TransLink Regional Travel Model (RTM3.2)

# Quick Reference

Version 1.0 September 27, 2019

#### Blending Factor<sup>1</sup>

Blending factors are used in skim blending. This is a process to create weighted average daily impedance from the model's peak hour assignment to be used in trip distribution and model choice. The factors account for the likelihood of the trip occurring in each peak hour. The sum of the factors should always equal to 1.

Trip Purpose	PA/AP	Time	Matrix	Factor
HB Work	P-A	AM	ms400	0.3918
		MD	ms401	0.1163
		PM	ms402	0.0264
	A-P	AM	ms403	0.0070
		MD	ms404	0.1398
		PM	ms405	0.3188
HB Work WCE	P-A	AM	ms406	0.5249
		PM	ms407	0.0023
	A-P	PM	ms408	0.4728
HB University	P-A	AM	ms410	0.3442
		MD	ms411	0.1565
		PM	ms412	0.0401
	A-P	AM	ms413	0.0388
	,,,	MD	ms414	0.1972
		PM	ms415	0.2233
HB School	P-A	AM	ms420	0.5422
TID SCHOOL	1-A	MD	ms421	0.0213
		PM	ms422	0.0086
	A-P	AM	ms423	0.0009
	A-r	MD	ms424	0.1210
		PM	ms425	0.3061
HB Shopping	P-A	AM	ms430	0.0497
пь эпорріпв	F-A	MD	ms431	0.2501
		PM	ms432	0.0994
	A-P	AM	ms433	0.0140
	A-r	MD	ms434	0.3304
		PM	ms435	0.2565
HB Personal Business	P-A			
HB Personal Business	P-A	AM	ms440	0.1377 0.2593
		MD PM	ms441	
	A-P		ms442	0.1030 0.0283
	A-P	AM	ms443	
		MD PM	ms444	0.2767
UD Coolel	D. A.		ms445	0.1951
HB Social	P-A	AM	ms450	0.0847
		MD	ms451	0.2008
		PM	ms452	0.1935
	A-P	AM	ms453	0.0175
		MD	ms454	0.3579
		PM	ms455	0.1457
HB Escorting	P-A	AM	ms460	0.2349
		MD	ms461	0.1695
		PM	ms462	0.1215
	A-P	AM	ms463	0.0915
		MD	ms464	0.1687
AULD MALE A		PM	ms465	0.2139
NHB Work	P-A	AM	ms470	0.2036
		MD	ms471	0.4482
		PM	ms472	0.3482
NHB Other	P-A	AM	ms480	0.1202
		MD	ms481	0.5406
		PM	ms482	0.3392

<sup>&</sup>lt;sup>1</sup> Greater Vancouver Regional Travel Model Development and Validation Report, July 2018, Page 99

## Time of Assginment<sup>2</sup>

Peak Period	Hour	Hours of the day represented
AM	07:30-08:30	06:00-10:00
MD	12:00-13:00	10:00-15:00, 18:00-06:00
PM	16:30-17:30	15:00-18:00

<sup>2</sup> Greater Vancouver Regional Travel Model Development and Validation Report, July 2018, Page 98

#### **Expansion factors**

#### **Daily Factor**

#### Traffic Volume<sup>3</sup>

The traffic expansion factor is to convert the model assigned hourly traffic volume to daily volume. The factor set has a generic set and categorized set. Both sets can be used according to the study purpose. (The factor value keeps updating base on the latest screen-line data)

#### All Classes

AM	MD	PM
3.68	9.20	3.11

#### By category

Class	AM	MD	PM
sov	3.44	8.41	3.95
HOV	1.51	8.58	5.32
SOV+HOV	3.22	8.63	4.05
Light Truck	3.59	5.63	6.17
Heavy Truck	4.88	5.43	6.36
All Truck	3.83	5.81	6.63

#### Transit ridership<sup>4</sup>

The transit expansion factor converts the hourly transit ridership to daily value. Like auto traffic, the factor set is classed by different types of service. The value shows below. (\*SeaBus has the same factor with Rail)

AM	MD	PM	
Bus			
2.54	9.44	2.57	
Rail			
2.53	9.54	2.92	
WCE			
3.34		2.02	

#### Annual Factor<sup>4</sup>

The annual expansion factor is to expend the daily volume on typical fall weekday to yearly volume. The generic expansion factor, including all vehicle classes, is 333. And the factors for each class are shown below:

Class	Factor
All Classes	333
Auto	335
Light Truck	313
Heavy Truck	276
Bus	299
Rail	331
WCE	224

<sup>&</sup>lt;sup>3</sup> Technical Memo for TransLink Regional VKT Expansion Factors, by Delan, January 2014, Page 4-10

<sup>&</sup>lt;sup>4</sup> TransLink Database: SAVONA.TL\_RESEARCH\_ANALYTICS\_DEV.counts.expansion\_factors

Transit Vehicle Capacity and Cost
The table below gives a transit vehicle capacity and cost catalog. The value is used in the transit assignment process.

