYS DON'T KNOW OR REFUSAL SELECT APPROPRIATE ICON FROM TOP OF SCREEN.

0..98

*(Ask to the HRP or his/her spouse if Nearbus1 = Don't know OR Refusal)*

**NearBus2**

Would it be about...?

INTERVIEWER: IF RESPONDENT GIVES A RANGE e.g. 25-30 MINS THEN CODE LOWEST GROUP ie. 4 IF MORE THAN 98 CODE 44 MINUTES OR LONGER

- (1) 3 minutes or less
- (2) 4-6 minutes
- (3) 7-13 minutes
- (4) 14-26 minutes
- (5) 27-43 minutes
- (6) 44 minutes or longer

*(Ask to the HRP or his/her spouse)*

**GetBus**

How often would I be able to get a bus from that bus stop during the day?

IF 'VARIES' TAKE WEEK DAY OFF-PEAK FREQUENCY

- (1) Less than once a day
- (2) At least once a day
- (3) About 3 times a day
- (4) At least once an hour
- (5) At least once every half-hour
- (6) At least once every quarter-hour
- (7) Don't know

*(Ask to the HRP or his/her spouse)*

**NearSta1**

Now thinking of your local train service how long would it take ME to walk to your nearest NIR station? Again it is the NEAREST one I am interested in, even if it is not the main one or the one you use.

0..98

*(Ask to the HRP or his/her spouse if NearSta1 = Don't know OR Refusal)*

**NearSta2**

Would it be about...?

INTERVIEWER: IF RESPONDENT GIVES A RANGE eg. 25-30 MINS, THEN CODE LOWEST GROUP i.e. 4 IF MORE THAN 98 CODE 44 MINUTES OR LONGER

- (1) 6 minutes or less
- (2) 7-13 minutes
- (3) 14-26 minutes
- (4) 27-43 minutes
- (5) 44 minutes or longer
- (6) Not applicable

*(Ask to the HRP or his/her spouse)*

**BusSta1**

Can I just check.... How long would it take me to get to the station by bus? Include walking to and from the bus stop but assume there is no waiting time.

INTERVIEWER: CODE ANSWER IN MINUTES E.G. IF ONE HOUR CODE 60. IF MORE THAN 98 MINUTES ENTER CTR K. IF RESPONDENT SAYS DON'T KNOW OR REFUSAL ENTER CTR K. IF NO BUS SERVICE OR QUICKER TO WALK ENTER CTR+K

0..98

*(Ask to the HRP or his/her spouse if BusSta1 = Don't know OR Refusal)*

**BusSta2**

RUNNING PROMPT

Would it be about...?

INTERVIEWER: IF RESPONDENT GIVES A RANGE, e.g. 25-30 MINS, THEN CODE LOWEST GROUP i.e. 4. IF MORE THAN 98 CODE 44 MINUTES OR LONGER

- (1) No bus service/quicker to walk
- (2) 6 minutes or less
- (3) 7-13 minutes
- (4) 14-26 minutes
- (5) 27-43 minutes
- (6) 44 minutes or longer

*(Ask to the HRP or his/her spouse if NearSta2 <> Not applicable.)*

**DescTa**

Would you tell me which description is most like your nearest NI railway station? Is it a ...

- (1) Station with frequent services throughout the day (at least once per hour)
- (2) Station with frequent services only during rush hours (at least once per hour)
- (3) Or a station with less frequent services?
- (4) Not applicable
- (5) Don't know

*(Ask to the HRP or his/her spouse)*

**IfBike**

Now I would like to ask about bicycles.

Does your household have any bicycles, which are used by adults or older children (that is children aged 6 years or older)?

- (1) Yes
- (2) No

*(Ask to the HRP or his/her spouse if IfBike = Yes)*

**NoBike**

How many bicycles does your household have?

1..9

*(Ask to the HRP or his/her spouse)*

**IchEmp**

Is anyone in this household (Are you) in paid employment?

- (1) Yes (someone in h'hold working)
- (2) No (no-one in h'hold working)

*(Ask to the HRP or his/her spouse)*

**Noplveh**

Could you please tell me the number of vehicles that your household have available, including any broken down vehicles which will be available for use in the next four weeks?

INTERVIEWER: EXCLUDE COMPANY POOL CARS  
0..8

*(Ask to the HRP or his/her spouse if Noplveh > 0)*

**NoCars** (added in 2020)

How many of these vehicles are cars or vans?  
0..8

*(Reminder for interviewer if Noplveh > 0)*

**vremind**

NOTE: YOU CAN 'JUMP' TO THE VEHICLE GRID AT ANY TIME DURING THE REMAINDER OF THE QUESTIONNAIRE IN ORDER TO COLLECT DETAILS FROM THE MOST APPROPRIATE PERSON:(CONTINUE)  
carchk 0..8

*(Ask to the HRP or his/her spouse if 2 or more people have said that they jointly own or rent the accommodation)*

**HiHNum**

You have told me that...jointly own or rent the accommodation. Which of you has the highest income (from earnings, benefits pensions and any other sources)?

Enter PERSON NUMBER - IF 2 OR MORE HAVE THE SAME INCOME, ENTER 11

*(Ask to the HRP or his/her spouse (or record) if 2 or more people have said that they jointly own or rent the accommodation AND if HiHNum = 11)*

**JntEldA**

ENTER PERSON NUMBER OF THE ELDEST JOINT HOUSEHOLDER FROM THOSE WITH THE SAME HIGHEST INCOME. ASK OR RECORD

*(Ask to the HRP or his/her spouse (or record) if 2 or more people have said that they jointly own or rent the accommodation AND if HiHNum =Don't know)*

**JntEldB**

ENTER PERSON NUMBER OF THE ELDEST JOINT HOUSEHOLDER

*(Automatically computed)*

**DVHRP**

Person number of household reference number  
1..10

## Individual Questionnaire

*(Ask always)*

### WhoInt

ENTER THE NUMBER OF THE PERSON YOU WANT TO INTERVIEW

0..10

*(Pre-filled)*

### Name

Name of respondent  
STRING [15]

*(Ask always)*

### IndQn1

Code whether telephone interview, proxy interview, or person not available

- (1) Telephone
- (2) Proxy
- (3) Interview this person later
- (4) Not available or individual refused

*(Ask if: IndQn1 = tele OR proxy & Age > 15)*

### Difffoot

I am now going to ask some questions about any health problems or physical disabilities that affect travelling.

Do you have any physical disability or other long-standing health problem that makes it difficult for you to **go out on foot**?

- (1) Yes
- (2) No

*(Ask if: IndQn1 = tele OR proxy & Age > 15)*

### Diffbus

Do you have a physical disability or long standing health problem that makes it difficult for you to **use buses or coaches**?

- (1) Yes
- (2) No

*(Ask if: IndQn1 = tele OR proxy & Age > 15)*

### Diftrain

Do you have a physical disability or long-standing health problem that makes it difficult for you to **use trains**?

- (1) Yes
- (2) No

*(Ask if: IndQn1 = tele OR proxy & Age > 15)*

### Difdrive

Do you have a physical disability or long-standing health problem that makes it difficult for you to **drive a**

**car**?

- (1) Yes
- (2) No

*(Ask to All)*

### TRVBUS

I would now like to ask you some questions about travelling on buses and trains. How often do you travel on a bus?

IF RESPONDENT TRAVELS EVERY WORKING DAY/SCHOOL DAY BUT NOT WEEKENDS THEN CODE AS EVERY DAY. ONLY INCLUDE TRAVEL WITHIN NORTHERN IRELAND.

RUNNING PROMPT

- (1) Every day
- (2) At least once a week
- (3) At least once every 2-3 weeks
- (4) At least once a month
- (5) Once every 2-3 months
- (6) Once every 6 months
- (7) Once a year
- (8) Less frequently
- (9) Never

*(Ask if: (IndQn1 = tele OR proxy) AND (TRVBUS >= 1 AND TRVBUS <=7) i.e. travel on a bus at least once a year)*

### TRV2BUS (added in 2019)

When you are going to get a bus, how do you usually travel to the bus stop/station?

IF THE RESPONDENT HAS DIFFERENT METHODS OF TRAVELLING DEPENDING ON THE BUS STOP/STATION THEY ARE USING, SELECT THE OPTION THEY USE MOST FREQUENTLY TO TRAVEL TO THEIR NEAREST BUS STOP/STATION.

- (1) Car/van
- (2) Motorbike/Moped/Scooter
- (3) Bicycle
- (4) NIR Train
- (5) Taxi/minicab
- (6) Walk
- (7) Other (please specify)

*(Ask if: TRV2BUS= Other)*

### TRV2BUSO (added in 2019)

Please specify other answer:

STRING [60]

*(Ask to all)*

### TRVTRAIN

How often do you travel on a train?

IF RESPONDENT TRAVELS EVERY WORKING DAY/SCHOOL DAY BUT NOT WEEKENDS THEN CODE AS EVERY DAY. ONLY INCLUDE TRAVEL WITHIN NORTHERN IRELAND.

