North Yorkshire County Council and Selby District Council

SELBY DISTRICT TRAFFIC MODEL

2023 Present Year Validation

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JANUARY 2024

CONFIDENTIAL

North Yorkshire County Council and Selby District Council

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2023 Present Year Validation

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1 INTRODUCTION

1.1 BACKGROUND

1.1.1. WSP were commissioned by North Yorkshire County Council (NYCC) and SDC to develop the updated Selby District Strategic Transport Model (SDSTM) for a 2019 base year, providing a tool to test the upcoming Selby District Local Plan.

1.1.2. The SDSTM model includes a SATURN highway assignment model in addition to a variable demand model (VDM) developed in CUBE Voyager.

1.1.3. This report relates to a 2023 Present Year Validation (2023 PYV) which considers the update of the highway assignment model element of the SDSTM, which will then be used as starting point for the updated variable demand model.

1.2 MODEL PURPOSES

1.2.1. The SDTSTM provides a robust evidence base for a range of possible applications.

1.2.2. The SDSTM has been used since 2019 as a multi-purpose transport modelling tool for NYCC and SDC to test a range of potential transport schemes and policies. These include:

- Highway scheme appraisal,
- Inputs for transport business cases and funding applications,
- Inputs for environmental appraisals,
- Local plan assessments,
- Development impact assessment; and
- Local highway interventions.

1.2.3. The SDSTM has been developed to an extent that it is able to serve as a high-level strategic assessment tool for all such applications. However, no strategic model is capable of representing a whole district in fine detail, so the level of detail required for each application is reviewed prior to testing. It is commonly necessary to enhance a particular local area for a specific testing purpose.

1.3 PURPOSE OF THE PRESENT YEAR VALIDATION

1.3.1. TAG Unit M4 (Forecasting and Uncertainty, Nov 2023) recognises that the COVID-19 pandemic has led to marked changes in travel demand relative to pre-pandemic projected demand, even if there is uncertainty over the long-term impacts.

1.3.2. To account for COVID-19 related changes, trip matrices based before the beginning of the pandemic should ideally be rebased, or if this is not possible, an appropriate adjustment applied to model inputs or outputs in a proportionate way.

1.3.3. TAG provides the following options for possible approaches to adjust the base year

- Method 1 - Create a forecast to the present day by applying adjustments to include a COVID-19 impact, based on observed data. This forecast can be used as a "new base year" as a substitute basis for scheme forecast.
- Method 2- Apply adjustments to a forecast year model to produce a new scheme opening year forecast, or the first required forecast year, that include a COVID-19 impact to that point. This will be the new pivot off which further forecast years are based.

- Method 3 - Apply the adjustment globally to model results as a post-model adjustment.

1.3.4. It was agreed with SDC (NYC) to use a combination of method 1 and 2. The 2019 base year model was used to produce a 2023 forecast year which was compared against available traffic data from the councils traffic data site C2web and other publicly available traffic data sets and then a applied a suitable factor.

1.3.5. The 2023 PYV exercise has updated the base year of the SDSTM from 2019 to 2023, with 2019 being the last year of “neutral” traffic conditions prior to the COVID-19 pandemic. The aim of the 2023 PYV is to derive forecasts for the SDSTM encompassing a post-COVID-19 pandemic base year of 2023.

1.4 UPDATED BASE YEAR MODEL SPECIFICATION

1.4.1. The SDSTM has a base year of 2023 based on an average Monday to Thursday for neutral months.

1.4.2. The assignment of the models following matrix estimation has been carried out using SATURN version 11.5.05H.

1.4.3. The following three time periods have been modelled:

- AM peak hour (0800-0900)
- Inter peak average hour (1000-1600)
- PM peak hour (1700-1800)

1.4.4. Justification for the time periods modelled is based on extensive county-wide coverage of ATC data.

1.5 PURPOSE OF THIS REPORT

1.5.1. This note is intended to outline the overall district wide validation performance of the 2023 base year assignment.

1.6 REPORT STRUCTURE

1.6.1. Section 2 provides detail of the 2023 traffic count and journey time data which has been compiled to inform the 2023 PYV.

1.6.2. Section 3 outlines the model network assumptions which have been compiled and applied as part of an update to ensure changes which occurred to the highway network between 2019 and 2023 have been captured and represented.

1.6.3. Section 4 sets out the trip matrix development undertaken to update the 2019 SDSTM matrices to a 2023 level of demand.

1.6.4. Section 5/6 sets out the validation performance for the model was a whole in 2023, as well as breaking down this performance by count data source.

2 VALIDATION DATA

2.1 TRAFFIC COUNT DATA

2.1.1. 2023 count data in the study area is limited, so updated 2023 counts have been analysed from existing count locations where possible. The traffic data sets which have been considered at a county-wide scale are the following:

- 2023 C2Web Traffic counts
  - C2 permanent count site dataset hosted by North Yorkshire County Council providing data for parts of the study area. The data obtained was tabulated by survey day with traffic volume reported in fifteen-minute intervals.
- 2022 DfT counts.
  - The DfT Count Database which is a collection of hourly traffic counts undertaken on behalf of the DfT for single days on an annual basis at various locations on the major (motorways and A roads) and minor road network which is also available online. As of creating the 2023 base year model, 2023 DfT counts were not available, but 2022 data was deemed a suitable substitute.

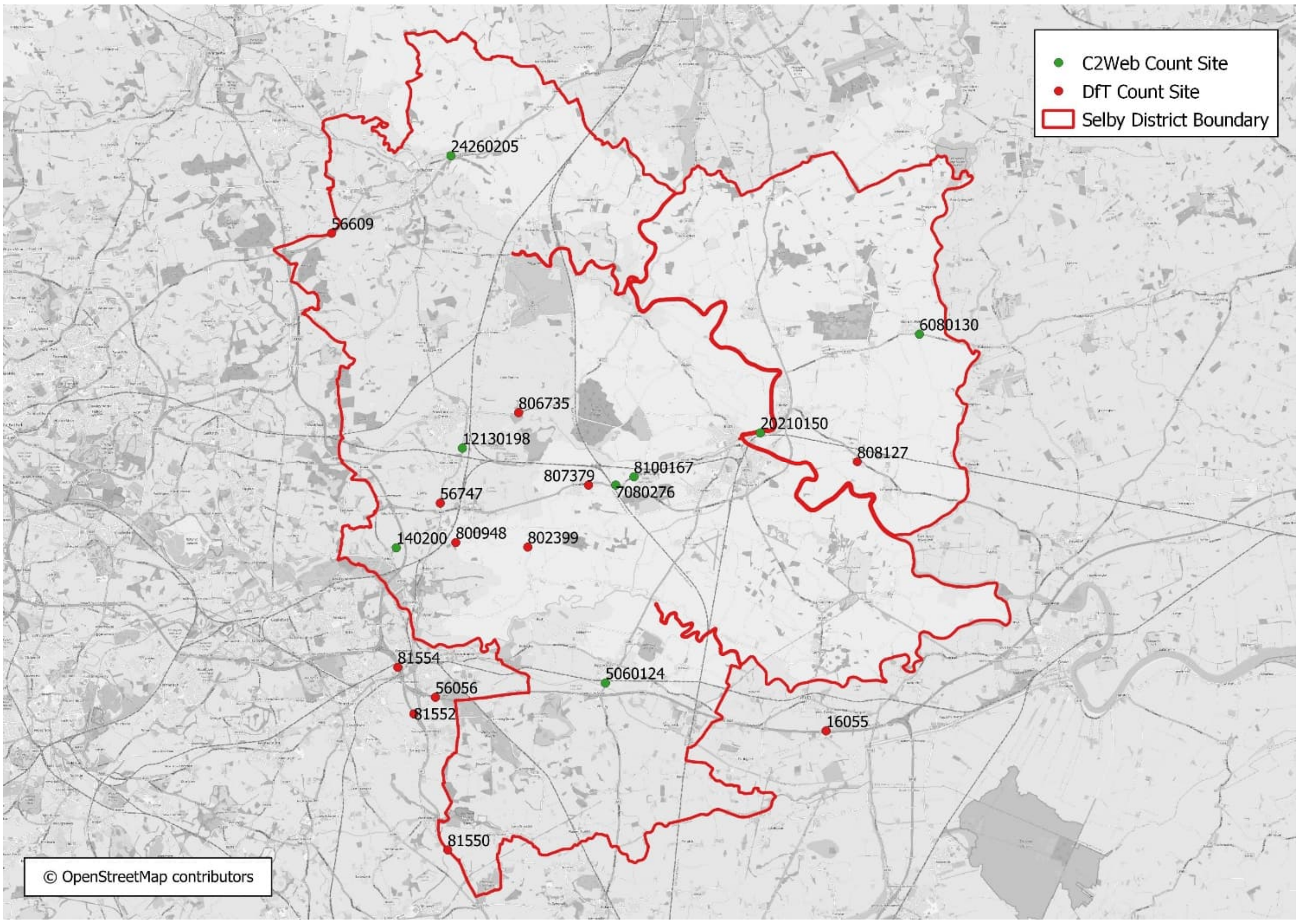
2.1.2. Table 2-1 shows the number of sites and link counts by source once counts with two directions of flow are considered.

Table 2-1 – Link counts by source

Source	No. sites	No. counts
C2Web	8	16
DfT	12	24
TOTAL	20	40

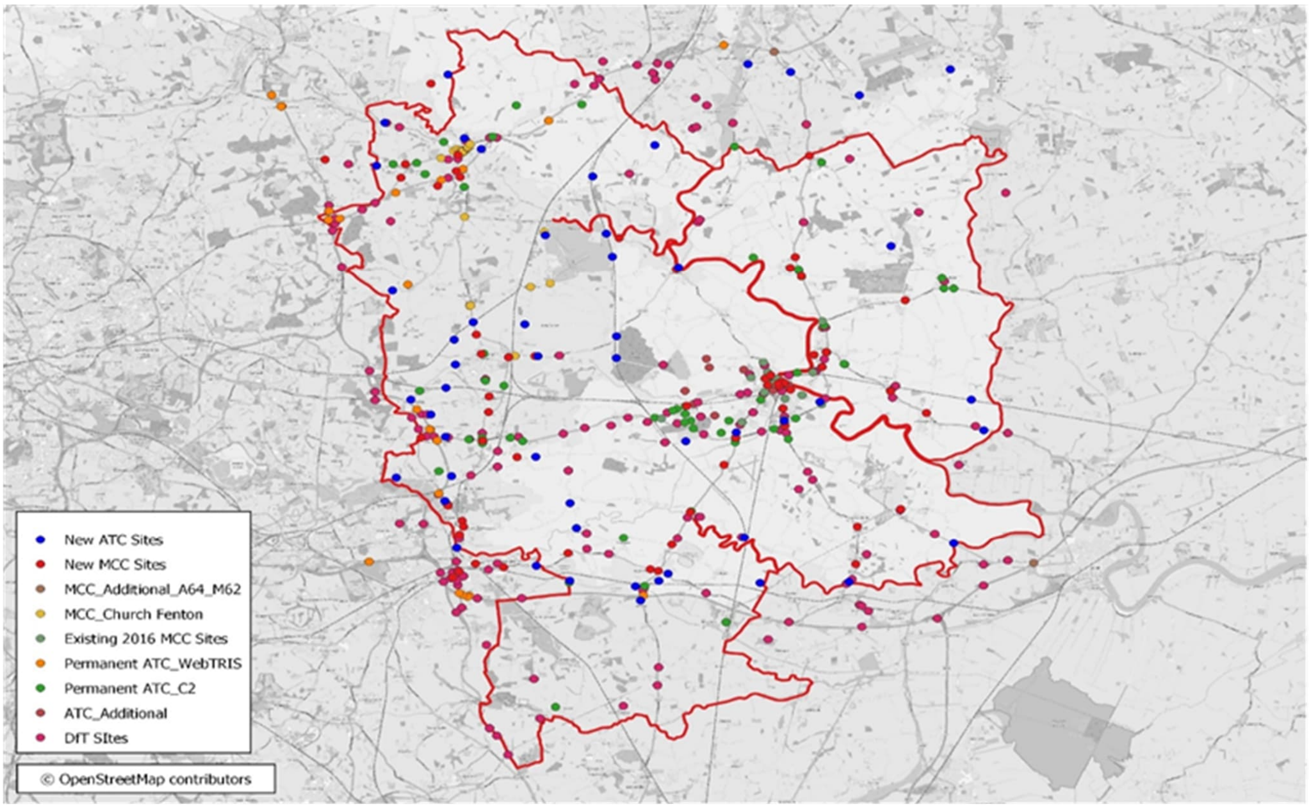
2.1.3. Coverage of the aforementioned traffic count datasets is provided in the figures below.

Figure 2-1 – 2022/23 C2Web and DfT Counts



2.1.4. Figure 2-2 shows the data coverage for the existing 2019 base year model that will be retained for the 2023 base year validation.

Figure 2-2 – Count site data coverage



2.2 2023 DATA FILTERING

2.2.1. The hourly flow data was then grouped into the following time periods:

- AM peak: 08:00 – 09:00.
- Inter-Peak period: 10:00 – 16:00; and
- PM period: 17:00 – 18:00.

2.2.2. Once the data was filtered and grouped, a double outlier exclusion process was performed to remove extreme traffic volumes that could have been recorded due to equipment malfunction or exceptional events.

2.2.3. Records with less than 3 fifteen-minute interval observations per hour were deemed not to have a large enough sample to provide a representative average value and were therefore excluded.

2.2.4. Once the data was filtered and cleaned, the counts were used to normalise the existing 2019 counts to 2023 values.

2.3 2023 DATA NORMALISATION

2.3.1. The 2022 DfT counts have been used to normalise the existing 2019 counts to 2023 values. DfT counts provide data split by vehicle class, so were deemed suitable to factor the existing 2019 count dataset.

2.3.2. As the latest year of DfT counts available at the time of writing is 2022 data, a check of the 2023 C2Web data was undertaken to check the suitability of the DfT counts. Table 2-2 shows the comparison between 2019 values for both 2022 DfT and 2023 C2Web for all vehicles per time period. It must be noted that C2Web counts are available on local minor roads, so they have been compared to DfT minor road counts.

Table 2-2 – Minor Roads 2019 vs DfT/C2Web all vehicle comparison

Source	AM Peak	Inter Peak	PM Peak
2023 C2Web	-2.5%	-0.5%	-7.0%
2022 DfT	-2.8%	0.3%	-6.4%

2.3.3. As can be seen from the table above, the change in traffic when compared to 2019 traffic values in very similar for both 2023 C2Web and 2022 DfT counts. As a result, 2022 DfT counts have been deemed acceptable for 2023 count normalisation.

2.3.4. The 2022 DfT count data was used to factor the 2019 counts to 2023 level by vehicle class and time period. Existing counts were split into minor and major roads and a different factor was applied based on road type. Here, major roads refer to the SRN (A1(M), M62 and A64). A full summary of the comparison between 2019 and 2022 is shown in Figure 2-3.

Figure 2-3 – DfT Count Comparrison 2019 vs 2022

Adjusted Ref	All - Total			Car - Total			LGV - Total			HGV - Total		
	2019	2022	Diff	2019	2022	Diff	2019	2022	Diff	2019	2022	Diff
Minor Roads	2157	2085	-3.3%	1842	1729	-6.2%	270	288	6.9%	45	68	52.1%
Major Roads	91682	81905	-10.7%	61962	51281	-17.2%	14141	14984	6.0%	15578	15640	0.4%
Total	93839	83990	-10.5%	63804	53010	-16.9%	14411	15272	6.0%	15623	15708	0.5%
AM	2019	2022	Diff	2019	2022	Diff	2019	2022	Diff	2019	2022	Diff
Minor Roads	795	773	-2.8%	662	621	-6.2%	115	121	5.5%	18	31	68.7%
Major Roads	31248	27844	-10.9%	20109	15986	-20.5%	5330	5879	10.3%	5809	5979	2.9%
Total	32043	28617	-10.7%	20771	16607	-20.0%	5445	6000	10.2%	5827	6010	3.1%
Interpeak	2019	2022	Diff	2019	2022	Diff	2019	2022	Diff	2019	2022	Diff
Minor Roads	558	560	0.3%	450	433	-3.9%	90	101	12.3%	18	26	44.7%
Major Roads	25970	24836	-4.4%	15520	14180	-8.6%	4497	4702	4.6%	5953	5954	0.0%
Total	26528	25396	-4.3%	15970	14613	-8.5%	4587	4803	4.7%	5971	5980	0.1%
PM	2019	2022	Diff	2019	2022	Diff	2019	2022	Diff	2019	2022	Diff
Minor Roads	804	752	-6.4%	730	675	-7.6%	65	66	1.8%	8	11	31.6%
Major Roads	34464	29225	-15.2%	26333	21115	-19.8%	4315	4403	2.0%	3816	3707	-2.9%
Total	35267	29977	-15.0%	27063	21790	-19.5%	4380	4469	2.0%	3824	3718	-2.8%

2.3.5. Due to the low number of HGV flows available on minor roads, it was deemed more appropriate to use the total difference factors for all road types.

2.4 2023 JOURNEY TIME DATA

2.4.1. No changes were made to the existing 2019 journey time data as 2023 data was not available and generally a PYV does not require the update of journey time data.

2.4.2. Journey times from the 2019 data for a major route towards selby have been analysed againt current conditions using historical Google Maps travel times. The A63 route west of selby was observed to have a travel time of roughly 10 minutes in both directions across all time periods. This was compared to a neutral march 2023 weekday in Google Maps and found that the journey times were still typically 10 mins. Therefore it has been deemed reasonable to use the existing 2019 journey time data.

2.4.3. The journey time validation statistics for the 2023 PYV are presented in Table 6-2 and show a strong level of validation, typically above 97%, even with outdated data.

3 NETWORK DEVELOPMENT

3.1 INTRODUCTION

3.1.1. In order to represent the 2023 model network, it was key to review the previous 2019 base year model network. There were no significant additional network schemes completed between 2019 and 2023, so the highway network has remained unchanged.

3.2 GENERALISED COST FORMULATIONS & PARAMETER VALUES

3.2.1. Generalised cost is defined in keeping with the guidance in section 2.8 of TAG Unit M3.1 (May 2020), and is as follows:

$$Generalised\ cost = Time + \left(\frac{Vehicle\ operating\ cost}{Value\ of\ time}\right) Distance$$

3.2.2. Value of time is calculated in pence per minute (PPM) and vehicle operating cost is calculated in pence per kilometre (PPK). The adopted parameters were calculated from the TAG data book version 1.17 (November 2021), to remain consistent with the 2019 base model. The value of time (PPM) for the HGVs was doubled from the value provided in the TAG data book. This is in line with TAG Unit A1.3 which advises for HGV that the driver's time does not take account of the influence of owners on the routing of these vehicles.

3.2.3. The parameters adopted for a 2023 base year are shown in Table 3-1. For the HGV class, local ATC data was used to determine the split of vehicles which could be classified as OGV1 and OGV2 by peak hour. This split was used to calculate average generalised cost parameters for HGVs. Average simulation network speeds were also used to derive the generalised cost parameters.

Table 3-1 – 2023 Generalised Cost Parameters

User Class	AM		IP		PM	
	PPM	PPK	PPM	PPK	PPM	PPK
UC1 – Car Employer's Business	31.68	12.27	32.47	12.27	32.14	12.27
UC2 – Car Commuting	21.25	5.74	21.56	5.74	21.32	5.74
UC3 – Car Other	14.66	5.74	15.62	5.74	15.35	5.74
UC4 – LGV	22.96	13.28	22.96	13.28	22.96	13.28
UC5 – HGV Average	52.59	43.30	52.59	43.67	52.59	45.37

4 TRIP MATRIX DEVELOPMENT

4.1 INTRODUCTION

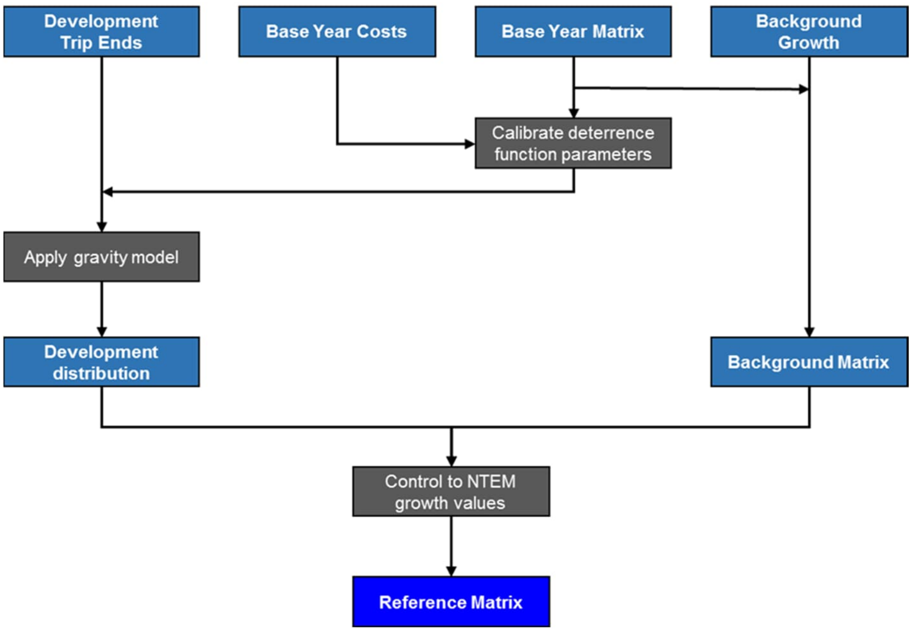
4.1.1. In order to update the 2019 base year matrix to a 2023 base year demand, information has been gathered from NYCC and SDC about the developments that have occurred between 2019 and 2023. WSP already had an outdated information as part of historic Local Plan modelling. However, updated information was obtained from the NYCC and SDC to confirm build out rate figures between 2019 and 2023.

4.1.2. The development trip ends were distributed using a Gravity model developed withing the CUBE suite. The TAG compliant CUBE procedure attempts to reproduce the 'distribution of trips by distance' curve of the base year matrix, such that it yields what parameters would be needed to distribute the development trips as if they were in the base year matrix.

4.1.3. Given the level of calibration and validation the base year matrices have undergone, this provides a level of confidence in the distribution of development trips. CUBE optimises the gravity model parameters to minimise the overall differences between observed and modelled values, by time period. The gravity model then distributes development trips based on the cost of travel to other zones using the optimised parameters.

4.1.4. The CUBE process then balances background growth with the development trips, known as 'constraining'. It is a requirement in TAG Unit M4 Section 7.3 that there is a need to control overall growth to TEMPro. This has been done at Local Authority District (LAD) level. CUBE subtracts the developments trips from the background growth (NTEM) at the aggregated level (i.e. Local Authority District), and then furnesses the base year matrices using these 'adjusted' growth factors to generate matrices with adjusted trip ends. This means when adding development trips to the furnessed background matrices (to create the final matrices), there is no double counting of trips and assumed growth.

Figure 4-1 – Reference Demand Methodology



4.1.5. Due to the Impact of COVID-19, traffic levels have yet to return to pre COVID levels. Therefore, the final 2023 matrices have been factored using available 2019 and 2022/23 counts highlighted in Section 2, that were located on the same model network links. This data was then used to derive reduction factors by vehicle type.

4.2 DEVELOPMENT COMPLETION INFORMATION

4.2.1. A log of all completed developments between the planning years 2019 and 2023 for the Selby district was created. The developments modelled were classified as residential developments only, as there was no employment sites completed between 2019 and 2023. For each site the following information was obtained:

- Site name and planning reference
- an accurate site location (coordinates)
- The number of dwellings

4.2.2. Residential sites were aggregated per model zone and zones with less than 30 aggregated two-way trips in both the AM and PM peaks were not modelled, after trip rates had been applied. Any sites that were deemed not substantial enough to include in the development matrices will be assumed to be included in the background growth matrix, as highlighted in Figure 4-1 – Reference Demand Methodology.

4.2.3. A full list of details for all completed developments is provided in Appendix A and summarised by model zone in Table 4-1 below.

Table 4-1 – Residential completions in completions log 2019 to 2023

Model Zone	Residential completions to be explicitly modelled (dwellings)
11	80
67	129
78	100
149	160
227	120
287	276
289	91
505	97
584	115
586	268
Total	**1,436**

4.3 TRIP RATES

4.3.1. For the explicitly modelled completed developments trip rates were derived using the TRICS 7.8.4 database and applied to the development quantum. TRICS provides a consistent system for derivation of trip generation in this type of analysis through providing access to a large database of inbound & outbound transport surveys covering a wide variety of development types. Trip rates were derived at a district level for AM Peak, Inter-Peak and PM Peak for housing developments by choosing areas of similair type to Selby and split by out of town and town centre.

4.3.2. The Trip rates have been agreed with NYCC and SDC.

The TRICS trip rates used to calculate the trip generation associated with each development are shown in Table 4-2.

Table 4-2 – All Vehicle Residential Trip Rates (trips per dwelling)

Local Authority Area	AM Peak		Inter Peak		PM Peak	
	Origin	Destination	Origin	Destination	Origin	Destination
Town Centre 0-400	0.285	0.146	0.139	0.120	0.180	0.224
Out of Town 0-400	0.349	0.135	0.156	0.158	0.156	0.323
Out of Town 400-800	0.416	0.167	0.149	0.154	0.173	0.357
Out of Town 800+	0.339	0.151	0.124	0.116	0.150	0.318

4.3.3. The resulting trip generation from all completed developments is shown in Table 4-3. It must be noted, that due to rounding, the total trip generation may not match the sum of the individual vehicle types.

Table 4-3 – Trip generation from completed developments (Vehicles)

	AM Peak		Inter Peak		PM Peak	
	Origin	Destination	Origin	Destination	Origin	Destination
Car	333	144	173	164	188	298
LGV	24	23	26	23	19	28
HGV	2	2	2	2	1	1
Total Trip Generation	**359**	**169**	**202**	**189**	**208**	**327**

4.4 USER CLASS PROPORTIONS

4.4.1. The trips generated by the explicitly modelled developments are not categorised by purpose and therefore need proportioning between the 3 car-specific user classes. The user class proportions have been based on a split acquired from the National Trip-End Model (NTEM) Version 8.1 using TEMPro software for each of the time periods respectively. A few select MSOAs in the study area which were most representative of residential areas were selected for this calculation. The proportions used are shown in Table 4-4. It must be noted, that due to rounding, the total proportions may not match the sum of the individual user class types.

Table 4-4 – Car User Type Proportions

	AM Peak		Inter Peak		PM Peak	
	Origin	Destination	Origin	Destination	Origin	Destination
UC1 – Car Business	6%	5%	5%	5%	5%	6%
UC2 – Car Commuting	40%	30%	9%	11%	25%	35%
UC3 – Car Other	54%	64%	85%	84%	70%	59%

4.5 BACKGROUND GROWTH

4.5.1. TAG M4 defines a background assumption to be “an assumed change between the base year and the forecast year that is assumed to happen independent of the scheme”.

