## 2022-2023

## Bus Eireann Direct Award Contract - PSO Services

Reliability Report | Udaras Natisinnta Iompair |
| :---: |
| National Transport Authorty |

## Reliability Overview

Relibility is a KPD (Key Performance Indicator) of the performance of Bus éireann, as part of the terms of their PSO contract with the NTA. Further detais of the measurement of Reliability (which is sometimes referred to as "Lost Kilometre Rate)" are provided below.

## Measurement of Reliability:

Reliability of Bus Eireann services is determined using a metric called "Lost Kilometre Rate (\%)". This metric is calculated as follows.
Step 1:
Number of Lost Kilometres $(\mathbf{K m})=$ Total Scheduled Services $(\mathrm{Km})$ - Total Services Operated $(\mathrm{Km})$
Step 2:
Lost Kilometre Rate $(\%)=\left(\frac{\text { Number of Lost KM }(\mathrm{Km})}{\text { Total Scheduled Services }(\mathrm{Km})}\right) \times 100$

For 2017 \& 2018, Bus Éireann must have achieved a Lost Kilometre rate of $5 \%$ or less each period i.e. at least $95 \%$ of scheduled services must hav operated. If this target is not achieved, financial penalties will have applied.

For 2019, Bus Éireann must have achieved a Lost Kilometre rate of less than the following for each period; P1 - P5 (5\%), P6 - P7 (4\%), P8 - P9 (3\%) and P10 - P13 (2\%). If the period target is not achieved, financial penalties will have applied.
From Period 1 of 2020 , St Kilometre Minimum Performance Standards have aplied on a reute by route basis rather than an overal newrok basis Bus From Period 1 of 2020, Lost kilometre Minimum Performance Standards have applied on a route by route basis, rather than an overall newrok basis. Bus
Eireann are required to achieve a Lost Kilometre Rate of $2 \%$ or less for each route in each period (i.e. at least $98 \%$ of the scheduled kilometres must have

## Notes:

- The Total Scheduled Services is based on the route and timetable(s) for every Bus Éreann service, as agreed with the NTA under the current PSO ontract.
- The Total Services Operated is determined by the AVL (Automatic Vehicle Location) system which is installed on each bus to record the route and distances travelled.
- The Number of Lost Kilometres does not include bus services (whole or partial routes) which could not be operated for reasons outside of the control of Bus Éireann (for example, road closures due to a major event, extreme weather resulting in unsafe road conditions etc.). These exceptions are identified by Bus Eireann and approved by the NTA.
- COVID-19 Note - From 16/03/20 to the end of P1 2022, the Number of Lost Kilometres does not include bus services which could not be operated due to COVID-19 related staff ilness or HSE certified self-isolation. These exceptions are identified by Bus firreann and approved by the NTA
- As with many industries, public transport operators are experiencing significant challenges in recruiting qualified staff following the economic and social constraints connected to the coviD-19 pandemic. The public transport industry has been particularly hard-hit as operators attempt to return to pre-pandemic levels of activity as well as delivering intended service improvements such as the BusConnects Network Redesign and Connecting Ireland programmes. These issues are further exacerbated when existing staff must also be absent at short notice while following HSE suidelines after contracting COVID-19 or developing other illnesses. These challenges have an impact on Lost Kilometre Rates on all routes and also on Excess Waiting Times on high frequncy routes. The Authority and the operators have been working to try to ensure that such cancelations are minimised, that where possible consecutive services are not withdrawn and that first and last daily services on a route operate.
- As with many industries, public transport operators are experiencing significant challenges in recruiting qualified staff following the economic and social constraints connected to the COVID-19 pandemic. The public transport industry has been particularly hard-hit as operators attempt to return to pre-pandemic levels of activity as well as delivering intended service improvements such as the Busconnects Network Redesign and


## Q3 \& Q4 2023 <br> Bus Eireann Direct Award Contract - PSO Services Reliability Report <br> NTA <br> Udarás Náslílúna lompair National Transport Authority

P7 Lost Kms - June 19th 2023 - July 16th 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 0}$ | $\mathbf{2 \%}$ per Route |

P8 Reliability - July 17th $2023 \rightarrow$ August 13th 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 2}$ | $\mathbf{2 \%}$ per Route |

## P9 Reliability - August 14th $2023 \rightarrow$ September 10th 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 3}$ | $\mathbf{2 \%}$ per Route |

P10 Punctuality - September 11th $2023 \boldsymbol{\rightarrow}$ October 8th 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 3}$ | $\mathbf{2 \%}$ per Route |