RUNNING PROMPT

- (1) Every day



- (2) At least once a week
- (3) At least once every 2-3 weeks
- (4) At least once a month
- (5) Once every 2-3 months
- (6) Once every 6 months
- (7) Once a year
- (8) Less frequently
- (9) Never

*(Ask if: (IndQn1 = tele OR proxy) AND (TRVTRAIN >= 1 AND TRVTRAIN <=7) i.e. travel on a train at least once a year)*

**TRV2TRN** (added in 2019)

When you are going to get a train, how do you usually travel to the train station?

IF THE RESPONDENT HAS DIFFERENT METHODS OF TRAVELLING DEPENDING ON THE TRAIN STATION THEY ARE USING, SELECT THE OPTION THEY USE MOST FREQUENTLY TO TRAVEL TO THEIR NEAREST TRAIN STATION.

- (1) Car/van
- (2) Motorbike/Moped/Scooter
- (3) Bicycle
- (4) Bus/Minibus/Coach
- (5) Taxi/minicab
- (6) Walk
- (7) Other (please specify)

*(Ask if: TRV2TRN= Other)*

**TRV2TRNO** (added in 2019)

Please specify other answer:

STRING [60]

*(Ask if: (IndQn1 = tele) AND (Age > 15) AND (TRVBUS and/or TRVTRAIN have option 1-8, i.e. respondent has used buses and/or trains))*

**PTreason** (answer options updated in 2021)

What are your main reasons for using public transport?

DO NOT PROMPT. PROBE FOR ANY OTHERS. CODE ALL THAT APPLY.

- (1) Journey quicker by public transport
- (2) More convenient than the car
- (3) Better value for money than the car
- (4) Can work/rest/read on bus/train
- (5) Don't like to drive in the city
- (6) Use public transport to avoid traffic congestion
- (7) Get free or discounted travel on public transport
- (8) Prefer for long journeys
- (9) Use public transport if car is not available
- (10) Cost of parking
- (11) Cost of petrol
- (12) Personal disability
- (13) Environmental impact of using car

- (14) Health benefits e.g. walking to bus stop/train station
- (15) Lack of parking at my destination
- (16) To avoid drinking and driving
- (17) The only travel option is public transport e.g. do not have access to a car, can't drive, too far to walk or cycle
- (18) I use public transport for particular types of journeys e.g. commuting, shopping, education, leisure, days out
- (19) I enjoy travelling by bus/train
- (20) Children enjoy travelling by bus/train
- (21) I travel on public transport when I feel like a change from my usual mode of travel
- (22) To avoid driving in bad weather conditions
- (23) Other (please specify)

**PTreasOt**

Please specify other reason for using public transport  
STRING [300]

*(Ask if: IndQn1 = tele & Age > 15)*

**SATPUB**

Thinking about your local public transport services. By local, I mean services which operate near your home. Are you satisfied with your local public transport services?

- (1) Yes
- (2) No
- (3) Don't use local public transport

*(Ask if: IndQn1 = tele & Age > 15)*

**IMPPT**

What improvements could be made to encourage you to use local public transport services more often?

DO NOT PROMPT. PROBE FOR ANY OTHERS. CODE ALL THAT APPLY

- (1) Better provision for older or disabled people
- (2) Better provision for people with young children or shopping
- (3) Cheaper fares
- (4) Boarding point closer to home
- (5) Quicker journey time
- (6) More destinations or routes
- (7) More reliable or punctual services
- (8) More frequent weekend services
- (9) More frequent evening services
- (10) More frequent day services
- (11) Better information on services
- (12) Cleaner, better maintained trains/ train stations/buses/bus shelters/stations
- (13) Better lighting at train stations/ bus shelters/stations at night
- (14) More bus lanes to speed up journey
- (15) More helpful/courteous drivers/staff

- (16) Introduction of public transport services in my area
- (17) Provision of early morning/late night services
- (18) Better connections
- (19) Increase capacity of vehicles/services to prevent overcrowding
- (20) Increase provision of waiting facilities (e.g. bus shelters)
- (21) Increase parking capacity/provision of parking facilities (e.g. Park 'n' Ride)
- (22) Other (Please specify)
- (23) I already use local public transport as much as I can
- (24) There are no improvements necessary
- (25) Nothing would encourage me to use local public transport more often

- (2) At least once a week
- (3) At least once every 2-3 weeks
- (4) At least once a month
- (5) Once every 2-3 months
- (6) Once every 6 months
- (7) Once a year
- (8) Less frequently
- (9) Never

(Ask if: (IndQn1 = tele) AND (Age > 15) AND (PARKRIDE = Never))

**PKRDENO** (answer options updated in 2021)

Can you tell me what, if anything, has discouraged you from using Park & Ride?

DO NOT PROMPT. PROBE FOR ANY OTHERS.  
CODE ALL THAT APPLY

- (1) I have never heard of the Park & Ride service
- (2) I don't know where my nearest Park & Ride is
- (3) Bus/train services are not frequent enough from the Park & Ride
- (4) It is too expensive to take the bus or train from the Park & Ride
- (5) Park & Ride car park is too far/too inconvenient to get to
- (6) It is hard to get a space in the Park & Ride car park
- (7) I have no access to a car
- (8) Bus/train too overcrowded
- (9) My health or mobility makes using the Park & Ride facilities difficult or impossible
- (10) I have no interest in using Park & Ride
- (11) Normal destination is close enough to walk/cycle to
- (12) My nearest bus stop/train station doesn't have a Park & Ride car park
- (13) It is easier to use/I prefer to use the public transport services without Park & Ride
- (14) It is easier to use/I prefer to use the car for my entire journey
- (15) I am worried about security/vandalism at the Park & Ride car park
- (16) I need to use my car during the day e.g. for work
- (17) Other (please specify)
- (18) Nothing specifically has discouraged me from using Park & Ride (SPONTANEOUS)

(Ask if: IMPPT = other)

**ImpOth**

Please specify other answer

STRING [60]

(Ask if: IndQn1 = tele & Age > 15)

**BorderYN**

Thinking about the last 4 weeks, did you make any journeys that crossed the NI/ROI border?

- (1) Yes
- (2) No

(Ask if BorderYN = yes)

**BorderTimes**

How many times did you cross the NI/ROI border in the last 4 weeks? Please remember to count all your journeys, including return journeys. E.g. If you visited the Republic of Ireland and returned to NI, you crossed the NI/ROI border twice.

INTERVIEWER: IF THE RESPONDENT SAYS THAT THEY DO NOT KNOW EXACTLY HOW MANY TIMES THEY CROSSED THE BORDER IN THE LAST 4 WEEKS, PLEASE ASK THEM TO PROVIDE AN ESTIMATE.

1..999

(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15))

**PARKRIDE**

Park & Ride is when the car you are travelling in is parked in a designated Park & Ride car park and you take a bus or train to your destination. How often do you use Park & Ride?

INCLUDE IF DRIVER OR PASSENGER IN A CAR/VAN USING PARK & RIDE.

IF RESPONDENT USES PARK & RIDE EVERY WORKING DAY BUT NOT WEEKENDS THEN CODE AS 'EVERY DAY'. ONLY INCLUDE USE OF PARK & RIDE IN NORTHERN IRELAND.

RUNNING PROMPT

- (1) Every day

(Ask if: PKRDENO = Other)

**PKRDENOO** (added in 2019)

Please specify other answer:

STRING [100]

(Ask if: (IndQn1 = tele OR proxy) AND (Age >= 4 AND Age <= 18))

### TRAVSCH

I'd now like to ask about school journeys made by children and young people. How do you (the child/young person) usually travel to school or college?

IF CHILD/YOUNG PERSON DOES NOT GO TO SCHOOL OR COLLEGE, SELECT OPTION 9.

CODE ONE ONLY, FOR THE LONGEST PART, BY DISTANCE, OF THE RESPONDENT'S USUAL JOURNEY TO SCHOOL OR COLLEGE.

IF DIFFERENT METHODS USED TO AND FROM SCHOOL, CODE METHOD TO SCHOOL.

IF DIFFERENT METHODS USED ON DIFFERENT DAYS, CODE METHOD USED MOST OF THE TIME:

- (1) Walk
- (2) Bicycle
- (3) Car/van
- (4) Motorcycle/Moped/Motorised scooter
- (5) Bus/Minibus/Coach
- (6) Train
- (7) Taxi/minicab
- (8) Other (please specify)
- (9) Does not go to school or college

(Ask if: TRAVSCH = other)

### TRAVOTH

Please specify what other way you (the child/young person) usually travels to school or college

STRING [60]

(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15))

### DL

Do you hold any driving licences valid in the UK?

- (1) Yes
- (2) No

(Ask if: DL = Yes)

### Difull

INCLUDE: DISQUALIFIED DRIVERS AND INTERNATIONAL PERMITS/OTHER LICENCES VALID IN THE UK

Which of the following driving licences valid in the UK do you hold?

CODE ALL THAT APPLY

- (1) Provisional driving licence
- (2) Full driving licence
- (3) Passenger Services Vehicle licence (PSV)
- (4) Heavy Goods Vehicle licence (HGV)

Please note that the employment section of questions which follows was updated in 2021 to move in line with the harmonised standard. The question names have changed from previous Technical Reports and the new

questions are PaidWork to Nreason. In previous Technical Reports, the standard employment questions were WorkLWK to SENO. Subsequent questions which used WorkLWK in the routing now use PaidWork.