4.5.2. Background demand changes occur due to various factors including demographic changes, GDP, and fuel prices.

National Trip End Model

4.5.3. In line with TAG guidance the impact of changes to demographic data are accounted for by applying data from the DfT’s National Trip End Model (NTEM) dataset.

4.5.4. Forecast trip ends were extracted from the NTEM version 8.1 to derive background car trip end growth factors for each demand segment. They consisted of origin and destination factors by mode (car driver, bus, rail), by time period (am peak, inter peak, pm peak) and by trip purpose (business, commuting, other).

4.5.5. The growth factors were applied at MSOA level, as the lowest spatial geography defined in NTEM, for zones within the FMA and aggregated to higher geographies corresponding to the zone definitions in the external areas.

4.5.6. A summary of the factors for Selby district overall are given in Table 4-5. These provide a high-level indication of the level of growth applied to the demand for Cars in the forecast matrix development.

4.5.7. It can be seen that Car driver trip growth is around 2-3% in all time periods in 2023. This is in contrast to the 9-20% (depending on time period) reduction that is shown for the DfT counts highlighted in Figure 2-3. As a result, an exercise was undertaken to scale the 2023 matrices to better reflect post Covid traffic. This process is further detailed in Section 4.7.

Table 4-5 – Summary of NTEM Growth Factors (2019-2023)

AM Peak		Inter Peak		PM Peak	
O	D	O	D	O	D
1.0273	1.0152	1.0239	1.0255	1.0200	1.0269

National Transport Model

4.5.8. Background LGV and HGV forecast growth was derived from the National Road Traffic Projections 2022 (NRTP) which are produced by the DfT from the National Transport Model (NTM).

The factors were applied at Government Region level. Table 4-6 summarises the values for Yorkshire and the Humber. A trend of increased growth for LGVs and HGVs is predicted.

Table 4-6 – Summary of NTM Growth Factors

Year	LGVs	HGVs
2023	1.0884	1.0192

4.6 DEVELOPMENT TRIP DISTRIBUTION

4.6.1. The location of each development was spatially allocated to the model zone structure and thus an existing zone number was assigned to each development. The base model included dummy zones in locations where developments were expected to be allocated.

4.6.2. The trip distribution applied to the development trips was undertaken using a gravity model approach. A tanner function or log normal curve was calibrated against the trip distance distributions from the calibrated base year models by mode, time period and trip purpose. The formulations are as follows, where c_{ij} is the cost of travel between zones i and j (in this case distance) and x_1, x_2 or μ, σ parameters to be calibrated.

- Tanner $$f(c_{ij} : x_1, x_2) = c_{ij}^{x_1} exp\left(c_{ij}^{x_2}\right)$$
- Log Normal $$f(c_{ij} : \mu, \sigma) = \frac{1}{c_{ij}\sigma\sqrt{2\pi}} exp\left(-\frac{(\ln(c_{ij}) - \mu)^2}{2\sigma^2}\right)$$

4.6.3. The outturn parameters and R^2 statistics are presented in Table 4-7.

Table 4-7 – Gravity Model Calibration Summary

Mode	Time Period	User Class	Function	Parameters*		R^2
				p1	p2	
Highway	AM Peak	Car Business	LogNormal	1.44281	1.522354	0.99851
		Car Commute	LogNormal	1.268064	1.572055	0.99978

		Car Other	LogNormal	0.879092	1.059556	0.99955
		LGV	LogNormal	1.959463	0.924051	0.99977
		HGV	LogNormal	1.269195	1.292387	0.98965
	Inter Peak	Car Business	LogNormal	1.33907	1.20021	0.99729
		Car Commute	LogNormal	1.285268	1.318235	0.99976
		Car Other	LogNormal	1.008197	1.074398	0.99975
		LGV	LogNormal	1.877947	0.958531	0.99981
		HGV	LogNormal	1.327919	1.394782	0.99755
	PM Peak	Car Business	LogNormal	1.491585	1.451822	0.99877
		Car Commute	LogNormal	1.302016	1.587693	0.99971
		Car Other	LogNormal	1.109436	1.172982	0.99981
		LGV	LogNormal	1.994973	0.953442	0.99977
		HGV	LogNormal	1.176243	1.395188	0.98611

**If Tanner then p1=x1, p2=x2*
**If Log normal then p1=mu, p2=sigma*

4.7 MATRIX REDUCTION

4.7.1. Due to Covid-19, it has been observed that traffic levels for car trips have been significantly reduced, so an exercise was undertaken to scale the 2023 matrices to better reflect post Covid traffic. As can been seen from Figure 2-3 and Table 4-6, the comparison between the counts and TEMPro show similar growth levels for LGVs and HGVs, so only the Car matrices have been reduced.

4.7.2. To reduce the Car matrices, factors were applied to major and minor road movements for each time period, based on the factors shown in Figure 2-3. To achieve this, a sectoring system was created, with certain sector to sector movements being given minor or major road reductions. External to External movements pass through Selby using the Strategic Road Network, so these movements were given a major road reduction factor. All other movements were given minor road reduction factors.

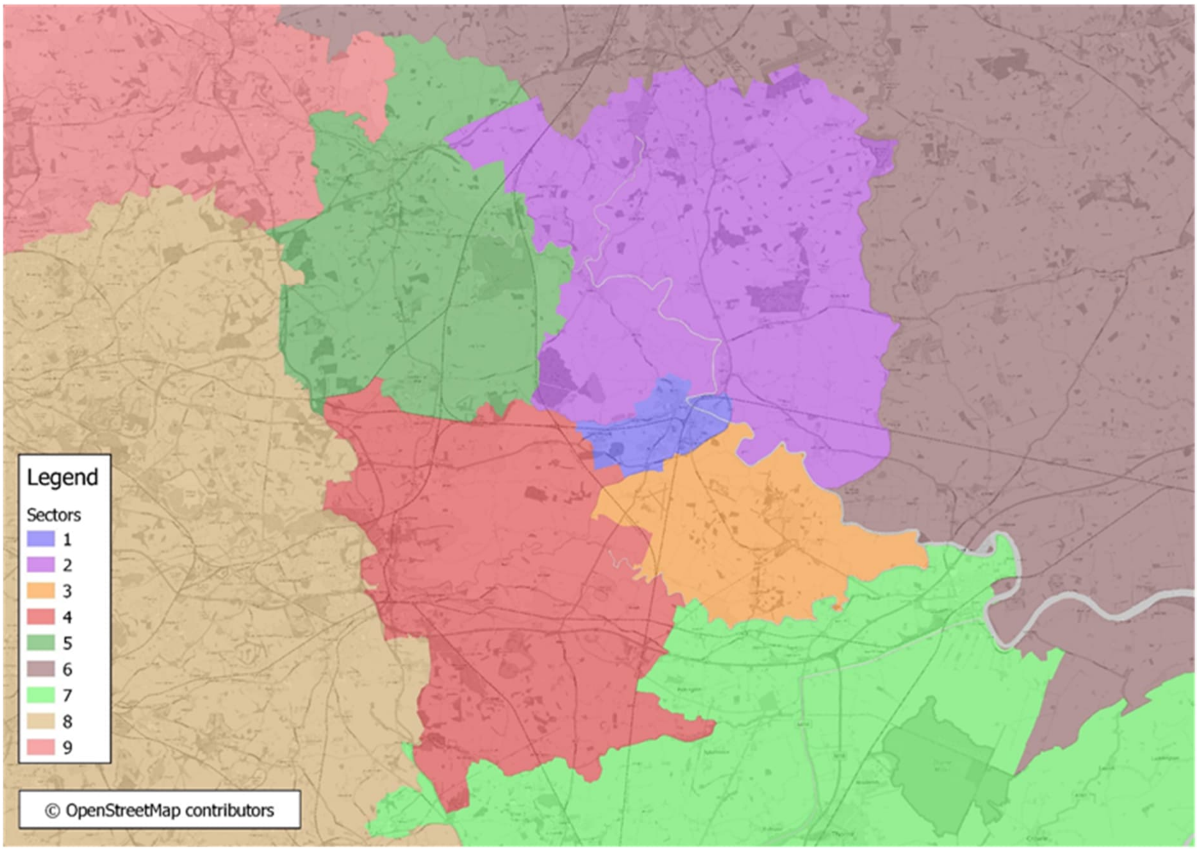
4.7.3. Based on the DfT car reduction factors presented in Figure 2-3 an initial set of reduction factors was proposed. These factors are summarised in Table 4-8 below by time period.

Table 4-8 – Initial Matrix Reduction Factors

Movement	AM Peak	Inter Peak	PM Peak
Internal Sectors	0.94	0.96	0.92
External to External Sectors	0.79	0.91	0.80

4.7.4. The sector system used is shown in Figure 4-2 below. Sectors 1-5 represent internal sectors, with 6-9 being external.

Figure 4-2 – Reduction Sectors



4.7.5. As TEMPro growth presented in Table 4-5 was originally applied to the 2023 matrices, a higher reduction factor was applied to compensate for this additional growth. It must be noted that this adjustment when compared to the initial reduction factors (Table 4-8) has only been applied to the external-external sectors for the AM and PM peak, as the impact on the Inter-Peak and internal sectors will be minimal. The final factors applied to the car matrices is summarised in Table 4-9 below by time period.

Table 4-9 – Final Matrix Reduction Factors

Movement	AM Peak	Inter Peak	PM Peak
Internal Sectors	0.94	0.96	0.92
External to External Sectors	0.75	0.91	0.75

4.7.6. These sector factors were then used to create a matrix that was multiplied with the car matrices using FORTRAN equations within SATURN. The resulting matrices were the final 2023 present year validation matrices.

4.8 2023 MATRIX TOTALS

4.8.1. The final 2023 matrix totals in each of the peak periods are shown in Table 4-10 to Table 4-12.

Table 4-10 – Matrix Totals AM Peak (PCUs)

User Class	Base Matrix (2019)	Total Trips 2023	Difference (2019-2023)	% Change
1	11,843	9,588	-2,254	-19%
2	52,728	42,835	-9,893	-19%
3	62,009	49,840	-12,169	-20%
4	19,351	21,133	1,782	9%
5	22,402	22,810	407	2%
Total	**168,333**	**146,206**	**-22,127**	**-13%**

Table 4-11 – Matrix Totals Inter-Peak (PCUs)

User Class	Base Matrix (2019)	Total Trips 2023	Difference (2019-2023)	% Change
1	7,816	7,426	-390	-5%
2	15,958	15,153	-805	-5%
3	68,075	64,526	-3,549	-5%
4	16,079	17,559	1,480	9%
5	21,124	21,517	393	2%
Total	**129,053**	**126,181**	**-2,872**	**-2%**

Table 4-12 – Matrix Totals PM Peak (PCUs)

User Class	Base Matrix (2019)	Total Trips 2023	Difference (2019-2023)	% Change
1	9,522	7,684	-1,838	-19%
2	52,884	42,939	-9,946	-19%
3	71,808	57,795	-14,014	-20%
4	15,127	16,513	1,386	9%
5	12,455	12,689	234	2%

Total	**161,796**	**137,620**	**-24,177**	**-15%**

5 LINK FLOW CALIBRATION & VALIDATION

5.1 INTRODUCTION

5.1.1. This chapter reports the SDSTM 2023 present year model performance and validation summary with respect to three measures:

- Trip matrix calibration.
- Link flow calibration and validation; and
- Journey time validation.

5.1.2. The calibration and validation of the 2023 base year models utilised two sources of data:

- Traffic count data – grouped for.
  - Calibration of screenline and cordon totals.
  - Calibration and validation of link flow volumes.
- Journey time data – for validation of the highway network.

5.1.3. The model results for link flows and journey times are reported globally based on the cordons/screenlines. Links flows have been split into calibration and validation. More details on these links/screenlines/cordons can be found in Appendix B - Selby District Traffic Model Local Validation Report (LMVR).

5.1.4. The reporting of calibration and validation results is based on TAG acceptability guidelines, and with additional 'near' criteria defined for each metric, which are detailed in their respective sections. This approach is consistent with reporting used on other large urban models to provide additional context than only pass/fail and could be considered a style red/amber/green system of validation.

5.2 TAG CRITERIA

5.2.1. The trip matrices have been calibrated against the criteria set out in Table 5-1, that is reproduced from TAG M3.1, and advises that modelled flow should be within 5% of the observed counts for "all or nearly all" cordons/screenlines.

Table 5-1 - Trip Matrix Verification Criteria

Criteria	Acceptability Guideline
Differences between modelled flows and counts should be less than 5% of the counts	All or nearly all cordons/screenlines

5.2.2. The measures used for link flow verification are:

- The absolute and percentage differences between modelled flows and counts; and
- The GEH statistic which is a hybrid of the Chi-squared statistic to incorporate both relative and absolute errors. It is defined by

$$GEH = \sqrt{\frac{(M-C)^2}{(M+2)/2}}$$

where M is the modelled flow and C is the observed flow.

5.2.3. Both measures are considered broadly consistent and meeting either is considered satisfactory by TAG M3.1.

5.2.4. The acceptability criteria are given in Table 5-2 reproduced from TAG M3.1.

Table 5-2 - Link Flow Verification Criteria

Criteria	Description	Acceptability Guideline
	Individual flows within 15% of counts for flows from 700 veh/hr to 2,700 veh/hr	> 85% of cases
2	GEH < 5 for individual flows	> 85% of cases

5.2.5. Journey time routes have been validated against the criteria set out in Table 5-3 that is reproduced from TAG M3.1.

Table 5-3 - Journey Time Routes Validation Criteria

Criteria	Acceptability Guideline
Modelled times along routes should within 15% of surveyed times (or 1 minute if higher than 15%)	> 85% of routes

5.3 TRIP MATRIX CALIBRATION

5.3.1. Trip matrix calibration for the calibrated models is reported for nine bi-directional calibration cordons/screenlines. The trip matrices have been calibrated against the TAG criteria set out in Table 5-1.

5.3.2. TAG also advises that cordons/screenlines should be “made up of 5 links or more”. For some cordons/screenlines, particularly within the rural areas, it was not possible to do this given the network configuration actually ‘on the ground’ and without extending them in a way that would compromise the purpose for which those cordons/screenlines had been defined.

5.3.3. There are also some cordons/screenlines with relatively low observed flow. On that basis, the cordon/screenline verification is reported based on differences between modelled and observed flows ‘within 5% or GEH < 4’. The latter condition is accounting for cordons/screenlines with lower cumulative flow and/or lower number of counts and has similarly been applied in other models for those reasons mentioned. A secondary, ‘near pass’, criteria has been defined as ‘within 7.5% or GEH <5’.

5.3.4. The results are presented in Table 5-4 and show, overall, a strong level of calibration for screenlines and cordons. In most cases, the screenlines and cordons the primary criteria based on TAG guidance ('Within 5% or GEH < 4') is above 85% for all screenlines and cordons. Where this is not the case, for the AM peak, the validation is above 85% when a more relaxed amber rating is used.

5.3.5. The breakdown by individual screenlines and cordons has been summarised in Table 5-5 to Table 5-7 for 'all vehicles', including the validation ratings. The ratings are using the two criteria described above and therefore, an absolute percentage difference exceeding 5% can have a green rating if the GEH is less than 4.

5.3.6. Additional reporting of the screenline and cordon calibration is provided in Appendix C including verification for cars separately.

Table 5-4 - Calibrated Trip Matrix Calibration

Measure	All Vehicles			Cars		
	AM Peak	Inter Peak	PM Peak	AM Peak	Inter Peak	PM Peak
Calibration Screenlines and Cordons (18)						
Within 5% or GEH < 4 ('Green' validation)	78%	100%	83%	83%	89%	89%
Within 7.5% or GEH < 5 ('Amber' validation)	100%	100%	89%	94%	100%	94%

Table 5-5 - Calibrated Trip Matrix Screenline and Cordons: AM Peak

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
Strategic Screenlines and Cordons Screenlines							
Outer Cordon	Inbound	10,701	10,306	-395	-4%	3.9	G
	Outbound	11,391	12,020	629	6%	5.8	A
Tadcaster Cordon	Inbound	5,523	5,512	-11	0%	0.1	G
	Outbound	5,420	5,553	133	2%	1.8	G
Eggborough Cordon	Inbound	2,071	2,034	-37	-2%	0.8	G
	Outbound	2,101	2,152	51	2%	1.1	G
Screenline North-South North	Northbound	6,880	6,730	-150	-2%	1.8	G
	Southbound	5,969	5,820	-148	-2%	1.9	G
Screenline North-South Central	Northbound	6,252	6,657	405	6%	5.0	A
	Southbound	4,914	5,080	166	3%	2.4	G

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
Screenline East-West Central	Eastbound	3,659	3,596	-63	-2%	1.0	G
	Westbound	3,618	3,899	282	8%	4.6	A
Selby Outer Cordon	Inbound	2,910	3,035	125	4%	2.3	G
	Outbound	2,648	2,749	101	4%	1.9	G
Selby North-South	Northbound	2,380	2,473	93	4%	1.9	G
	Southbound	1,907	1,976	70	4%	1.6	G
Selby East-West	Eastbound	871	1,012	140	16%	4.6	A
	Westbound	780	849	69	9%	2.4	G

Table 5-6 - Calibrated Trip Matrix Screenline and Cordons: Inter Peak

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
Strategic Screenlines and Cordons Screenlines							
Outer Cordon	Inbound	8,102	8,461	360	4%	4.0	G
	Outbound	8,205	8,583	378	5%	4.1	G
Tadcaster Cordon	Inbound	4,330	4,465	135	3%	2.0	G
	Outbound	4,325	4,461	136	3%	2.1	G
Eggborough Cordon	Inbound	1,485	1,472	-13	-1%	0.3	G
	Outbound	1,511	1,439	-72	-5%	1.9	G
Screenline North-South North	Northbound	5,116	5,247	131	3%	1.8	G
	Southbound	5,513	5,641	129	2%	1.7	G
Screenline North-South Central	Northbound	4,812	5,038	226	5%	3.2	G
	Southbound	5,078	5,291	213	4%	3.0	G
Screenline East-West Central	Eastbound	2,785	2,866	81	3%	1.5	G
	Westbound	2,853	2,952	99	3%	1.8	G
Selby Outer Cordon	Inbound	2,132	2,216	84	4%	1.8	G
	Outbound	2,146	2,244	98	5%	2.1	G
Selby North-South	Northbound	1,770	1,848	78	4%	1.8	G
	Southbound	1,832	1,882	50	3%	1.2	G

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
Selby East-West	Eastbound	626	673	47	8%	1.9	G
	Westbound	618	686	68	11%	2.7	G

Table 5-7 - Calibrated Trip Matrix Screenline and Cordons: PM Peak

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
Strategic Screenlines and Cordons Screenlines							
Outer Cordon	Inbound	12,507	13,059	551	4%	4.9	G
	Outbound	11,582	11,523	-59	-1%	0.5	G
Tadcaster Cordon	Inbound	5,611	5,874	263	5%	3.5	G
	Outbound	5,683	5,779	95	2%	1.3	G
Eggborough Cordon	Inbound	2,203	2,274	71	3%	1.5	G
	Outbound	2,188	2,271	83	4%	1.8	G
Screenline North-South North	Northbound	6,507	6,589	82	1%	1.0	G
	Southbound	7,025	7,087	61	1%	0.7	G
Screenline North-South Central	Northbound	5,794	6,084	290	5%	3.8	G
	Southbound	6,622	7,011	388	6%	4.7	A
Screenline East-West Central	Eastbound	3,894	4,326	432	11%	6.7	R
	Westbound	3,341	3,479	138	4%	2.4	G
Selby Outer Cordon	Inbound	3,224	3,397	173	5%	3.0	G
	Outbound	2,910	3,080	170	6%	3.1	G
Selby North-South	Northbound	2,343	2,435	93	4%	1.9	G
	Southbound	2,517	2,654	137	5%	2.7	G
Selby East-West	Eastbound	962	1,028	66	7%	2.1	G
	Westbound	864	1,023	159	18%	5.2	R

5.4 LINK FLOW CALIBRATION

5.4.1. The summary statistics for the link flow calibration in the calibrated models is reported in Table 5-8 for all counts across the study area. The TAG criteria shown in Table 5-2 is achieved for both 'all vehicles' and 'cars' in each time period. The results are also very similar for 'all vehicles' and 'cars. More detailed reporting of the link flow calibration is provided in Appendix D.

Table 5-8 - Link Flow Calibration: All Counts

Measure (572 counts)	All Vehicles			Cars		
	AM Peak	Inter Peak	PM Peak	AM Peak	Inter Peak	PM Peak
Pass Criteria 1	99%	99%	98%	98%	97%	98%
Pass Criteria 2	94%	97%	94%	95%	96%	94%
Pass TAG	**99%**	**99%**	**98%**	**98%**	**93%**	**98%**

5.4.2. The GEH statistic for the modelled link flows versus the observed link flows for all vehicles across the three time periods is shown in Figure 5-1 to Figure 5-3.

Figure 5-1 – GEH Statistic of Modelled Flow vs Observed Count by Direction - AM Peak

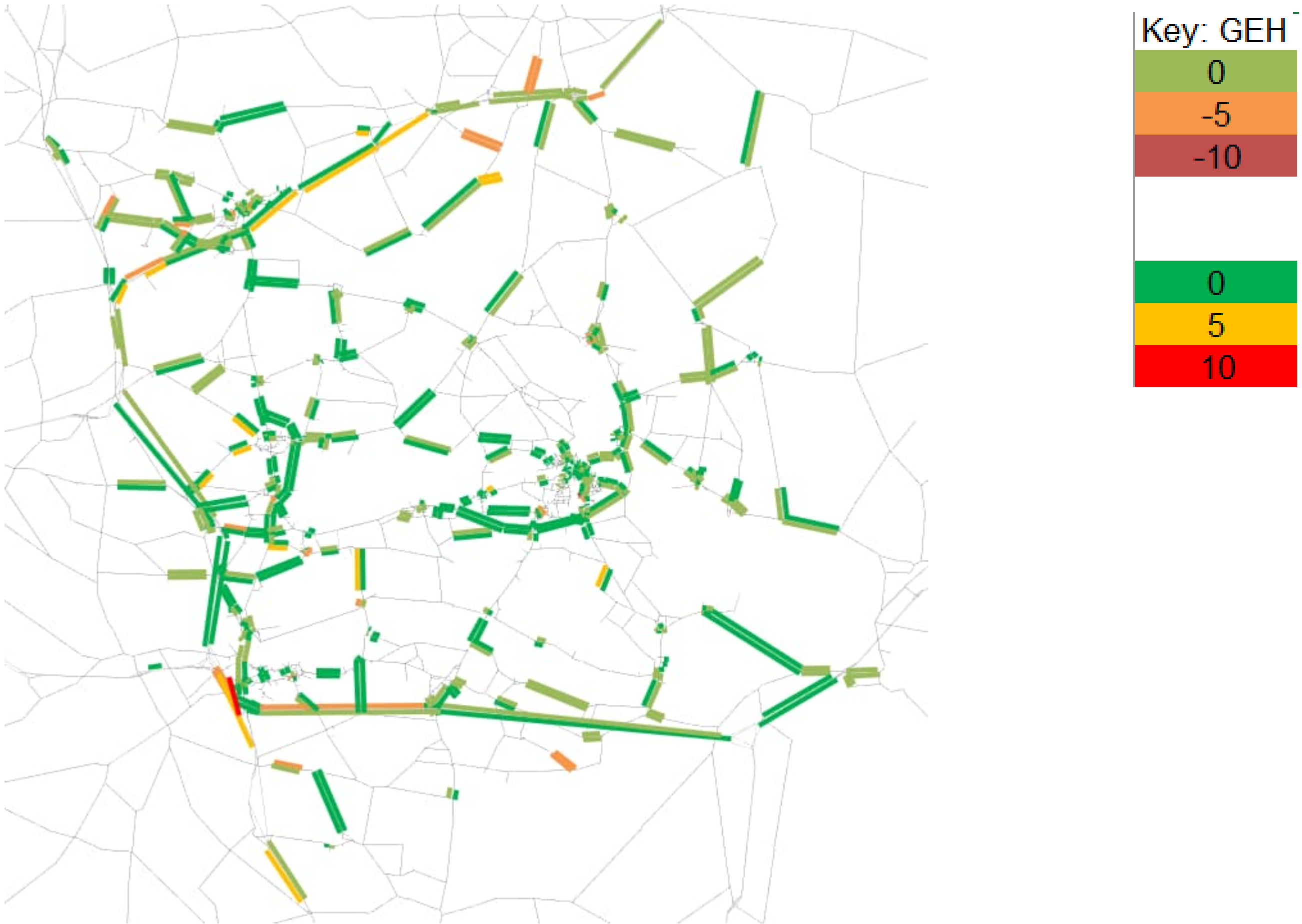


Figure 5-2 - GEH Statistic of Modelled Flow vs Observed Count by Direction - Inter Peak

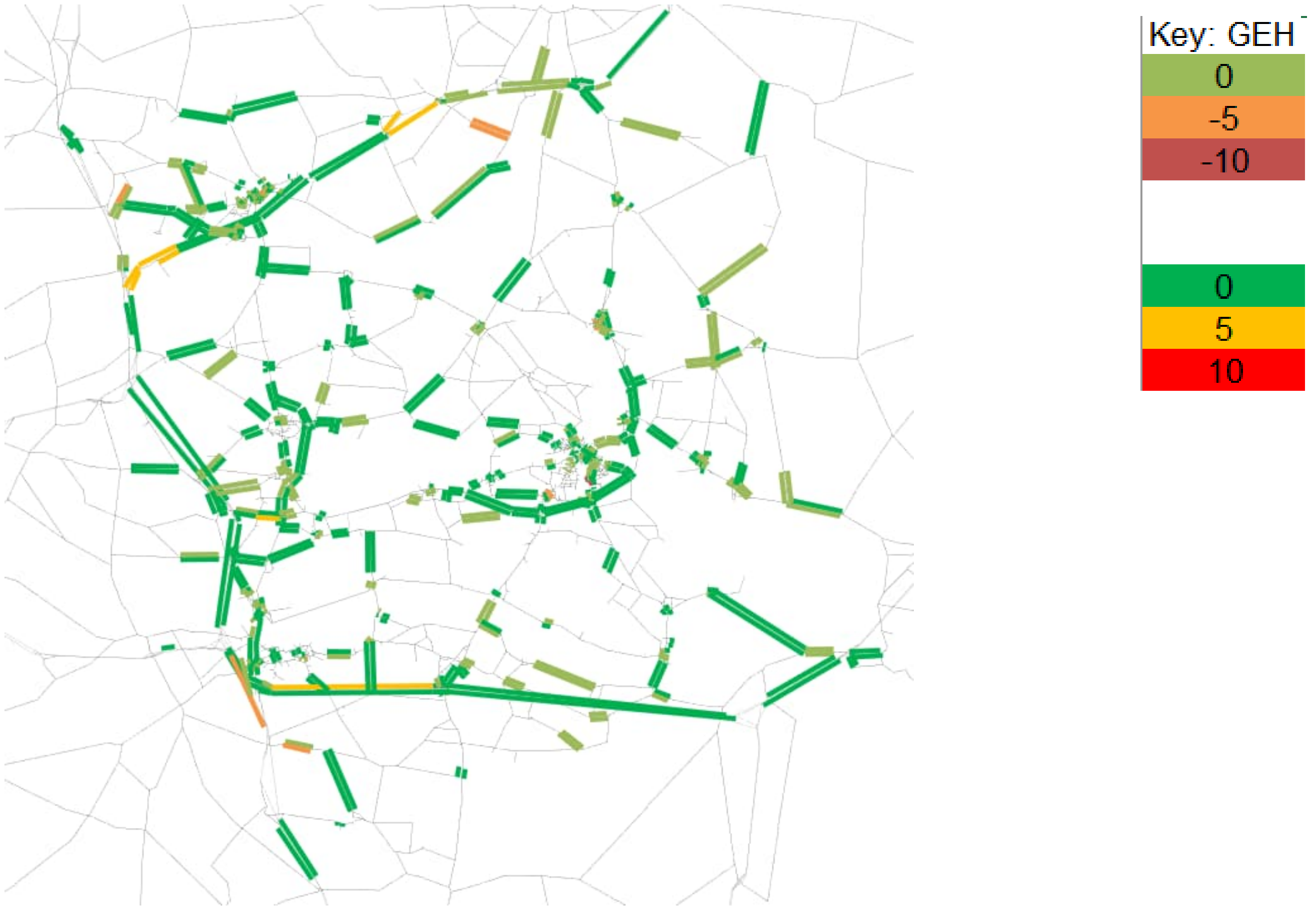


Figure 5-3 - GEH Statistic of Modelled Flow vs Observed Count by Direction - PM Peak

5.5 LINK FLOW VALIDATION

5.5.1. Trip matrix validation for the calibrated models is reported for four bi-directional validation cordons/screenlines. The trip matrices have been calibrated against the TAG criteria set out in Table 5-1.