P11 Punctuality - October 9th $2023 \rightarrow$ November 5th 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{3 . 2}$ | $\mathbf{2 \%}$ per Route |

## P12 Punctuality - November 6th $2023 \boldsymbol{\rightarrow}$ December 3rd 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 2}$ | $\mathbf{2 \%}$ per Route |

P13 Punctuality - December 4th $2023 \rightarrow$ December 31st 2023


## Q1 \& Q2 2023

Bus Éireann Direct Award Contract - PSO Services Reliability Report

P1 Reliability - January 1st $2023 \boldsymbol{\rightarrow}$ January 29th 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | 1.7 | $2 \%$ per Route |

P2 Reliability - January 30th $2023 \rightarrow$ February 26th 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{1 . 6}$ | $2 \%$ per Route |

P3 Reliability - February 27th $2023 \rightarrow$ March26thth 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{1 . 5}$ | $\mathbf{2 \%}$ per Route |

P5 Reliability - April 24th $2023 \rightarrow$ May 21st 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{1 . 5}$ | 2\% per Route |

P6 Reliability - May 22ndth $2023 \boldsymbol{\rightarrow}$ June 18th 2023

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{1 . 5}$ | 2\% per Route |

## Q3 \& Q4 2022 <br> Bus Éireann Direct Award Contract - PSO Services Reliability Report <br> NTA <br> Udarás Náslílúna lompair National Transport Authority

P7 Reliability - June 20th $2022 \boldsymbol{\rightarrow}$ July 17th 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 4}$ | $\mathbf{2 \%}$ per Route |

P8 Reliability - July 18th $2022 \rightarrow$ August 14th 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 2}$ | 2\% per Route |

## P9 Reliability - August 15th $2022 \rightarrow$ September 11th 2021

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{1 . 4}$ | $\mathbf{2 \%}$ per Route |

P10 Punctuality - September 12th $2022 \boldsymbol{\rightarrow}$ October 9th 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{1 . 6}$ | $\mathbf{2 \%}$ per Route |

P11 Punctuality - October 10th $2022 \rightarrow$ November 6th 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 1}$ | $\mathbf{2 \%}$ per Route |

## P12 Punctuality - November 7th $2022 \rightarrow$ December 4th 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{2 . 0}$ | $\mathbf{2 \%}$ per Route |

P13 Punctuality - December 5th $2022 \rightarrow$ December 31st 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{3 . 0}$ | $\mathbf{2 \%}$ per Route |

Q1 \& Q2 2022
Bus Éireann Direct Award Contract - PSO Services
Reliability Report

P1 Reliability - January 1st $2022 \rightarrow$ January 31st 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{0 . 4}$ | $\mathbf{2 \%}$ per Route |

P2 Reliability - February 1st $2022 \rightarrow$ February 28th 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{1 . 2}$ | $\mathbf{2 \%}$ per Route |

P3 Reliability - March 1st $2022 \rightarrow$ March 28th 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | $\mathbf{1 . 9}$ | $\mathbf{2 \%}$ per Route |

P5 Punctuality - April 25th $2022 \rightarrow$ May 22nd 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | 1.3 | $2 \%$ per Route |

P6 Punctuality - May 23rd 2022 - June 19th 2022

|  | KMs Lost (\%) | Minimum Performance <br> Standard (\%) |
| :---: | :---: | :---: |
| Total | 1.8 | $2 \%$ per Route |

## Bus Éireann Direct Award Contract - Lost Km \%



Lower Lost KM percentages are better as they reflect the percentage of scheduled kilometers that were not operated (excluding kilometres not operated due to factors outside the control of the *From Period 1 2020, reliability Minimum Performance Standards have applied on a route by route basis (2\% per route per period). More details are available in the reliability report.