Transit Vehicle	Mode	Fleet Size	Capacity(S/T)	OC(\$/h)	OC(\$/km)	Auto. equ
1. Motor-Bus	b	747	35/50	65	0.55	2.5
2. Trolley	b	224	31/47	65	0.55	2.5
3. Blue-Bus	b	48	31/47	65	0.55	2.5
4. Sea-Bus	S	2	300/400	0	0	0
5. Sky-E	1	999	88/287	0	3	0
6. pcl-bus	b	20	50/50	30	0.55	2.5
7. Abbotsford	b	12	48/60	30	0.55	2.5
8. Comrail-5	r	5	1500/1650	0	0	0
9. Chilliwack	b	12	48/60	30	0.55	2.5
10. Mot-Artics	b	42	48/90	65	0.55	3.75
11. Tro-Artics	b	1	49/70	65	0.55	3.75
12. HwyCoach	b	66	49/49	65	0.55	2.5
13. MiniBus	b	40	20/24	65	0.55	2.5
14. Sky-M	I	999	140/300	0	0	0
15. Sky-Sh	I	999	150/350	0	0	0
16. BRT	g	42	60/105	0	0	3.75
17. LRT	f	1	160/300	0	3	0
18. Gondola	h	20	28/35	0	0	0
20. Sky-ML2	I	999	127/218	0	0	0
31. EL-2017	I	999	174/424	0	3	0
32. EL-2030	I	999	143/509	0	3	0
33. EL-2045	I	999	143/509	0	3	0
34. ML-2017	I	999	66/222	0	3	0
35. ML-2030	I	999	132/444	0	3	0
35. ML-2030	I	999	132/444	0	3	0
36. ML-2045	I	999	132/444	0	3	0
37. CL-2017	I	999	88/288	0	3	0
38. CL-2030	I	999	88/288	0	3	0
39. CL-2045	I	999	110/360	0	3	0

### Transit Modes

Mode	Description
b	Bus
I	SkyTrain
r	Rail (WCE)
S	SeaBus
g	BRT
f	LRT
h	Gondola

#### Transit Perception Factor<sup>5</sup>

Transit perception is a factor that can reflect the user's feeling about taking transit in each stage. It is used in the mode choice model. The values are cited from the literature with some minor adjustment based on local knowledge.

Note that the boarding perception factor used for transfer boarding only. The model assumed there is no penalty for initial boarding. Current model only account perception impact for work purpose only.

Bus/Rail/WCE	Work	<b>Time Component</b>	Matrix	EMME Name	Value
Bus	Work	In-vehicle	ms300	busIVTprcpWk	1.25
		Wait	ms301	busWAITprcpWk	2.50
		Walk	ms302	busWALKprcpWk	2.00
		Boarding	ms303	busBOARDSprcpWk	10.00
Rail	Work	In-vehicle	ms310	railIVTprcpWk	1.00
		Wait	ms311	railWAITprcpWk	2.50
		Walk	ms312	railWALKprcpWk	2.00
		Boarding	ms313	railBOARDSprcpWk	10.00
WCE	Work	In-vehicle	ms320	wcelVTprcpWk	1.00
		Wait	ms321	wceWAITprcpWk	2.50
		Walk	ms322	wceWALKprcpWk	2.00
		Boarding	ms323	wceBOARDSprcpWk	10.00

#### Truck Equivalent Factor<sup>5</sup>

Light Truck (ms130): 1.5

Heavy Truck (ms131): 2.5

### Vehicle Operating Cost<sup>6</sup>

Auto(ms100): 0.18 \$/km

Light Truck(ms101): 0.24 \$/km

Heavy Truck(ms102): 0.56 \$/km

#### **HOV Occupancy**

Standard HOV Occupancy 2.25 (to calculate general number of people for HOV)

Trip Purpose	Matrix	Value	Occupancy Scale
HB Work	ms110	3.51	0.85
HB University	ms111	2.48	0.75
HB Escorting	ms112	2.60	0.70
HB Pers Bus	ms113	2.31	0.70
HB School	ms114	3.02	0.85
HB Shop	ms115	2.35	0.75
HB Social	ms116	2.61	0.70
NHB Work	ms117	2.31	0.85
NHB Other	ms118	2.58	0.70

<sup>\*</sup> This factor is to calculate the travel cost for each individual passenger in HOV.