5.5.2. There are some cordons/screenlines with relatively low observed flow. On that basis, the cordon/screenline verification is reported based on differences between modelled and observed flows 'within 5% or GEH < 4'. The latter condition is accounting for cordons/screenlines with lower cumulative flow and/or lower number of counts and has similarly been applied in other models for those reasons mentioned. A secondary, 'near pass', criteria has been defined as 'within 7.5% or GEH <5'.

5.5.3. The results are presented in Table 5-9 and show, overall, a strong level of validation for screenlines and cordons. In most cases, the screenlines and cordons primary criteria based on TAG guidance ('Within 5% or GEH < 4') is above 85% for all screenlines and cordons. In cases where this is not the case, particularly for the AM Peak, the validation is at 75%, which for a present year validation, is deemed to be acceptable.

5.5.4.

5.5.5. Table 5-10Table 5-10 to Table 5-12 shows the breakdown for 'all vehicles' by individual screenlines and cordons, including the validation ratings. The ratings are using the two criteria described above and therefore, an absolute percentage difference exceeding 5% can have a green rating if the GEH is less than 4.

5.5.6. Additional reporting of the screenline and cordon validation is provided in Appendix C including verification for cars separately.

Table 5-9 - Trip Matrix Validation

Measure	All Vehicles			Cars		
	AM Peak	Inter Peak	PM Peak	AM Peak	Inter Peak	PM Peak
Calibration Screenlines and Cordons (8)						
Within 5% or GEH < 4 ('Green' validation)	75%	100%	88%	75%	75%	88%
Within 7.5% or GEH < 5 ('Amber' validation)	75%	100%	88%	88%	75%	88%

Table 5-10 - Calibrated Trip Matrix Screenline and Cordon Validation: AM Peak

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
Strategic Screenlines and Cordons Screenlines							
Sherburn Cordon	Inbound	1,880	2,122	242	13%	5.4	R
	Outbound	1,804	2,065	261	14%	5.9	R
Screenline North-South	Northbound	1,298	1,300	2	0%	0.0	G
	Southbound	1,080	1,139	59	5%	1.8	G
Screenline East-West	Eastbound	861	898	37	4%	1.2	G
	Westbound	1,317	1,267	-51	-4%	1.4	G
Selby Town Centre Cordon	Inbound	2,969	2,930	-39	-1%	0.7	G
	Outbound	2,234	2,354	120	5%	2.5	G

Table 5-11 - Calibrated Trip Matrix Screenline and Cordon Validation: Inter Peak

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
Strategic Screenlines and Cordons Screenlines							
Sherburn Cordon	Inbound	1,242	1,381	139	11%	3.8	G
	Outbound	1,290	1,434	144	11%	3.9	G
Screenline North-South	Northbound	926	856	-70	-8%	2.4	G
	Southbound	932	942	10	1%	0.3	G
Screenline East-West	Eastbound	740	783	43	6%	1.6	G
	Westbound	746	725	-22	-3%	0.8	G
Selby Town Centre Cordon	Inbound	2,473	2,446	-27	-1%	0.5	G
	Outbound	2,478	2,525	47	2%	0.9	G

Table 5-12 - Calibrated Trip Matrix Screenline and Cordon Validation: PM Peak

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
Strategic Screenlines and Cordons Screenlines							
Sherburn Cordon	Inbound	1,977	2,326	349	18%	7.5	R

All Vehicles	Direction	Obs.	Mod.	Diff.	%Diff.	GEH	Rating
	Outbound	2,087	2,163	76	4%	1.6	G
Screenline North-South	Northbound	1,370	1,435	65	5%	1.7	G
	Southbound	1,321	1,360	38	3%	1.0	G
Screenline East-West	Eastbound	1,260	1,319	59	5%	1.6	G
	Westbound	973	950	-23	-2%	0.7	G
Selby Town Centre Cordon	Inbound	2,747	2,738	-9	0%	0.2	G
	Outbound	3,076	3,242	167	5%	3.0	G

5.5.7. The summary statistics for the link flow validation in the calibrated models is reported in Table 5-13 for all counts across the study area. The TAG criteria shown in Table 5-2 is achieved for both 'all vehicles' and 'cars' in each time period. The results are also very similar for 'all vehicles' and 'cars.

5.5.8. More detailed reporting of the link flow validation is provided in Appendix D.

Table 5-13 - Link Flow Validation: All Counts

Measure (216 counts)	All Vehicles			Cars		
	AM Peak	Inter Peak	PM Peak	AM Peak	Inter Peak	PM Peak
Pass Criteria 1	95%	97%	93%	97%	99%	95%
Pass Criteria 2	90%	95%	91%	90%	96%	91%
Pass TAG	**95%**	**97%**	**94%**	**98%**	**99%**	**96%**

6 JOURNEY TIME VALIDATION

6.1.1. Table 6-1 outlines the journey time validation criteria taken from TAG which is used to consider whether modelled journey times sufficiently match observed journey times.

Table 6-1 – Journey time validation criteria

Criteria	Guideline
Modelled times along routes should be within 15% of surveyed times (or 1 minute, if higher than 15%)	>85% of routes

6.1.2. Table 6-2 demonstrates the journey time validation performance which has been achieved across each of the modelled time periods. TAG thresholds have been achieved in each instance, with 97% and 99% achieved in both the AM and PM. 99% of routes match in the Interpeak, demonstrating the model is also accurate in representing more free flow conditions. The journey time validation performance is considered to demonstrate the SDSTM shows a high standard of fit between modelled and observed flows at a strategic scale.

Table 6-2 – SDTSM Journey Time Performance

Performance Measure (70 routes)	AM Peak	Inter Peak	PM Peak
Routes within 15% or 1 min of Observed Times ('Green' validation)	97%	99%	99%
Within 20% - Near Pass ('Yellow' validation)	100%	100%	100%

7 SUMMARY

7.1.1. This report sets out a 2023 Present Year Validation (2023 PYV) exercise which has updated the base year of the SDSTM from 2019 to 2023, with 2019 being the last year of “neutral” traffic conditions prior to the COVID-19 pandemic. The aim of the 2023 PYV is to extend the life of the current highway assignment model so it can be argued to be a suitable basis from which to derive forecasts in the short term.

7.1.2. The methodology for the PYV exercise has been adopted from TAG Unit M4.

7.1.3. The following three time periods have been retained and modelled as part of the 2023 PYV:

- AM peak hour (0800-0900)
- Inter peak average hour (1000-1600)
- PM peak hour (1700-1800)

7.1.4. A limited number of 2023 observed data has been compiled to inform the validation exercise. Link count data has been drawn together from DfT and C2Web data covering the Strategic Road Network and local roads. 2019 journey time data has been retained.

7.1.5. Due to the original build of the SDSTM being 2019, an exercise has been undertaken to compile completed highway infrastructure schemes which have come forward between 2019 and 2023. There has been no update to the highway network as part of the 2023 PYV.

7.1.6. The SDSTM demand matrix has been updated from a 2019 to 2023 situation utilising a combination of development completion information compiled for Selby District, as well as NTEM Version 8.1 and 2022 National Road Traffic Projections. The development trips have been distributed in CUBE software using a gravity model to match trip distribution of the bas year matrix. The resulting matrix was then factored to reflect post covid-19 conditions, informed by analysis of local 2022 DfT counts.

7.1.7. The validation performance of the 2023 base year models has been presented at a district-wide level, achieving TAG criteria in terms of GEH and flow. Significant strengths of the validation performance are the level of fit between modelled and observed flows on the count links and the journey time validation. The level of validation on screenlines and cordons is weaker in comparison to link flows and journey times, but the results are still acceptable for a PYV.

7.1.8. This 2023 PYV forms a basis for which forecasting models, and the local modelled responses in the forecast models can be created and assessed in order to inform local studies which may be brought forward by Selby District Council or other stakeholders.

Appendix A

DEVELOPMENT COMPLETIONS

CONFIDENTIAL

Completed Developments in Selby 2019 to 2023

Location	Planselby ref for GIS shapefile	Parish	Planning reference	Dwellings 2019-2023	SDTSM Zone
Turnhead Farm, York Road, Barlby	2017/1295/FULM	Barlby & Osgodby	2017/1295/FULM	100	78
Land North of cemetery, Station Road	Carlton-1	Carlton	2018/0870/REMM	67	227
Land North of cemetery, Station Road	Carlton-9	Carlton	2018/0871/REMM	46	227
Vine Farm, Low Street,Carlton, Goole, East Yorkshire, DN14 9PN	2019/0169/FUL	Carlton	2019/0169/FUL	7	227
RAF Church Fenton, Busk Lane, Church Fenton, Tadcaster, Leeds, North Yorkshire, LS24 9SE	2015/0318/FUL	Church Fenton	2015/0318/FUL	10	505
RAF Church Fenton, Busk Lane	Ulleskelf-6	Church Fenton	2019/0325/FULM	87	505
Main Road, Hambleton	2017/0117/REMM	Hambleton	2017/0117/REMM	115	584
Land East of Flaxley Road	Selby-21	Selby	2017/0775/REMM	129	67
Phases 4A,4B,4C,4D,4E, Staynor Hall Development, Bawtry Road	Selby-33	Selby	2015/0452/EIA	25	289
Phase 3E, 3F, 3G, 3K Staynor Hall, Abbots Road	Selby-58	Selby	2015/0580/EIA	66	289
Portholme Road	Selby-84	Selby	2020/0776/FULM	80	11
Low Street - Persimmon	2014/0321/REM	Sherburn in Elmet	2014/0321/REM	8	149
Low Street - Persimmon	2017/0234/REMM	Sherburn In Elmet	2017/0234/REMM	50	149
Land South of Saxton Way	Sherburn-54	Sherburn in Elmet	2017/0147/REMM , 2014/0261/REM, 2016/0744/REM,	102	149
Land off Hodgsons Lane	Sherburn-6	Sherburn in Elmet	2018/0045/REMM	268	586
Leeds Road (East), Thorpe Willoughby, Selby, North Yorkshire	2016/0197/REM	Thore Willoughby	2016/0197/REM	276	287

Appendix B

SELBY LMVR

Appendix C

SCREENLINE & CORDON SUMMARY

SDSTM Screenline and Cordon Calibration

Screenline			AM Peak															
			All				Car				LGV				HGV			
ID	Name	Type	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH
1	Outer Cordon Inbound	Calibration	10701	10306	-4%	3.853	7980	7705	-3%	3.099	1872	1828	-2%	1.036	849	773	-9%	2.666
2	Outer Cordon Outbound	Calibration	11391	12020	6%	5.818	8825	9331	6%	5.306	1711	1889	10%	4.197	855	800	-6%	1.882
3	Tadcaster Cordon Inbound	Calibration	5523	5512	0%	0.146	3952	4141	5%	2.974	1111	985	-11%	3.912	460	387	-16%	3.564
4	Tadcaster Cordon Outbound	Calibration	5420	5553	2%	1.791	4179	4176	0%	0.046	862	994	15%	4.315	379	383	1%	0.211
5	Sherburn Cordon Inbound	Validation	1880	2122	13%	5.414	1492	1683	13%	4.810	240	300	25%	3.679	148	138	-7%	0.832
6	Sherburn Cordon Outbound	Validation	1804	2065	14%	5.924	1403	1680	20%	7.072	254	248	-2%	0.347	148	136	-8%	0.971
7	Eggborough Cordon Inbound	Calibration	2071	2034	-2%	0.828	1597	1576	-1%	0.532	306	310	1%	0.231	168	148	-12%	1.619
8	Eggborough Cordon Outbound	Calibration	2101	2152	2%	1.113	1609	1656	3%	1.158	321	334	4%	0.708	170	162	-5%	0.644
9	Screenline North-South West NB	Validation	1298	1300	0%	0.050	1019	1005	-1%	0.435	217	229	6%	0.830	63	66	5%	0.402
10	Screenline North-South West SB	Validation	1080	1139	5%	1.766	849	900	6%	1.706	162	174	8%	0.941	69	65	-6%	0.464
11	Screenline North-South North NB	Calibration	6880	6730	-2%	1.820	4452	4532	2%	1.198	1339	1321	-1%	0.512	1089	877	-19%	6.753
12	Screenline North-South North SB	Calibration	5969	5820	-2%	1.934	3697	3709	0%	0.203	1234	1237	0%	0.083	1038	875	-16%	5.294
13	Screenline North-South Central NB	Calibration	6252	6657	6%	5.038	4508	4820	7%	4.574	1054	1133	7%	2.378	691	704	2%	0.522
14	Screenline North-South Central SB	Calibration	4914	5080	3%	2.353	3518	3704	5%	3.100	826	834	1%	0.273	570	542	-5%	1.180
15	Screenline East-West East EB	Validation	861	898	4%	1.244	644	650	1%	0.242	142	175	23%	2.629	75	73	-3%	0.272
16	Screenline East-West East WB	Validation	1317	1267	-4%	1.417	1061	1015	-4%	1.429	170	188	11%	1.339	86	63	-27%	2.645
17	Screenline East-West Central EB	Calibration	3659	3596	-2%	1.046	2225	2316	4%	1.908	807	693	-14%	4.163	627	587	-6%	1.620
18	Screenline East-West Central WB	Calibration	3618	3899	8%	4.595	2324	2640	14%	6.346	681	613	-10%	2.693	612	646	6%	1.356
19	Cordon R1 Inbound	Calibration	2910	3035	4%	2.285	2374	2493	5%	2.407	432	454	5%	1.036	104	88	-15%	1.633
20	Cordon R1 Outbound	Calibration	2648	2749	4%	1.938	2110	2229	6%	2.539	427	425	0%	0.081	111	95	-14%	1.568
21	Cordon R2 Northbound	Calibration	2380	2473	4%	1.882	1936	2049	6%	2.524	336	329	-2%	0.388	108	95	-12%	1.276
22	Cordon R2 Southbound	Calibration	1907	1976	4%	1.578	1551	1634	5%	2.078	264	259	-2%	0.327	92	84	-9%	0.867
23	Cordon R3 Eastbound	Calibration	871	1012	16%	4.573	740	847	14%	3.774	101	120	19%	1.782	30	45	51%	2.501
24	Cordon R3 Westbound	Calibration	780	849	9%	2.419	634	682	8%	1.866	107	124	16%	1.586	38	43	11%	0.645
25	Cordon R5 Inbound	Validation	2969	2930	-1%	0.722	2610	2524	-3%	1.691	321	340	6%	1.028	38	66	73%	3.845
26	Cordon R5 Outbound	Validation	2234	2354	5%	2.505	1878	1972	5%	2.145	312	322	3%	0.567	44	60	36%	2.181

Screenline			Interpeak															
			All				Car				LGV				HGV			
ID	Name	Type	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH
1	Outer Cordon Inbound	Calibration	8102	8461	4%	3.953	5963	6242	5%	3.563	1386	1487	7%	2.660	752	733	-3%	0.712
2	Outer Cordon Outbound	Calibration	8205	8583	5%	4.128	5952	6331	6%	4.840	1483	1494	1%	0.272	770	759	-2%	0.418
3	Tadcaster Cordon Inbound	Calibration	4330	4465	3%	2.041	3210	3313	3%	1.800	730	787	8%	2.065	390	365	-6%	1.252
4	Tadcaster Cordon Outbound	Calibration	4325	4461	3%	2.053	3103	3316	7%	3.769	806	777	-4%	1.036	416	368	-12%	2.442
5	Sherburn Cordon Inbound	Validation	1242	1381	11%	3.849	880	1039	18%	5.131	208	211	2%	0.233	154	131	-15%	1.917
6	Sherburn Cordon Outbound	Validation	1290	1434	11%	3.911	918	1086	18%	5.306	219	223	2%	0.276	153	125	-18%	2.352
7	Eggborough Cordon Inbound	Calibration	1485	1472	-1%	0.328	1066	1071	0%	0.148	273	262	-4%	0.666	145	139	-5%	0.551
8	Eggborough Cordon Outbound	Calibration	1511	1439	-5%	1.865	1105	1051	-5%	1.641	261	250	-4%	0.688	145	138	-5%	0.566
9	Screenline North-South West NB	Validation	926	856	-8%	2.351	685	639	-7%	1.805	169	156	-8%	1.000	72	61	-15%	1.347
10	Screenline North-South West SB	Validation	932	942	1%	0.341	676	693	3%	0.666	188	171	-9%	1.266	68	78	15%	1.174
11	Screenline North-South North NB	Calibration	5116	5247	3%	1.825	3226	3425	6%	3.455	965	999	4%	1.083	925	823	-11%	3.444
12	Screenline North-South North SB	Calibration	5513	5641	2%	1.721	3475	3648	5%	2.906	1044	1076	3%	0.997	994	917	-8%	2.502
13	Screenline North-South Central NB	Calibration	4812	5038	5%	3.223	3341	3575	7%	3.970	825	825	0%	0.002	645	638	-1%	0.288
14	Screenline North-South Central SB	Calibration	5078	5291	4%	2.953	3506	3755	7%	4.130	889	882	-1%	0.252	683	654	-4%	1.113
15	Screenline East-West East EB	Validation	740	783	6%	1.553	545	582	7%	1.541	128	132	3%	0.345	66	69	4%	0.285
16	Screenline East-West East WB	Validation	746	725	-3%	0.799	547	518	-5%	1.248	134	136	1%	0.137	65	70	9%	0.675
17	Screenline East-West Central EB	Calibration	2785	2866	3%	1.525	1635	1737	6%	2.500	516	510	-1%	0.278	634	619	-2%	0.612
18	Screenline East-West Central WB	Calibration	2853	2952	3%	1.837	1683	1803	7%	2.866	578	563	-3%	0.606	592	586	-1%	0.256
19	Cordon R1 Inbound	Calibration	2132	2216	4%	1.801	1686	1787	6%	2.441	343	346	1%	0.175	104	83	-20%	2.169
20	Cordon R1 Outbound	Calibration	2146	2244	5%	2.091	1692	1820	8%	3.059	353	344	-2%	0.471	101	80	-21%	2.249
21	Cordon R2 Northbound	Calibration	1770	1848	4%	1.843	1396	1503	8%	2.821	268	254	-5%	0.838	106	91	-15%	1.562
22	Cordon R2 Southbound	Calibration	1832	1882	3%	1.170	1430	1524	7%	2.457	287	264	-8%	1.382	115	94	-18%	2.058
23	Cordon R3 Eastbound	Calibration	626	673	8%	1.851	492	534	8%	1.846	99	104	6%	0.559	35	34	-1%	0.050
24	Cordon R3 Westbound	Calibration	618	686	11%	2.662	492	547	11%	2.393	95	102	7%	0.688	31	37	22%	1.135
25	Cordon R5 Inbound	Validation	2473	2446	-1%	0.539	2129	2075	-3%	1.179	319	311	-2%	0.434	25	60	140%	5.376
26	Cordon R5 Outbound	Validation	2478	2525	2%	0.933	2139	2143	0%	0.079	314	324	3%	0.536	25	58	134%	5.180

Screenline			PM Peak															
			All				Car				LGV				HGV			
ID	Name	Type	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH	Observed	Modelled	Difference	GEH
1	Outer Cordon Inbound	Calibration	12507	13059	4%	4.877	10783	11066	3%	2.703	1334	1579	18%	6.406	390	414	6%	1.214
2	Outer Cordon Outbound	Calibration	11582	11523	-1%	0.547	9851	9660	-2%	1.928	1345	1441	7%	2.588	386	421	9%	1.747
3	Tadcaster Cordon Inbound	Calibration	5611	5874	5%	3.468	4855	4916	1%	0.874	578	761	32%	7.054	179	198	11%	1.401
4	Tadcaster Cordon Outbound	Calibration	5683	5779	2%	1.260	4702	4822	3%	1.739	735	751	2%	0.612	246	205	-17%	2.749
5	Sherburn Cordon Inbound	Validation	1977	2326	18%	7.529	1712	2042	19%	7.619	187	217	16%	2.079	77	67	-14%	1.234
6	Sherburn Cordon Outbound	Validation	2087	2163	4%	1.644	1841	1924	4%	1.906	178	180	1%	0.122	67	59	-13%	1.077
7	Eggborough Cordon Inbound	Calibration	2203	2274	3%	1.497	1891	1941	3%	1.140	249	262	5%	0.800	63	71	13%	0.995
8	Eggborough Cordon Outbound	Calibration	2188	2271	4%	1.767	1880	1942	3%	1.417	241	254	5%	0.840	67	76	12%	0.982
9	Screenline North-South West NB	Validation	1370	1435	5%	1.738	1185	1229	4%	1.278	157	174	11%	1.311	28	32	14%	0.692
10	Screenline North-South West SB	Validation	1321	1360	3%	1.048	1117	1135	2%	0.544	177	184	4%	0.559	28	40	46%	2.165
11	Screenline North-South North NB	Calibration	6507	6589	1%	1.008	4912	5089	4%	2.504	924	1005	9%	2.611	671	495	-26%	7.313
12	Screenline North-South North SB	Calibration	7025	7087	1%	0.728	5368	5383	0%	0.206	1010	1062	5%	1.616	647	641	-1%	0.235
13	Screenline North-South Central NB	Calibration	5794	6084	5%	3.769	4768	4982	4%	3.064	673	726	8%	2.024	353	376	7%	1.208
14	Screenline North-South Central SB	Calibration	6622	7011	6%	4.701	5468	5765	5%	3.972	769	833	8%	2.259	386	413	7%	1.331
15	Screenline East-West East EB	Validation	1260	1319	5%	1.633	1094	1128	3%	1.035	144	153	6%	0.753	22	37	67%	2.742
16	Screenline East-West East WB	Validation	973	950	-2%	0.728	844	800	-5%	1.522	114	120	4%	0.469	15	31	110%	3.365
17	Screenline East-West Central EB	Calibration	3894	4326	11%	6.734	2914	3375	16%	8.223	559	575	3%	0.654	421	376	-11%	2.253
18	Screenline East-West Central WB	Calibration	3341	3479	4%	2.359	2519	2661	6%	2.788	487	489	1%	0.118	335	329	-2%	0.369
19	Cordon R1 Inbound	Calibration	3224	3397	5%	3.000	2860	2999	5%	2.572	320	350	10%	1.687	45	48	6%	0.376
20	Cordon R1 Outbound	Calibration	2910	3080	6%	3.112	2587	2728	5%	2.746	283	304	7%	1.239	39	47	19%	1.146
21	Cordon R2 Northbound	Calibration	2343	2435	4%	1.894	2076	2160	4%	1.842	225	229	2%	0.241	42	46	10%	0.626
22	Cordon R2 Southbound	Calibration	2517	2654	5%	2.702	2246	2371	6%	2.596	229	232	1%	0.198	42	51	23%	1.413
23	Cordon R3 Eastbound	Calibration	962	1028	7%	2.108	867	897	3%	1.014	82	111	35%	2.907	12	20	63%	1.942
24	Cordon R3 Westbound	Calibration	864	1023	18%	5.169	784	914	17%	4.458	68	90	34%	2.565	12	18	49%	1.549
25	Cordon R5 Inbound	Validation	2747	2738	0%	0.173	2497	2456	-2%	0.824	243	245	1%	0.177	7	37	393%	6.216
26	Cordon R5 Outbound	Validation	3076	3242	5%	2.964	2821	2948	5%	2.382	247	259	5%	0.749	8	35	316%	5.726