| Route | P13 | $\mathrm{P}_{12}$ | $\mathrm{P}_{11}$ | P10 | P9 | P8 | ${ }^{\text {P7 }}$ | ${ }^{\text {P6 }}$ | ${ }^{\text {P }}$ | P4 | ${ }^{\text {P }}$ | $\mathrm{P}^{2}$ | $\mathrm{P}_{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 100 | 2.9\% | 3.1\% | 3.1\% | 1.1\% | 0.8\% | 0.5\% | 0.2\% | 0.7\% | 1.4\% | 0.8\% | 0.9\% | 1.9\% | 0.8\% |
| 101 | Noti in contrat | Notin contract | Not in contract | Not in contract | Notin contract | Notin contract | Notin contract | Noti in contrat | 1.1\% | 1.3\% | 2.9\% | 5.3\% | 4.2\% |
| 101X | Noti in contrat | Not in contract | Not in contract | Not in contrat | Not in contrat | Not in contrat | Notin contract | Not in contrat | 0.1\% | 0.3\% | 0.8\% | 1.2\% | 5.9\% |
| 103 | 3.2\% | 2.8\% | 7.6\% | 5.0\% | 5.3\% | 4.5\% | 3.3\% | 2.4\% | 3.8\% | 1.4\% | 2.0\% | 1.1\% | 2.6\% |
| 103X | 1.8\% | 0.0\% | 1.5\% | 2.8\% | 3.4\% | 1.6\% | 2.6\% | 2.7\% | 0.0\% | 3.1\% | 1.3\% | 1.6\% | 8.2\% |
| 105 | 1.2\% | 1.7\% | 2.4\% | 1.2\% | 2.3\% | 2.1\% | 1.2\% | 1.1\% | 1.6\% | 2.0\% | 1.7\% | 27\% | 迆 |
| 105x | 1.2\% | 2.0\% | 10.5\% | 6.7\% | 4.8\% | 1.7\% | 4.7\% | 1.9\% | 1.0\% | 3.4\% | 3.3\% | 2.2\% | 2.6\% |
| 107 | 0.3\% | 0.5\% | 1.2\% | 1.0\% | 0.7\% | 1.0\% | 0.5\% | 0.1\% | 0.8\% | 0.1\% | 0.9\% | 0.8\% | 2.8\% |
| 108 | 1.4\% | 0.7\% | 0.3\% | 1.3\% | 2.2\% | 0.7\% | 1.4\% | 2.4\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 109 | 4.0\% | 3.5\% | 7.1\% | 4.6\% | 5.7\% | 4.2\% | 3.4\% | 3.0\% | 3.6\% | 3.5\% | 2.8\% | 1.8\% | 2.8\% |
| 1098 | 4.3\% | 2.8\% | 3.1\% | 1.4\%\% | 2.9\% | ${ }^{1.12 \%}$ | 0.8\% | 0.4\% | 1.1\% | 1.3\% | 0.4\% | 0.3\% | 0.0\% |
| 1098 | 2.9\% | 0.9\% | 3.7\% | 1.2\% | 1.6\% | 1.2\% | 1.0\% | 2.0\% | 1.8\% | 1.2\% | 1.0\% | 1.5\% | 6.4\% |
| 109x | 1.5\% | 0.8\% | 2.4\% | 3.7\% | 1.9\% | 0.4\% | 2.1\% | 0.7\% | 2.3\% | 1.2\% | 1.1\% | 0.8\% | 1.1\% |
| 111 | 4.0\% | 0.7\% | 2.6\% | 1.7\% | 1.4\% | 2.1\% | 1.7\% | 1.1\% | 1.9\% | 0.7\% | 1.0\% | 2.2\% | 1.3\% |
| 111 A | 10.8\% | 12.5\% | 6.2\% | 3.2\% | 2.9\% | 1.4\% | 1.0\% | 2.5\% | 2.3\% | 0.6\% | 1.2\% | 2.3\% | 1.0\% |
| ${ }_{111 \times}$ | 8.3\% | 4.2\% | 5.7\% | 2.5\% | 6.4\% | 4.7\% | 3.2\% | 0.1\% | 0.0\% | 2.4\% | 1.8\% | 1.8\% | 3.7\% |
| ${ }_{115}^{115}$ | 3.6\% | 1.2\% | 4.4\% | 2.0\% | 2.0\% | 2.8\% | 1.3\% | 0.9\% | 1.8\% | 1.0\% | 0.7\% | 0.5\% | 1.6\% |
| 115 C | 1.1\% | 0.4\% | 0.7\% | 1.3\% | 0.6\% | 1.0\% | 2.5\% | 0.7\% | 2.6\% | 0.2\% | 1.1\% | 0.4\% | 0.4\% |
| 132 | 0.5\% | 0.0\% | 1.1\% | 0.3\% | 0.2\% | 1.7\% | 0.0\% | 1.0\% | 0.0\% | 0.0\% | 1.5\% | 0.0\% | 2.0\% |
| 133 | tin contr | Notin contr | Noti i contre | Notin contract | Notin contratt | Noti contract | Notin contract | Not in contrat | 0.9\% | 0.4\% | 0.1\% | 0.5\% | 0.5\% |