(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15))

### Introwk (added in 2021)

I am going to ask you some questions about employment now.

(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15))

### Paidwork (added in 2021)

Did you do any paid work in the 7 days ending Sunday the XX/XX/XXXX, either as an employee or as self-employed?

INSTRUCTION: IF ON GOVERNMENT TRAINING SCHEME CHOOSE "NO"

- (1) Yes
- (2) No

(Ask if: Paidwork = No)

### Anywork (added in 2021)

Did you...

RUNNING PROMPT

- (1) have a job or business you were away from
- (2) were you waiting to take up a job already obtained
- (3) were you looking for work, or
- (4) were you intending to look for work, but were prevented by temporary sickness or injury?
- (5) were you on a government training scheme
- (6) none of these

(Ask if: (Paidwork = No) AND (Anywork <> Away from job or business))

### Evrwork (added in 2021)

May I just check, have you ever had a paid job or done any paid work?

- (1) Yes
- (2) No

(Ask if: (Paidwork = Yes) OR (Anywork = Away from job or business) OR (Evrwork = Yes))

### Mjobint (added in 2021)

I would like to ask you now about your most recent job/main job at present/you were away from/waiting to take up.

(Ask if: (Paidwork = Yes) OR (Anywork = Away from job or business) OR (Evrwork = Yes))

### Ptime (added in 2021)

In your (main) job were you working full or part time?

- (1) Full-time
- (2) Part-time?

*(Ask if: (Paidwork = Yes) OR (Anywork = Away from job or business) OR (Evrwork = Yes))*

**Title**

What is/was your job title/occupation?

*(Ask if: (Paidwork = Yes) OR (Anywork = Away from job or business) OR (Evrwork = Yes))*

**Fully**

Please describe fully what you do/did

*(Ask if: (Paidwork = Yes) OR (Anywork = Away from job or business) OR (Evrwork = Yes))*

**Indust**

In which industry do/did you work?

*(Ask if: (Paidwork = Yes) OR (Anywork = Away from job or business) OR (Evrwork = Yes))*

**Empsemp**

Are you/Were you..

READ OUT

- (1) An employee
- (2) Self-employed

*(Ask if: Empsemp = Employee)*

**Esestat**

ASK EMPLOYEES

Are you /Were you...

RUNNING PROMPT

- (1) Manager
- (2) Foreman / Supervisor
- (3) Employee?

*(Ask if: Empsemp = Self-employed)*

**Empoth**

ASK SELF-EMPLOYED

Did you/do you employ any other people?

- (1) Yes
- (2) No

*(Ask if: (Paidwork = No) AND (Anywork <> Away from job or business))*

**Unpaiddo**

Did you do any unpaid work in the seven days ending Sunday the XX/XX/XXXX for any business that YOU own?

- (1) Yes
- (2) No

*(Ask if: Unpaiddo = No)*

**Unpaidr**

...or that a relative owns?

- (1) Yes
- (2) No

*(Ask if: (Paidwork = No) AND (Anywork <> Away from job or business))*

**Last4wk**

Thinking of the 4 weeks ending Sunday XX/XX/XXXX, were you looking for any kind of paid work or government training scheme at any time in those 4 weeks?

- (1) Yes
- (2) No

*(Ask if: Last4wk = Yes)*

**Ifplace**

If a job or a place on a government scheme had been available in the week ending Sunday the XX/XX/XXXX, would you have been able to start in the next two weeks?

- (1) Yes
- (2) No

*(Ask if: (Last4wk = No) OR (Ifplace = No))*

**Nreason**

What was the MAIN reason you did not seek any work in the last 4 weeks, or would not be able to start in the next 2 weeks?

- (1) Student
- (2) Looking after family/home
- (3) Temporarily sick or injured
- (4) Long-term sick or disabled
- (5) Retired from paid work
- (6) Other reason
- (7) Waiting to take up job already obtained

*(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15) AND (Paidwork = Yes))*

**WkPlace**

When you go to work do you....

RUNNING PROMPT

- (1) Go to the same place every time.
- (2) OR go to the same place on at least 2 days running each week
- (3) OR go to different places
- (4) OR work at home, from home, or in the same building as your home?

*(Ask if: (IndQn1 = tele OR proxy) & (Age > 15) & (Paidwork = Yes) and (WkPlace = Same every time OR Same place two days running OR Different places))*

**WkTraNew**

How do you usually travel to work?

PROBE FOR MAIN METHOD. IF RESPONDENT ANSWERS CAR OR VAN, PROBE FOR IF 'USUALLY DRIVER', 'USUALLY PASSENGER' OR 'SOMETIMES DRIVER, SOMETIMES PASSENGER':

- (1) Car/van-usually the driver
- (2) Car/van-usually the passenger

- (3) Car/van-sometimes driver and sometimes passenger
- (4) Motorbike/Moped/Scooter
- (5) Bicycle
- (6) Bus/Minibus/Coach
- (7) NIR train
- (8) Taxi/minicab
- (9) Walk
- (10) Other

*(Ask if: WkTraNew = other)*

**XWkTrav**

Please record how respondent usually travels to work  
STRING [40]

*(Ask if WkTraNew = option 1, 2 or 3, i.e. car/van)*

**NoPeople**

How many people would normally be in the car/van when you are travelling to work (including yourself)?

INCLUDE ALL CHILDREN AND ADULTS IN THE CAR/VAN. IF NUMBER VARIES DURING THE WEEK, INCLUDE THE NUMBER WHO MAKE THE JOURNEY AT LEAST 3 DAYS DURING THE WEEK. IF NUMBER VARIES FROM WEEK TO WEEK, STATE NUMBER DURING THE WEEK OF THE SURVEY. IF NUMBER VARIES DURING THE JOURNEY, STATE MAXIMUM NUMBER DURING JOURNEY:

1..10

*(Ask if (IndQn1 = tele OR proxy) AND (Age > 15) AND (Paidwork = Yes))*

**WorkHome** (added in 2021)

How often, if at all, do you work from home instead of going to your (usual) place of work?

WE ARE INTERESTED IN WHETHER THE RESPONDENT IS WORKING AT HOME INSTEAD OF TRAVELLING TO THEIR (USUAL) PLACE OF WORK. DO NOT INCLUDE IF ADDITIONAL TO NORMAL WORKING HOURS (E.G. ADDITIONAL WORK AT HOME IN EVENINGS OR WEEKEND), AND DO NOT INCLUDE SELF-EMPLOYED PEOPLE (E.G. PLUMBERS) DOING ADMINISTRATIVE PAPERWORK.

DO NOT INCLUDE PEOPLE WHO WORK AT HOME FOR PART OF THE DAY AND GO TO THEIR (USUAL) PLACE OF WORK FOR PART.

CODE FIRST THAT APPLIES

- (1) At least once a week
- (2) Less than that but at least once a month
- (3) Once or twice every 3 months
- (4) Once or twice every 6 months
- (5) Once or twice a year
- (6) Less frequently
- (7) Never

*(Ask if (IndQn1 = tele OR proxy) AND (Age > 15) AND (Paidwork = Yes) AND (WorkHome = 1))*

**NoDaysWk** (added in 2021)

How many days do you work from home each week?

IF NUMBER VARIES FROM WEEK TO WEEK, STATE NUMBER OF DAYS WORKED AT HOME MOST OF THE TIME. IF THERE IS NO STANDARD WEEK, STATE NUMBER OF DAYS WORKED AT HOME LAST WEEK (LAST WEEK WHEN WORKING IF OFF WORK).

1..7

*(Ask if (IndQn1 = tele OR proxy) AND (Age > 15) AND (Paidwork=Yes) AND (WorkHome = 2))*

**NoDaysMn** (added in 2021)

How many days do you work from home each month?

IF NUMBER VARIES FROM MONTH TO MONTH, STATE NUMBER OF DAYS WORKED AT HOME MOST OF THE TIME. IF THERE IS NO STANDARD MONTH, STATE NUMBER OF DAYS WORKED AT HOME LAST MONTH (LAST MONTH WHEN WORKING IF OFF WORK). ESTIMATE IF UNSURE OF EXACT NUMBER OF DAYS.

1..31

*(Ask if: IndQn1 = tele OR proxy)*

**Stckt**

Now turning to public transport, do you have a season ticket (weekly/monthly/annual), a multi-journey travel card or a special pass or card of any kind allowing discounted or free travel?

- (1) Yes
- (2) No

*(Ask if: (IndQn1 = tele OR proxy) & (Stckt = Yes))*

**tictype**

Which ticket(s), travel card(s), and/or pass(es) do you have?