Appendix D

LINK FLOW VERIFICATION

SDSTM Link Flow Verification

AM Peak

ID	Calibration / Validation	Ref	Dir	A-Node	B-Node	ALL VEHICLES Observed	ALL VEHICLES Modelled	ALL VEHICLES GEH	ALL VEHICLES GEH Pass?	ALL VEHICLES Flow Pass?	CAR Observed	CAR Modelled	CAR GEH	CAR GEH Pass?	CAR Flow Pass?	LGV Observed	LGV Modelled	LGV GEH	HGV Observed	HGV Modelled	HGV GEH
1	Calibration	ATC 1	NB	5061	5060	146	154	0.650	Yes	Yes	121.4264	127	0.508	Yes	Yes	18.88746	27	1.678	5.734699	0	3.387
2	Calibration	ATC 1	SB	5060	5061	177	183	0.438	Yes	Yes	147.0946	162	1.230	Yes	Yes	22.88006	20	0.535	6.946952	0	3.727
3	Calibration	ATC 2	EB	80063	80067	11	25	3.249	Yes	Yes	9.35768	22	3.106	Yes	Yes	1.455555	4	1.319	0.441942	0	0.940
4	Calibration	ATC 2	WB	80067	80063	29	46	2.694	Yes	Yes	24.4417	42	2.981	Yes	Yes	3.801823	4	0.276	1.154327	0	1.519
5	Calibration	ATC 3	EB	80674	79912	768	580	7.264	No	No	592.0778	396	8.842	No	No	114.1103	115	0.069	62.01774	69	0.886
6	Calibration	ATC 3	WB	79912	80674	879	925	1.533	Yes	Yes	677.2888	699	0.842	Yes	Yes	130.5329	131	0.078	70.94325	94	2.539
7	Calibration	ATC 4	EB	80314	80313	15	15	0.123	Yes	Yes	12.53193	12	0.137	Yes	Yes	1.949298	2	0.147	0.591855	0	0.287
8	Calibration	ATC 4	WB	80313	80314	11	16	1.355	Yes	Yes	8.994547	14	1.400	Yes	Yes	1.399071	1	0.258	0.424792	1	0.622
9	Calibration	ATC 7	EB	5015	5014	188	192	0.257	Yes	Yes	145.0077	149	0.297	Yes	Yes	27.94713	28	0.042	15.18897	15	0.072
10	Calibration	ATC 7	WB	5014	5015	233	234	0.101	Yes	Yes	179.3395	184	0.334	Yes	Yes	34.56384	36	0.202	18.78508	15	1.017
11	Calibration	ATC 8	NB	80366	80365	15	23	1.914	Yes	Yes	12.31862	18	1.480	Yes	Yes	1.916119	4	1.124	0.581781	1	0.694
12	Calibration	ATC 8	SB	80365	80366	14	16	0.655	Yes	Yes	11.24318	12	0.351	Yes	Yes	1.748839	2	0.260	0.530991	1	0.949
13	Calibration	ATC 9	NB	80545	80378	210	193	1.178	Yes	Yes	174.3043	174	0.032	Yes	Yes	27.11243	19	1.678	8.232004	0	4.058
14	Calibration	ATC 9	SB	80378	80545	191	184	0.490	Yes	Yes	158.5219	152	0.544	Yes	Yes	24.65754	25	0.025	7.486638	7	0.021
15	Calibration	ATC 10	NB	80392	80391	458	457	0.009	Yes	Yes	352.7397	329	1.307	Yes	Yes	67.98301	84	1.825	36.94805	45	1.254
16	Calibration	ATC 10	SB	80391	80392	419	403	0.773	Yes	Yes	322.589	322	0.009	Yes	Yes	62.1721	47	2.061	33.78988	34	0.046
17	Calibration	ATC 11	NB	42131	42130	6	6	0.201	Yes	Yes	4.888341	5	0.026	Yes	Yes	0.760365	1	0.343	0.230865	0	0.384
18	Calibration	ATC 11	SB	42130	42131	4	5	0.439	Yes	Yes	3.030771	3	0.018	Yes	Yes	0.471426	1	0.709	0.143137	0	0.540
19	Calibration	ATC 12	NB	80409	72579	414	357	2.864	Yes	Yes	318.861	261	3.385	Yes	Yes	61.45362	63	0.225	33.39939	33	0.062
20	Calibration	ATC 12	SB	72579	80409	406	367	1.945	Yes	Yes	312.6477	281	1.858	Yes	Yes	60.25614	55	0.759	32.74858	32	0.084
23	Calibration	ATC 13	NB	80341	80340	139	107	2.867	Yes	Yes	115.5821	87	2.873	Yes	Yes	17.9784	15	0.710	5.458686	5	0.011
24	Calibration	ATC 13	SB	80340	80341	110	114	0.377	Yes	Yes	91.53418	95	0.401	Yes	Yes	14.23783	14	0.038	4.322956	4	0.013
25	Validation	ATC 14	NB	80329	80333	160	89	6.303	No	Yes	132.637	56	7.873	No	Yes	20.63123	26	1.100	6.26415	7	0.339
26	Validation	ATC 14	SB	80333	80329	121	107	1.345	Yes	Yes	100.6998	77	2.486	Yes	Yes	15.66351	24	1.828	4.755829	6	0.426
27	Calibration	ATC 15	EB	5072	5073	112	95	1.670	Yes	Yes	93.32286	76	1.924	Yes	Yes	14.51605	15	0.206	4.407432	4	0.059
28	Calibration	ATC 15	WB	5073	5072	80	83	0.311	Yes	Yes	66.65919	67	0.069	Yes	Yes	10.36861	11	0.199	3.148166	5	0.803
29	Validation	ATC 17	EB	42205	79918	129	181	4.209	Yes	Yes	107.0547	132	2.292	Yes	Yes	16.65199	37	3.899	5.055954	12	2.441
30	Validation	ATC 17	WB	79918	42205	128	199	5.561	No	Yes	106.4769	148	3.691	Yes	Yes	16.56212	39	4.252	5.02867	12	2.418
31	Validation	ATC 18	NB	5090	70468	181	263	5.476	No	Yes	150.7781	238	6.239	No	Yes	23.45302	25	0.362	7.120918	0	3.774
32	Validation	ATC 18	SB	70468	5090	97	114	1.570	Yes	Yes	81.04869	81	0.036	Yes	Yes	12.60685	32	4.146	3.82775	0	2.767
33	Validation	ATC 19	NB	80234	5052	97	62	3.883	Yes	Yes	80.26655	55	3.131	Yes	Yes	12.48519	5	2.639	3.790811	3	0.621
34	Validation	ATC 19	SB	5052	80234	95	104	0.863	Yes	Yes	79.01336	98	2.054	Yes	Yes	12.29026	4	2.852	3.731626	1	1.650
35	Validation	ATC 20	EB	80103	5056	242	282	2.489	Yes	Yes	201.1063	226	1.678	Yes	Yes	31.2814	37	0.997	9.497806	19	2.617
36	Validation	ATC 20	WB	5056	80103	294	297	0.193	Yes	Yes	244.3281	240	0.261	Yes	Yes	38.00441	47	1.323	11.53908	10	0.373
37	Calibration	ATC 21	NB	3251	3252	98	117	1.775	Yes	Yes	81.83082	97	1.653	Yes	Yes	12.7285	15	0.677	3.864688	4	0.118
38	Calibration	ATC 21	SB	3252	3251	146	101	4.077	Yes	Yes	121.7641	75	4.746	Yes	Yes	18.93999	20	0.329	5.750649	6	0.095
39	Calibration	ATC 22	NB	2034	2035	85	85	0.062	Yes	Yes	70.2699	71	0.114	Yes	Yes	10.93024	11	0.061	3.318691	3	0.107
40	Calibration	ATC 22	SB	2035	2034	124	138	1.250	Yes	Yes	102.7774	120	1.593	Yes	Yes	15.98667	15	0.349	4.853947	4	0.548
43	Calibration	ATC 24	EB	80055	80523	43	42	0.127	Yes	Yes	35.46269	35	0.093	Yes	Yes	5.5161	5	0.067	1.674824	2	0.091
44	Calibration	ATC 24	WB	80523	80055	31	31	0.014	Yes	Yes	26.00597	26	0.030	Yes	Yes	4.04514	4	0.008	1.228204	1	0.054
45	Calibration	ATC 25	EB	80051	80053	26	36	1.844	Yes	Yes	21.59758	21	0.184	Yes	Yes	3.359429	14	3.691	1.020006	1	0.146
46	Calibration	ATC 25	WB	80053	80051	25	28	0.445	Yes	Yes	21.11763	22	0.237	Yes	Yes	3.284775	4	0.521	0.997339	1	0.168
47	Calibration	ATC 26	NB	79973	80014	239	205	2.250	Yes	Yes	198.6444	178	1.509	Yes	Yes	30.89845	23	1.431	9.381534	4	2.077
48	Calibration	ATC 26	SB	80014	79973	106	83	2.421	Yes	Yes	88.16789	68	2.280	Yes	Yes	13.71421	14	0.053	4.163974	1	1.969
49	Calibration	ATC 27	EB	79924	79926	194	163	2.305	Yes	Yes	149.5421	141	0.732	Yes	Yes	28.82103	19	1.975	15.66393	3	3.996
50	Calibration	ATC 27	WB	79926	79924	208	191	1.159	Yes	Yes	159.999	163	0.228	Yes	Yes	30.83636	25	1.043	16.75924	3	4.366
51	Calibration	ATC 28	EB	1521	1170	156	129	2.237	Yes	Yes	129.8126	119	0.929	Yes	Yes	20.1919	9	3.008	6.130761	1	2.563
52	Calibration	ATC 28	WB	1170	1521	161	152	0.763	Yes	Yes	134.2338	140	0.465	Yes	Yes	20.87961	12	2.243	6.339566	0	3.216
53	Calibration	ATC 29	EB	80183	80205	109	105	0.395	Yes	Yes	90.38986	87	0.371	Yes	Yes	14.05983	13	0.200	4.268913	4	0.071
54	Calibration	ATC 29	WB	80205	80183	136	177	3.327	Yes	Yes	112.6985	153	3.535	Yes	Yes	17.52986	19	0.247	5.322499	5	0.099
55	Calibration	ATC 30	NB	2040	2041	168	211	3.080	Yes	Yes	140.051	189	3.788	Yes	Yes	21.78445	22	0.101	6.614296	0	3.637
56	Calibration	ATC 30	SB	2041	2040	128	120	0.661	Yes	Yes	106.2992	105	0.099	Yes	Yes	16.53447	15	0.332	5.020275	0	3.169
57	Validation	ATC 31	NB	80525	80526	54	69	1.877	Yes	Yes	44.7772	60	2.067	Yes	Yes	6.96494	6	0.359	2.114728	3	0.422
58	Validation	ATC 31	SB	80526	80525	38	29	1.590	Yes	Yes	31.90753	25	1.363	Yes	Yes	4.963107	4	0.347	1.506922	0	1.326
59	Calibration	ATC 32	NB	80657	80656	207	223	1.095	Yes	Yes	171.7763	196	1.793	Yes	Yes	26.71921	27	0.031	8.112613	0	4.028
60	Calibration	ATC 32	SB	80656	80657	94	88	0.627	Yes	Yes	77.92015	77	0.064	Yes	Yes	12.12021	10	0.516	3.679996	0	2.713
61	Calibration	ATC 33	NB	72805	1184	1172	1165	0.228	Yes	Yes	903.5865	906	0.089	Yes	Yes	174.1469	180	0.411	94.647	79	1.712
62	Calibration	ATC 33	SB	1184	72805	709	733	0.878	Yes	Yes	546.6965	549	0.097	Yes	Yes	105.364	110	0.412	57.26424	74	2.100
63	Validation	ATC 34	EB	80764	1451	75	55	2.453	Yes	Yes	62.57076	41	2.961	Yes	Yes	9.732667	10	0.057	2.955078	4	0.696
64	Validation	ATC 34	WB	1451	80764	115	98	1.637	Yes	Yes	95.45596	55	4.679	Yes	Yes	14.84785	35	4.041	4.508173	8	1.400
65	Calibration	ATC 35	NB	80704	80705	121	122	0.081	Yes	Yes	100.6998	103	0.238	Yes	Yes	15.66351	14	0.336	4.755829	5	0.095
66	Calibration	ATC 35	SB	80705	80704	164	135	2.355	Yes	Yes	136.1625	107	2.619	Yes	Yes	21.17961	21	0.065	6.430653	6	0.074
67	Calibration	ATC 36	SB	80499	80498	123	117	0.551	Yes	Yes	102.0965	96	0.663	Yes	Yes	15.88076	17	0.178	4.821791	5	0.073
68	Calibration	ATC 36	NB	80498	80499	221	230	0.609	Yes	Yes	183.3826	192	0.629	Yes	Yes	28.52454	29	0.129	8.660754	8	0.058
69	Calibration	ATC 37	NB	4049	1581	6	6	0.083	Yes	Yes	4.888341	5	0.132	Yes	Yes	0.760365	1	0.333	0.230865	0	0.680
70	Calibration	ATC 37	SB	1581	4049	5	7	0.666	Yes	Yes	4.08843	5	0.615	Yes	Yes	0.635941	1	0.479	0.193087	0	0.621
71	Calibration	ATC 38	EB	4049	1251	313	321	0.455	Yes	Yes	241.273	251	0.607	Yes	Yes	46.50018	45	0.199	25.27236	25	0.015
72	Calibration	ATC 38	WB	1251	4049	351	321	1.640	Yes	Yes	270.8011	241	1.860	Yes	Yes	52.1911	52	0.017	28.36532	28	0.037
73	Calibration	ATC 39	EB	5003	5002	338	365	1.436	Yes	Yes	260.5378	282	1.330	Yes	Yes	50.21306	52	0.197	27.29027	31	0.666
74	Calibration	ATC 39	WB	5002	5003	470	490	0.932	Yes	Yes	361.9936	373	0.554	Yes	Yes	69.76649	77	0.817	37.91735	41	0.445
75	Calibration	ATC 40	NB	5009	80651	338	416	3.997	Yes	Yes	260.5378	336	4.347	Yes	Yes	50.21306	54	0.456	27.29027	27	0.141
76	Calibration	ATC 41	EB	80457	80458	35	35	0.055	Yes	Yes	29.05071	30	0.231	Yes	Yes	4.518738	4	0.099	1.372001	0	1.657
77	Calibration	ATC 41	WB	80458	80457	22	20	0.420	Yes	Yes	18.57569	17	0.330	Yes	Yes	2.889386	3	0.189	0.877289	0	1.325
78	Validation	ATC 44	NB	1077	1076	848	784	2.240	Yes	Yes	653.5527	629	0.964	Yes	Yes	125.9583	129	0.257	68.45699	26	6.180
79	Validation	ATC 44	SB	1076	1077	695	670	0.975	Yes	Yes	536.0289	536	0.003	Yes	Yes	103.3081	112	0.835	56.14685	22	5.475
80	Calibration	ATC 46	EB	80905	80827	97	93	0.425	Yes	Yes	81.03782	77	0.416	Yes	Yes	12.60516	12	0.149	3.827237	4	0.035
81	Calibration	ATC 46	WB	80827	80905	58	50	1.095	Yes	Yes	48.55752	42	0.961	Yes	Yes	7.552955	6	0.629	2.293264	2	0.019
84	Validation	ATC 48	NB	5055	5107	511	544	1.410	Yes	Yes	394.0981	475	3.903	Yes	Yes	75.95394	48	3.562	41.28017	20	3.781
85	Validation	ATC 48	SB	5107	5055	367	386	0.996	Yes	Yes	282.6535	319	2.108	Yes	Yes	54.4754	54	0.020	29.60681	13	3.727
86	Calibration	ATC 49	NB	5103	5045	103	111	0.724	Yes	Yes	85.93703	94	0.817	Yes	Yes	13.36721	14	0.275	4.058615	3	0.691
87	Calibration	ATC 49	SB	5045	5103	92	57	4.111	Yes	Yes	76.70251	40	4.881	Yes	Yes	11.93081	14	0.502	3.622489	4	0.043
88	Calibration	ATC 50	EB	80459	80460	43	38	0.784	Yes	Yes	35.52194	32	0.541	Yes	Yes	5.525316	5	0.062	1.677623	0	1.832
89	Calibration	ATC 50	WB	80460	80459	35	35	0.012	Yes	Yes	28.75974	30	0.289	Yes	Yes	4.473478	4	0.068	1.358259	0	1.648
90	Calibration	ATC 51	EB	1461	42203	23	27	0.621	Yes	Yes	19.46448	19	0.138	Yes	Yes	3.027634	7	1.727	0.919264	1	0.149
91	Calibration	ATC 51	WB	42203	1461	20	43	4.102	Yes	Yes	16.4426	33	3.379	Yes	Yes	2.55759	9	2.567	0.776548	1	0.010
92	Calibration	ATC 52	NB	1366	80201	10	4	2.426	Yes	Yes	8.473124	2	2.904	Yes	Yes	1.317965	1	0.227	0.400167	1	0.558
93	Calibration	ATC 52	SB	80201	1366	10	4	2.475	Yes	Yes	8.603479	2	2.694	Yes	Yes	1.338242	1	0.244	0.406323	0	0.025
94	Calibration	ATC 53	NB	80430	70505	57	53	0.582	Yes	Yes	47.4169	44	0.581	Yes	Yes	7.375537	7	0.050	2.239395	2	0.181
95	Calibration	ATC 53	SB	70505	80430	35	36	0.064	Yes	Yes	29.20783	30	0.140	Yes	Yes	4.543179	4	0.101	1.379421	1	0.148
96	Calibration	Error 2042	NB	5077	80560	726	668	2.176	Yes	Yes	544.1406	524	0.892	Yes	Yes	123.2887	127	0.291	58.50057	18	6.468
97	Calibration	Site1	EB	1007	1407	440	472	1.508	Yes	Yes	356.9269	364	0.352	Yes	Yes	62.35998	73	1.341	20.98303	35	2.729
98	Calibration	Site1	WB	1407	1007	512	589	3.293	Yes	Yes	414.7338	468	2.513	Yes	Yes	72.45962	85	1.461	24.38139	36	2.094
99	Calibration	Site2	EB	1149	1150	181	259	5.214	No	Yes	154.6574	230	5.446	No	Yes	23.4515	23	0.046	3.372691	5	0.971
100	Calibration	Site2	WB	1150	1149	136	171	2.853	Yes	Yes	115.7966	144	2.493	Yes	Yes	17.55883	23	1.245	2.525233	4	0.733
101	Calibration	Site3	EB	3028	3321	144	154	0.791	Yes	Yes	122.6558	132	0.859	Yes	Yes	18.59893	19	0.136	2.674815	2	0.423
102	Calibration	Site3	WB	3321	3028	93	94	0.130	Yes	Yes	78.91251	80	0.137	Yes	Yes	11.96591	12	0.047	1.720884	2	0.102
103	Calibration	Site4	NB	1119	1120	570	542	1.176	Yes	Yes	461.886	454	0.346	Yes	Yes	80.69774	77	0.463	27.15337	11	3.718
104	Calibration	Site4	SB	1120	1119	427	423	0.159	Yes	Yes	345.9751	352	0.312	Yes	Yes	60.44655	61	0.093	20.3392	11	2.499
105	Calibration	Site5	EB	3086	3089	229	241	0.728	Yes	Yes	195.5171	202	0.445	Yes	Yes	29.64727	31	0.199	4.263738	8	1.527
106	Calibration	Site5	WB	3089	3086	211	224	0.873	Yes	Yes	179.9922	192	0.845	Yes	Yes	27.29314	29	0.249	3.925178	4	0.026
107	Calibration	Site7	EB	3101	3104	125	128	0.277	Yes	Yes	106.2487	109	0.300	Yes	Yes	16.11105	16	0.003	2.317019	2	0.011
108	Calibration	Site7	WB	3104	3101	135	137	0.094	Yes	Yes	115.4182	116	0.053	Yes	Yes	17.50145	18	0.168	2.516981	2	0.118
109	Calibration	Site8	NB	3207	80272	142	145	0.184	Yes	Yes	121.3855	124	0.214	Yes	Yes	18.40632	18	0.055	2.647115	3	0.045
110	Calibration	Site8	SB	80272	3207	124	104	1.881	Yes	Yes	105.8253	89	1.721	Yes	Yes	16.04684	13	0.805	2.307785	2	0.034
111	Calibration	Site9	EB	3257	3259	93	107	1.427	Yes	Yes	78.88605	93	1.511	Yes	Yes	11.9619	12	0.080	1.720307	2	0.026
112	Calibration	Site9	WB	3259	3257	86	102	1.583	Yes	Yes	73.64639	87	1.495	Yes	Yes	11.16738	13	0.626	1.606043	1	0.195
113	Calibration	Site10	EB	3254	3256	79	89	1.126	Yes	Yes	66.9248	76	1.033	Yes	Yes	10.14815	12	0.426	1.459462	2	0.136
114	Calibration	Site10	WB	3256	3254	91	71	2.160	Yes	Yes	77.24535	57	2.467	Yes	Yes	11.71311	13	0.243	1.684528	2	0.050
115	Calibration	Site11	EB	3250	3323	41	62	2.958	Yes	Yes	34.66911	52	2.598	Yes	Yes	5.257057	9	1.450	0.756046	1	0.226
116	Calibration	Site11	WB	3323	3250	54	67	1.670	Yes	Yes	45.99261	56	1.466	Yes	Yes	6.974097	9	0.747	1.002984	1	0.342
119	Validation	20206	1: N/W Bound	79929	1234	198	237	2.591	Yes	Yes	148.5984	201	3.991	Yes	Yes	31.8694	29	0.470	17.9126	6	3.473
120	Validation	20206	2: S/E Bound	1234	79929	195	204	0.632	Yes	Yes	146.2252	181	2.706	Yes	Yes	31.36044	19	2.448	17.62653	4	4.048
121	Calibration	140200	1: East Bound	80288	72893	23	36	2.293	Yes	Yes	19.62696	23	0.641	Yes	Yes	2.968907	9	2.370	0.716633	5	2.348
122	Calibration	140200	2: West Bound	72893	80288	28	32	0.773	Yes	Yes	23.44388	27	0.798	Yes	Yes	3.546279	3	0.117	0.855998	1	0.410
123	Calibration	5060124	1: North Bound	80546	42130	647	590	2.291	Yes	Yes	497.3319	438	2.751	Yes	Yes	94.87654	99	0.402	54.54159	53	0.194
124	Calibration	5060124	2: South Bound	42130	80546	644	676	1.242	Yes	Yes	495.4886	510	0.653	Yes	Yes	94.52489	111	1.628	54.33944	55	0.103
125	Calibration	5060272	1: East Bound	80556	5065	388	444	2.747	Yes	Yes	290.5353	319	1.647	Yes	Yes	62.31014	83	2.456	35.0222	41	1.023
126	Calibration	5060272	2: West Bound	5065	80556	645	675	1.176	Yes	Yes	483.3283	527	1.934	Yes	Yes	103.6578	104	0.006	58.26219	45	1.854
127	Calibration	6080125	1: North Bound	5068	5066	276	337	3.484	Yes	Yes	206.5056	284	4.947	Yes	Yes	44.28857	52	1.075	24.89295	1	6.664
128	Calibration	6080125	2: South Bound	5066	5068	209	206	0.149	Yes	Yes	156.2591	170	1.103	Yes	Yes	33.51237	36	0.364	18.83605	0	5.914
129	Calibration	6080130	1: East Bound	80901	80484	169	178	0.639	Yes	Yes	130.2124	133	0.264	Yes	Yes	24.84076	29	0.813	14.28018	15	0.303
130	Calibration	6080130	2: West Bound	80484	80901	222	202	1.351	Yes	Yes	170.7115	151	1.523	Yes	Yes	32.56682	34	0.288	18.72166	17	0.481
131	Calibration	6080223	2: East Bound	5058	80123	175	187	0.963	Yes	Yes	144.2171	143	0.118	Yes	Yes	24.52491	39	2.546	5.78793	6	0.013
132	Calibration	6080223	4: West Bound	80123	5058	235	218	1.136	Yes	Yes	194.0722	177	1.223	Yes	Yes	33.00306	33	0.069	7.78879	8	0.011
133	Calibration	7080276	1: West Bound	80913	1009	549	604	2.292	Yes	Yes	421.8483	473	2.426	Yes	Yes	80.47646	93	1.347	46.26343	37	1.366
134	Calibration	7080276	2: East Bound	1009	80913	486	522	1.593	Yes	Yes	374.0616	406	1.609	Yes	Yes	71.36013	79	0.910	41.02273	37	0.622
135	Calibration	8100167	1: West Bound	1151	1050	323	340	0.930	Yes	Yes	271.7489	286	0.841	Yes	Yes	41.10658	44	0.507	9.922278	10	0.135
136	Calibration	8100167	2: East Bound	1050	1151	242	272	1.896	Yes	Yes	203.6012	226	1.497	Yes	Yes	30.7981	38	1.186	7.434023	9	0.534
137	Validation	1.2E+07	1: South Bound	80092	5115	388	425	1.864	Yes	Yes	257.5414	278	1.230	Yes	Yes	57.81542	66	1.059	72.53207	82	1.040
138	Validation	1.2E+07	2: North Bound	5115	80092	647	742	3.581	Yes	Yes	490.6431	552	2.689	Yes	Yes	70.64487	88	1.919	86.12867	102	1.640
139	Calibration	1.2E+07	1: West Bound	1012	80915	391	416	1.239	Yes	Yes	293.1196	319	1.495	Yes	Yes	62.86439	64	0.120	35.33372	33	0.379
140	Calibration	1.2E+07	2: East Bound	80915	1012	375	401	1.332	Yes	Yes	280.8077	311	1.756	Yes	Yes	60.22391	57	0.454	33.84961	33	0.084
141	Calibration	1.2E+07	1: South Bound	80917	1160	439	473	1.637	Yes	Yes	328.4938	358	1.602	Yes	Yes	70.45097	77	0.722	39.59786	39	0.148
142	Calibration	1.2E+07	2: North Bound	1160	80917	530	528	0.073	Yes	Yes	396.7857	393	0.200	Yes	Yes	85.09732	88	0.329	47.83002	47	0.112
143	Calibration	1.2E+07	1: South Bound	1079	1080	592	632	1.635	Yes	Yes	443.416	483	1.836	Yes	Yes	95.09797	97	0.172	53.45101	53	0.103
144	Calibration	1.2E+07	2: North Bound	1080	1079	735	783	1.733	Yes	Yes	550.4278	608	2.411	Yes	Yes	118.0484	122	0.386	66.35061	52	1.890
145	Validation	1.2E+07	2: South Bound	80114	42139	257	289	1.944	Yes	Yes	212.4098	261	3.167	Yes	Yes	36.12146	28	1.427	8.524739	0	4.129
146	Validation	1.2E+07	4: North Bound	42139	80114	250	298	2.898	Yes	Yes	206.8066	260	3.469	Yes	Yes	35.16862	38	0.544	8.299866	0	4.074
147	Calibration	1.4E+07	1: East Bound	80920	1023	612	655	1.725	Yes	Yes	458.1664	495	1.677	Yes	Yes	98.26144	105	0.691	55.22908	55	0.023
148	Calibration	1.4E+07	2: West Bound	1023	80920	604	598	0.235	Yes	Yes	452.1711	444	0.395	Yes	Yes	96.97564	102	0.467	54.50638	52	0.283
149	Calibration	1.6E+07	1: North Bound	1116	1117	423	388	1.758	Yes	Yes	316.8957	313	0.223	Yes	Yes	67.96357	64	0.490	38.19978	11	5.545
150	Calibration	1.6E+07	2: South Bound	1117	1116	324	310	0.769	Yes	Yes	242.3824	247	0.265	Yes	Yes	51.98294	53	0.117	29.21767	11	4.189
151	Calibration	1.6E+07	1: East Bound	79932	1026	360	332	1.484	Yes	Yes	269.6468	243	1.646	Yes	Yes	57.83026	57	0.082	32.50423	32	0.113
152	Calibration	1.6E+07	2: West Bound	1026	79932	430	392	1.835	Yes	Yes	321.749	332	0.544	Yes	Yes	69.00445	44	3.301	38.78482	17	4.222
155	Calibration	1.9E+07	1: East Bound	1066	1155	327	348	1.175	Yes	Yes	270.0966	287	1.042	Yes	Yes	45.93143	61	2.056	10.83991	0	4.656
156	Calibration	1.9E+07	2: West Bound	1155	1066	408	436	1.358	Yes	Yes	336.9522	377	2.101	Yes	Yes	57.3006	59	0.227	13.52306	0	5.201
157	Calibration	2E+07	1: West Bound	1156	1130	511	519	0.354	Yes	Yes	393.0295	422	1.415	Yes	Yes	74.97867	79	0.492	43.10292	18	4.488
158	Calibration	2E+07	2: East Bound	1130	1156	405	376	1.496	Yes	Yes	311.795	303	0.479	Yes	Yes	59.48148	52	1.009	34.19406	21	2.608