| ${ }^{1338}$ | in con | Noti in con | Noti con | Not in contrat | Noti in contrat | Noti contrat | Noti in contrat | Noti in contrat | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% |
| ${ }^{133 L}$ | in contr | Notin contract | Not in contract | Not in contract | Notin contract | Not in contract | Not in contract | Not in contract | 0.3\% | 0.3\% | 0.3\% | 0.5\% | 0.2\% |
| 133X | Notin contract | Notin contract | Noti contract | Not in contract | Notin contract | Notin contrat | Notin contract | Not in contract | 3.7\% | 3.3\% | 1.2\% | 0.1\% | 2.1\% |
| 134 <br> 135 <br> 1 | 0.0\% | 0.0\% | ${ }^{\text {0.0\% }}$ | 0.0\% | ${ }_{\text {250\% }}^{250 \%}$ | 250\% | ${ }^{25.0 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 135 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.0\% | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| ${ }^{136}$ | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 25.0\% | 25.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 160 | 3.1\% | 1.1\% | 3.5\% | 0.7\% | 1.4\% | 0.9\% | 0.5\% | 0.3\% | ${ }^{0.3 \%}$ | 0.7\% | ${ }^{1.0 \%}$ | ${ }^{\text {1.2\%\% }}$ | ${ }^{2.3 \%}$ |
| 161 | 5.4\% | 4.3\% | 3.6\% | 0.5\% | 1.1\% | 0.7\% | 1.7\% | 0.3\% | 0.8\% | 0.3\% | 0.2\% | 2.3\% | 0.0\% |
| 162 | 13.7\% | 0.0\% | 0.0\% | 2.5\% | 1.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% |
| 163 | No oata | No otata | No oata | No oata | No oata | No oata | No oata | 0.0\% | 0.0\% | 6.3\% | 11.3\% | 4.7\% | 1.7\% |
| ${ }_{166}^{166}$ | No ota | No otata | No oata | No otata | 5.6\% | 1.3\% | 0.5\% | 0.1\% | 1.1\% | 1.0\% | 0.1\% | 0.8\% | 3.4\% |
| 167 | 2.9\% | 0.3\% | 1.1\% | 0.8\% | 1.1\% | 0.8\% | 0.6\% | 0.3\% | 0.2\% | 0.4\% | 0.2\% | 1.9\% | 1.5\% |
| 168 | 2.2\% | 6.7\% | 2.2\% | 1.7\% | 2.4\% | 1.9\% | 0.8\% | 0.0\% | 1.8\% | 1.7\% | 1.1\% | 2.5\% | 2.4\% |
| 170 | 0.8\% | 0.6\% | 0.8\% | 0.9\% | 0.0\% | No ota | No Dota | No oata | No Data | No Data | No Data | No Data | No |
| 173 | 10.0\% | 2.8\% | 9.6\% | 4.4\% | 14.0\% | 3.4\% | 10.8\% | 0.3\% | 4.0\% | 1.2\% | 2.9\% | 3.6\% | 3.4\% |
| 174 | 7.9\% | 2.3\% | 3.9\% | 1.3\% | 2.0\% | 1.4\% | 3.0\% | 0.8\% | 0.9\% | 1.9\% | 1.5\% | 3.5\% | 2.6\% |
| 174A | 6.0\% | 4.4\% | 2.8\% | 0.5\% | 1.4\% | 0.9\% | 0.5\% | 0.5\% | 0.2\% | 0.4\% | 0.1\% | 1.6\% | 0.8\% |
| 1748 | 6.4\% | 4.3\% | 2.1\% | 1.0\% | 1.5\% | 0.6\% | 0.5\% | 0.4\% | 0.4\% | 0.8\% | 0.2\% | 1.5\% | 0.9\% |
| 175 | 2.8\% | 1.7\% | 1.0\% | 0.3\% | 2.6\% | 0.4\% | 0.4\% | 0.9\% | ${ }^{0.8 \%}$ | ${ }^{3.1 \%}$ | ${ }^{0.8 \% \%}$ | ${ }^{2.1 \%}$ | ${ }^{0.2 \%}$ |
| 175A | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 182 | ${ }^{2.3 \%}$ | 4.3\% | 0.0\% | 0.1\% | 0.3\% | 0.3\% | 1.0\% | 0.6\% | 0.9\% | 0.6\% | 1.4\% | ${ }^{3.3 \%}$ | 0.3\% |
| 182 A | 2.8\% | 0.7\% | 0.0\% | 0.4\% | 0.3\% | 1.1\% | 1.5\% | 0.4\% | 0.0\% | 0.3\% | 1.0\% | 0.8\% | 1.8\% |