<sup>\*</sup> The occupancy scale is to account for an increased willingness to pay for travel time savings when more people are in vehicle.

<sup>&</sup>lt;sup>5</sup> Greater Vancouver Regional Travel Model Development and Validation Report, July 2018, Page 114

<sup>&</sup>lt;sup>6</sup> Greater Vancouver Regional Travel Model Development and Validation Report, July 2018, Page 103

### Volume Delay Function<sup>7</sup>

Link	VDF	Expression
Centroid Connector	1	fd01 = length*60/40
Bowen Island Service	2	fd02 = 40 + ((volau + volad) - 100) *60/(volau + volad)*((volau + volad)>=100)
Merge Lane	3	fd03 = length*60/el1 + 0.85*((volau + volad)/(600*lanes))^5
	4	fd04 = length*60/el1 + 0.85*((volau + volad)/(800*lanes))^5
	5	fd05 = length*60/el1 + 0.85*((volau + volad)/(1000*lanes))^5
	6	fd06 = length*60/el1 + 0.85*((volau + volad)/(1200*lanes))^5
	7	fd07 = length*60/el1 + 0.85*((volau + volad)/(1400*lanes))^5
Controlled Intersection	25	fd25 = 0.25 + length*60/el1 + .85*((volau + volad)/(400*lanes))^4
	35	fd35 = 0.25 + length*60/el1 + .85*((volau + volad)/(600*lanes))^4
	45	fd45 = 0.25 + length*60/el1 + .85*((volau + volad)/(800*lanes))^4
	55	$fd55 = 0.25 + length*60/el1 + .85*((volau + volad)/(1000*lanes))^4$
	65	fd65 = 0.25 + length*60/el1 + .85*((volau + volad)/(1200*lanes))^4
	75	fd75 = 0.25 + length*60/el1 + .85*((volau + volad)/(1400*lanes))^4
Free Flow	85	fd85 = length*60/el1*(1 + .6*.85*((volau + volad)/(1600 _ lanes^1.05))^5)
	88	fd88 = length*60/(el1*1.1) *(1 + .6*.43*((volau + volad) /(1600*lanes^1.05))^5.25)

#### Link Modes

Mode	Description
V	Vehicles (Primary Auto Mode)
С	High Occupancy Vehicles (HOV)
d	Single Occupancy Vehicles (SOV)
x	Light Trucks
t	Heavy Trucks
n	Discourage Heavy Vehicle Traffic
b	Bus
р	Pedestrian
а	Auxillary Transit Access
1	SkyTrain
r	Commuter Rail (West Coast Express)
S	SeaBus
h	Gondola

### Link Type

Description	Туре	Mode Combination
Centroid Connector	1	vcdxta
Pedestrian	2	р
Bowen Island Ferry	3	vcdxtbp
SkyTrain	100	
SeaBus	101	S
WCE	102	r
Gondola	103	h
Bus Only	200	vbp
HOV Lane	201	vcbp
CV Access Only	202	vxtbp
Freeway	300	vcdxtbp
Highway	301	vcdxtbp
Arterial	302	vcdxtbp
Collector	303	vcdxtnbp
Local	304	vcdxtnbp
Ramp	305	vcdxtbp
Hwy Directional Ramp	306	vcdxtbp
Hwy Loop Ramp	307	vcdxtbp
Other	310	vcdxtnbp

 $<sup>^{\</sup>rm 7}$  TransLink Regional Transportation Model Phase 3 User guide, Page 25 el1: Posted Speed

volau + volad: Traffic Volume

### Bridge Crossing Penalties<sup>8</sup>

Ratio Peak:Mid-day Skim	Penalty (Additional distance in km)
<1.25 or if difference in time less than 5 minutes	0
1.25 - 1.5	1
1.5 - 2	2
>2	3

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<sup>&</sup>lt;sup>8</sup> Greater Vancouver Regional Travel Model Development and Validation Report, July 2018, Page 62