221	Calibration	J26-D-Entry	0	80060	5059	67	67	0.011	Yes	Yes	59.22538	59	0.033	Yes	Yes	4.969435	5	0.124	2.440654	2	0.072
222	Validation	J27-A-Entry	0	5115	1499	392	437	2.258	Yes	Yes	219.98	272	3.341	Yes	Yes	63.3603	69	0.705	108.171	96	1.207
223	Validation	J27-B-Entry	0	80270	1498	222	265	2.771	Yes	Yes	186.1369	232	3.167	Yes	Yes	33.54369	23	2.074	2.134702	11	3.345
224	Validation	J27-C-Entry	0	5067	5062	671	574	3.904	Yes	Yes	398.8648	369	1.519	Yes	Yes	120.5088	92	2.748	151.9533	113	3.418
225	Validation	J27-D-Entry	0	80075	1500	410	379	1.581	Yes	Yes	358.9783	359	0.001	Yes	Yes	40.99784	20	3.898	9.912112	0	4.452
226	Calibration	J28-B-Entry	0	80274	5066	553	602	2.047	Yes	Yes	398.8648	468	3.302	Yes	Yes	108.0852	91	1.753	45.91697	44	0.308
227	Validation	J29-A-Entry	0	80278	5071	63	83	2.327	Yes	Yes	50.76461	75	3.015	Yes	Yes	9.93887	6	1.297	2.134702	2	0.241
228	Validation	J29-B-Entry	0	5079	79913	93	39	6.649	No	Yes	82.19033	35	6.105	No	Yes	11.18123	3	2.872	0	0	0.931
229	Validation	J29-C-Entry	0	5070	80283	99	71	3.093	Yes	Yes	82.19033	57	3.003	Yes	Yes	14.90831	13	0.628	2.134702	1	0.899
230	Validation	J30-B-Entry	0	42090	80324	240	217	1.566	Yes	Yes	200.6411	166	2.586	Yes	Yes	36.0284	40	0.586	3.813956	12	2.782
231	Validation	J30-C-Entry	0	80323	80322	64	96	3.534	Yes	Yes	51.97329	85	3.939	Yes	Yes	12.42359	11	0.434	0	1	1.097
232	Validation	J31-A-Entry	0	80319	80321	320	298	1.250	Yes	Yes	269.6057	249	1.254	Yes	Yes	39.22671	43	0.535	10.71901	6	1.812
233	Validation	J31-B-Entry	0	80330	80321	418	425	0.329	Yes	Yes	347.1635	351	0.230	Yes	Yes	67.06501	70	0.352	3.573002	3	0.255
234	Calibration	J31-C-Entry	0	80325	80321	78	53	3.072	Yes	Yes	65.24703	43	2.954	Yes	Yes	11.3884	9	0.748	1.087127	0	0.761
235	Calibration	J32-A-Entry	0	80330	5076	356	370	0.738	Yes	Yes	297.9204	314	0.924	Yes	Yes	45.55359	47	0.226	12.58164	9	1.108
236	Calibration	J32-B-Entry	0	80327	5076	150	141	0.824	Yes	Yes	126.8008	117	0.901	Yes	Yes	21.51142	21	0.035	2.174255	2	0.106
237	Calibration	J32-C-Entry	0	42100	5076	414	414	0.001	Yes	Yes	326.2352	323	0.180	Yes	Yes	80.98417	84	0.376	6.834384	7	0.079
238	Calibration	J33-A-Entry	0	5114	42099	577	597	0.832	Yes	Yes	491.9333	492	0.005	Yes	Yes	77.02624	80	0.388	7.627912	24	4.158
239	Calibration	J33-C-Entry	0	1426	1505	106	107	0.084	Yes	Yes	94.27714	96	0.140	Yes	Yes	9.93887	10	0.096	2.134702	2	0.135
240	Validation	J34-A-Entry	0	5113	1593	464	546	3.628	Yes	Yes	313.0484	357	2.406	Yes	Yes	83.23804	108	2.526	68.19576	81	1.483
241	Validation	J34-B-Entry	0	1574	5019	589	513	3.222	Yes	Yes	523.359	450	3.305	Yes	Yes	52.17907	50	0.320	12.96467	13	0.112
242	Calibration	J35-A-Entry	0	80641	1532	583	610	1.114	Yes	Yes	471.3857	495	1.054	Yes	Yes	72.05681	74	0.216	39.51286	42	0.346
243	Calibration	J35-B-Entry	0	70396	5017	68	60	0.923	Yes	Yes	62.85143	56	0.922	Yes	Yes	3.727076	3	0.206	1.067351	1	0.099
244	Calibration	J35-D-Entry	0	80639	5017	796	796	0.001	Yes	Yes	571.7062	576	0.172	Yes	Yes	134.1747	138	0.325	90.01215	82	0.856
245	Calibration	J35-E-Entry	0	1550	1567	241	232	0.548	Yes	Yes	217.5626	208	0.685	Yes	Yes	18.63538	20	0.322	4.575356	5	0.067
246	Calibration	J36-A-Entry	0	70278	5087	430	438	0.378	Yes	Yes	373.4825	379	0.302	Yes	Yes	44.72492	47	0.302	11.59137	12	0.009
247	Calibration	J36-B-Entry	0	80576	5087	588	608	0.841	Yes	Yes	478.6378	497	0.844	Yes	Yes	80.75332	83	0.293	28.52644	28	0.136
248	Calibration	J36-C-Entry	0	80615	5087	338	346	0.425	Yes	Yes	288.8748	296	0.406	Yes	Yes	28.57425	30	0.194	20.44308	20	0.027
249	Calibration	J36-D-Entry	0	80573	5087	560	591	1.314	Yes	Yes	427.8732	458	1.449	Yes	Yes	79.51096	81	0.167	52.32804	52	0.066
250	Validation	J37-A-Entry	0	80583	5080	330	360	1.594	Yes	Yes	282.8314	283	0.004	Yes	Yes	31.05897	59	4.169	16.47267	18	0.410
251	Validation	J37-B-Entry	0	80627	5080	245	138	7.715	No	No	209.1019	124	6.585	No	Yes	22.36246	12	2.365	13.57657	2	4.328
252	Validation	J37-C-Entry	0	1534	5080	387	300	4.674	Yes	Yes	308.2137	233	4.588	Yes	Yes	49.69435	50	0.077	28.98189	17	2.439
253	Validation	J38-A-Entry	0	80348	80365	229	250	1.383	Yes	Yes	199.4324	209	0.692	Yes	Yes	13.66595	31	3.654	15.56178	10	1.618
254	Validation	J38-C-Entry	0	1215	80365	161	180	1.479	Yes	Yes	132.9549	133	0.022	Yes	Yes	14.90831	31	3.410	13.12112	16	0.702
266	Validation	J43-A-Entry	0	80467	5012	487	487	0.038	Yes	Yes	383.152	385	0.097	Yes	Yes	85.72276	77	0.928	17.69648	25	1.584
267	Validation	J43-B-Entry	0	5010	5012	533	428	4.803	Yes	No	429.0818	339	4.576	Yes	Yes	81.99568	58	2.854	22.27183	31	1.612
268	Validation	J43-C-Entry	0	80462	5012	99	81	1.975	Yes	Yes	87.02505	60	3.162	Yes	Yes	9.93887	5	1.739	2.440654	16	4.378
269	Calibration	J44-A-Entry	0	1088	1089	732	703	1.113	Yes	Yes	576.541	545	1.319	Yes	Yes	99.3887	101	0.200	56.44794	56	0.078
270	Calibration	J44-B-Entry	0	1091	1089	547	541	0.259	Yes	Yes	407.3256	402	0.271	Yes	Yes	84.4804	85	0.038	55.38059	54	0.128
271	Calibration	J44-C-Entry	0	1090	1089	631	644	0.545	Yes	Yes	529.4024	539	0.414	Yes	Yes	63.3603	68	0.576	37.83361	37	0.075
273	Calibration	J45-B-Entry	0	80474	5003	108	138	2.716	Yes	Yes	95.48582	107	1.109	Yes	Yes	7.454153	19	3.162	4.575356	12	2.582
274	Calibration	J45-E-Entry	0	1093	5003	452	473	1.007	Yes	Yes	361.3957	381	1.011	Yes	Yes	49.69435	52	0.375	40.58022	40	0.076
275	Calibration	J46-A-Entry	0	80257	80006	45	33	1.879	Yes	Yes	32.63439	26	1.259	Yes	Yes	9.93887	7	1.146	2.440654	1	1.299
276	Calibration	J46-B-Entry	0	80258	80007	107	112	0.544	Yes	Yes	97.90318	104	0.564	Yes	Yes	8.696512	9	0.011	0	0	0.000
277	Calibration	J46-C-Entry	0	80259	79951	21	25	0.990	Yes	Yes	19.3389	20	0.145	Yes	Yes	1.242359	5	2.107	0	0	0.888
278	Calibration	J46-D-Entry	0	79934	79951	67	56	1.321	Yes	Yes	58.0167	47	1.467	Yes	Yes	6.211794	7	0.153	2.440654	2	0.067
279	Calibration	J47-A-Entry	0	80003	79935	205	216	0.748	Yes	Yes	165.5893	175	0.705	Yes	Yes	31.05897	31	0.016	8.083361	10	0.523
280	Calibration	J47-B-Entry	0	79934	79935	116	142	2.239	Yes	Yes	107.5726	133	2.293	Yes	Yes	7.454153	8	0.057	1.067351	1	0.106
281	Calibration	J47-C-Entry	0	79936	79935	261	240	1.308	Yes	Yes	178.8848	159	1.555	Yes	Yes	55.90615	55	0.134	26.08579	27	0.096
282	Calibration	J47-D-Entry	0	1170	79935	181	123	4.773	Yes	Yes	175.2588	116	4.916	Yes	Yes	6.211794	7	0.184	0	0	0.000
283	Validation	J48-C-Entry	0	79938	79930	317	181	8.640	No	No	302.1703	171	8.512	No	No	12.42359	10	0.880	2.440654	0	2.209
284	Validation	J48-D-Entry	0	1531	79930	108	114	0.634	Yes	Yes	102.7379	109	0.639	Yes	Yes	4.969435	5	0.045	0	0	0.000
285	Calibration	J49-A-Entry	0	79927	79926	197	198	0.065	Yes	Yes	164.3807	169	0.345	Yes	Yes	29.81661	26	0.637	3.202054	3	0.099
286	Calibration	J51-A-Entry	0	80521	5044	54	55	0.065	Yes	Yes	42.30384	44	0.236	Yes	Yes	9.93887	9	0.183	2.134702	2	0.360
287	Calibration	J51-B-Entry	0	5093	5044	22	21	0.231	Yes	Yes	18.13022	18	0.019	Yes	Yes	2.484718	2	0.261	1.067351	0	0.900
288	Calibration	J51-C-Entry	0	5092	5044	29	33	0.600	Yes	Yes	21.75626	22	0.154	Yes	Yes	7.454153	8	0.287	0	2	1.900
290	Validation	J53-B-Entry	0	80909	5120	181	218	2.625	Yes	Yes	135.3723	159	1.945	Yes	Yes	34.78605	50	2.335	10.37452	9	0.572
292	Validation	J55-A-Entry	0	1461	79959	42	52	1.454	Yes	Yes	37.46912	42	0.688	Yes	Yes	4.969435	10	1.734	0	1	1.412
294	Calibration	J55-C-Entry	0	80966	79959	100	99	0.050	Yes	Yes	74.93824	79	0.466	Yes	Yes	21.1201	20	0.238	3.508005	0	2.649
295	Validation	J56-A-Entry	0	3101	3099	127	119	0.717	Yes	Yes	95.48582	112	1.590	Yes	Yes	31.05897	7	5.533	0	0	0.000
296	Validation	J56-B-Entry	0	3102	3099	22	17	0.987	Yes	Yes	21.75626	16	1.241	Yes	Yes	0	1	1.449	0	0	0.000
297	Calibration	J59-A-Entry	0	4189	3105	163	166	0.239	Yes	Yes	129.3289	132	0.261	Yes	Yes	28.57425	29	0.055	4.881307	5	0.095
298	Calibration	J59-B-Entry	0	3107	3105	132	106	2.421	Yes	Yes	106.364	106	0.033	Yes	Yes	26.08953	0	7.224	0	0	0.000
299	Calibration	J59-C-Entry	0	3106	3105	96	97	0.170	Yes	Yes	60.43406	62	0.250	Yes	Yes	31.05897	31	0.011	4.119907	4	0.112
300	Calibration	J60-A-Entry	0	79939	79937	51	29	3.390	Yes	Yes	49.55593	28	3.436	Yes	Yes	1.242359	1	0.066	0	0	0.248
301	Calibration	J60-B-Entry	0	1521	79937	177	152	1.940	Yes	Yes	165.5893	140	2.098	Yes	Yes	11.18123	12	0.185	0	0	0.922