| 187 | 3.8\% | 5.8\% | 3.5\% | 3.1\% | 0.8\% | 4.9\% | 1.7\% | 0.6\% | 2.8\% | 2.3\% | 0.2\% | 3.5\% | 1.3\% |
| 190 | 3.3\% | 1.2\% | 1.7\% | 2.5\% | 0.7\% | 1.4\% | 0.7\% | 3.6\% | ${ }_{2.2 \%}$ | 6.6\% | 5.0\% | 3.4\% | 3.1\% |
| 201 | 6.7\% | 2.5\% | 2.9\% | ${ }^{2.0 \%}$ | 0.0\% | 0.5\% | 0.0\% | 0.5\% | 0.4\% | 0.4\% | 1.9\% | 3.0\% | 0.4\% |
| 202 | 12.1\% | 10.5\% | 13.5\% | 5.9\% | 9.0\% | 10.4\% | 7.5\% | 6.4\% | 4.0\% | 4.6\% | 3.2\% | 2.8\% | 2.6\% |
| 2028 | 135\% | 10.1\% | 12.4\% | 4.8\%\% | 7.3\% | 11.7\% | 7.4\% | 5.5\% | 3.1\% | 5.4\% | 4.1\% | 2.2\% | 4.3\% |
| 203 | 9.8\% | 4.6\% | 7.5\% | 3.1\% | 6.4\% | 5.7\% | 3.7\% | 1.6\% | 1.7\% | 2.0\% | 1.3\% | 2.2\% | 1.5 |
| 205 | 8.9\% | 5.6\% | 6.4\% | 1.4\% | 2.9\% | 3.8\% | 4.1\% | 1.4\% | 0.7\% | 1.0\% | 0.7\% | 1.3\% | 0.9\% |
| 206 | 6.8\% | 4.4\% | 5.5\% | 1.8\% | 2.5\% | 1.1\% | 1.7\% | 1.4\% | 0.3\% | 0.3\% | 0.7\% | 0.1\% | 0.7\% |
| 207 | 8.5\% | 6.4\% | 6.9\%\% | 2.3\% | ${ }^{2.6 \%}$ | ${ }^{2.9 \%}$ | 2.5\% | 1.6\% | 0.5\% | 1.0\% | 0.7\% | 0.4\% | 0.5\% |
| 207 A | 6.5\% | 3.4\% | 3.8\% | 0.5\% | 1.1\% | 1.3\% | 0.3\% | 0.5\% | 0.0\% | 0.1\% | 0.7\% | 1.0\% | 0.4\% |
| 208 | ${ }^{14.3 \%}$ | ${ }_{\text {7.1\% }}$ | ${ }^{8.9 \%}$ | ${ }^{3.8 \%}$ | ${ }^{6.5 \%}$ | 7.7\%\% | ${ }_{6}^{6.8 \%}$ | ${ }^{3.5 \%}$ | ${ }^{2.0 \%}$ | ${ }_{\text {2, }}^{\text {2, }}$ | ${ }^{2.0 \%}$ | ${ }_{\text {20, }}$ | 2.5\% |
| 209 | 9.4\% | 5.1\% | ${ }^{0.1 \%}$ | 0.0\% | 0.0\% | 1.7\% | 0.0\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 1.5\% | 0.0\% |
| 2098 | ${ }^{8.4 \%}$ | 4.6\% | 5.2\% | 0.0\% | 0.1\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.9\% |
| ${ }_{2}^{212}$ | 2.5\% | 1.2\% | 1.0\% | 0.8\% | 0.4\% | 0.9\% | 2.0\% | 0.4\% | 0.4\% | 0.6\% | 0.1\% | 0.2\% | 0.0\% |
| ${ }^{213}$ | 6.2\% | 1.8\% | 4.7\% | 2.5\% | 1.5\% | 1.8\% | $1.4 \%$ | 0.2\% | 0.4\% | 0.3\% | 0.3\% | 2.6\% | 0.0\% |
| 214 | 7.5\% | 5.6\% | 5.5\% | 1.8\% | 3.0\% | 3.2\% | 5.5\% | 1.9\% | 1.8\% | 1.5\% | 0.4\% | 1.0\% | 0.8\% |
| 215 | 6.4\% | 3.9\% | 4.0\% | 1.6\% | 3.7\% | 2.6\% | 2.5\% | 1.5\% | 0.9\% | 0.6\% | 0.7\% | 0.9\% | 0.8\% |
| 2158 | 9.5\% | 3.1\% | 2.3\% | 2.0\% | 0.3\% | 0.7\% | 0.7\% | 0.6\% | 0.5\% | 1.2\% | 0.3\% | 0.3\% | 0.6\% |
| 226 | 112.2\% | 5.0\% | 6.6\% | 2.1\% | 3.9\% | 2.4\% | 3.2\% | 2.0\% | 1.9\% | 1.0\% | 0.3\% | 1.7\% | 0.6\% |
| 219 | 0.2\% | 0.2\% | 0.3\% | 0.0\% | 0.3\% | 0.4\% | 1.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 220 | 10.9\% | 6.5\% | 8.8\% | 2.7\% | 4.8\% | 7.9\% | ${ }^{6.2 \%}$ | 4.0\% | 2.5\% | 3.3\% | 1.9\% | 2.0\% | 2.5\% |
| $\frac{220 x}{223}$ | 5.0\%\% | 2.3\% | ${ }_{\substack{3.1 \% \\ 3.7 \%}}$ | 0.5\% | ${ }^{1.7 \% \%}$ | ${ }_{\text {l }}^{\text {1.8\% }}$ | ${ }_{0}^{0.4 \%}$ | ${ }_{0}^{2.0 \% \%}$ | ${ }_{\text {l }}^{\text {0.2\% }}$ | ${ }_{0.1 \%}^{1.2 \%}$ | ${ }_{0}^{0.7 \% \%}$ | ${ }_{0}^{2.0 \%}$ | ${ }_{\text {l }}^{1.3 \%}$ |