SELECT UP TO [3] OF

- (1) Metro/Glider Smartlink multi journey card
- (2) Metro/Glider Smartlink Travelcard (weekly)
- (3) Metro/Glider Smartlink Travelcard (monthly)
- (4) Ulsterbus Smartlink multi journey card
- (5) Ulsterbus Town Service Smartlink Travelcard (weekly)
- (6) Ulsterbus Town Service Smartlink Travelcard (monthly)
- (7) NI Railways 7 Day Weekly ticket
- (8) NI Railways Monthly ticket
- (9) mLink multi journey rail ticket (3 day flexi/weekly/monthly ticket purchased on mobile phone)
- (10) Enterprise cross-border rail tickets (contract tickets/weekly/monthly)
- (11) Education and Library Board school travel pass (free travel)

- (12) Translink Pupil Pass card (discounted travel)
- (13) yLink (available if aged 16-23)
- (14) Park & Ride multi journey Smartlink card
- (15) iLink Travelcard (weekly/monthly)
- (16) aLink (Annual Travelcard)
- (17) Jobseekers permit
- (18) Senior SmartPass (aged 65+)
- (19) 60+ SmartPass (aged 60-64)
- (20) Blind SmartPass or War Disablement SmartPass
- (21) Half Fare SmartPass
- (22) Employee/Family of employee travel pass
- (23) 24+ Student Railcard (available if aged 24+ and in full-time education)
- (24) dayLink card
- (25) mLink multi journey bus ticket (Metro/Glider weekly/monthly – ticket purchased on mobile phone)
- (26) NI Railways 3 Day Select ticket
- (27) Other

*(Ask if: tictype = Other)*

**othtic**

Please specify other ticket

STRING [50]

*Ask if: (IndQn1 = tele OR proxy) AND (Age >= 60) AND ((Stckt = No) OR (tictype <> "Senior SmartPass" AND tictype <> "60+ SmartPass"))*

**Smart** (added in 2019)

Can I just check – do you have a Senior SmartPass or a 60+ SmartPass?

- (1) Yes
- (2) No

*Ask if: (IndQn1=tele) AND (Age >= 60) AND (Smart = No)*

**SmartNo** (answer options updated in 2021)

What are the reasons you don't have a Senior/60+ SmartPass?

DO NOT PROMPT. PROBE FOR ANY OTHERS.  
CODE ALL THAT APPLY

- (1) I have not heard of the Senior/60+ SmartPass
- (2) I didn't realise I had to apply for the SmartPass
- (3) It is too much hassle to apply for one
- (4) I didn't realise the SmartPass was free/entitled me to free travel
- (5) My SmartPass has expired and I haven't got round to renewing it
- (6) I lost my SmartPass and I haven't got round to replacing it
- (7) My health or mobility makes using public transport difficult or impossible

- (8) I find public transport unpleasant
- (9) I find public transport unreliable
- (10) I prefer using the car for my journeys
- (11) I prefer not to travel too far from home
- (12) There are no public transport services in my area
- (13) I never use public transport
- (14) I have no interest in obtaining a SmartPass
- (15) I am currently or will soon be applying for a SmartPass
- (16) I haven't got round to applying for a SmartPass but I intend to get one in the future
- (17) Other (please specify)

*Ask if: (SmartNo = Other)*

**SmartNoO** (added in 2019)

Please specify other answer:

STRING [100]

*Ask if: (IndQn1 = tele) AND (Age > 15) AND ((tictype = "Senior SmartPass" OR "60+ SmartPass" OR "Blind or War Disablement SmartPass" OR "Half Fare SmartPass") OR (Smart = Yes))*

**SmartSoc** (answer options updated in 2021)

What difference does having a SmartPass make to your day-to-day life?

DO NOT PROMPT. PROBE FOR ANY OTHERS.

CODE ALL THAT APPLY

- (1) It allows me to use public transport more often
- (2) I can get out and about more
- (3) I can socialise more with friends and family
- (4) I don't have to rely as much on friends and family for lifts
- (5) I don't need to use a taxi as much
- (6) I can afford to do more things as I don't have to pay (as much) for public transport
- (7) I find it easier to access goods and services e.g. it is easier to go shopping or to appointments
- (8) I have no access to alternative transport and a SmartPass allows me to travel further from home/ to places that I would otherwise find difficult or impossible to get to
- (9) I use my SmartPass for day trips/holiday travel
- (10) Other (please specify)
- (11) I have a SmartPass but I don't use it (SPONTANEOUS)
- (12) Having a SmartPass makes no difference to my day-to-day life (SPONTANEOUS)

*Ask if: (SmartSoc = Other)*

**SmrtSocO** (added in 2019)

Please specify other answer:

STRING [100]

(Ask if: (IndQn1 = tele) AND (Age > 15 AND Age < 60)  
AND (Stckt = No))

### AwareTick

Are you aware of options allowing discounted travel on public transport such as multi-journey travel cards, weekly/monthly/annual tickets, yLink, iLink etc?

- (1) Yes
- (2) No

(Ask if: (AwareTick = Yes) AND (TRVBUS and/or TRVTRAIN = option 1-8 i.e. have used bus/train))

### WhyNoTick (answer options updated in 2021)

Can I ask, why do you not have a ticket or card which allows discounted travel on public transport?

DO NOT PROMPT. PROBE FOR ANY OTHERS.

CODE ALL THAT APPLY

- (1) Can't afford to pay for a number of journeys at one time
- (2) I don't use the bus/train frequently enough to buy one
- (3) I'm afraid of losing the card/ticket
- (4) I don't always get on and off the bus/train at the same places
- (5) I can't buy the card on the bus - I have to go to a shop/kiosk that sells them or to the station
- (6) I can't top up the card on the bus - I have to go to a shop/kiosk that does this or to the station
- (7) It becomes invalid after a certain time period and you lose your journeys
- (8) I prefer to travel by car
- (9) I am not sure about the different ticket/card options there are and what would be best for me
- (10) The bus/train service is not frequent enough for me
- (11) Usual journey(s) take too long by public transport e.g. too many connections
- (12) Usual journey(s) not possible by public transport e.g. no service in my area, required route not available
- (13) I need to use my car during the day e.g. for work
- (14) I haven't got round to purchasing/applying for ticket/card allowing discounted travel
- (15) Any other reason (please specify)

(Ask if: WhyNoTick = other)

### WhyNoTOt

Please specify other reason

STRING [100]

(Introduction to Transport Difficulties Section)

### Intdiff

I am now going to ask you some questions about

Transport Difficulties.

(Ask if: WkTraNew = car/van OR motorbike/moped/scooter (options 1 to 4))

### CarW

I am now going to ask a few questions about how easy or difficult you find it to make different types of journeys, and why. Do you usually experience any difficulties with travelling to or from work by ^ (method selected in question 'WkTraNew')

IF YES, PROBE: What difficulties?

CODE ALL THAT APPLY:

- (1) No, no difficulties {exclusive code}
- (2) Too far/long journey
- (3) Cost of petrol
- (4) Lack of parking facilities
- (5) Cost of parking
- (6) Personal disability
- (7) Concerns over personal safety
- (8) Traffic congestion/roadworks
- (9) The weather
- (10) Other (specify)

(Ask if: CarW = other)

### XCarW

Please specify other answer:

STRING [60]

(Ask if: More than one option selected in CarW)

### CarWM

And which one of these things creates most difficulty?

CODE ONE ONLY

- (1) No, no difficulties {exclusive code}
- (2) Too far/long journey
- (3) Cost of petrol
- (4) Lack of parking facilities
- (5) Cost of parking
- (6) Personal disability
- (7) Concerns over personal safety
- (8) Traffic congestion/roadworks
- (9) The weather
- (10) Other (specify)

(Ask if: CarWM = other)

### XCarWM

Please specify other answer:

STRING [60]

(Ask if: WkTraNew = car/van OR motorbike/moped/scooter (options 1 to 4))

### CarWEas

Suppose for some reason you could not use a ^ (method selected in question 'WkTraNew') for travelling to or from work. How easy or difficult would it be to make this journey some other way? If the journey

is more difficult one way than the other (e.g. can get bus there but no bus for return journey), code for most difficult journey.

**RUNNING PROMPT**

- (1) Very easy
- (2) Quite easy
- (3) Neither easy nor difficult
- (4) Quite difficult
- (5) Very difficult

*(Ask if: CarWEas = Quite or Very difficult)*

**CarWY**

Why would this be difficult?

CODE ALL THAT APPLY:

- (1) Too far/long journey
- (2) Journey not possible by public transport
- (3) Unreliable public transport
- (4) Cost of using public transport/taxis
- (5) Poor information about public transport services
- (6) Poor connections
- (7) Finds public transport unpleasant
- (8) Personal disability
- (9) Concerns over personal safety
- (10) Traffic congestion/roadworks
- (11) Difficulties with dropping other people off on the way
- (12) The weather
- (13) Other (specify)

*(Ask if: CarWY = other)*

**XCarWY**

Please specify other answer:

STRING [60]

*(Ask if: More than one option selected in CarWY)*

**CarWYM**

And which one of these things would create most difficulty for you?

CODE ONE ONLY

- (1) Too far/long journey
- (2) Journey not possible by public transport
- (3) Unreliable public transport
- (4) Cost of using public transport/taxis
- (5) Poor information about public transport services
- (6) Poor connections
- (7) Finds public transport unpleasant
- (8) Personal disability
- (9) Concerns over personal safety
- (10) Traffic congestion/roadworks
- (11) Difficulties with dropping other people off on the way
- (12) The weather
- (13) Other (specify)

*(Ask if: CarWYM = other)*

**XCarWYM**

Please specify other answer:

STRING [60]

*(Ask if: WkTravNew = bicycle OR bus OR train OR taxi OR walk OR other (options 5 to 10))*

**OthW**

I am now going to ask a few questions about how easy or difficult you find it to make different types of journeys, and why. Do you usually experience any difficulties with travelling to or from work by ^ (method selected in question 'WkTraNew')?