288	317	1.617	Yes	Yes	203.3329	227	1.595	Yes	Yes	52.9185	58	0.699	32.21604	32	0.082	509	554	1.918	Yes	Yes	433.4805	466	1.522	Yes	Yes	57.39729	69	1.417	18.4469	19	0.158
276	303	1.598	Yes	Yes	194.2579	216	1.504	Yes	Yes	50.55667	59	1.110	30.77819	28	0.472	358	404	2.376	Yes	Yes	304.6442	348	2.405	Yes	Yes	40.33803	43	0.455	12.96423	13	0.005
312	333	1.202	Yes	Yes	219.5955	255	2.286	Yes	Yes	57.15093	55	0.343	34.79268	24	2.046	637	643	0.237	Yes	Yes	541.8744	555	0.552	Yes	Yes	71.74975	75	0.364	23.05963	13	2.363
281	322	2.338	Yes	Yes	198.4096	243	2.999	Yes	Yes	51.63717	51	0.041	31.43598	28	0.669	376	345	1.649	Yes	Yes	319.9679	294	1.459	Yes	Yes	42.36705	43	0.034	13.61633	8	1.827
605	631	1.073	Yes	Yes	426.2469	456	1.394	Yes	Yes	110.9331	107	0.334	67.53449	68	0.110	992	992	0.008	Yes	Yes	844.0007	836	0.277	Yes	Yes	111.7544	116	0.430	35.91671	40	0.599
600	617	0.699	Yes	Yes	422.9222	447	1.153	Yes	Yes	110.0678	107	0.285	67.00773	63	0.474	818	836	0.644	Yes	Yes	695.9485	704	0.321	Yes	Yes	92.15075	101	0.866	29.6163	31	0.280
181	186	0.389	Yes	Yes	131.5674	142	0.853	Yes	Yes	29.31393	37	1.395	20.00759	7	3.455	271	284	0.772	Yes	Yes	233.8513	254	1.261	Yes	Yes	28.11832	29	0.248	9.458986	1	3.516
183	190	0.475	Yes	Yes	133.3049	147	1.154	Yes	Yes	29.70106	35	0.960	20.27182	8	3.385	269	290	1.225	Yes	Yes	231.8546	250	1.197	Yes	Yes	27.87824	36	1.455	9.378225	3	2.548
317	322	0.310	Yes	Yes	223.3748	230	0.462	Yes	Yes	58.13451	56	0.251	35.39147	36	0.078	536	556	0.828	Yes	Yes	456.574	472	0.716	Yes	Yes	60.4551	64	0.406	19.42965	20	0.164
337	350	0.698	Yes	Yes	237.5798	253	0.962	Yes	Yes	61.83144	60	0.298	37.64211	38	0.033	485	503	0.837	Yes	Yes	412.6425	428	0.757	Yes	Yes	54.63812	57	0.296	17.56013	18	0.203
95	114	1.814	Yes	Yes	72.27431	89	1.887	Yes	Yes	18.0583	19	0.317	4.661103	5	0.089	217	240	1.528	Yes	Yes	189.3829	210	1.488	Yes	Yes	25.39739	27	0.373	2.104732	2	0.100
161	181	1.520	Yes	Yes	129.8573	151	1.783	Yes	Yes	26.97599	26	0.280	4.014817	4	0.084	242	268	1.620	Yes	Yes	213.2046	242	1.880	Yes	Yes	21.76919	24	0.417	7.192603	3	2.005
227	246	1.225	Yes	Yes	177.1396	198	1.545	Yes	Yes	39.68368	40	0.112	10.15781	7	1.035	359	408	2.498	Yes	Yes	316.8292	361	2.420	Yes	Yes	37.49139	42	0.689	4.868269	5	0.009
200	150	3.719	Yes	Yes	126.8178	129	0.174	Yes	Yes	58.41081	16	6.875	14.41417	5	2.906	278	268	0.558	Yes	Yes	222.7333	225	0.157	Yes	Yes	48.37598	43	0.832	6.533797	1	3.149
79	78	0.067	Yes	Yes	60.62261	61	0.056	Yes	Yes	14.93712	14	0.289	3.034289	3	0.039	119	120	0.070	Yes	Yes	107.1979	108	0.036	Yes	Yes	12.094	12	0.002	0	0	0.884
294	295	0.013	Yes	Yes	211.0815	214	0.202	Yes	Yes	57.74199	54	0.435	25.58644	26	0.106	412	411	0.068	Yes	Yes	358.5173	354	0.215	Yes	Yes	41.11958	43	0.320	12.28047	13	0.167
26	26	0.029	Yes	Yes	18.57517	18	0.024	Yes	Yes	6.242377	6	0.047	1.31477	1	0.145	21	23	0.298	Yes	Yes	20.24848	21	0.067	Yes	Yes	1.2094	2	0.568	0	0	0.884
314	317	0.121	Yes	Yes	218.8493	227	0.527	Yes	Yes	66.65967	58	1.080	28.93668	32	0.511	580	554	1.110	Yes	Yes	469.2884	466	0.163	Yes	Yes	93.12377	69	2.721	17.5423	19	0.371
19	23	0.823	Yes	Yes	12.49603	17	1.154	Yes	Yes	4.904725	4	0.311	1.912749	2	0.021	24	39	2.625	Yes	Yes	21.43957	36	2.719	Yes	Yes	2.418799	2	0.198	0	0	0.880
245	228	1.065	Yes	Yes	161.604	153	0.687	Yes	Yes	52.16844	49	0.440	30.85334	26	0.866	368	333	1.860	Yes	Yes	314.447	276	2.244	Yes	Yes	38.70079	43	0.736	14.38521	13	0.262
36	31	0.882	Yes	Yes	27.6939	29	0.230	Yes	Yes	8.025913	2	2.773	0.501363	0	0.273	31	38	1.232	Yes	Yes	30.96827	37	1.092	Yes	Yes	0	1	1.288	0	0	0.263
263	228	2.264	Yes	Yes	175.451	150	1.998	Yes	Yes	51.27667	50	0.229	36.5955	28	1.472	472	389	3.974	Yes	Yes	378.7658	316	3.354	Yes	Yes	74.98277	56	2.324	17.76191	17	0.260
79	72	0.795	Yes	Yes	56.40098	51	0.740	Yes	Yes	17.38948	16	0.368	5.021455	5	0.009	116	104	1.090	Yes	Yes	98.86024	88	1.104	Yes	Yes	15.72219	15	0.304	1.052366	1	0.385
179	178	0.080	Yes	Yes	121.583	122	0.001	Yes	Yes	36.78544	35	0.239	21.06635	21	0.081	260	259	0.091	Yes	Yes	214.3957	211	0.206	Yes	Yes	36.28199	37	0.171	9.516936	10	0.162
68	50	2.366	Yes	Yes	45.59361	40	0.808	Yes	Yes	13.37652	8	1.481	9.010162	1	3.554	74	45	3.743	Yes	Yes	63.12763	36	3.778	Yes	Yes	9.675196	8	0.393	1.271968	0	1.227
193	192	0.060	Yes	Yes	130.7017	131	0.028	Yes	Yes	39.90662	38	0.238	22.54433	23	0.070	275	265	0.600	Yes	Yes	217.969	209	0.584	Yes	Yes	42.32898	44	0.314	14.38521	11	0.949
533	532	0.053	Yes	Yes	385.5193	388	0.137	Yes	Yes	95.41919	91	0.409	52.05288	52	0.004	913	838	2.531	Yes	Yes	776.5889	705	2.636	Yes	Yes	110.0554	103	0.653	26.44608	30	0.675
570	601	1.284	Yes	Yes	416.9282	445	1.358	Yes	Yes	105.0057	104	0.110	48.48065	52	0.564	755	769	0.505	Yes	Yes	649.1426	656	0.249	Yes	Yes	79.82037	90	1.132	26.44608	24	0.573
103	103	0.037	Yes	Yes	75.14502	76	0.149	Yes	Yes	23.18597	22	0.346	5.091961	5	0.017	129	129	0.020	Yes	Yes	117.9176	115	0.280	Yes	Yes	10.8846	13	0.689	0	0	0.888
79	39	5.223	No	Yes	60.96034	32	4.256	Yes	Yes	16.27477	6	2.962	1.983255	1	1.022	125	94	3.010	Yes	Yes	110.7711	85	2.633	Yes	Yes	14.51279	9	1.723	0	0	0.884
91	47	5.286	No	Yes	67.88382	34	4.769	Yes	Yes	19.17301	10	2.530	3.77719	4	0.142	121	73	4.891	Yes	Yes	107.1979	65	4.574	Yes	Yes	10.8846	5	1.963	3.157098	3	0.116
50	59	1.283	Yes	Yes	36.98148	37	0.045	Yes	Yes	8.694739	17	2.375	3.873805	5	0.555	58	69	1.337	Yes	Yes	52.40784	57	0.578	Yes	Yes	6.046998	12	1.998	0	0	0.888
38	38	0.010	Yes	Yes	29.04482	30	0.132	Yes	Yes	7.802971	7	0.198	0.883913	1	0.121	57	54	0.427	Yes	Yes	51.21675	50	0.218	Yes	Yes	4.837598	4	0.418	1.052366	0	0.923
576	552	0.997	Yes	Yes	420.3055	408	0.595	Yes	Yes	103.2222	92	1.088	52.60255	52	0.113	999	990	0.297	Yes	Yes	846.8631	850	0.101	Yes	Yes	125.7776	110	1.467	26.44608	30	0.679
75	75	0.099	Yes	Yes	55.72552	58	0.336	Yes	Yes	15.82888	15	0.232	3.082596	2	0.468	78	62	1.899	Yes	Yes	69.08306	54	1.904	Yes	Yes	8.465797	7	0.463	0	0	0.884
698	694	0.158	Yes	Yes	526.184	527	0.039	Yes	Yes	118.1593	113	0.524	53.37811	54	0.079	1186	1176	0.288	Yes	Yes	1044.584	1025	0.621	Yes	Yes	119.7306	122	0.246	21.97137	29	1.456
108	143	3.118	Yes	Yes	83.92601	123	3.808	Yes	Yes	16.27477	18	0.341	8.196755	3	2.157	137	125	1.082	Yes	Yes	114.3444	98	1.617	Yes	Yes	19.35039	26	1.379	3.596301	1	1.465
568	511	2.457	Yes	Yes	419.2923	373	2.338	Yes	Yes	98.76332	85	1.477	50.20408	54	0.498	708	682	0.999	Yes	Yes	602.6902	589	0.572	Yes	Yes	85.86737	71	1.655	19.47308	22	0.504
116	95	2.047	Yes	Yes	90.68062	78	1.331	Yes	Yes	22.51715	16	1.446	2.388003	0	2.185	190	206	1.203	Yes	Yes	171.5166	187	1.135	Yes	Yes	16.93159	20	0.654	1.052366	0	1.451
88	84	0.434	Yes	Yes	71.76772	71	0.058	Yes	Yes	15.16006	11	1.126	1.31477	2	0.429	109	97	1.144	Yes	Yes	100.0513	90	0.989	Yes	Yes	8.465797	6	0.913	0	1	1.010
61	42	2.699	Yes	Yes	47.45113	33	2.292	Yes	Yes	10.25533	8	0.761	3.223608	1	1.775	119	80	3.910	Yes	Yes	107.1979	71	3.884	Yes	Yes	10.8846	10	0.414	1.271968	0	1.338
48	49	0.269	Yes	Yes	37.15035	40	0.408	Yes	Yes	8.694739	8	0.174	1.719518	2	0.119	83	75	0.989	Yes	Yes	75.0385	67	0.901	Yes	Yes	7.256397	6	0.355	1.052366	1	0.261
80	113	3.308	Yes	Yes	27.86276	61	4.919	Yes	Yes	16.72065	16	0.193	35.88262	36	0.101	211	210	0.082	Yes	Yes	172.7077	175	0.157	Yes	Yes	15.72219	16	0.057	22.67582	19	0.764
217	220	0.198	Yes	Yes	186.0895	189	0.241	Yes	Yes	27.42187	26	0.230	3.724971	5	0.401	374	393	0.971	Yes	Yes	352.5618	365	0.650	Yes	Yes	21.76919	27	1.143	0	1	1.444
242	194	3.234	Yes	Yes	201.7939	167	2.575	Yes	Yes	33.4413	24	1.820	6.384533	3	1.376	323	261	3.622	Yes	Yes	301.3451	245	3.388	Yes	Yes	18.14099	14	1.078	3.815903	2	0.927
208	198	0.668	Yes	Yes	161.604	154	0.592	Yes	Yes	39.46074	37	0.319	6.714864	7	0.033	396	328	3.571	Yes	Yes	366.8549	297	3.806	Yes	Yes	27.81619	29	0.241	1.052366	1	0.145
167	190	1.794	Yes	Yes	110.9444	135	2.180	Yes	Yes	31.43483	26	1.047	24.13066	30	1.041	258	196	4.156	Yes	Yes	225.1155	177	3.360	Yes	Yes	24.18799	13	2.499	8.903775	5	1.572
126	130	0.340	Yes	Yes	108.2426	112	0.312	Yes	Yes	12.03887	12	0.101	5.615522	7	0.374	201	220	1.294	Yes	Yes	187.0007	205	1.310	Yes	Yes	12.094	12	0.065	2.324334	3	0.136
224	225	0.035	Yes	Yes	183.3876	184	0.080	Yes	Yes	34.77896	34	0.081	5.901457	6	0.032	302	315	0.732	Yes	Yes	271.5679	281	0.579	Yes	Yes	30.23499	33	0.504	0	0	0.884
195	150	3.409	Yes	Yes	159.7465	128	2.666	Yes	Yes	29.42835	22	1.533	5.329588	0	2.986	340	275	3.730	Yes	Yes	290.6253	230	3.762	Yes	Yes	48.37598	45	0.560	1.052366	0	1.131
57	56	0.209	Yes	Yes	46.1002	45	0.105	Yes	Yes	8.917681	8	0.344	2.343606	2	0.090	94	87	0.744	Yes	Yes	86.94937	79	0.879	Yes	Yes	3.628199	4	0.323	3.596301	4	0.149
451	474	1.062	Yes	Yes	245.53	314	4.083	Yes	Yes	87.83916	66	2.543	118.0067	95	2.247	741	710	1.164	Yes	Yes	590.7793	613	0.912	Yes	Yes	83.44857	49	4.182	66.92944	47	2.599
133	118	1.318	Yes	Yes	107.9049	96	1.155	Yes	Yes	22.2942	13	2.258	2.555124	9	2.658	191	174	1.268	Yes	Yes	171.5166	153	1.415	Yes	Yes	18.14099	17	0.331	1.052366	3	1.550
432	421	0.539	Yes	Yes	227.2926	249	1.436	Yes	Yes	75.80029	60	1.975	129.0041	112	1.553	625	548	3.165	Yes	Yes	478.8171	451	1.292	Yes	Yes	82.23917	44	4.781	63.7267	53	1.410
268	206	4.004	Yes	Yes	209.7306	178	2.268	Yes	Yes	47.26371	28	3.146	10.75188	0	4.637	357	277	4.451	Yes	Yes	313.256	252	3.665	Yes	Yes	42.32898	26	2.845	1.052366	0	1.451
352	331	1.139	Yes	Yes	216.8229	237	1.322	Yes	Yes	75.13146	54	2.639	60.45851	41	2.778	494	500	0.295	Yes	Yes	390.6766	397	0.323	Yes	Yes	72.56397	75	0.295	30.43594	28	0.440
41	63	2.940	Yes	Yes	32.92872	53	3.100	Yes	Yes	7.580029	8	0.266	0.835605	1	0.090	63	51	1.631	Yes	Yes	60.74545	48	1.759	Yes	Yes	2.418799	2	0.268	0	1	1.441
50	26	3.901	Yes	Yes	35.12396	19	3.047	Yes	Yes	13.15358	6	2.247	1.385276	0	1.173	81	44	4.701	Yes	Yes	72.65632	39	4.500	Yes	Yes	8.465797	5	1.486	0	0	0.717
52	55	0.319	Yes	Yes	40.86538	45	0.633	Yes	Yes	9.809449	9	0.271	1.552397	1	0.953	113	80	3.367	Yes	Yes	100.0513	66	3.753	Yes	Yes	12.094	14	0.554	1.271968	0	1.081
146	143	0.245	Yes	Yes	107.5671	108	0.032	Yes	Yes	29.42835	23	1.229	8.728139	12	0.944	216	224	0.524	Yes	Yes	181.0453	187	0.442	Yes	Yes	30.23499	30	0.035	4.648667	6	0.675
38	37	0.134	Yes	Yes	28.36936	26	0.361	Yes	Yes	8.471797	8	0.059	0.883913	2	1.013	48	33	2.256	Yes	Yes	44.07023	29	2.519	Yes	Yes	3.628199	4	0.099	0	1	1.145
280	299	1.144	Yes	Yes	212.4126	238	1.678	Yes	Yes	56.54112	57	0.101	10.93645	4	2.328	426	425	0.089	Yes	Yes	363.9468	367	0.175	Yes	Yes	56.66315	53	0.473	5.806664	4	0.756
273	280	0.405	Yes	Yes	206.7368	219	0.861	Yes	Yes	53.3621	52	0.123	12.73703	8	1.542	443	466	1.066	Yes	Yes	393.0626	411	0.885	Yes	Yes	45.57688	54	1.138	4.734799	2	1.681
61	42	2.731	Yes	Yes	46.26639	33	2.149	Yes	Yes	14.30558	8	1.786	0.90029	1	0.129	100	92	0.765	Yes	Yes	83.70777	76	0.894	Yes	Yes	16.0135	16	0.024	0	0	0.880
313	324	0.593	Yes	Yes	240.1036	253	0.799	Yes	Yes	63.80745	62	0.253	9.302104	9	0.015	490	510	0.880	Yes	Yes	413.6862	430	0.785	Yes	Yes	68.98123	73	0.464	7.726722	7	0.131
109	107	0.149	Yes	Yes	82.55712	83	0.004	Yes	Yes	23.61557	22	0.294	2.432248	2	0.067	107	109	0.170	Yes	Yes	84.92093	86	0.075	Yes	Yes	19.70892	21	0.203	2.143729	2	0.112
316	325	0.476	Yes	Yes	242.3395	254	0.768	Yes	Yes	61.99087	58	0.501	11.76095	12	0.086	566	586	0.809	Yes	Yes	492.5414	509	0.730	Yes	Yes	71.44484	74	0.246	2.143729	3	0.603
479	525	2.057	Yes	Yes	361.5404	391	1.500	Yes	Yes	98.76332	95	0.340	19.07527	39	3.766	757	774	0.626	Yes	Yes	628.8941	632	0.114	Yes	Yes	113.6836	120	0.602	13.946	22	1.877
42	42	0.009	Yes	Yes	35.96829	36	0.057	Yes	Yes	5.573551	5	0.096	0.835605	1	0.064	63	65	0.255	Yes	Yes	57.17219	58	0.168	Yes	Yes	6.046998	6	0.149	0	0	0.884
327	392	3.446	Yes	Yes	197.0657	229	2.205	Yes	Yes	65.7679	85	2.208	64.22915	78	1.660	625	716	3.499	Yes	Yes	514.5497	570	2.396	Yes	Yes	71.35457	103	3.420	39.12011	42	0.445
472	431	1.938	Yes	Yes	389.9098	357	1.708	Yes	Yes	71.11851	61	1.182	10.89289	12	0.429	644	526	4.885	Yes	No	574.1041	462	4.940	Yes	No	64.09818	58	0.773	5.481431	6	0.142
514	526	0.518	Yes	Yes	375.3874	389	0.695	Yes	Yes	81.81973	79	0.301	56.87455	58	0.122	714	740	0.985	Yes	Yes	625.3208	647	0.856	Yes	Yes	65.30758	69	0.470	23.28898	24	0.229
52	34	2.737	Yes	Yes	43.73609	28	2.585	Yes	Yes	7.357087	5	1.055	1.051034	1	0.115	58	33	3.728	Yes	Yes	55.9811	31	3.830	Yes	Yes	1.2094	1	0.083	1.052366	1	0.114
637	650	0.494	Yes	Yes	454.754	470	0.705	Yes	Yes	107.681	104	0.358	75.00713	76	0.120	886	936	1.662	Yes	Yes	749.1939	795	1.663	Yes	Yes	96.75196	99	0.211	39.73327	42	0.291
183	189	0.401	Yes	Yes	142.3534	149	0.565	Yes	Yes	36.33955	35	0.262	4.634994	5	0.096	289	304	0.916	Yes	Yes	254.8927	266	0.705	Yes	Yes	29.02559	33	0.743	4.648667	5	0.108
320	323	0.199	Yes	Yes	273.8994	279	0.293	Yes	Yes	35.0019	33	0.260	10.63698	11	0.065	416	418	0.083	Yes	Yes	383.5301	388	0.234	Yes	Yes	29.02559	26	0.549	3.376699	3	0.013
538	546	0.348	Yes	Yes	439.3873	452	0.593	Yes	Yes	67.77438	63	0.567	30.79721	31	0.032	761	784	0.809	Yes	Yes	680.1108	699	0.719	Yes	Yes	70.14517	73	0.351	11.00851	12	0.185
290	298	0.460	Yes	Yes	230.1633	235	0.299	Yes	Yes	38.34603	38	0.059	21.14859	25	0.769	370	398	1.414	Yes	Yes	332.3134	354	1.160	Yes	Yes	26.60679	28	0.333	11.00851	15	1.226
461	473	0.559	Yes	Yes	346.8491	359	0.656	Yes	Yes	65.32201	64	0.152	48.98593	50	0.140	702	792	3.317	Yes	Yes	618.1743	699	3.135	Yes	Yes	55.63238	64	1.024	27.71805	30	0.429
306	301	0.285	Yes	Yes	227.6303	221	0.453	Yes	Yes	51.72255	56	0.620	26.59308	24	0.545	452	413	1.836	Yes	Yes	395.441	348	2.464	Yes	Yes	44.74778	56	1.619	11.44771	9	0.673
144	103	3.671	Yes	Yes	112.9708	87	2.628	Yes	Yes	22.74009	15	1.897	8.315569	2	2.807	178	111	5.582	No	Yes	152.4592	93	5.340	No	Yes	22.97859	15	1.710	2.104732	2	0.218
361	322	2.110	Yes	Yes	283.8624	240	2.695	Yes	Yes	51.05372	57	0.833	26.28494	25	0.300	544	465	3.525	Yes	Yes	501.4477	418	3.875	Yes	Yes	35.07259	40	0.766	7.412205	7	0.285
190	166	1.816	Yes	Yes	131.546	120	1.013	Yes	Yes	30.766	31	0.026	28.01228	15	2.736	241	236	0.329	Yes	Yes	203.6759	197	0.445	Yes	Yes	24.18799	27	0.625	12.71968	11	0.571
181	170	0.839	Yes	Yes	141.6779	125	1.428	Yes	Yes	26.97599	29	0.429	12.36432	15	0.835	317	302	0.851	Yes	Yes	288.2431	256	1.951	Yes	Yes	26.60679	34	1.380	2.543936	12	3.540
334	347	0.717	Yes	Yes	237.4245	257	1.221	Yes	Yes	72.01028	63	1.059	24.60591	27	0.540	518	522	0.153	Yes	Yes	445.4666	432	0.655	Yes	Yes	60.46998	66	0.695	12.50008	24	2.727
327	271	3.219	Yes	Yes	231.6831	194	2.587	Yes	Yes	76.02323	52	3.052	19.46955	26	1.351	566	482	3.633	Yes	Yes	483.5814	407	3.622	Yes	Yes	56.84178	57	0.002	25.17411	18	1.438
81	48	4.038	Yes	Yes	57.07644	26	4.897	Yes	Yes	20.06478	9	2.843	3.368531	13	3.451	79	43	4.518	Yes	Yes	73.84741	34	5.441	No	Yes	4.837598	3	1.119	0	7	3.690
473	490	0.809	Yes	Yes	317.1289	339	1.193	Yes	Yes	94.52742	92	0.280	60.95332	60	0.147	632	656	0.940	Yes	Yes	524.0784	536	0.525	Yes	Yes	77.40157	83	0.600	30.92079	37	1.099
300	301	0.043	Yes	Yes	200.2741	204	0.257	Yes	Yes	57.2961	54	0.393	42.6275	43	0.003	554	567	0.542	Yes	Yes	472.8617	482	0.400	Yes	Yes	58.05118	61	0.395	23.06938	24	0.217
354	366	0.634	Yes	Yes	257.1817	270	0.788	Yes	Yes	71.78733	70	0.163	24.85136	25	0.119	528	544	0.691	Yes	Yes	450.231	461	0.520	Yes	Yes	55.63238	60	0.609	21.79741	22	0.055
58	64	0.759	Yes	Yes	41.70971	42	0.074	Yes	Yes	12.93064	13	0.048	3.77719	9	2.196	74	88	1.575	Yes	Yes	65.5098	71	0.638	Yes	Yes	6.046998	13	2.208	2.104732	4	1.183
324	325	0.045	Yes	Yes	218.8493	229	0.680	Yes	Yes	62.86965	60	0.383	42.22276	36	1.017	608	560	1.969	Yes	Yes	527.6517	482	2.036	Yes	Yes	58.05118	60	0.295	22.01701	18	0.921
30	30	0.123	Yes	Yes	24.48546	24	0.084	Yes	Yes	5.796493	5	0.206	0.167121	0	0.429	49	48	0.068	Yes	Yes	45.26132	45	0.017	Yes	Yes	2.418799	2	0.171	1.271968	1	0.097
45	47	0.208	Yes	Yes	36.98148	39	0.358	Yes	Yes	7.580029	8	0.014	0.835605	0	1.293	58	60	0.253	Yes	Yes	53.59893	55	0.201	Yes	Yes	3.628199	5	0.821	1.271968	0	1.595
11	13	0.409	Yes	Yes	8.274395	9	0.187	Yes	Yes	2.898246	4	0.363	0.167121	0	0.424	10	12	0.754	Yes	Yes	8.337611	9	0.073	Yes	Yes	1.2094	2	0.830	0	1	1.526
32	26	1.228	Yes	Yes	26.00524	20	1.190	Yes	Yes	5.573551	5	0.446	0.668484	1	0.141	65	55	1.400	Yes	Yes	59.55436	49	1.488	Yes	Yes	4.837598	4	0.334	1.052366	2	0.665
136	141	0.411	Yes	Yes	85.78353	91	0.588	Yes	Yes	28.75952	28	0.203	21.14076	22	0.082	194	207	0.920	Yes	Yes	169.1344	176	0.511	Yes	Yes	12.094	18	1.601	13.11324	13	0.026
36	38	0.319	Yes	Yes	28.70709	31	0.418	Yes	Yes	7.134145	7	0.235	0.501363	1	0.350	38	41	0.564	Yes	Yes	29.77718	32	0.347	Yes	Yes	6.046998	7	0.540	2.104732	2	0.153
155	159	0.345	Yes	Yes	101.8257	106	0.416	Yes	Yes	33.88719	34	0.043	19.087	19	0.074	279	290	0.601	Yes	Yes	241.7907	249	0.489	Yes	Yes	25.39739	27	0.374	12.28047	13	0.152
27	28	0.184	Yes	Yes	25.16092	26	0.172	Yes	Yes	1.11471	2	0.369	0.334242	0	0.818	27	29	0.314	Yes	Yes	25.01283	27	0.349	Yes	Yes	2.418799	2	0.071	0	0	0.000
63	52	1.423	Yes	Yes	55.89439	47	1.300	Yes	Yes	5.573551	5	0.174	1.051034	0	1.450	58	64	0.701	Yes	Yes	55.9811	56	0.064	Yes	Yes	2.418799	7	2.255	0	0	0.000
61	52	1.209	Yes	Yes	54.54346	47	1.095	Yes	Yes	4.904725	5	0.070	1.099342	0	1.483	68	85	1.904	Yes	Yes	66.70089	78	1.376	Yes	Yes	1.2094	6	2.562	0	0	0.000
128	133	0.471	Yes	Yes	105.3719	109	0.348	Yes	Yes	20.51067	22	0.395	2.005453	2	0.028	180	173	0.503	Yes	Yes	172.7077	165	0.593	Yes	Yes	7.256397	8	0.216	0	0	0.931
33	34	0.095	Yes	Yes	24.48546	25	0.185	Yes	Yes	7.580029	7	0.103	1.266463	1	0.085	27	30	0.449	Yes	Yes	25.01283	26	0.217	Yes	Yes	2.418799	3	0.537	0	0	0.888
16	16	0.093	Yes	Yes	9.287587	10	0.172	Yes	Yes	5.796493	5	0.316	1.336969	1	0.154	26	22	0.857	Yes	Yes	23.82175	19	0.931	Yes	Yes	2.418799	2	0.178	0	0	0.884
24	25	0.289	Yes	Yes	17.56198	18	0.106	Yes	Yes	5.573551	6	0.266	0.835605	1	0.340	60	60	0.055	Yes	Yes	52.40784	52	0.044	Yes	Yes	7.256397	7	0.017	0	1	1.259
158	147	0.927	Yes	Yes	117.8679	113	0.421	Yes	Yes	28.0907	25	0.574	12.45311	8	1.225	287	370	4.540	Yes	Yes	266.8036	323	3.259	Yes	Yes	20.55979	44	4.079	0	3	2.533
33	41	1.233	Yes	Yes	22.96567	26	0.550	Yes	Yes	7.357087	10	1.046	2.84497	4	0.863	24	61	5.706	No	Yes	21.43957	45	4.102	Yes	Yes	2.418799	16	4.402	0	0	0.748
111	122	0.979	Yes	Yes	86.79672	102	1.611	Yes	Yes	20.28772	19	0.213	4.155829	0	2.883	263	266	0.199	Yes	Yes	237.0264	245	0.526	Yes	Yes	20.55979	21	0.070	5.261829	0	3.244
117	133	1.382	Yes	Yes	90.00516	123	3.211	Yes	Yes	25.63833	10	3.815	1.671211	0	1.828	193	175	1.365	Yes	Yes	169.1344	166	0.216	Yes	Yes	24.18799	8	3.890	0	0	0.000
27	27	0.060	Yes	Yes	22.7968	26	0.686	Yes	Yes	3.34413	1	1.758	0.549671	0	1.048	36	35	0.080	Yes	Yes	30.96827	35	0.639	Yes	Yes	4.837598	1	2.487	0	0	0.000
161	163	0.083	Yes	Yes	125.6357	129	0.265	Yes	Yes	32.77248	31	0.355	3.034289	3	0.046	216	206	0.698	Yes	Yes	188.1918	186	0.140	Yes	Yes	27.81619	19	1.775	0	0	0.888
91	70	2.301	Yes	Yes	69.23474	70	0.135	Yes	Yes	20.95655	0	6.474	0.835605	0	1.293	138	126	1.075	Yes	Yes	122.682	126	0.288	Yes	Yes	14.51279	0	5.388	1.052366	0	1.451

353	Calibration	J26-D-Exit	0	5059	80060	86	89	0.361	Yes	Yes	74.93824	74	0.059	Yes	Yes	8.696512	9	0.011	2.440654	6	1.844
438	Calibration	J60-B-Exit	0	79937	1521	144	129	1.245	Yes	Yes	138.9983	119	1.721	Yes	Yes	4.969435	9	1.443	0	1	1.561
439	Calibration	J60-C-Exit	0	79937	80729	131	136	0.481	Yes	Yes	122.0768	127	0.407	Yes	Yes	8.696512	9	0.208	0	0	0.888
441	Calibration	J2-A-Entry	0	1104	1147	472	501	1.322	Yes	Yes	415.8226	443	1.331	Yes	Yes	48.35915	50	0.234	7.880306	8	0.020
442	Calibration	J2-D-Entry	0	1013	80916	427	449	1.044	Yes	Yes	361.5403	357	0.251	Yes	Yes	43.75352	57	1.844	21.3894	35	2.546
443	Validation	J3-A-Entry	0	1108	1107	408	307	5.344	No	No	349.25	257	5.284	No	Yes	52.96478	41	1.750	5.62879	9	1.118
444	Validation	J3-B-Entry	0	3056	1107	146	80	6.210	No	Yes	129.0484	66	6.346	No	Yes	14.96831	14	0.292	2.251516	0	2.122
445	Validation	J3-C-Entry	0	1106	1107	446	424	1.073	Yes	Yes	385.0968	369	0.854	Yes	Yes	52.96478	45	1.186	7.880306	10	0.824
446	Validation	J3-D-Entry	0	3031	1107	233	233	0.001	Yes	Yes	206.8871	207	0.027	Yes	Yes	24.17957	24	0.002	2.251516	2	0.274
447	Calibration	J4-A-Entry	0	1077	80921	702	718	0.578	Yes	Yes	515.1693	541	1.141	Yes	Yes	158.8943	148	0.841	28.14395	28	0.077
448	Calibration	J4-C-Entry	0	1078	1022	945	959	0.446	Yes	Yes	801.9435	779	0.815	Yes	Yes	119.7465	128	0.763	23.64092	52	4.588
449	Validation	J5-A-Entry	0	1070	1071	443	440	0.142	Yes	Yes	333.8871	330	0.187	Yes	Yes	96.7183	95	0.160	12.38334	14	0.550
450	Validation	J5-B-Entry	0	3125	1074	226	259	2.113	Yes	Yes	190.5	230	2.738	Yes	Yes	31.08802	25	1.066	4.503032	3	0.568
451	Validation	J5-C-Entry	0	1169	1073	854	839	0.514	Yes	Yes	726.1532	694	1.205	Yes	Yes	118.5951	123	0.393	9.006064	22	3.269
452	Validation	J5-D-Entry	0	4060	1072	142	34	11.579	No	No	115.7339	26	10.706	No	Yes	25.33098	7	4.630	1.125758	1	0.019
453	Calibration	J6-A-Entry	0	1069	1070	338	362	1.301	Yes	Yes	281.6532	300	1.091	Yes	Yes	55.2676	57	0.281	1.125758	5	2.119
454	Calibration	J6-B-Entry	0	3106	1070	208	162	3.371	Yes	Yes	141.3387	109	2.870	Yes	Yes	56.41901	44	1.804	10.13182	9	0.314
456	Validation	J7-A-Entry	0	1163	1122	348	355	0.370	Yes	Yes	303.1613	301	0.138	Yes	Yes	35.69366	47	1.710	9.006064	7	0.575
457	Validation	J7-B-Entry	0	3335	1122	126	156	2.568	Yes	Yes	109.5887	130	1.863	Yes	Yes	13.8169	21	1.696	2.251516	5	1.559
458	Validation	J7-C-Entry	0	1121	1122	484	426	2.731	Yes	Yes	429.1371	353	3.862	Yes	Yes	51.81337	62	1.406	3.377274	11	2.798
459	Calibration	J8-A-Entry	0	3290	1062	429	450	1.018	Yes	Yes	375.879	393	0.881	Yes	Yes	50.66197	53	0.292	2.251516	4	1.099
460	Calibration	J8-B-Entry	0	1153	1062	361	361	0.032	Yes	Yes	292.9193	297	0.223	Yes	Yes	54.11619	55	0.095	13.5091	10	1.152
461	Calibration	J8-C-Entry	0	1126	1062	355	354	0.041	Yes	Yes	304.1855	306	0.119	Yes	Yes	47.20774	44	0.480	3.377274	4	0.212
462	Calibration	J8-D-Entry	0	4207	1062	319	340	1.178	Yes	Yes	285.75	305	1.130	Yes	Yes	26.48239	28	0.317	6.754548	7	0.115
463	Validation	J9-A-Entry	0	3292	3288	336	348	0.666	Yes	Yes	300.0887	308	0.449	Yes	Yes	34.54225	38	0.503	1.125758	3	1.079
464	Validation	J9-B-Entry	0	1409	3288	281	262	1.128	Yes	Yes	238.6371	222	1.124	Yes	Yes	35.69366	33	0.432	6.754548	8	0.369
465	Validation	J9-C-Entry	0	3287	3288	333	368	1.832	Yes	Yes	291.8952	333	2.321	Yes	Yes	35.69366	31	0.727	5.62879	3	1.204
466	Calibration	J10-B-Entry	0	1154	1065	483	453	1.385	Yes	Yes	398.4113	373	1.298	Yes	Yes	71.38732	68	0.439	13.5091	13	0.227
467	Calibration	J10-C-Entry	0	1064	1065	347	354	0.358	Yes	Yes	282.6774	297	0.819	Yes	Yes	59.87323	53	0.941	4.503032	4	0.088
468	Calibration	J11-B-Entry	0	1067	1066	449	462	0.608	Yes	Yes	370.7581	382	0.571	Yes	Yes	69.0845	71	0.221	9.006064	9	0.018
469	Calibration	J11-C-Entry	0	1154	1066	328	326	0.129	Yes	Yes	274.4839	276	0.102	Yes	Yes	49.51056	48	0.284	4.503032	2	1.102
470	Calibration	J12-A-Entry	0	1067	1068	393	408	0.760	Yes	Yes	347.2016	361	0.711	Yes	Yes	43.75352	45	0.244	2.251516	2	0.148
471	Calibration	J12-B-Entry	0	1435	1068	40	36	0.505	Yes	Yes	33.79839	34	0.051	Yes	Yes	5.757042	3	1.574	0	0	0.888
472	Calibration	J12-D-Entry	0	3092	1068	153	168	1.159	Yes	Yes	131.0968	144	1.094	Yes	Yes	19.57394	21	0.373	2.251516	2	0.099
473	Validation	J13-A-Entry	0	1128	1127	583	594	0.453	Yes	Yes	501.8548	493	0.408	Yes	Yes	73.69013	84	1.140	7.880306	18	2.783
474	Validation	J13-B-Entry	0	3099	1127	131	92	3.757	Yes	Yes	110.6129	85	2.611	Yes	Yes	20.72535	7	3.730	0	0	0.000
475	Validation	J13-C-Entry	0	1155	1127	346	330	0.875	Yes	Yes	282.6774	270	0.790	Yes	Yes	57.57042	59	0.217	5.62879	1	2.537
476	Validation	J13-D-Entry	0	3318	1127	320	396	4.044	Yes	Yes	269.3629	334	3.697	Yes	Yes	37.99647	44	0.989	12.38334	18	1.524
477	Validation	J14-B-Entry	0	2046	3098	324	409	4.471	Yes	Yes	266.2903	327	3.540	Yes	Yes	54.11619	68	1.724	3.377274	15	3.733
478	Calibration	J14-C-Entry	0	3339	2002	83	84	0.171	Yes	Yes	66.57258	68	0.166	Yes	Yes	13.8169	14	0.030	2.251516	2	0.062
479	Validation	J14-D-Entry	0	2045	2002	319	359	2.208	Yes	Yes	277.5564	307	1.734	Yes	Yes	31.08802	36	0.863	10.13182	16	1.656
480	Calibration	J15-A-Entry	0	2005	2006	322	339	0.924	Yes	Yes	261.1693	272	0.689	Yes	Yes	57.57042	61	0.472	3.377274	5	0.911
481	Calibration	J15-B-Entry	0	3293	2006	226	234	0.530	Yes	Yes	191.5242	199	0.557	Yes	Yes	26.48239	27	0.062	7.880306	8	0.026
482	Validation	J16-A-Entry	0	2008	2007	274	244	1.890	Yes	Yes	246.8306	211	2.384	Yes	Yes	24.17957	29	0.953	3.377274	4	0.372
483	Validation	J16-B-Entry	0	2006	2007	187	173	1.024	Yes	Yes	146.4597	129	1.494	Yes	Yes	37.99647	40	0.313	2.251516	4	1.033
484	Validation	J16-C-Entry	0	3294	2007	79	98	1.982	Yes	Yes	67.59677	92	2.775	Yes	Yes	9.211266	4	2.079	2.251516	1	0.647
485	Calibration	J17-A-Entry	0	2011	2010	215	196	1.266	Yes	Yes	191.5242	172	1.481	Yes	Yes	20.72535	22	0.356	2.251516	2	0.099
486	Calibration	J17-B-Entry	0	3297	2010	27	28	0.219	Yes	Yes	21.50806	22	0.163	Yes	Yes	5.757042	6	0.003	0	0	0.893
487	Calibration	J18-A-Entry	0	3261	3262	118	154	3.064	Yes	Yes	107.5403	140	2.945	Yes	Yes	9.211266	12	0.825	1.125758	1	0.217
488	Calibration	J18-B-Entry	0	3266	3264	37	41	0.637	Yes	Yes	33.79839	37	0.591	Yes	Yes	3.454225	4	0.025	0	0	0.918
489	Calibration	J18-C-Entry	0	3265	3263	77	87	1.078	Yes	Yes	64.52419	72	0.887	Yes	Yes	11.51408	14	0.683	1.125758	1	0.001
490	Validation	J19-A-Entry	0	4084	3131	25	31	1.196	Yes	Yes	14.33871	22	1.806	Yes	Yes	9.211266	6	1.081	1.125758	3	1.159
491	Validation	J19-B-Entry	0	3132	3131	171	136	2.774	Yes	Yes	145.4355	111	3.020	Yes	Yes	20.72535	22	0.182	4.503032	4	0.494
492	Validation	J19-C-Entry	0	3130	3131	60	45	2.045	Yes	Yes	52.23387	34	2.738	Yes	Yes	8.059858	10	0.693	0	1	1.446
493	Validation	J19-D-Entry	0	3115	3131	75	90	1.650	Yes	Yes	54.28226	77	2.754	Yes	Yes	16.11972	8	2.423	4.503032	6	0.477
494	Calibration	J20-A-Entry	0	1025	1024	733	730	0.124	Yes	Yes	583.7903	581	0.123	Yes	Yes	82.9014	92	0.921	66.41972	57	1.141
495	Calibration	J20-B-Entry	0	1023	1024	690	702	0.466	Yes	Yes	523.3629	531	0.313	Yes	Yes	109.3838	116	0.583	57.41366	56	0.144
496	Calibration	J20-C-Entry	0	3133	1024	120	126	0.513	Yes	Yes	56.33064	69	1.543	Yes	Yes	43.75352	38	0.952	20.26364	20	0.095
497	Validation	J21-A-Entry	0	3181	1131	224	205	1.274	Yes	Yes	191.5242	175	1.230	Yes	Yes	26.48239	25	0.312	5.62879	5	0.180
498	Validation	J21-C-Entry	0	1156	1131	392	387	0.264	Yes	Yes	304.1855	306	0.116	Yes	Yes	55.2676	53	0.283	32.64698	27	0.940
500	Calibration	J22-C-Entry	0	1031	80922	735	744	0.335	Yes	Yes	553.0645	555	0.092	Yes	Yes	116.2922	124	0.742	65.29397	64	0.148
501	Calibration	J22-D-Entry	0	1131	80923	369	386	0.868	Yes	Yes	282.6774	302	1.146	Yes	Yes	54.11619	52	0.248	32.64698	32	0.164
502	Calibration	J23-A-Entry	0	4008	3186	171	178	0.488	Yes	Yes	150.5564	160	0.777	Yes	Yes	20.72535	17	0.853	0	0	0.971
503	Calibration	J23-B-Entry	0	3188	3187	101	83	1.939	Yes	Yes	92.17742	73	2.155	Yes	Yes	6.90845	8	0.231	2.251516	3	0.213
504	Calibration	J23-C-Entry	0	3184	3185	124	126	0.249	Yes	Yes	108.5645	111	0.185	Yes	Yes	14.96831	15	0.117	0	1	1.607
505	Validation	J24-B-Entry	0	1146	1427	698	658	1.541	Yes	Yes	567.4032	551	0.699	Yes	Yes	86.35562	75	1.255	43.90456	32	2.006
506	Validation	J24-D-Entry	0	3190	1429	179	269	6.006	No	Yes	160.7984	254	6.495	No	Yes	17.27112	11	1.763	1.125758	4	1.823
507	Validation	J25-A-Entry	0	1040	1039	695	647	1.842	Yes	Yes	572.5242	461	4.886	Yes	No	89.80985	119	2.833	32.64698	67	4.875
508	Validation	J25-B-Entry	0	3209	1039	259	303	2.598	Yes	Yes	195.621	229	2.311	Yes	Yes	34.54225	54	2.861	29.26971	20	1.832
509	Validation	J25-C-Entry	0	1038	1039	1100	1158	1.714	Yes	Yes	864.4193	916	1.736	Yes	Yes	179.6197	165	1.079	56.2879	76	2.451
511	Calibration	J2-A-Exit	0	1147	1104	407	409	0.134	Yes	Yes	349.25	351	0.092	Yes	Yes	47.20774	48	0.119	10.13182	10	0.052
512	Calibration	J2-D-Exit	0	80916	1013	407	446	1.883	Yes	Yes	316.4758	344	1.538	Yes	Yes	58.72182	67	1.047	31.52123	34	0.457
513	Validation	J3-A-Exit	0	1107	1108	537	366	8.059	No	No	479.3226	306	8.719	No	No	52.96478	49	0.623	4.503032	11	2.217
514	Validation	J3-B-Exit	0	1107	3056	131	101	2.760	Yes	Yes	105.4919	86	1.985	Yes	Yes	21.87676	15	1.612	3.377274	0	2.599
515	Validation	J3-C-Exit	0	1107	1106	448	442	0.261	Yes	Yes	390.2177	394	0.200	Yes	Yes	49.51056	40	1.439	7.880306	8	0.061
516	Validation	J3-D-Exit	0	1107	3031	118	135	1.503	Yes	Yes	95.25	113	1.706	Yes	Yes	20.72535	20	0.092	2.251516	2	0.040
517	Calibration	J4-A-Exit	0	80921	1077	937	960	0.772	Yes	Yes	762	767	0.167	Yes	Yes	155.4401	163	0.586	19.13789	31	2.354
518	Calibration	J4-C-Exit	0	1403	1078	772	809	1.286	Yes	Yes	635	642	0.288	Yes	Yes	103.6267	114	0.953	33.77274	53	2.878
519	Validation	J5-A-Exit	0	1071	1070	725	736	0.426	Yes	Yes	604.2742	596	0.329	Yes	Yes	108.2324	125	1.542	12.38334	15	0.789
520	Validation	J5-B-Exit	0	1074	3125	245	192	3.556	Yes	Yes	226.3468	169	4.051	Yes	Yes	18.42253	18	0.144	0	5	3.171
521	Validation	J5-C-Exit	0	1073	1169	485	546	2.728	Yes	Yes	351.2984	426	3.775	Yes	Yes	119.7465	102	1.664	13.5091	19	1.261
522	Validation	J5-D-Exit	0	1072	4060	211	96	9.237	No	No	184.3548	89	8.142	No	Yes	25.33098	5	5.101	1.125758	2	0.597
523	Calibration	J6-A-Exit	0	1070	1069	620	634	0.556	Yes	Yes	532.5806	540	0.318	Yes	Yes	80.59858	84	0.338	6.754548	10	1.203
524	Calibration	J6-B-Exit	0	1070	3106	197	195	0.149	Yes	Yes	140.3145	142	0.169	Yes	Yes	51.81337	48	0.561	4.503032	4	0.061
526	Validation	J7-A-Exit	0	1122	1163	320	271	2.893	Yes	Yes	274.4839	227	2.972	Yes	Yes	42.60211	40	0.457	3.377274	4	0.142
527	Validation	J7-B-Exit	0	1122	3335	198	161	2.750	Yes	Yes	184.3548	131	4.247	Yes	Yes	12.66549	23	2.449	1.125758	7	2.992
528	Validation	J7-C-Exit	0	1122	1121	439	505	3.026	Yes	Yes	383.0484	425	2.091	Yes	Yes	46.05633	67	2.823	10.13182	13	0.725
529	Calibration	J8-A-Exit	0	1062	3290	400	411	0.519	Yes	Yes	345.1532	354	0.483	Yes	Yes	47.20774	49	0.193	7.880306	8	0.032
530	Calibration	J8-B-Exit	0	1062	1153	394	406	0.585	Yes	Yes	329.7903	343	0.735	Yes	Yes	58.72182	57	0.224	5.62879	6	0.036
531	Calibration	J8-C-Exit	0	1062	1126	470	484	0.647	Yes	Yes	413.7742	427	0.661	Yes	Yes	46.05633	48	0.286	10.13182	9	0.455