| ${ }_{223} 2$ | 2.1\% | 0.0\% | 1.8\% | 0.0\% | 0.0\% | 1.8\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 225 | 7.3\% | 4.1\% | 2.1\% | 2.1\% | 0.6\% | 2.2\% | 3.5\% | 0.5\% | 0.5\% | 1.1\% | 0.8\% | 1.1\% | 1.1\% |
| ${ }^{2255}$ | 10.4\% | 0.8\% | 1.3\% | 0.0\% | 2.0\% | 2.0\% | 0.0\% | 0.3\% | 1.5\% | 0.0\% | 0.9\% | 0.6\% | 0.2\% |
| 226 | 4.9\% | 1.7\% | 1.0\% | 0.3\% | 0.1\% | 0.2\% | 0.6\% | 0.2\% | 0.0\% | 0.0\% | 0.1\% | 0.3\% | 0.0\% |
| ${ }^{2268}$ | 17.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | No oata | 0.0\% | 8.4\% | 1.1\% | 0.6\% | 10.5\% | 0.0\% | 5.3\% |
| ${ }_{2}^{233}$ | 1.4\% | 0.4\% | 1.6\% | 0.6\% | 0.2\% | 0.5\% | 0.8\% | 0.3\% | 0.0\% | 0.7\% | 0.2\% | 0.9\% | 0.2\% |
| 235 | 0.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| ${ }^{236}$ | 0.1\% | 0.6\% | 0.4\% | 0.0\% | 0.3\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.8\% | 0.0\% |
| ${ }_{2} 23$ | 0.6\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.1\% | 0.2\% | 0.2\% | 0.1\% | 0.8\% | 0.2\% |
| 239 | 1.9\% | 0.8\% | 1.3\% | 0.0\% | 0.3\% | 0.3\% | 0.9\% | 0.5\% | 0.3\% | 0.6\% | 0.6\% | 0.4\% | 0.0\% |
| 240 | 0.6\% | ${ }^{1.5 \%}$ | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 0.0\%\% | 0.0\% | ${ }^{1.8 \%}$ | 0.0\% |
| $\begin{array}{r}241 \\ \\ 2 \\ 243 \\ \hline\end{array}$ | 3.9\%\% | 1.8\% | 0.0\% | ${ }^{0.0 \%}$ | 0.8\% | ${ }_{0}^{0.7 \% \%}$ | 0.0.0\% | ${ }_{0}^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }_{0}^{0.0 \%}$ | 0.0\% | ${ }_{\text {l }}^{1.8 \%}$ | 0 |
| 245 | 2.5\% | 0.1\% | 0.4\% | 1.2\% | 0.7\% | 0.7\% | 1.1\% | 0.7\% | 0.6\% | 0.1\% | 0.0\% | 1.0\% | 0.4\% |
| 245 X | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.2\% | 0.3\% | 0.0\% | 0.0\% | 0.2\% | 1.4\% | 0.8\% |
| ${ }^{248}$ | 7.9\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.9\% | 0.0\% |
| $\stackrel{252}{257}$ | ata (seasonal) | No Datat (seasonal) | No oatat (seasonal) | No oata (seasonal) | Oata (feesonal) | atat (seasonal) | Ooata (seasonal) | Datat (seasonal) | No oata (seasonal) | No Doata (sessonal) | No Doata (sessonal) | No oata (seasonal) | No Data (seasonal) |
| ${ }^{257}$ | ${ }^{\text {0.4\% }}$ | ${ }^{0.0 \%}$ | 0.7\% | 0.7\% | ${ }^{0.0 \%}$ | 0.0\% | ${ }^{0.0 \%}$ | 0.0\% | ${ }^{0.6 \%}$ | 0.7\% | ${ }^{0.2 \%}$ | 0.8\% | ${ }^{1.2 \%}$ |
| 258 <br> 298 <br> 29 | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | 12.5\% $0.0 \%$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }^{\text {0.0\% }}$ | ${ }^{\text {0.0\% }}$ | ${ }^{0.0 \%}$ | ${ }_{0}^{0.0 \%}$ | ${ }^{0.0 \%}$ | 0.0\% |