### **Matrix Catalog**

Type	Matrix Type	Matrix Series	Description
ms	Scalar	1-99	Model Inputs
ms	Scalar	100-150	HOV Occupancy and Passenger Car Equivalents
ms	Scalar	160	Transit One Zone Fare
ms	Scalar	200-299	Values of Time
ms	Scalar	300-399	Transit Perception Factors
ms	Scalar	400-499	Blended Skims Factors
ms	Scalar	500-599	Transit Fare Blended Skims Factor
ms	Scalar	8000-8099	Truck Model Scalars
mo	Origin	1-99	Model Inputs
mo	Origin	100-199	Geographic and Ensemble Dummies
mo	Origin	200-299	Urban Form Variables such as densities and accessibilities
mo	Origin	2000-2099	Trip Productions
mo	Origin	8000-8099	Truck Model Productions
md	Destination	2000-2099	Trip Attractions
md	Destination	8000-8099	Truck Model Attractions
mf	Full	1-99	Model Inputs
mf	Full	200-299	Person - trips by time of day
mf	Full	300-399	Assigned trips by time of day (auto driver and transit)
mf	Full	3000-3999	Trip Distribution and Mode Choice Daily Trips by Trip Purpose
mf	Full	5000-5099	Auto Assignment Skims by time of day
mf	Full	5100-5299	Auto Assignment Blended Skims by Trip Purpose
mf	Full	5300-5399	Bus Assignment Skims by time of day
mf	Full	5400-5499	Bus Assignment Blended Skims by Trip Purpose
mf	Full	5500-5599	Rail Assignment Skims by time of day
mf	Full	5600-5699	Rail Assignment Blended Skims by Trip Purpose
mf	Full	5700-5799	WCE Assignment Skims by time of day
mf	Full	5800-5899	WCE Assignment Blended Skims by Trip Purpose
mf	Full	6000-6999	Park and Ride Model chosen lot and skims
mf	Full	8000-8099	Truck Model trips by market sector (daily and by time of day)
mf	Full	9000-9099	Mode Choice Logsums by trip purpose
mf	Full	9100-9199	Trip Distribution Friction Factors scratch matrices
mf	Full	9200-9299	Trip Distribution K-Factors
mf	Full	9900-9999	Temporary time of day skims storage

#### Extra Attributes

_		
Type	Name	Description
I node	@farezone	Fare Zones by Node/Stop
I node	@wcestopfare	WCE Boarding Fare by Stop (\$)
I node	@wcexferfare	Xfer WCE Boarding Fare by Stop(\$)
L link	@fareboundary	Fare Zone Boundary for Transit (0,1)
L link	@wcefareboundary	Fare Zone Boundaries for WCE (13,34,45)
L link	@lscid	Screenline Identifier
L link	@lscstn	Screenline Station Identifier
L link	@timeseg	Travel Time Segment Identifier
L link	@posted_speed	Posted Speed Limit
L link	@tolls	Link Toll Value (\$)
L link	@sov1	SOV Volume VOT1
L link	@sov2	SOV Volume VOT2
L link	@sov3	SOV Volume VOT3
L link	@sov4	SOV Volume VOT4
L link	@hov1	HOV Volume VOT1
L link	@hov2	HOV Volume VOT2
L link	@hov3	HOV Volume VOT3
L link	@hov4	HOV Volume VOT4
L link	@wsovl	SOV Link Volume
L link	@whovl	HOV Link Volume
L link	@lgvol	LGV Link Volume
L link	@hgvol	HGV Link Volume
L link	@sovoc	SOV Operating Cost (\$)
L link	@hovoc	HOV Operating Cost (\$)
L link	@lgvoc	LGV Operating Cost (\$)
L link	@hgvoc	HGV Operating Cost (\$)
L link	@tkpen	Truck Penalty
L link	@voltr	Total Transit Volume on Link
L link	@tran_cap	Transit Capacity
T line	@seatcapacity	Seated Line Capacity for time period
T line	@totcapacity	Total Line Capacity for time period
T line	@dwtboard	Dwell Time Boarding Factor
T line	@dwtalight	Dwell Time Alighting Factor
T line	@ridership	Average Line Boardings
T line	@ivtp	In vehicle travel time penalty
T line	@hfrac	Headway Fraction
T line	@linefare	Line Fare (zone1) for bus/skytrain (\$)
T line	@xferlinefare	Transfer Line Fare for bus/skytrain (\$)
		•
S seg'	@hdwyfac	Effective Headway Multiplier
S seg'	@hdwyeff	Effective Headway
~	•	•