IF YES, PROBE: What difficulties?

CODE ALL THAT APPLY:

- (1) No, no difficulties, {exclusive code}
- (2) Too far/long journey
- (3) Journey not possible by public transport
- (4) Unreliable public transport
- (5) Cost of using public transport/taxis
- (6) Poor information about public transport services
- (7) Poor connections
- (8) Finds public transport unpleasant
- (9) Personal disability
- (10) Concerns over personal safety
- (11) Traffic congestion/roadworks
- (12) The weather
- (13) Other (specify)

*(Ask if: OthW = other)*

**XOthW**

Please specify other answer:

STRING [60]

*(Ask if: More than one option selected in OthW)*

**OthWM**

And which one of these things creates most difficulty?

CODE ONE ONLY:

- (1) No, no difficulties, {exclusive code}
- (2) Too far/long journey
- (3) Journey not possible by public transport
- (4) Unreliable public transport
- (5) Cost of using public transport/taxis
- (6) Poor information about public transport services
- (7) Poor connections
- (8) Finds public transport unpleasant
- (9) Personal disability
- (10) Concerns over personal safety
- (11) Traffic congestion/roadworks
- (12) The weather
- (13) Other (specify)



(Ask if: OthWM = Other)

**XOthWM**

Please specify other answer:

STRING [60]

(Ask if: WkTraNew ≠ car/van and household has at least 1 car available and respondent has full driving licence)

**CarWN**

(Does/Do any of) your household's car/van(s) usually stay at home, unused, while you are at work?

IF UNUSED, PROBE: Are you insured to drive it?:

- (1) No, (all) car(s) usually in use by others
- (2) Car(s) unused, but respondent not insured to drive it
- (3) Car unused and respondent is insured to drive it

(Ask if: CarWN = option 3)

**CarWNY**

What are the reasons you don't use the car to get to or from work?

CODE ALL THAT APPLY:

- (1) Quicker by (^answer in 'WkTraNew')
- (2) Cheaper by (^answer in 'WkTraNew')
- (3) Enjoys using (^answer in 'WkTraNew')
- (4) Healthier to use (^answer in 'WkTraNew')
- (5) Can work/rest/read on train/bus etc.
- (6) Too far/long journey
- (7) Don't have current driving licence/can't drive
- (8) Don't like driving
- (9) Cost of petrol
- (10) Lack of parking facilities
- (11) Cost of parking
- (12) Personal disability
- (13) Concerns over personal safety
- (14) Traffic congestion/roadworks
- (15) Environmental concerns
- (16) Other (specify)

(Ask if: CarWNY = other)

**XCarWNY**

Please specify other answer:

STRING [60]

(Ask if: More than one option selected in CarWNY)

**CarWNYM**

And what is the main reason?

CODE ONE ONLY:

- (1) Quicker by (^answer in 'WkTraNew')
- (2) Cheaper by (^answer in 'WkTraNew')
- (3) Enjoys using (^answer in 'WkTraNew')
- (4) Healthier to use (^answer in 'WkTraNew')
- (5) Can work/rest/read on train/bus etc.

(6) Too far/long journey

(7) Don't have current driving licence/can't drive

(8) Don't like driving

(9) Cost of petrol

(10) Lack of parking facilities

(11) Cost of parking

(12) Personal disability

(13) Concerns over personal safety

(14) Traffic congestion/roadworks

(15) Environmental concerns

(16) Other (specify)

(Ask if: CarWNYM = other)

**XCarWNYM**

Please specify other answer:

STRING [60]

(Ask if: More than 1 person recorded in the household grid)

**WhoShop**

(I'm now going to ask a few questions about how easy or difficult you find it to make different types of journeys, and why, but first)

Can I just check...Do you usually do your main food shopping or would someone else in the household do this?

IF THIS IS DONE JOINTLY, THEN ONLY RECORD THE INFORMATION FOR ONE OF THE JOINT SHOPPERS, I.E. ANSWER YES FOR ONE OF THE RESPONDENTS AT THIS QUESTION AND NO FOR THE OTHER(S):

- (1) Yes, main food shopper
- (2) Not the main food shopper

(Ask if: Only 1 person in h'hold OR WhoShop = Yes)

**TravSh**

How do you usually travel when you do your main food shopping?

CODE ONE ONLY, FOR THE LONGEST PART, BY DISTANCE, OF THE RESPONDENT'S USUAL JOURNEY TO THE SHOPS. IF DIFFERENT METHOD TO GET TO SHOPS AND RETURN HOME, CODE METHOD TO GET HOME. IF NO USUAL METHOD, ASK ABOUT THE LAST TIME:

- (1) Train
- (2) Bus, minibus or coach
- (3) Motorcycle, scooter or moped
- (4) Car or van
- (5) Taxi/minicab
- (6) Bicycle
- (7) On foot
- (8) Does shopping online/ shopping is delivered/ shopping done by friend, relative or carer
- (97) Other (specify)

(Ask if: TravSh = other)

**XTravSh**

Please specify other answer:

STRING [60]

(Ask if: TravSh = Car OR Motorbike)

**CarS**

Do you usually experience any difficulties with travelling by ^(method selected at question 'TravSh') when you do your main food shopping?

IF YES, PROBE: What difficulties?

CODE ALL THAT APPLY:

- (1) No, no difficulties {exclusive code}
- (2) Too far/long journey
- (3) Cost of petrol
- (4) Lack of parking facilities
- (5) Cost of parking
- (6) Personal disability
- (7) Concerns over personal safety
- (8) Traffic congestion/roadworks
- (9) The weather
- (10) Other (specify)

(Ask if: CarS = other)

**XCarS**

Please specify other answer:

STRING [60]

(Ask if: More than one option selected in CarS)

**CarSM**

And which one of these things creates most difficulty?

CODE ONE ONLY

- (1) No, no difficulties {exclusive code}
- (2) Too far/long journey
- (3) Cost of petrol
- (4) Lack of parking facilities
- (5) Cost of parking
- (6) Personal disability
- (7) Concerns over personal safety
- (8) Traffic congestion/roadworks
- (9) The weather
- (10) Other (specify)

(Ask if: CarSM = other)

**XCarSM**

Please specify other answer:

STRING [60]

(Ask if: TravSh = Car OR Motorbike)

**CarSEas**

Suppose for some reason you could not use a ^(method selected in question 'TravSh') for your main food shopping, how easy or difficult do you think it would be to make this journey some other way? If the journey is more difficult one way than the other

(e.g. can get bus there but no bus for return journey), code for most difficult journey.

RUNNING PROMPT

- (1) Very easy
- (2) Quite easy
- (3) Neither easy nor difficult
- (4) Quite difficult
- (5) Very difficult

(Ask if: CarSEas = Quite or Very difficult)

**CarSY**

Why would this be difficult?

CODE ALL THAT APPLY:

- (1) Too far/long journey
- (2) Journey not possible by public transport
- (3) Unreliable public transport
- (4) Cost of using public transport/taxis
- (5) Poor information about public transport services
- (6) Poor connections
- (7) Finds public transport unpleasant
- (8) Personal disability
- (9) Concerns over personal safety
- (10) Traffic congestion/roadworks
- (11) Difficulties carrying the shopping
- (12) Difficulties managing with children
- (13) The weather
- (14) Other (specify)

(Ask if: CarSY = other)

**XCarSY**

Please specify other answer:

STRING [60]

(Ask if: More than one option selected in CarSY)

**CarSYM**

And which one of these things would create most difficulty for you?

CODE ONE ONLY:

- (1) Too far/long journey
- (2) Journey not possible by public transport
- (3) Unreliable public transport
- (4) Cost of using public transport/taxis
- (5) Poor information about public transport services
- (6) Poor connections
- (7) Finds public transport unpleasant
- (8) Personal disability
- (9) Concerns over personal safety
- (10) Traffic congestion/roadworks
- (11) Difficulties carrying the shopping
- (12) Difficulties managing with children
- (13) The weather
- (14) Other (specify)

(Ask if: CarSYM = other)

**XCarSYM**

Please specify other answer:

STRING [60]

(Ask if: TravSh = Train OR Bus OR Taxi OR Bicycle OR Foot OR Other)

**OthS**

Do you usually experience any difficulties with travelling by ^(method selected at question 'TravSh') when you do your main food shopping?

IF YES, PROBE: What difficulties?

CODE ALL THAT APPLY:

- (1) No, no difficulties {exclusive code}
- (2) Too far/long journey
- (3) Journey not possible by public transport
- (4) Unreliable public transport
- (5) Cost of using public transport/taxis
- (6) Poor information about public transport services
- (7) Poor connections
- (8) Finds public transport unpleasant
- (9) Personal disability
- (10) Concerns over personal safety
- (11) Traffic congestion/roadworks
- (12) Difficulties carrying the shopping
- (13) Difficulties managing with children
- (14) The weather
- (15) Other (specify)

(Ask if: OthS = other)

**XothS**

Please specify other answer:

STRING [60]

(Ask if: More than one option selected in OthS)

**OthSM**

And which one of these things creates most difficulty?