| 259 <br> 260 | 0.0\% | ${ }^{0.0 \% \%}$ | ${ }_{0}^{0.3 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }_{0}^{0.0 \% \%}$ | ${ }_{\text {l }}^{0.3 \%}$ | ${ }^{0.0 \% \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \% \%}$ | ${ }^{0.0 \% \%}$ | ${ }^{0.0 \% \%}$ |
| 261 | 1.7\% | 0.8\% | 1.1\% | 1.0\% | 0.7\% | 0.3\% | 0.8\% | 0.4\% | 0.3\% | 0.3\% | 0.1\% | 1.2\% | 0.3\% |
| 270 | 0.0\% | 0.0\% | 0.7\% | 0.5\% | 0.0\% | 0.0\% | 0.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 0.0\% |
| 271 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 272 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.7\% | 0.0\% |
| 273 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 274 <br> 275 <br> 2 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | ${ }^{\text {0.0\% }}$ | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 275 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| $\stackrel{276}{278}$ | ${ }_{\text {No Data }}^{\text {No. }}$ | ${ }_{\text {No Dota }}^{\text {No. }}$ | No Data | No Data | ${ }_{0}^{0.0 \%}$ | ${ }_{0}^{0.0 \%}$ | ${ }_{0}^{0.0 \%}$ | No Dotat (seasonal) | No Oatat (seasonal) | No Oetat (sesosonal) | No oatat (sesosonal) | No Oatat (seasonal) | Sta |
| 279 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% |
| 279A | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% |
| ${ }^{288}$ | No Doata (seasonal) | No Datat (seasonal) | No oata (seasonal) | No oata (seasonal) | No Data (seasonal) |  |  | No oata (seasonal) | No oata (seasonal) | No Data (seasonal) | No Doata (seasonal) | No oata (seasonal) |  |
| $\stackrel{282}{284}$ | No. | ${ }_{\text {No oata }}^{\substack{\text { No.0\% }}}$ |  | $\underbrace{\substack{\text { No Data } \\ 0.0 \%}}_{\text {No. }}$ | $\underset{\substack{\text { No Data } \\ 0.0 \%}}{ }$ | ${ }_{\text {No oata }}^{\text {No.0\% }}$ | 0.0\% | ${ }_{0.0 \%}^{0.0 \%}$ | 0.0\% | 0.0\% | 0.0\% | ${ }^{0.0 \%}$ | .0.0\% |
| ${ }_{301}^{284}$ | ${ }^{\text {1.8\% }}$ | 0.1\% | ${ }^{\text {1.0\% }}$ | ${ }_{7}$ | 0.6\% | 0.4\% | ${ }^{0.0 \% \%}$ | 0.2\% | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }^{\text {2.5\% }}$ | ${ }^{\text {0.9\% }}$ | ${ }^{\text {4.5\% }}$ |
| 302 | 0.7\% | 0.4\% | 0.5\% | 5.5\% | 0.1\% | 0.5\% | 0.3\% | 0.5\% | 0.0\% | 0.0\% | 7.7\% | 6.5\% | 6.2\% |
| 303 | 2.6\% | 1.3\% | 1.6\% | 8.5\% | 0.8\% | 2.0\% | 1.8\% | 0.4\% | 0.4\% | 0.0\% | 6.6\% | 5.8\% | 5.5\% |
| 304 <br> 304 | - | ${ }^{0.1 \%}$ | ${ }^{0.6 \%}$ | ${ }_{5}^{5.5 \%}$ | 0.4\% | 0.6\% | ${ }^{0.3 \%}$ | 0.2\% | 0.0\% | 0.0\% | 2.1\% | 2.1\% | 2.4\% |
| 304A <br> 304 A | ${ }_{\text {cher }}^{\text {55\%\% }}$ | ${ }^{\text {21.1\% }}$ | ${ }_{\text {47.4\% }}^{\text {4.3\% }}$ | ${ }_{\text {c }}^{6.3 \%}$ | 0.0\% | ${ }^{\text {0.3\% }}$ | ${ }_{0}^{0.2 \%}$ |  | ${ }_{0}^{0.0 \% \%}$ | - | ${ }_{\substack{2.2 \% \\ 68.4 \%}}$ | ${ }_{\text {47.4\% }}^{\text {4.8\% }}$ | 3.0\%\% |