S seg' S seg' S seg' S seg' S seg'	<ul><li>@ivttfac</li><li>@pseat</li><li>@pstand</li><li>@boardavg</li><li>@voltravg</li></ul>	IVTT Perception Factor Number of Seated Passengers Number of Standing Passengers Average Boardings Average Transit Segment Volume
S seg'	@alightavg	Average Alightings
S seg'	@fareincrement	Increment Zone Fare (\$)
S seg'	@alight	alightings
P turn	@tsov1	SOV Turn Volume VOT1
P turn	@tsov2	SOV Turn Volume VOT2
P turn	@tsov3	SOV Turn Volume VOT3
P turn	@tsov4	SOV Turn Volume VOT4
P turn	@thov1	HOV Turn Volume VOT1
P turn	@thov2	HOV Turn Volume VOT2
P turn	@thov3	HOV Turn Volume VOT3
P turn	@thov4	HOV Turn Volume VOT4
P turn	@wsovt	SOV Turn Volume
P turn	@whovt	HOV Turn Volume
P turn	@lgvtn	LGV Turn Volume

#### Scalar Matrix

			** *	~
Matrix	Name	Description		Comments
ms01	CycleNum	Current Cycle Number	4.0000	
ms02	AmScen	AMScenario	21000.0000	
ms03	MdScen	MDScenario	22000.0000	
ms04	PmScen Year	PMScenario	23000.0000 2016.0000	
ms10 ms12	Processors	Horizon Year of Run Number of Processors for Computer Running Model	8.0000	
ms20	parkingModel	Run Parking Model	1.0000	
ms21	tollSkim	Run Toll Skim	0.0000	
ms30	IterGlobal	Global Iterations	4.0000	
ms35	IterDist	DistributionIterations	20.0000	
ms36	RelErrDist	Distribution Relative Error	0.0100	
ms40	IterAss	Assignment Iterations	50.0000	
ms41	ConRelGap	ConvergenceRelativeGap	99u9999	992
ms42	ConBestRel	ConvergenceBestRelative	0.0100	
ms43	ConNorm	ConvergenceNormalized	0.0050	
ms44	AutoOcc	Standard HOV Occupancy	2.2500	
ms45	tranCongest	Run Congested Transit Assignment	1.0000	
ms46	tranCapac	Run Capacitated Transit Assignment	1.0000	
ms100	autoOpCost	Auto Operating Cost	0.1800	
ms101	lgvOpCost	Light Truck Operating Cost	0.2400	
ms102	hgvOpCost	Heavy Truck Operating Cost	0.5600	
ms110	HOVOccHbw	HOV Occupancy HB Work	3.5100	
ms111	HOVOccHbu HOVOccHbesc	HOV Occupancy HB University	2.4800 2.6000	
ms112	HOVOccHbesc HOVOccHbpb	HOV Occupancy HB Escorting		
ms113 ms114	HOVOccHBsch	HOV Occupancy HB Pers Bus HOV Occupancy HB School	2.3100 3.0200	
ms115	HOVOccHBshop	HOV Occupancy HB Shop	2.3500	
ms116	HOVOccHBsoc	HOV Occupancy HB Social	2.6100	
ms117	HOVOccNHBw	HOV Occupancy NHB Work	2.3100	
ms118	HOVOccNHBo	HOV Occupancy NHB Other	2.5800	
ms122	AutoOccHbesc	Auto Occupancy HB Escorting	2.1400	
ms128	AutoOccNHBo	Auto Occupancy NHB Other	2.0000	
ms130	lgvPCE	Light Truck Passenger Car Equivalent	1.5000	
ms131	hgvPCE	Heavy Truck Passenger Car Equivalent	2.5000	
ms142	sov_pct_Hbesc	SOV proportion of Auto HB Escorting	0.2880	
ms148	sov_pct_NHBo	SOV proportion of Auto NHB Other	0.3650	
ms150	lgvTollFac	LGV toll factor	2.0000	
ms151	hgvTollFac	HGV toll factor	3.0000	
ms152 ms153	sovTollFac hovTollFac	SOV toll factor HOV toll factor	1.0000	
ms160	oneZoneFare	One Zone Fare - FS-SV	1.0000 2.1000	
ms161	fareIncrement	Fare Increment	1.0500	
ms162	wce_bfare_zone1_1	wce_bfare_zone1_1	0.0000	
ms163	wce_bfare_zone1_2	wce_bfare_zone1_2	0.0000	
ms164	wce_bfare_zone1_3	wce_bfare_zone1_3	5.0300	
ms165	wce_bfare_zone3_1	wce_bfare_zone3_1	2.1200	
ms166	wce_bfare_zone3_2	wce_bfare_zone3_2	0.0000	
ms167	wce_bfare_zone3_3	wce_bfare_zone3_3	2.7200	
ms168	wce_bfare_zone4_1	wce_bfare_zone4_1	2.1000	
ms169	wce_bfare_zone4_2	wce_bfare_zone4_2	0.0000	
ms170 ms171	wce_bfare_zone4_3 wce_bfare_zone5_1	wce_bfare_zone4_3 wce_bfare_zone5_1	2.1000 3.7900	
ms172	wce_bfare_zone5_1 wce_bfare_zone5_2	wce_bfare_zone5_1 wce_bfare_zone5_2	0.0000	
ms173	wce_bfare_zone5_3	wce_bfare_zone5_3	0.0000	
ms174	wce_bfare_zone13_1	wce_bfare_zone13_1	2.9100	
ms175	wce_bfare_zone13_2	wce_bfare_zone13_2	0.0000	
ms176	wce_bfare_zone13_3	wce_bfare_zone13_3	0.0000	
ms177	wce_bfare_zone34_1	wce_bfare_zone34_1	1.6900	
ms178	wce_bfare_zone34_2	wce_bfare_zone34_2	0.0000	
ms179	wce_bfare_zone34_3	wce_bfare_zone34_3	1.0800	
ms180	wce_bfare_zone45_1	wce_bfare_zone34_1	1.6900	
ms181	wce_bfare_zone45_2	wce_bfare_zone34_2	0.0000	
ms182	wce_bfare_zone45_3	wce_bfare_zone34_3	1.0800	
ms190	wce_fare_1z	wce_fare_1z	3.7900	
ms191	wce_fare_2z	wce_fare_2z	3.7900	
ms192	wce_fare_3z	wce_fare_3z	5.0300	
ms193	wce_fare_4z	wce_fare_4z	6.1000	
ms194 ms200	wce_fare_5z AutoVOT1	wce_fare_5z AutoVOT1 (min/dollar)	8.3900 9.5000	
ms201	AutoVOT1 AutoVOT2	AutoVOT1 (min/dollar) AutoVOT2 (min/dollar)	5.8000	
		- , ,	2.3000	