CODE ONE ONLY:

- (1) No, no difficulties {exclusive code}
- (2) Too far/long journey
- (3) Journey not possible by public transport
- (4) Unreliable public transport
- (5) Cost of using public transport/taxis
- (6) Poor information about public transport services
- (7) Poor connections
- (8) Finds public transport unpleasant
- (9) Personal disability
- (10) Concerns over personal safety
- (11) Traffic congestion/roadworks
- (12) Difficulties carrying the shopping
- (13) Difficulties managing with children

(14) The weather

(15) Other (specify)

(Ask if: OthSM = other)

**XothSM**

Please specify other answer:

STRING [60]

(Ask if: TravSh ≠ car and household has at least 1 car available and respondent has a car and a full driving licence)

**CarSN**

(Does/Do any of) your car/van(s) usually stay at home, unused, while you do the main food shopping?

IF UNUSED, PROBE: Are you insured to drive it?

- (1) No, (all) car(s) usually in use by others
- (2) Car(s) unused, but respondent not insured to drive it
- (3) Car unused and respondent is insured to drive it

(Ask if: CarSN = option 3)

**CarSNY**

What are the reasons you don't use the car for your main food shopping?

CODE ALL THAT APPLY:

- (1) Quicker by (^answer in 'TravSh')
- (2) Cheaper by (^answer in 'TravSh')
- (3) Enjoys using (^answer in 'TravSh')
- (4) Healthier to use (^answer in 'TravSh')
- (5) Can work/rest/read on train/bus etc.
- (6) Too far/long journey
- (7) Don't have current driving licence/can't drive
- (8) Don't like driving
- (9) Cost of petrol
- (10) Lack of parking facilities
- (11) Cost of parking
- (12) Personal disability
- (13) Concerns over personal safety
- (14) Traffic congestion/roadworks
- (15) Environmental concerns
- (16) Other (specify)

(Ask if: CarSNY = other)

**XCarSNY**

Please specify other answer:

STRING [60]

(Ask if: More than one option selected in CarSNY)

**CarSNYM**

And what is the main reason?

CODE ONE ONLY:

- (1) Quicker by (^answer in 'TravSh')
- (2) Cheaper by (^answer in 'TravSh')
- (3) Enjoys using (^answer in 'TravSh')
- (4) Healthier to use (^answer in 'TravSh')
- (5) Can work/rest/read on train/bus etc.
- (6) Too far/long journey
- (7) Don't have current driving licence/can't drive
- (8) Don't like driving
- (9) Cost of petrol
- (10) Lack of parking facilities
- (11) Cost of parking
- (12) Personal disability
- (13) Concerns over personal safety
- (14) Traffic congestion/roadworks
- (15) Environmental concerns
- (16) Other (specify)

(Ask if: CarSNYM = other)

### **XCarSNYM**

Please specify other answer:

STRING [60]

(Ask if: IndQn1 = tele OR proxy)

### **Gencycl**

The next few questions are about cycling. Excluding exercise bikes, do you...

RUNNING PROMPT

- (1) Own a bicycle yourself
- (2) Have use of a bicycle owned by someone else in the household
- (3) Have use of a bicycle owned by someone else outside the household
- (4) Have no use of a bike?

(Ask if: IndQn1 = tele OR proxy)

### **Cyc**

Have you ridden a bicycle during the last 12 months, that is since (date 12 months ago)?

- (1) Yes
- (2) No
- (3) Don't know/Can't remember

Ask if: (IndQn1 = tele) AND (Age > 15) AND (Cyc = No)

### **CYCNO** (answer options updated in 2021)

Can you tell me what, if anything, has discouraged you from cycling in the last 12 months?

DO NOT PROMPT. PROBE FOR ANY OTHERS. CODE ALL THAT APPLY

- (1) Don't own/ have access to a bicycle
- (2) My health or mobility makes cycling difficult or impossible
- (3) Heavy traffic

- (4) Motorists driving without consideration of cyclists e.g. speeding or dangerous overtaking
- (5) Cycle lanes not kept clear e.g. parked cars, roadworks
- (6) Lack of cycle lanes/ poor cycling infrastructure
- (7) Poor road conditions, e.g. potholes
- (8) Takes too long - the car is quicker
- (9) Personal safety - I don't feel safe cycling
- (10) No room to carry things on bicycle (e.g. shopping, work related items)
- (11) Cycling takes too much effort/ I'm not fit enough
- (12) Bad weather
- (13) I have no interest in cycling
- (14) I don't feel confident cycling
- (15) No secure facilities to park bike at destination
- (16) Difficulties managing with children
- (17) Poor lighting on roads at night
- (18) I need to look smart when I arrive (i.e. lack of changing/ showering facilities at destination)
- (19) I don't have enough free time to cycle
- (20) Other (please specify)
- (21) Nothing specifically has discouraged me from cycling (SPONTANEOUS)

Ask if: (CYCNO = Other)

### **CYCNOOTH** (added in 2019)

Please specify other answer:

STRING [100]

(Ask if: Cyc = Yes)

### **CYCOFT**

How often have you cycled either for leisure or with a purpose (e.g. travelling to work)?

PLEASE INCLUDE ALL CYCLE JOURNEYS WHETHER FOR LEISURE OR WITH A PURPOSE. ONLY INCLUDE TRAVEL WITHIN NORTHERN IRELAND. IF RESPONDENT CYCLES EVERY WORKING DAY/SCHOOL DAY BUT NOT WEEKENDS THEN CODE AS EVERY DAY. ONLY COUNT JOURNEYS WHERE BICYCLE IS RIDDEN INDEPENDENTLY, I.E. DO NOT COUNT RIDING ON A CHILD SEAT OR BICYCLE ATTACHED TO AN ADULTS.

RUNNING PROMPT

- (1) Every day
- (2) At least once a week
- (3) At least once every 2-3 weeks
- (4) At least once a month
- (5) Once every 2-3 months
- (6) Once every 6 months
- (7) Once a year
- (8) Varies according to time of year – SPONTANEOUS

(Ask if: Cyc = Yes)

**Where**

Which of the following best describes the type of route you usually took when you cycled in the last 12 months?

**RUNNING PROMPT**

- (1) Mainly on the road
- (2) Mainly on pavements, cycle paths or cycle lanes that were not part of a road
- (3) Mainly off the road in parks, open country, or private land
- (4) On a variety of different surfaces
- (5) Don't know/Can't remember

(Ask if: (IndQn1 = tele) AND (Age > 15) AND (Cyc = Yes))

**CYCMORE**

What, if anything, would encourage you to cycle more often?

DO NOT PROMPT. PROBE FOR ANY OTHERS.  
CODE ALL THAT APPLY

- (1) Living closer to services
- (2) More cycle lanes
- (3) Cycle lanes separated from roads
- (4) Safer cycling routes (e.g. more markings, signs to distinguish cycle lanes)
- (5) More pleasant cycling routes (e.g. greenways, by the river)
- (6) Keeping cycle lanes clear (e.g. no parked cars)
- (7) Less traffic
- (8) Slower traffic
- (9) Motorists who are more considerate to cyclists (e.g. taking more care when overtaking)
- (10) Better maintained roads
- (11) Better lighting on roads at night
- (12) Better weather
- (13) More bicycle docks so bicycle can be secured
- (14) Changing and showering facilities at destination
- (15) If I did not have things to carry
- (16) If I did not have children with me
- (17) If I was not worried about crime/personal safety
- (18) Time of year e.g. I cycle more often during summer
- (19) Other (please specify)
- (20) I already cycle as much as I can
- (21) Nothing would encourage me to cycle more often

(Ask if: CYCMORE = other)

**MOREOTH**

Please specify other answer:

STRING [100]

(Ask if: (IndQn1 = tele) AND (Age > 15) AND (Cyc = Yes))

**CYCNSAFE**

Which situations, if any, make you feel unsafe when cycling on the road?

DO NOT INCLUDE OFF ROAD CYCLING. IF THE RESPONDENT ONLY CYCLES OFF ROAD. CODE 1 NEVER CYCLE ON THE ROAD, OPTION 16.

DO NOT PROMPT. PROBE FOR ANY OTHERS.  
CODE ALL THAT APPLY

- (1) Heavy traffic e.g. rush hour traffic
- (2) Normal traffic even if travelling within the speed limit
- (3) Traffic travelling above the speed limit
- (4) Buses or lorries
- (5) Motorists driving without consideration of cyclists (e.g. dangerous overtaking)
- (6) If road condition is poor (e.g. potholes)
- (7) Narrow roads
- (8) Roadworks
- (9) If the roads are not well lit at night
- (10) Not enough cycle lanes
- (11) Cycle lanes not kept clear (e.g. parked cars)
- (12) Bad weather (e.g. wet or windy conditions)
- (13) Worry about crime/personal safety
- (14) Other (please specify)
- (15) I always feel safe cycling on the road
- (16) I never cycle on the road

(Ask if: CYCNSAFE = other)

**SAFEOTH**

Please specify other answer:

STRING [100]

(Ask to All)

**WALKOFT**

I would now like to ask you a few questions about walking. How often do you walk anywhere for 20 minutes or more, that is, walking either for leisure or with a purpose (e.g. to go to the shops)?