| 305 | 0.4\% | 0.4\% | 2.0\% | 3.4\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 0.0\% | 0.0\% | 14.2\% | 19.8\% | 2.4\% |
| ${ }^{305 A}$ | 0.3\% | 1.7\% | 1.6\% | 6.9\% | 0.2\% | 0.0\% | 0.1\% | 0.0\% | 0.0\% | 0.0\% | 53.6\% | 39.5\% | 1.5\% |
| ${ }_{306}$ | 0.2\% | 0.6\% | ${ }^{1.1 \%}$ | 5.4\% | ${ }^{0.3 \%}$ | 4.3\% | 0.8\% | 0.1\% | 0.0\% | 0.0\% | 9.6\% | 110\% | 8.8\% |
| ${ }^{313}$ | 2.3\% | 0.0\% | 5.0\% | 6.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 4.0\% | 0.4\% |
| ${ }^{314}$ | 0.6\% | 0.0\% | 0.4\% | 2.3\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.6\% |
| ${ }^{320}$ | 0.0\% | 0.0\% | 1.3\% | 4.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
| 321 | 44.4\% | 39.5\% | 18.4\% | 15.0\% | 0.0\% | ${ }^{31.6 \%}$ | ${ }^{16.7 \%}$ | ${ }_{\text {11.8\% }}^{10 \%}$ | ${ }^{26.3 \%}$ | ${ }_{\text {5.3\% }}$ | ${ }^{21.19 \%}$ | 18.4\% | ${ }^{36.8 \%}$ |
| 322 <br> 323 | ${ }_{\text {4. }}^{\text {0. }}$ | ${ }^{0.0 \% \%}$ | ${ }_{\text {2 }}^{\text {0.3\% }}$ | ${ }^{0.0 \%}$ | ${ }^{\text {0.0\% }}$ | 0.0\% | 0.0\% | ${ }_{\text {2.3\% }}^{0.0 \%}$ | 0.0\%\% | ${ }^{0.0 \%}$ | 2.1\% | ${ }^{0.0 \%}$ | ${ }_{\text {5.3\% }}^{\text {0.0\% }}$ |
| 323x | 0.0\% | 0.0\% | 2.6\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
|  | - | 0.0\% | 25.0\% | ${ }^{0.0 \%}$ | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 50.0\% | 0.0\%\% | 0.0\% | 0.0\% |
| $\stackrel{3}{328}$ | ${ }_{0.8 \%}^{2.2 \%}$ | ${ }_{0}^{0.5 \%}$ | ${ }^{1.3 \%}$ | ${ }_{\text {2, }}^{4.4 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \% \%}$ | ${ }_{0}^{0.8 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \% \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.9 \%}$ | ${ }^{0.0 \%}$ |
| ${ }^{332}$ | 3.4\% | 0.6\% | 3.5\% | 3.9\% | 0.0\% | 0.0\% | 2.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.4\% | 2.6\% |
| ${ }_{3}^{333}$ | 0.0\% | 0.5\% | 0.0\% | 2.7\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 0.0\%\% |
| ${ }_{341}^{336}$ | ${ }_{\text {l }}^{\text {0.0\% }}$ | ${ }^{0.0 \% \%}$ | ${ }^{0.3 \%}$ | ${ }_{\text {2, }}^{\text {2.2\% }}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \% \%}$ | ${ }_{0}^{0.4 \%}$ | ${ }^{0.0 \% \%}$ | ${ }^{0.0 \% \%}$ | ${ }^{0.0 \% \%}$ | ${ }^{0.0 \%}$ | 0.5\% | ${ }^{0.06 \%}$ |
| 343 | 0.6\% | 0.0\% | 0.8\% | 3.6\% | 0.4\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.1\% | 0.2\% | 0.3\% | 0.9\% |
| ${ }^{343 \mathrm{x}}$ | 0.0\% | 0.0\% | ${ }^{2.6 \%}$ | 5.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% |
|  |  |  | ${ }^{0.6 \%}$ | - | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | ${ }^{0.0 \%}$ | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 2.3\% | ${ }^{0.0 \%}$ |