532	Calibration	J8-D-Exit	0	1062	4207	199	205	0.445	Yes	Yes
533	Validation	J9-A-Exit	0	3288	3292	249	237	0.780	Yes	Yes
534	Validation	J9-B-Exit	0	3288	1409	480	479	0.056	Yes	Yes
535	Validation	J9-C-Exit	0	3288	3287	221	262	2.661	Yes	Yes
537	Calibration	J10-B-Exit	0	1065	1154	321	354	1.792	Yes	Yes
538	Calibration	J10-C-Exit	0	1065	1064	452	453	0.060	Yes	Yes
539	Calibration	J11-B-Exit	0	1066	1067	394	390	0.208	Yes	Yes
540	Calibration	J11-C-Exit	0	1066	1154	483	485	0.107	Yes	Yes
541	Calibration	J12-A-Exit	0	1068	1067	454	459	0.250	Yes	Yes
542	Calibration	J12-B-Exit	0	1068	1435	82	64	2.107	Yes	Yes
543	Calibration	J12-D-Exit	0	1068	3092	302	310	0.462	Yes	Yes
544	Validation	J13-A-Exit	0	1127	1128	427	403	1.189	Yes	Yes
545	Validation	J13-B-Exit	0	1127	3099	132	142	0.817	Yes	Yes
546	Validation	J13-C-Exit	0	1127	1155	462	458	0.169	Yes	Yes
547	Validation	J13-D-Exit	0	1127	3318	359	409	2.554	Yes	Yes
548	Validation	J14-B-Exit	0	3098	2047	321	396	3.941	Yes	Yes
549	Calibration	J14-C-Exit	0	3098	3097	53	69	2.049	Yes	Yes
550	Validation	J14-D-Exit	0	2002	2045	347	388	2.154	Yes	Yes
551	Calibration	J15-A-Exit	0	2006	2005	335	352	0.914	Yes	Yes
552	Calibration	J15-B-Exit	0	2006	3293	349	356	0.370	Yes	Yes
553	Validation	J16-A-Exit	0	2007	2008	172	165	0.556	Yes	Yes
554	Validation	J16-B-Exit	0	2007	2006	335	309	1.464	Yes	Yes
555	Validation	J16-C-Exit	0	2007	3294	33	41	1.311	Yes	Yes
556	Calibration	J17-A-Exit	0	2010	2011	159	151	0.668	Yes	Yes
557	Calibration	J17-B-Exit	0	2010	3297	15	16	0.109	Yes	Yes
558	Calibration	J18-A-Exit	0	3262	3261	85	115	2.936	Yes	Yes
559	Calibration	J18-B-Exit	0	3264	3266	22	25	0.591	Yes	Yes
560	Calibration	J18-C-Exit	0	3263	3265	125	142	1.492	Yes	Yes
561	Validation	J19-A-Exit	0	3131	4084	39	42	0.532	Yes	Yes
562	Validation	J19-B-Exit	0	3131	3132	78	123	4.419	Yes	Yes
563	Validation	J19-C-Exit	0	3131	3130	122	38	9.432	No	Yes
564	Validation	J19-D-Exit	0	3131	3115	91	100	0.889	Yes	Yes
565	Calibration	J20-A-Exit	0	1024	1025	728	744	0.600	Yes	Yes
566	Calibration	J20-B-Exit	0	1024	1023	616	616	0.027	Yes	Yes
567	Calibration	J20-C-Exit	0	1024	3133	200	198	0.165	Yes	Yes
568	Validation	J21-A-Exit	0	1131	3181	162	141	1.683	Yes	Yes
569	Validation	J21-C-Exit	0	1131	1156	628	602	1.050	Yes	Yes
571	Calibration	J22-C-Exit	0	80922	1031	755	730	0.916	Yes	Yes
572	Calibration	J22-D-Exit	0	80923	1131	540	538	0.080	Yes	Yes
573	Calibration	J23-A-Exit	0	3186	4008	110	88	2.189	Yes	Yes
574	Calibration	J23-B-Exit	0	3187	3188	91	93	0.147	Yes	Yes
575	Calibration	J23-C-Exit	0	3185	3184	195	206	0.776	Yes	Yes
576	Validation	J24-B-Exit	0	1427	1146	365	420	2.783	Yes	Yes
577	Validation	J24-D-Exit	0	1429	3190	141	178	2.929	Yes	Yes
578	Validation	J25-A-Exit	0	1039	1040	927	980	1.699	Yes	Yes
579	Validation	J25-B-Exit	0	1039	3209	242	282	2.498	Yes	Yes
580	Validation	J25-C-Exit	0	1039	1038	885	846	1.342	Yes	Yes
581	Calibration	J1-B-Entry	0	80026	79948	393	409	0.784	Yes	Yes
582	Calibration	J1-C-Entry	0	80009	79948	370	447	3.833	Yes	Yes
583	Calibration	J4-B-Entry	0	80021	79956	219	195	1.663	Yes	Yes
584	Calibration	J4-C-Entry	0	79941	79956	270	256	0.873	Yes	Yes
585	Validation	J5-A-Entry	0	80016	79955	151	177	2.037	Yes	Yes
586	Validation	J5-B-Entry	0	42728	79955	312	270	2.494	Yes	Yes
587	Validation	J5-C-Entry	0	79933	79955	373	374	0.073	Yes	Yes
588	Calibration	J1-B-Exit	0	79948	80026	224	207	1.183	Yes	Yes
589	Calibration	J1-C-Exit	0	79948	80009	325	335	0.541	Yes	Yes
590	Calibration	J4-B-Exit	0	79956	80021	156	216	4.376	Yes	Yes
591	Calibration	J4-C-Exit	0	79956	79941	318	321	0.135	Yes	Yes
592	Validation	J5-A-Exit	0	79955	80016	216	248	2.074	Yes	Yes
593	Validation	J5-B-Exit	0	79955	42728	256	157	6.917	No	Yes
594	Validation	J5-C-Exit	0	79955	79933	364	416	2.674	Yes	Yes
595	Calibration	J1-C-Entry	0	79956	80022	293	254	2.350	Yes	Yes
596	Calibration	J1-D-Entry	0	79945	79942	4	12	2.684	Yes	Yes
597	Calibration	J2-B-Entry	0	79961	79960	19	30	2.321	Yes	Yes
599	Calibration	J3-B-Entry	0	1533	79944	265	243	1.384	Yes	Yes
600	Calibration	J4-A-Entry	0	79962	5082	553	511	1.807	Yes	Yes
601	Validation	J5-A-Entry	0	80034	80040	508	542	1.491	Yes	Yes
602	Validation	J5-B-Entry	0	79962	80040	342	334	0.472	Yes	Yes
603	Validation	J5-C-Entry	0	80010	80040	275	192	5.474	No	Yes
604	Calibration	J6-A-Entry	0	1496	1533	14	35	4.417	Yes	Yes
606	Calibration	J9-C-Entry	0	80039	80038	87	53	4.009	Yes	Yes
607	Calibration	J10-A-Entry	0	79980	79957	428	431	0.155	Yes	Yes
608	Calibration	J10-B-Entry	0	79971	79957	135	137	0.135	Yes	Yes
609	Calibration	J10-C-Entry	0	80038	79957	513	481	1.436	Yes	Yes
610	Calibration	J10-D-Entry	0	80041	79957	181	124	4.605	Yes	Yes
612	Calibration	J1-B-Exit	0	80001	79960	95	96	0.117	Yes	Yes
613	Calibration	J1-C-Exit	0	80022	79956	355	352	0.116	Yes	Yes
614	Calibration	J1-D-Exit	0	79942	79945	10	12	0.390	Yes	Yes
615	Calibration	J2-A-Exit	0	79960	5082	490	462	1.287	Yes	Yes
616	Calibration	J2-B-Exit	0	79960	79961	42	110	7.781	No	Yes
620	Calibration	J3-C-Exit	0	79943	79942	216	229	0.896	Yes	Yes
621	Calibration	J4-A-Exit	0	5082	79962	353	320	1.779	Yes	Yes
623	Calibration	J4-C-Exit	0	5082	1533	376	368	0.432	Yes	Yes
624	Validation	J5-A-Exit	0	80040	80034	572	522	2.136	Yes	Yes
625	Validation	J5-B-Exit	0	80040	79962	554	546	0.348	Yes	Yes
626	Calibration	J6-A-Exit	0	1533	1496	120	160	3.353	Yes	Yes
630	Calibration	J9-B-Exit	0	80038	80035	529	542	0.580	Yes	Yes
631	Calibration	J9-C-Exit	0	80038	80039	98	76	2.426	Yes	Yes
632	Calibration	J10-A-Exit	0	79957	79980	343	332	0.631	Yes	Yes
633	Calibration	J10-B-Exit	0	79957	79971	96	95	0.086	Yes	Yes
634	Calibration	J10-C-Exit	0	79957	80038	523	524	0.028	Yes	Yes
635	Calibration	J10-D-Exit	0	79957	80041	295	223	4.496	Yes	Yes
636	Calibration	16055	E	72577	72587	1978	1950	0.625	Yes	Yes
637	Calibration	16055	W	72585	72578	1982	2144	3.557	Yes	Yes
638	Calibration	46054	E	72590	72597	1910	1925	0.333	Yes	Yes
639	Calibration	46054	W	72596	72588	2024	2043	0.427	Yes	Yes
640	Calibration	58447	N	80400	80399	369	335	1.816	Yes	Yes
641	Calibration	58447	S	80399	80400	183	184	0.038	Yes	Yes
642	Validation	80916	N	4053	1094	454	523	3.130	Yes	Yes
643	Validation	80916	S	1094	4053	454	532	3.481	Yes	Yes
644	Calibration	80919	E	1209	80918	745	773	0.990	Yes	Yes
645	Calibration	80919	W	80918	1209	575	623	1.963	Yes	Yes
648	Calibration	81558	E	79912	5066	590	610	0.833	Yes	Yes
649	Calibration	81558	W	5066	79912	826	893	2.262	Yes	Yes
654	Calibration	27424	W	1575	1551	551	572	0.875	Yes	Yes
655	Calibration	27424	E	1551	1575	498	498	0.007	Yes	Yes
656	Calibration	37473	E	4062	80420	244	225	1.249	Yes	Yes
657	Calibration	37473	W	80420	4062	248	252	0.230	Yes	Yes
660	Calibration	46087	N	80310	80309	291	312	1.252	Yes	Yes
661	Calibration	46087	S	80309	80310	199	202	0.205	Yes	Yes
664	Calibration	58295	N	1047	1048	908	894	0.477	Yes	Yes
665	Calibration	58295	S	1048	1047	519	520	0.016	Yes	Yes
666	Calibration	60060	W	72993	5002	645	610	1.372	Yes	Yes
667	Calibration	60060	E	5002	72993	614	600	0.568	Yes	Yes
670	Calibration	80918	N	1076	1433	705	725	0.744	Yes	Yes
671	Calibration	80918	S	1433	1076	508	541	1.455	Yes	Yes
676	Calibration	99071	E	1365	80786	239	199	2.647	Yes	Yes
677	Calibration	99071	W	80786	1365	227	209	1.247	Yes	Yes
678	Calibration	7407	E	80581	1535	318	327	0.486	Yes	Yes
679	Calibration	7407	W	1535	80581	395	405	0.518	Yes	Yes
682	Calibration	37559	W	5007	5008	398	361	1.905	Yes	Yes
683	Calibration	37559	E	5008	5007	404	375	1.491	Yes	Yes
684	Calibration	56747	S	5067	5066	424	513	4.111	Yes	Yes
685	Calibration	56747	N	5066	5067	546	568	0.913	Yes	Yes
686	Calibration	73708	W	79928	79927	178	168	0.766	Yes	Yes
687	Calibration	73708	E	79927	79928	180	148	2.485	Yes	Yes
688	Calibration	74008	S	5078	42098	537	622	3.523	Yes	Yes
689	Calibration	74008	N	5113	5077	640	628	0.465	Yes	Yes
694	Calibration	81557	W	80297	80298	547	541	0.277	Yes	Yes
695	Calibration	81557	E	80294	73084	388	394	0.304	Yes	Yes
696	Calibration	800650	E	1576	80787	43	15	5.127	No	Yes
697	Calibration	800650	W	80787	1576	54	12	7.333	No	Yes
698	Calibration	800948	W	80316	5112	40	71	4.218	Yes	Yes
699	Calibration	800948	E	5112	80316	39	53	2.118	Yes	Yes
700	Calibration	800954	W	1078	3046	241	242	0.044	Yes	Yes
701	Calibration	800954	E	3046	1078	233	243	0.620	Yes	Yes
702	Calibration	800974	W	3022	3021	25	25	0.100	Yes	Yes
703	Calibration	800974	E	3021	3022	53	53	0.004	Yes	Yes
704	Validation	800975	W	80703	80499	34	26	1.470	Yes	Yes
705	Validation	800975	E	80499	80703	80	73	0.828	Yes	Yes
706	Calibration	802399	N	80334	5102	18	57	6.314	No	Yes
707	Calibration	802399	S	5102	80334	34	67	4.666	Yes	Yes
708	Validation	802416	N	3010	1009	6	8	0.726	Yes	Yes
709	Validation	802416	S	1009	3010	4	13	3.038	Yes	Yes
710	Calibration	802426	N	80436	80438	39	77	4.924	Yes	Yes
711	Calibration	802426	S	80438	80436	15	39	4.658	Yes	Yes
712	Calibration	802431	N	3334	1082	0	18	6.028	No	Yes
713	Calibration	802431	S	1082	3334	1	5	2.384	Yes	Yes
714	Calibration	803953	N	3261	3260	87	98	1.232	Yes	Yes
715	Calibration	803953	S	3260	3261	85	124	3.817	Yes	Yes
716	Calibration	805320	E	5068	1571	3	4	0.569	Yes	Yes
717	Calibration	805320	W	1571	5068	4	25	5.481	No	Yes
718	Calibration	806077	W	80487	80486	100	105	0.463	Yes	Yes
719	Calibration	806077	E	80486	80487	59	60	0.061	Yes	Yes
722	Calibration	949836	W	1470	80526	34	100	8.105	No	Yes
723	Calibration	949836	E	80526	1470	9	55	8.279	No	Yes
724	Calibration	26091	N	80293	80062	798	727	2.573	Yes	Yes