PLEASE INCLUDE ALL WALKS WHETHER FOR LEISURE OR WITH A PURPOSE. ONLY INCLUDE TRAVEL WITHIN NORTHERN IRELAND. IF RESPONDENT WALKS 20 MINUTES EVERY WORKING DAY/SCHOOL DAY BUT NOT WEEKENDS THEN CODE AS EVERY DAY.

**RUNNING PROMPT**

- (1) Every day
- (2) At least once a week
- (3) At least once every 2-3 weeks
- (4) At least once a month
- (5) Once every 2-3 months
- (6) Once every 6 months
- (7) Once a year
- (8) Less frequently
- (9) Never
- (10) Varies according to time of year (SPONTANEOUS)

(Ask if: (IndQn1 = tele) AND (Age > 15) AND (WalkOff <> Never))

**WALKENC**

Can you tell me what, if anything, would encourage you to walk more often?

DO NOT PROMPT. PROBE FOR ANY OTHERS.

CODE ALL THAT APPLY

- (1) Living closer to services
- (2) More footpaths
- (3) Wider footpaths
- (4) Better maintained footpaths
- (5) More pleasant footpaths (e.g. greenways, by the river)
- (6) Better lighting on footpaths at night
- (7) Only pedestrians allowed on footpaths (e.g. no cyclists, skateboarders or scooters allowed)
- (8) More pedestrian only zones (no traffic allowed)
- (9) More pedestrian crossings
- (10) Keeping footpaths clear (e.g. no parked cars)
- (11) Less traffic
- (12) Slower traffic
- (13) Motorists who are more considerate to pedestrians (e.g. slowing down if pedestrian is crossing the road)
- (14) Better weather
- (15) Someone else to walk with
- (16) If I did not have things to carry
- (17) If I did not have children with me
- (18) If I was not worried about crime/personal safety
- (19) Time of year e.g. I walk more often during summer
- (20) If I did not have health issues
- (21) If I had more time
- (22) Cleaner footpaths free of dog fouling
- (23) If dogs were kept under control (e.g. on a lead)
- (24) Other (please specify)
- (25) I already walk as much as I can
- (26) Nothing would encourage me to walk more often

(Ask if: WALKENC = other)

**WALKENCO**

Please specify other answer  
STRING [100]

(Ask if: (IndQn1 = tele) AND (Age > 15) AND NOT (WalkOff = Never OR Less Frequently))

**WALKNSAF**

Which situations, if any, make you feel unsafe when walking by the road?

DO NOT PROMPT. PROBE FOR ANY OTHERS.

CODE ALL THAT APPLY

- (1) Heavy traffic e.g. rush hour traffic

- (2) Normal traffic even if travelling within the speed limit
- (3) Traffic travelling above the speed limit
- (4) Motorists driving without consideration of pedestrians (e.g. not slowing down if pedestrian is crossing the road)
- (5) Narrow footpath
- (6) No footpath
- (7) If condition of footpath is poor (e.g. uneven surface)
- (8) If footpath is not well lit at night
- (9) Roadworks (e.g. footpath temporarily closed due to roadworks)
- (10) Cyclists, Scooters, Skateboarders on the footpath
- (11) If footpaths are not kept clear (e.g. parked cars)
- (12) Bad weather (e.g. wet or windy conditions)
- (13) Walking on my own especially at night
- (14) Worry about crime/personal safety
- (15) Health condition, illness or impairment (e.g. unable to hear/see traffic)
- (16) Dog fouling on footpaths
- (17) Dogs not kept under control (e.g. not on a lead/running loose)
- (18) Other (please specify)
- (19) I always feel safe when walking
- (20) I never walk by the road

(Ask if WALKNSAF = other)

**WALKOTH**

Please specify other answer:  
STRING [100]

(Ask if: IndQn1 = tele OR proxy)

**Genroadacc**

In the last 3 years, that is since (date 3 years ago), have you been in any type of road accident involving at least one vehicle, no matter how minor, in which you were injured in some way?

Please include any accidents in which you were involved as a pedestrian, driver, passenger, cyclist or motorcyclist, even if no other party was involved. Only include accidents that happened on a public road, including pavements and cycle lanes on the public road.

INTERVIEWER: DO NOT INCLUDE INCIDENTS WHERE THE RESPONDENT WAS ONLY A WITNESS.

CODE ONE ONLY (IF RESPONDENT UNSURE OF NUMBER OF ACCIDENTS CODE OPTION 2)

- (1) No - not involved in any road accidents in which injured in last 3 years
- (2) Yes - involved in one road accident in which injured in last 3 years
- (3) Yes - involved in more than one road accident in which injured on last 3 years

(Ask if: (IndQn1 = tele OR proxy) AND (Genroadacc = Yes one accident OR more than one accident))

**Accwhen**

Did this accident/any of these accidents in which you were injured occur in the last 12 months?

CODE ONE ONLY (IF RESPONDENT UNSURE OF NUMBER OF ACCIDENTS CODE OPTION 2):

- (1) No - not involved in any road accidents in which injured in last 12 months
- (2) Yes - involved in one road accident in which injured in last 12 months
- (3) Yes - involved in more than one road accident in which injured on last 12 months

(Ask if: (IndQn1 = tele) AND (Age > 15) AND (Genroadacc = Yes one accident OR more than one accident))

**Accrec**

I would now like to ask you some questions about the (most recent) road accident in which you were injured. Can I just check, as a result of your injuries, did you receive any medical attention in a hospital, at any time following the accident?

INTERVIEWER: CODE BOTH OPTIONS 2 AND 3 IF RESPONDENT ATTENDED ACCIDENT AND EMERGENCY AND WAS ALSO ADMITTED TO HOSPITAL

- (1) No, did not receive any medical attention in hospital
- (2) Yes, at accident and emergency
- (3) Yes, as an inpatient in hospital (at least one night spent on a hospital ward)

(Ask if: (IndQn1 = tele) AND (Age > 15) AND (Genroadacc = Yes one accident OR more than one accident))

**police**

Were the police aware of the accident?

CODE FIRST THAT APPLIES:

- (1) Yes, they attended the scene of the accident
- (2) Yes, it was reported to the police at some point after the accident
- (3) No

(Ask if IndQn1 = tele OR proxy)

**Disabil**

This question asks you about any health conditions, illnesses or impairments you may have. Can I just check... Do you have any physical or mental health conditions or illnesses lasting or expected to last for 12 months or more?

- (1) Yes
- (2) No

(Ask if: Disabil = Yes)

**Disabil2**

Does your condition or illness/do any of your conditions or illnesses reduce your ability to carry-out

day-to-day activities?

- (1) Yes, a lot
- (2) Yes, a little
- (3) Not at all

(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15))

**relq2**

What is your religion?

- (1) No religion
- (2) Catholic
- (3) Presbyterian
- (4) Church of Ireland
- (5) Methodist
- (6) Baptist
- (7) Free Presbyterian
- (8) Brethren
- (9) Protestant - not specified
- (10) Christian - not specified
- (11) Buddhist
- (12) Hindu
- (13) Jewish
- (14) Muslim
- (15) Sikh
- (16) Any other religion

(Ask if: relq2= any other religion)

**relq2ot**

Please describe other religion:

STRING [250]

(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15))

**DEPEND1** (added in 2020)

Do you have responsibility for the care of a child?

- (1) Yes
- (2) No

(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15))

**DEPEND2** (added in 2020)

Do you have responsibility for the care of a person with a disability?

- (1) Yes
- (2) No

(Ask if: (IndQn1 = tele OR proxy) AND (Age > 15))

**DEPEND3** (added in 2020)

Do you have responsibility for the care of a dependant elderly person?

- (1) Yes
- (2) No

**SIDFtFQn** (sexual identity question) not asked in 2021 to maintain privacy as interviews conducted by telephone.

## Vehicle Questionnaire

*(Ask for each vehicle)*

### Intro

This is the vehicle section of the questionnaire.

You will be required to enter information for the ^bavail.noplveh vehicle(s) in the household.

*(Note that bavail refers to household questionnaire)*

*(Ask for each vehicle)*

**VehType** (answer options updated in 2021)

What type of vehicle is the ^Make ^Model?

RUNNING PROMPT

- (1) 4-wheel car
- (2) 3-wheel vehicle
- (3) Motorcycle/scooter (with or without sidecar)
- (4) Moped
- (5) Light van, landrover, jeep (or similar)
- (6) Other van or lorry
- (7) Minibus, motor caravan, dormobile, etc.
- (8) Other (Please specify)

*(Ask if: VehType = Other)*

**OthVeh** (added in 2021)

Please record other type of vehicle:

STRING [60]

*(Ask if: VehType = 4-wheel car)*

### Make

Enter description of the make of the vehicle.

TYPE THE FIRST 3 LETTERS OF THE MAKE TO BRING UP A LIST OF VEHICLES:

STRING [20]

*(Ask if: VehType = 4-wheel car)*

### Model

ENTER DESCRIPTION OF THE MODEL,

E.G. FIESTA, CLIO, MICRA:

STRING [20]

*(Ask if: VehType <> 4-wheel car)*

### maketxt

Could you tell me the make and model of this vehicle

STRING [30]

*(Ask for each vehicle)*

### Mdriver

Who is the owner/main driver of the ^Make ^Model?

STRING [20]

*(Recorded for each vehicle if make/model given and code available – in general, codes only available for VehType = 4-wheel car)*

### Carcode

Code number for car

1..995

*(Ask for each vehicle)*

### VehUse

CODE WHETHER the ^Make ^Model

- (1) Is in regular use
- (2) May begin to be used in the next month

*(Ask for each vehicle)*

### FuelTyp

What fuel does the ^Make ^Model's engine use?

- (1) Petrol (Includes lead free and two stroke)
- (2) Diesel
- (3) Electric vehicle
- (4) Other (Please specify)

*(Ask if: FuelTyp = Other)*

**OthFuel** (added in 2021)

Please record other type of fuel:

STRING [60]

*(Ask if: FuelTyp = Petrol)*

### Leaded

ASK OR RECORD

Is the petrol...

- (1) Always unleaded
- (2) Sometimes unleaded, sometimes leaded
- (3) Or always leaded?

*(Ask if: FuelTyp= Petrol OR Diesel OR Other OR Refusal OR Don't know)*

### LogBook

I need to obtain details about the ^Make ^Model which are given in the registration document (or log book).

- (1) Seen by interviewer
- (2) Consulted by respondent
- (3) Not seen /consulted

*(Ask if: FuelTyp= Petrol OR Diesel OR Other OR Refusal OR Don't know)*

### RegYear

ASK OR RECORD AND CHECK.

First of all, could you tell me the year in which the vehicle was first registered?

INTERVIEWER: ENTER YEAR HERE

1900..2050

*(Ask if: FuelTyp= Petrol OR Diesel OR Other OR Refusal OR Don't know)*

### EnSize

ASK OR RECORD AND CHECK

What is the size of the ^Make ^Model's engine in cc's?

(1 litre=1000cc)

PROBE IF ANSWER GIVEN TO NEAREST 100 cc

0..9997



(Ask if: Ensize = Don't know)

**BenSize**

Could you tell me is the engine size approximately 1000 cc or less (1 litre or less); over 1000 cc up to 2000 cc (over 1 litre up to 2 litres); or over 2000 cc (over 2 litres)?

PROBE:

IF 1000 CC OR LESS (1 LITRE OR LESS), READ OUT OPTIONS 1 TO 5

IF OVER 1000 CC UP TO 2000 CC (OVER 1 LITRE UP TO 2 LITRES), READ OUT OPTIONS 6 TO 9

IF OVER 2,000 CC (OVER 2 LITRES), READ OUT OPTIONS 10 TO 12

CODE ONE OPTION ONLY

CODE DON'T KNOW IF RESPONDENT UNABLE TO SELECT AN OPTION FROM 1 TO 12

- (1) Up to 50cc
- (2) 51-125cc
- (3) 126-250cc
- (4) 251-700cc
- (5) 701-1000cc (0.7 to 1 litre)
- (6) 1001-1300cc (1.0 to 1.3 litres)
- (7) 1301-1500cc (1.3 to 1.5 litres)
- (8) 1501-1800cc (1.5 to 1.8 litres)
- (9) 1801-2000cc (1.8 to 2.0 litres)
- (10) 2001-2500cc (2.0 to 2.5 litres)
- (11) 2501-3000cc (2.5 to 3.0 litres)
- (12) 3001cc and over (over 3 litres)

(Ask for each vehicle)

**AnMiles**

I would like to get a figure for the approximate annual mileage of the vehicle. Can you please estimate for me the total miles/kilometres the vehicle is driven in a year?

INTERVIEWER: IF DK ENCOURAGE ESTIMATE. IF NECESSARY, OBTAIN TO NEAREST THOUSAND. OBTAIN EXPECTED MILEAGE IF VEHICLE ACQUIRED LESS THAN A YEAR AGO. IF NIL ENTER 0

0..99999

(Ask if: Anmiles = Don't know)

**BAnMiles**

Could you tell me approximately how many miles in total this vehicle is driven in a year: under 5,000 miles; 5,000 miles to under 15,000 miles; 15,000 miles or more?

PROBE:

IF UNDER 5,000 MILES, READ OUT OPTIONS 1 TO 6

IF 5,000 MILES TO UNDER 15,000 MILES, READ OUT OPTIONS 7 TO 10

IF 15,000 MILES OR MORE, READ OUT OPTIONS 11 TO 14

CODE ONE OPTION ONLY

INTERVIEWER: IF DK ENCOURAGE ESTIMATE.

CODE DON'T KNOW IF RESPONDENT UNABLE TO SELECT AN OPTION FROM 1 TO 14

- (1) 0 - 499 miles
- (2) 500 - 999 miles
- (3) 1,000 - 1,999 miles
- (4) 2,000 - 2,999 miles
- (5) 3,000 - 3,999 miles
- (6) 4,000 - 4,999 miles
- (7) 5,000 - 6,999 miles
- (8) 7,000 - 8,999 miles
- (9) 9,000 - 11,999 miles
- (10) 12,000 - 14,999 miles
- (11) 15,000 - 17,999 miles
- (12) 18,000 - 20,999 miles
- (13) 21,000 - 29,999 miles
- (14) 30,000 miles and over

(Ask if: AnMiles = Response)

**KmOrMile**

INTERVIEWER ASK OR CODE: WAS THE ANSWER TO 'ANMILES' IN MILES OR KILOMETRES?

- (1) Miles
- (2) Kilometres

(Ask if: (Bavail.IchEmp = Yes) AND ((KmOrMile= Miles))

**UsualWk**

Can you please estimate how many of the total annual miles, if any, are driven by anyone in the household in getting to or from a usual place of work, either all of the way or part of the way?

IF NO USUAL PLACE OF WORK ENTER 0

0..99999

(Ask if: (Bavail.IchEmp = Yes) AND (KmOrMile = Km))

**UsualKm**

Can you please estimate how many of the total annual Kilometres, if any, are driven by anyone in the household in getting to or from a usual place of work, either all of the way or part of the way?

IF NIL ENTER 0

0..99999

(Ask if: (Bavail.IchEmp = Yes) AND ((KmOrMile= Miles))

**CoursWk**

Leaving aside these journeys, can you estimate how many of the total annual miles, if any, are driven by anyone in the household in the course of work?

IF NIL ENTER 0

0..99999

(Ask if: (Bavail.IchEmp = Yes) AND (KmOrMile = Km))

**CoursKm**

Leaving aside these journeys, can you estimate how

many of the total annual kilometres, if any, are driven by anyone in the household in the course of work  
IF NIL ENTER 0  
0..99999

*(Ask if: (Bavail.IchEmp = Yes) AND (KmOrMile= Miles) AND ((AnMiles = response) and (UsualWk=response) and (CoursWk = response)) AND (AnMiles >= (UsualWk + CoursWk)))*  
[THEN otherm := (AnMiles – UsualWk – CoursWk)]

**Othmile**

So that means that the vehicle is driven about ^otherm miles a year for all other journeys.  
ENTER THE NUMBER SHOWN IF CORRECT  
0..99999

*(Ask if: (Bavail.IchEmp = Yes) AND (KmOrMile = Km) AND ((AnMiles = response) and (UsualKm=response) and (CoursKm = response)) AND (AnMiles >= (UsualKm + CoursKm)))*  
[THEN otherkm := (AnMiles – UsualKm – CoursKm)]

**Othkm**

So that means that the vehicle is driven about ^otherkm kilometres a year for all other journeys.  
ENTER THE NUMBER SHOWN IF CORRECT  
0..99999

*(Ask for all vehicles in households with school-aged children)*

**Cartosc**

Is the ^Make ^Model used to take anyone in the household to school?  
(1) Yes  
(2) No

*(IF (usualwk > 0) OR (usualkm > 0) THEN Cartowk:= yes, ELSE Cartowk:= no)*  
PRE-CODED BY SYSTEM

**Cartowk**

Is the ^Make ^Model used to take anyone in the household to work?  
(1) Yes  
(2) No

*(Calculated if: Cartowk = Yes)*  
*(IF (coursewk > 0) OR (coursekm > 0) THEN Coursewk= yes, ELSE Coursewk:= no)*  
PRE-CODED BY SYSTEM

**Coursewk**

(May I check) is the ^Make ^Model used in the course of work by anyone in the household?  
(1) Yes  
(2) No

*(Ask if: cartowk:= yes)*

**Whpark**

Where is the ^Make ^Model usually parked during working hours?  
(1) Public car park  
(2) Private or firm's car park  
(3) Park 'n' ride scheme  
(4) Metred on street parking  
(5) In a non-payment area

*(Ask if: (cartowk = yes) and (whpark = public car park))*

**Paycont**

Is a daily rate paid or is it a contract parking space?  
(1) Daily rate  
(2) Contract space

*(Ask if: (cartowk = yes) AND (whpark is NOT in a non-payment area))*

**Whpay**

How much is usually paid for parking the ^Make ^Model?  
(1) Less than £1 or free  
(2) £1 - £2 per day  
(3) £2 - £5 per day  
(4) Over £5 per day  
(5) Don't know

*(Ask if: (cartowk:= yes) AND (whpark is NOT in a non-payment area))*

**Emppay**

Are any of your parking costs met by an employer?  
(1) Yes - all  
(2) Yes - some  
(3) No