1099	Calibration	0	0	79920	80207	71	68	0.393	Yes	Yes	55.31296	54	0.187	Yes	Yes	15.00978	14	0.223	1.048243	0	1.448
1102	Calibration	A1M/9586A	NB	1557	72205	3116	3130	0.256	Yes	Yes	1733.998	1779	1.075	Yes	Yes	822.0647	801	0.750	559	550	0.399
1103	Calibration	M62/2300A	EB	71397	80829	2921	3029	1.980	Yes	Yes	1634.077	1758	3.016	Yes	Yes	633.1726	625	0.322	654	645	0.319
1105	Validation	A1M/9478B	SB	72202	73152	1727	1707	0.477	Yes	Yes	996.6346	994	0.099	Yes	Yes	376.5055	379	0.138	354	335	1.041
1108	Validation	A1M/9587M	EB	72210	72215	1200	1404	5.654	No	No	856.8867	979	4.031	Yes	Yes	243.2571	279	2.238	100	146	4.128
1109	Validation	A1M/9586J	WB	72214	72217	1317	1332	0.423	Yes	Yes	940.3973	904	1.209	Yes	Yes	266.9645	225	2.692	110	204	7.535
1111	Calibration	9252/1	EB	72219	72749	1892	1823	1.608	Yes	Yes	1202.367	1195	0.207	Yes	Yes	500.3917	448	2.401	189	179	0.727
1112	Validation	8998/1	EB	72573	72577	184	239	3.808	Yes	Yes	102.8128	178	6.341	No	Yes	39.83793	29	1.855	41	32	1.464
1113	Validation	8998/2	EB	72576	72577	1700	1711	0.273	Yes	Yes	861.9554	876	0.471	Yes	Yes	416.4729	409	0.381	421	427	0.249
1114	Validation	8999/2	WB	72578	72575	1917	1882	0.801	Yes	Yes	1123.358	1038	2.595	Yes	Yes	322.9495	344	1.158	471	500	1.328
1115	Validation	8999/1	WB	72578	72572	198	261	4.195	Yes	Yes	110.6061	221	8.558	No	No	42.85768	15	5.265	44	26	3.107
1116	Calibration	9251/1	WB	72748	72218	1575	1674	2.445	Yes	Yes	1224.902	1283	1.640	Yes	Yes	230.8631	259	1.821	119	131	1.069
1117	Calibration	3E+07	EB	72749	72759	2051	2187	2.954	Yes	Yes	1464.718	1515	1.312	Yes	Yes	415.8111	481	3.067	171	191	1.518
1118	Calibration	3E+07	WB	72758	72748	1663	1891	5.410	No	Yes	1187.685	1442	7.012	No	No	337.1658	309	1.547	138	140	0.136
1119	Validation	9255/1	EB	72773	72778	2269	2261	0.178	Yes	Yes	1620.634	1558	1.570	Yes	Yes	460.0734	504	2.018	189	199	0.704
1120	Validation	9256/1	WB	72780	72772	1952	1846	2.432	Yes	Yes	1394.015	1405	0.301	Yes	Yes	395.7398	292	5.575	162	148	1.111
1122	Calibration	A1M/9435A	NB	73143	73146	2452	2471	0.377	Yes	Yes	1415.034	1437	0.580	Yes	Yes	534.567	538	0.163	503	496	0.313
1123	Calibration	A1M/9436B	SB	73145	73142	1895	1971	1.712	Yes	Yes	1093.755	1181	2.572	Yes	Yes	413.1953	412	0.062	388	378	0.523
1126	Validation	A1M/9479A	NB	73151	1559	2200	2405	4.290	Yes	Yes	1269.257	1386	3.202	Yes	Yes	479.4958	546	2.952	451	473	1.039
1127	Validation	9254/1	WB	80534	80555	1896	2183	6.348	No	No	1353.999	1691	8.634	No	No	384.3798	344	2.092	158	147	0.833
1128	Validation	9253/1	EB	80699	73101	2395	2435	0.813	Yes	Yes	1710.397	1694	0.390	Yes	Yes	485.5556	534	2.162	199	206	0.508
1156	Calibration	Site 1-C-Entry	0	1034	72812	38	34	0.549	Yes	Yes	31.20293	26	0.938	Yes	Yes	6.577244	7	0.015	0	2	1.875
1157	Calibration	Site 1-C-Exit	0	72815	1034	148	143	0.416	Yes	Yes	139.4381	121	1.626	Yes	Yes	8.769658	17	2.279	0	5	3.272
1158	Calibration	A1M/9462M	Southbound	73149	73145	409	420	0.521	Yes	Yes	236.21	301	3.972	Yes	Yes	89.23469	64	2.843	84	54	3.562
1159	Calibration	A1M/9650B	Southbound	72252	72256	2662	2643	0.366	Yes	Yes	1536.339	1531	0.147	Yes	Yes	580.3933	575	0.229	546	538	0.327
1160	Calibration	M62/2351K	Eastbound	72554	72566	331	362	1.656	Yes	Yes	185.2677	212	1.898	Yes	Yes	71.78755	84	1.397	74	66	0.987
1161	Calibration	A1M/9646M	Southbound	72257	72256	770	819	1.743	Yes	Yes	444.1814	481	1.724	Yes	Yes	167.8015	179	0.866	158	158	0.050
1162	Calibration	M62/2352L	Westbound	72565	72545	328	356	1.535	Yes	Yes	183.3973	218	2.412	Yes	Yes	71.06281	65	0.679	73	73	0.017
1163	Calibration	A1M/9650L	Southbound	72252	72255	153	183	2.325	Yes	Yes	88.07267	113	2.510	Yes	Yes	33.27182	33	0.086	31	37	0.928
1164	Calibration	A1M/9592B	Southbound	72207	1558	2888	2991	1.902	Yes	Yes	1987.056	1715	6.326	No	Yes	480.4534	655	7.307	420	622	8.818
1165	Calibration	M62/2348B	Westbound	72565	72567	2118	2121	0.054	Yes	Yes	1184.95	1241	1.615	Yes	Yes	459.1446	409	2.423	474	471	0.151
1167	Calibration	M62/2346A	Eastbound	72568	72566	1702	1789	2.100	Yes	Yes	952	985	1.070	Yes	Yes	368.8811	414	2.285	381	390	0.470
1168	Calibration	A1M/9646J	Northbound	72258	72259	944	882	2.034	Yes	Yes	544.7078	541	0.181	Yes	Yes	205.778	220	0.950	193	122	5.659
1169	Calibration	A1M/9592L	Southbound	72207	72206	462	471	0.443	Yes	Yes	266.473	297	1.819	Yes	Yes	100.6673	100	0.109	95	75	2.158
1170	Calibration	A1M/9468K	Northbound	73147	73151	306	332	1.432	Yes	Yes	176.8628	226	3.446	Yes	Yes	66.81469	66	0.117	63	40	3.110
1171	Calibration	00100048_01	Northbound	5060	1445	106	155	4.336	Yes	Yes	87.32348	128	3.889	Yes	Yes	14.84984	28	2.760	3.504593	0	2.647
1172	Calibration	00100048_01	Southbound	1445	5060	106	164	5.049	No	Yes	87.32348	145	5.386	No	Yes	14.84984	19	0.991	3.504593	0	2.647
1173	Validation	2E+07	Northbound	80501	80508	246	208	2.490	Yes	Yes	202.9117	180	1.636	Yes	Yes	34.50627	25	1.834	8.143549	3	2.047
1174	Validation	2E+07	Southbound	80508	80501	179	140	3.073	Yes	Yes	148.117	115	2.894	Yes	Yes	25.18812	21	0.856	5.944447	4	0.678
1175	Calibration	J1-A-Entry	Southbound	80228	5049	90	111	2.065	Yes	Yes	76.19425	94	1.902	Yes	Yes	10.70729	14	0.878	3.489587	4	0.066
1176	Calibration	J1-B-Entry	Westbound	5050	5049	33	38	0.850	Yes	Yes	28.57284	32	0.670	Yes	Yes	3.569097	5	0.647	1.163196	1	0.058
1177	Calibration	J1-C-Entry	Northbound	80222	5049	52	60	1.060	Yes	Yes	46.56315	53	0.945	Yes	Yes	4.758795	6	0.527	1.163196	1	0.061
1178	Calibration	J1-A-Exit	Northbound	5049	80228	54	68	1.796	Yes	Yes	47.62141	58	1.478	Yes	Yes	5.948494	8	0.735	0	1	1.602
1179	Calibration	J1-B-Exit	Eastbound	5049	5050	28	36	1.371	Yes	Yes	21.16507	26	1.062	Yes	Yes	4.758795	7	1.035	2.326391	2	0.034
1180	Calibration	J1-C-Exit	Southbound	5049	80222	94	106	1.199	Yes	Yes	82.54377	95	1.271	Yes	Yes	8.327892	9	0.383	3.489587	2	0.633
1181	Validation	J2-A-Entry	Westbound	80217	5048	114	131	1.553	Yes	Yes	99.47583	122	2.140	Yes	Yes	10.70729	7	1.198	3.489587	2	1.102
1182	Validation	J2-B-Entry	Northbound	1447	5048	73	69	0.536	Yes	Yes	61.3787	61	0.066	Yes	Yes	9.517591	5	1.604	2.326391	3	0.220
1183	Validation	J2-C-Entry	Eastbound	80214	5048	81	65	1.904	Yes	Yes	71.96124	59	1.632	Yes	Yes	8.327892	6	0.906	1.163196	0	0.771
1184	Validation	J2-A-Exit	Eastbound	5048	80217	79	92	1.347	Yes	Yes	70.90298	80	1.071	Yes	Yes	7.138193	9	0.812	1.163196	2	0.639
1185	Validation	J2-B-Exit	Southbound	5048	1447	101	108	0.712	Yes	Yes	86.77679	103	1.630	Yes	Yes	10.70729	4	2.273	3.489587	1	1.521
1186	Validation	J2-C-Exit	Westbound	5048	80214	88	65	2.673	Yes	Yes	75.136	59	1.999	Yes	Yes	10.70729	4	2.343	2.326391	2	0.423
1187	Validation	J4-A-Entry	Westbound	80103	1480	358	345	0.673	Yes	Yes	251.8643	257	0.332	Yes	Yes	58.29524	51	0.988	47.69102	37	1.629
1188	Calibration	J4-B-Entry	Northbound	80097	5053	126	125	0.125	Yes	Yes	48.67966	53	0.541	Yes	Yes	35.69097	36	0.098	41.87504	36	0.936
1190	Calibration	J4-D-Entry	Southbound	80099	1483	123	143	1.756	Yes	Yes	86.77679	106	1.927	Yes	Yes	15.46609	17	0.400	20.93752	21	0.053
1191	Validation	J4-A-Exit	Eastbound	1480	80103	447	433	0.666	Yes	Yes	322.7673	332	0.489	Yes	Yes	58.29524	52	0.895	66.30215	50	2.122
1192	Calibration	J4-B-Exit	Southbound	5053	80097	403	401	0.105	Yes	Yes	310.0683	308	0.117	Yes	Yes	55.91585	57	0.086	37.22226	37	0.115
1194	Calibration	J4-D-Exit	Northbound	1483	80099	136	140	0.405	Yes	Yes	91.0098	95	0.455	Yes	Yes	21.41458	22	0.136	23.26391	23	0.056
1195	Calibration	J3-A-Entry	Southbound	1231	1491	233	246	0.804	Yes	Yes	189.4274	197	0.543	Yes	Yes	28.55277	33	0.855	15.12154	15	0.034
1196	Calibration	J3-B-Entry	Westbound	1482	1490	520	555	1.513	Yes	Yes	336.5246	368	1.696	Yes	Yes	92.79651	97	0.439	90.72926	90	0.109
1197	Calibration	J3-C-Entry	Northbound	80092	1489	727	741	0.525	Yes	Yes	536.5345	550	0.597	Yes	Yes	86.84802	89	0.219	103.5244	102	0.174
1198	Calibration	J3-D-Entry	Eastbound	80094	1488	420	437	0.823	Yes	Yes	364.0392	386	1.123	Yes	Yes	48.77765	51	0.322	6.979173	0	3.736

1099						0					0			0		
1102	3078	2891	3.431	Yes	Yes	2006.424	1819	4.289	Yes	Yes	486.8404	487	0.008	585	585	0.002
1103	3158	3159	0.005	Yes	Yes	1792.019	1792	0.005	Yes	Yes	565.0293	565	0.001	801	802	0.004
1105	2177	2174	0.061	Yes	Yes	1381.067	1362	0.512	Yes	Yes	374.953	385	0.526	421	426	0.285
1108	1299	1454	4.177	Yes	Yes	990.6483	1035	1.401	Yes	Yes	203.3528	243	2.678	105	176	5.942
1109	1225	1359	3.742	Yes	Yes	933.7022	973	1.272	Yes	Yes	191.6633	240	3.308	99	146	4.212
1111	1622	1608	0.339	Yes	Yes	1243.212	1243	0.002	Yes	Yes	234.0486	234	0.006	145	131	1.159
1112	152	121	2.685	Yes	Yes	86.34271	95	0.895	Yes	Yes	27.22413	13	3.054	39	13	5.164
1113	1660	1605	1.380	Yes	Yes	839.3114	840	0.029	Yes	Yes	293.7311	274	1.175	527	491	1.630
1114	1709	1614	2.342	Yes	Yes	926.3068	850	2.556	Yes	Yes	321.8048	309	0.741	461	455	0.285
1115	142	117	2.163	Yes	Yes	80.58721	88	0.806	Yes	Yes	25.4094	17	1.743	36	12	4.888
1116	1697	1658	0.954	Yes	Yes	1203.693	1204	0.007	Yes	Yes	318.7554	298	1.196	174	156	1.427
1117	1783	1758	0.601	Yes	Yes	1359.777	1360	0.009	Yes	Yes	279.1247	253	1.587	144	145	0.021
1118	1864	1806	1.358	Yes	Yes	1421.13	1320	2.734	Yes	Yes	291.7189	321	1.691	151	164	1.070
1119	2000	1876	2.799	Yes	Yes	1524.686	1421	2.699	Yes	Yes	312.9761	296	0.947	162	159	0.243
1120	1954	1788	3.836	Yes	Yes	1489.677	1292	5.311	No	Yes	305.7897	333	1.512	158	163	0.402
1122	2257	2257	0.001	Yes	Yes	1432.368	1433	0.004	Yes	Yes	388.8811	389	0.002	436	436	0.007
1123	2352	2351	0.013	Yes	Yes	1492.27	1492	0.007	Yes	Yes	405.1441	405	0.009	454	454	0.009
1126	2052	2075	0.513	Yes	Yes	1302.13	1307	0.140	Yes	Yes	353.5222	357	0.195	396	411	0.726
1127	2060	2001	1.304	Yes	Yes	1570.746	1464	2.741	Yes	Yes	322.4308	367	2.401	167	170	0.265
1128	1974	1913	1.379	Yes	Yes	1505.314	1485	0.524	Yes	Yes	308.9995	279	1.768	160	150	0.822
1156						0					0			0		
1157						0					0			0		
1158	371	361	0.521	Yes	Yes	235.5226	236	0.032	Yes	Yes	63.94325	59	0.696	72	67	0.603
1159	2961	2854	1.986	Yes	Yes	1879.122	1772	2.496	Yes	Yes	510.1726	510	0.008	572	572	0.012
1160	284	263	1.263	Yes	Yes	161.2412	156	0.396	Yes	Yes	50.83987	48	0.333	72	59	1.677
1161	611	607	0.145	Yes	Yes	387.5616	388	0.024	Yes	Yes	105.2211	105	0.021	118	114	0.356
1162	271	269	0.103	Yes	Yes	153.6655	153	0.090	Yes	Yes	48.45121	50	0.253	69	66	0.287
1163	108	139	2.791	Yes	Yes	68.44493	97	3.185	Yes	Yes	18.58247	19	0.096	21	22	0.339
1164	3209	3169	0.705	Yes	Yes	1954.859	1956	0.015	Yes	Yes	623.4536	569	2.210	631	644	0.536
1165	1736	1728	0.188	Yes	Yes	985.0081	977	0.267	Yes	Yes	310.5762	325	0.825	440	426	0.681
1167	1763	1745	0.443	Yes	Yes	1000.348	971	0.927	Yes	Yes	315.4129	300	0.908	447	474	1.233
1168	596	596	0.006	Yes	Yes	377.971	378	0.006	Yes	Yes	102.6173	103	0.036	115	115	0.010
1169	323	292	1.770	Yes	Yes	205.1558	205	0.011	Yes	Yes	55.69882	46	1.429	62	42	2.871
1170	153	152	0.076	Yes	Yes	97.33782	97	0.036	Yes	Yes	26.42675	26	0.081	30	29	0.031
1171	124	116	0.687	Yes	Yes	100.8025	97	0.360	Yes	Yes	19.11547	19	0.026	3.830027	0	2.768
1172	109	134	2.262	Yes	Yes	88.62765	113	2.441	Yes	Yes	16.80672	21	0.868	3.367439	0	2.595
1173	140	109	2.741	Yes	Yes	113.7111	90	2.327	Yes	Yes	21.56337	15	1.434	4.320493	3	0.455
1174	118	122	0.419	Yes	Yes	95.87121	101	0.482	Yes	Yes	18.18034	19	0.302	3.642661	2	0.877
1175						0					0			0		
1176						0					0			0		
1177						0					0			0		
1178						0					0			0		
1179						0					0			0		
1180						0					0			0		
1181						0					0			0		
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1188						0					0			0		
1190						0					0			0		
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1192						0					0			0		
1194						0					0			0		
1195						0					0			0		
1196						0					0			0		
1197						0					0			0		
1198						0					0			0		

1099	125	127	0.144	Yes	Yes	119.2804	121	0.196	Yes	Yes	6.205671	6	0.220	0	0	0.000
1102	3171	3257	1.526	Yes	Yes	2484.329	2373	2.260	Yes	Yes	372.849	522	7.037	314	363	2.670
1103	3690	3847	2.554	Yes	Yes	2666.22	2767	1.941	Yes	Yes	562.0405	601	1.626	462	479	0.756
1105	2304	2406	2.103	Yes	Yes	1662.548	1681	0.461	Yes	Yes	355.6239	428	3.668	286	296	0.621
1108	1310	1634	8.448	No	No	1110.505	1262	4.409	Yes	Yes	153.9317	261	7.455	46	110	7.339
1109	1459	1767	7.666	No	No	1236.5	1421	5.053	No	Yes	171.3964	265	6.330	51	81	3.719
1111	1962	2066	2.297	Yes	Yes	1723.602	1756	0.781	Yes	Yes	179.7892	241	4.213	59	69	1.179
1112	216	270	3.459	Yes	Yes	155.9666	228	5.229	No	Yes	32.87783	25	1.552	27	17	2.195
1113	2009	2009	0.002	Yes	Yes	1430.164	1383	1.247	Yes	Yes	298.5869	326	1.539	280	299	1.158
1114	1642	1585	1.416	Yes	Yes	1050.131	1048	0.062	Yes	Yes	325.4794	284	2.383	266	253	0.824
1115	172	219	3.416	Yes	Yes	124.0591	173	4.038	Yes	Yes	26.15172	29	0.533	22	17	0.966
1116	1870	1872	0.051	Yes	Yes	1437.321	1463	0.669	Yes	Yes	318.9656	311	0.424	114	98	1.530
1117	2193	2260	1.419	Yes	Yes	1858.786	1922	1.443	Yes	Yes	257.6541	266	0.501	76	72	0.454
1118	2076	2242	3.579	Yes	Yes	1759.53	1786	0.619	Yes	Yes	243.8958	355	6.426	72	101	3.117
1119	2119	2013	2.348	Yes	Yes	1796.513	1667	3.102	Yes	Yes	249.0221	272	1.396	74	74	0.016
1120	2326	2240	1.779	Yes	Yes	1971.294	1805	3.827	Yes	Yes	273.2493	339	3.783	81	96	1.599
1122	2267	2322	1.147	Yes	Yes	1635.909	1647	0.263	Yes	Yes	349.9257	381	1.615	281	294	0.790
1123	2425	2511	1.732	Yes	Yes	1749.999	1804	1.285	Yes	Yes	374.3299	402	1.401	301	305	0.245
1126	1982	2098	2.575	Yes	Yes	1430.107	1501	1.858	Yes	Yes	305.904	336	1.697	246	260	0.927
1127	2315	2523	4.215	Yes	Yes	1962.691	2037	1.654	Yes	Yes	272.0568	384	6.173	81	102	2.255
1128	2438	2521	1.658	Yes	Yes	2067.044	2152	1.839	Yes	Yes	286.5216	295	0.486	85	75	1.140
1156	350	304	2.571	Yes	Yes	340.9103	294	2.634	Yes	Yes	8.46007	9	0.089	1.010324	1	0.155
1157	243	209	2.236	Yes	Yes	232.3952	199	2.304	Yes	Yes	8.46007	9	0.089	2.020648	2	0.050
1158	435	459	1.150	Yes	Yes	313.8707	376	3.350	Yes	Yes	67.13788	45	2.923	54	38	2.362
1159	2651	2721	1.342	Yes	Yes	1913.129	1907	0.146	Yes	Yes	409.2238	439	1.427	329	375	2.481
1160	295	312	0.968	Yes	Yes	212.8956	246	2.184	Yes	Yes	44.8785	48	0.441	37	18	3.680
1161	856	929	2.453	Yes	Yes	617.5192	674	2.241	Yes	Yes	132.0892	144	1.009	106	111	0.429
1162	334	392	3.045	Yes	Yes	241.54	279	2.343	Yes	Yes	50.91675	65	1.887	42	48	0.875
1163	176	205	2.082	Yes	Yes	126.9092	143	1.343	Yes	Yes	27.14626	39	2.072	22	23	0.254
1164	3175	3218	0.771	Yes	Yes	1974.192	2205	5.042	No	Yes	733.9027	533	8.002	467	481	0.666
1165	1671	1703	0.772	Yes	Yes	1207.151	1215	0.239	Yes	Yes	254.468	273	1.115	209	215	0.363
1167	2199	2368	3.537	Yes	Yes	1588.648	1713	3.067	Yes	Yes	334.8879	363	1.501	275	292	0.970
1168	870	949	2.605	Yes	Yes	628.0466	714	3.332	Yes	Yes	134.341	160	2.143	108	74	3.539
1169	441	431	0.488	Yes	Yes	318.5089	377	3.115	Yes	Yes	68.13	50	2.359	55	5	9.208
1170	175	202	1.950	Yes	Yes	126.2379	156	2.479	Yes	Yes	27.00266	29	0.396	22	17	1.086
1171	153	176	1.797	Yes	Yes	135.9648	154	1.508	Yes	Yes	15.19944	22	1.604	2.028366	0	2.014
1172	141	231	6.589	No	Yes	125.5675	216	6.927	No	Yes	14.03713	15	0.340	1.873255	0	1.936
1173	209	147	4.584	Yes	Yes	185.1954	126	4.742	Yes	Yes	20.7029	20	0.221	2.762803	2	0.685
1174	215	230	1.001	Yes	Yes	190.512	207	1.145	Yes	Yes	21.29724	22	0.052	2.842117	1	1.001
1175	77	90	1.443	Yes	Yes	67.74378	79	1.275	Yes	Yes	9.181598	11	0.460	0	1	1.292
1176	22	31	1.758	Yes	Yes	17.7176	25	1.574	Yes	Yes	4.590799	6	0.616	0	0	0.918
1177	69	82	1.485	Yes	Yes	64.61714	77	1.429	Yes	Yes	3.443099	4	0.407	1.096491	1	0.092
1178	63	85	2.611	Yes	Yes	59.40608	78	2.286	Yes	Yes	3.443099	6	1.216	0	1	1.295
1179	38	42	0.691	Yes	Yes	33.35078	37	0.676	Yes	Yes	3.443099	4	0.141	1.096491	1	0.085
1180	68	76	0.985	Yes	Yes	57.32166	65	0.920	Yes	Yes	10.3293	11	0.226	0	0	0.922
1181	78	86	0.903	Yes	Yes	66.70157	77	1.168	Yes	Yes	11.477	9	0.814	0	1	1.342
1182	76	97	2.281	Yes	Yes	67.74378	92	2.687	Yes	Yes	5.738499	3	1.299	2.192981	2	0.061
1183	80	56	2.851	Yes	Yes	72.95484	53	2.557	Yes	Yes	5.738499	3	1.578	1.096491	1	0.038
1184	103	109	0.611	Yes	Yes	94.84129	103	0.831	Yes	Yes	6.886199	4	1.079	1.096491	2	0.488
1185	56	80	2.847	Yes	Yes	44.81512	72	3.535	Yes	Yes	10.3293	6	1.409	1.096491	2	0.462
1186	75	51	3.021	Yes	Yes	67.74378	46	2.870	Yes	Yes	5.738499	4	0.873	1.096491	1	0.360
1187	479	486	0.305	Yes	Yes	425.2225	439	0.679	Yes	Yes	24.1017	26	0.409	29.60525	20	1.896
1188	368	373	0.261	Yes	Yes	324.1279	327	0.155	Yes	Yes	24.1017	25	0.277	19.73683	21	0.190
1190	127	138	0.903	Yes	Yes	97.96793	107	0.865	Yes	Yes	19.5109	21	0.305	9.868416	10	0.088
1191	385	390	0.253	Yes	Yes	334.55	340	0.276	Yes	Yes	20.6586	27	1.205	29.60525	24	1.150
1192	145	146	0.028	Yes	Yes	102.1368	103	0.106	Yes	Yes	12.6247	13	0.041	30.70174	30	0.160
1194	112	122	0.967	Yes	Yes	92.75687	101	0.881	Yes	Yes	10.3293	12	0.360	8.771925	9	0.197
1195	329	370	2.193	Yes	Yes	298.0726	321	1.327	Yes	Yes	22.954	37	2.585	7.675434	11	1.128
1196	890	928	1.245	Yes	Yes	785.8278	818	1.135	Yes	Yes	57.38499	62	0.626	47.1491	48	0.078
1197	434	469	1.665	Yes	Yes	352.2677	386	1.747	Yes	Yes	33.28329	33	0.098	48.24559	51	0.339
1198	291	312	1.252	Yes	Yes	268.8907	294	1.473	Yes	Yes	19.5109	19	0.176	2.192981	0	2.094

1199	Calibration	*J3-A-Exit*	*Northbound*	1491	1231	299	355	3.097	Yes	Yes	262.4469	305	2.513	Yes	Yes	17.84548	30	2.428	18.61113	20	0.417
1200	Calibration	*J3-B-Exit*	*Eastbound*	1490	1482	899	917	0.581	Yes	Yes	673.0492	688	0.574	Yes	Yes	118.9699	123	0.365	107.014	106	0.146
1201	Calibration	*J3-C-Exit*	*Southbound*	1489	80092	405	440	1.685	Yes	Yes	259.2721	291	1.940	Yes	Yes	65.43344	67	0.241	80.26049	81	0.053
1202	Calibration	*J3-D-Exit*	*Westbound*	1488	80094	297	268	1.746	Yes	Yes	231.7575	217	0.961	Yes	Yes	54.72615	50	0.616	10.46876	0	4.576
1203	Calibration	*9255/1*	*EB*	72779	72813	2269	2095	3.732	Yes	Yes	1620.634	1480	3.576	Yes	Yes	460.0734	434	1.244	188.7319	182	0.531
1204	Calibration	*9256/1*	*WB*	72811	72781	1952	1897	1.254	Yes	Yes	1394.015	1416	0.583	Yes	Yes	395.7398	325	3.706	162.3409	156	0.516
1205	Calibration	*9257/1*	*EB*	1235	72861	2136	1924	4.713	Yes	Yes	1525.613	1352	4.572	Yes	Yes	433.0983	399	1.669	177.6662	173	0.369
1206	Calibration	*9258/1*	*WB*	1236	72807	1591	1392	5.157	No	Yes	1136.021	1001	4.119	Yes	Yes	322.499	259	3.743	132.296	132	0.059
1207	Calibration	9568A	*NB*	72220	72213	4790	4617	2.520	Yes	Yes	2764.276	2804	0.756	Yes	Yes	1044.28	1031	0.419	981.6803	782	6.707
1208	Calibration	9568B	*SB*	72215	1182	4582	4525	0.846	Yes	Yes	2643.92	2751	2.056	Yes	Yes	998.8118	996	0.101	938.9381	778	5.482
1209	Calibration	York15	*NB*	80562	80563	461	309	7.753	No	No	417.891	276	7.633	No	No	30.59144	27	0.654	12.81855	6	2.102
1210	Calibration	York15	*SB*	80563	80562	271	165	7.211	No	No	234.2133	140	6.883	No	Yes	32.77654	23	1.773	4.272849	1	1.741

1199						0					0			0		
1200						0					0			0		
1201						0					0			0		
1202						0					0			0		
1203	2000	1777	5.118	No	Yes	1524.686	1328	5.206	No	Yes	312.9761	294	1.096	161.8851	155	0.531
1204	1954	1656	7.012	No	No	1489.677	1192	8.142	No	No	305.7897	306	0.011	158.168	158	0.004
1205	1612	1616	0.104	Yes	Yes	1228.929	1229	0.015	Yes	Yes	252.2653	256	0.219	130.4828	131	0.015
1206	1690	1616	1.836	Yes	Yes	1288.934	1214	2.119	Yes	Yes	264.5827	265	0.026	136.8539	137	0.008
1207	4441	4329	1.694	Yes	Yes	2817.762	2818	0.010	Yes	Yes	765.009	765	0.001	857.9378	745	3.979
1208	4783	4692	1.317	Yes	Yes	3034.741	3035	0.003	Yes	Yes	823.9176	824	0.003	924.0023	833	3.068
1209	111	111	0.023	Yes	Yes	91.1471	91	0.018	Yes	Yes	15.53644	16	0.117	4.14305	4	0.275
1210	198	197	0.048	Yes	Yes	168.8293	168	0.058	Yes	Yes	21.92364	22	0.016	6.905083	7	0.002

1199	148	208	4.485	Yes	Yes	133.4031	189	4.370	Yes	Yes	10.3293	14	1.100	4.385962	5	0.240
1200	558	589	1.303	Yes	Yes	467.9532	489	0.974	Yes	Yes	33.28329	41	1.193	57.01751	60	0.346
1201	655	687	1.254	Yes	Yes	576.3432	603	1.091	Yes	Yes	35.57869	39	0.629	42.76313	45	0.322
1202	582	595	0.500	Yes	Yes	527.3593	538	0.455	Yes	Yes	53.94189	57	0.368	1.096491	0	1.481
1203	2233	2178	1.167	Yes	Yes	1893.068	1859	0.790	Yes	Yes	262.406	248	0.872	77.75474	71	0.767
1204	2326	2114	4.493	Yes	Yes	1971.294	1758	4.938	Yes	Yes	273.2493	274	0.054	80.96776	82	0.076
1205	1840	1654	4.443	Yes	Yes	1559.745	1382	4.647	Yes	Yes	216.2027	207	0.599	64.06402	65	0.150
1206	2089	1895	4.347	Yes	Yes	1770.727	1564	5.066	No	Yes	245.4479	260	0.940	72.7298	71	0.248
1207	5101	5176	1.043	Yes	Yes	3681.06	3863	2.968	Yes	Yes	787.3896	854	2.311	632.3134	459	7.438
1208	4893	4998	1.499	Yes	Yes	3530.801	3593	1.035	Yes	Yes	755.2487	810	1.964	606.5027	595	0.461
1209	243	156	6.168	No	Yes	217.2635	153	4.684	Yes	Yes	23.1876	2	5.820	3.020863	0	1.997
1210	374	259	6.447	No	No	345.516	236	6.401	No	No	21.07964	22	0.141	7.04868	1	3.071

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