ms202	AutoVOT3	AutoVOT3 (min/dollar)	3.9000
ms203	AutoVOT4	AutoVOT4 (min/dollar)	3.3000
ms204	AutoVOT5	AutoVOT5 (min/dollar)	3.6000
ms212	VotBus	VOT Work (min/dollar)	4.9000
ms213	VotRail	VOT Work (min/dollar)	4.9000
ms214 ms218	VotWce VotLgv	VOT Work (min/dollar)	4.9000 2.0300
ms219	VotHgv	VOT lgv (min/dollar) VOT hgv (min/dollar)	1.4300
ms300	busIVTprcpWk	bus in-vehicle time perception work	1.2500
ms301	busWAITprcpWk	bus wait time perception work	2.5000
ms302	busWALKprcpWk	bus walk time perception work	2.0000
ms303	busBOARDSprcpWk	bus boarding perception work	10.0000
ms310	railIVTprcpWk	rail in-vehicle time perception work	1.0000
ms311	railWAITprcpWk	rail wait time perception work	2.5000
ms312	railWALKprcpWk	rail walk time perception work	2.0000
ms313	railBOARDSprcpWk	rail boarding perception work	10.0000
ms320 ms321	wceIVTprcpWk wceWAITprcpWk	wce in-vehicle time perception work wce wait time perception work	1.0000 2.5000
ms322	wceWALKprcpWk	wee walk time perception work	2.0000
ms323	wceBOARDSprcpWk	wee wank time perception work wee boarding perception work	10.0000
ms330	busIVTprcpNwk	bus in-vehicle time perception nonwork	0.0000 not in use
ms331	busWAITprcpNwk	bus wait time perception nonwork	0.0000 not in use
ms332	busWALKprcpNwk	bus walk time perception nonwork	0.0000 not in use
ms333	busTRANSprcpNwk	bus transfer perception nonwork	0.0000 not in use
ms334	busBOARDSprcpNwk	bus boarding perception nonwork	0.0000 not in use
ms340	railIVTprcpNwk	rail in-vehicle time perception nonwork	0.0000 not in use
ms341	railWAITprcpNwk	rail wait time perception nonwork	0.0000 not in use
ms342 ms343	railWALKprcpNwk railTRANSprcpNwk	rail walk time perception nonwork rail transfer perception nonwork	0.0000 not in use 0.0000 not in use
ms344	railBOARDSprcpNwk	rail boarding perception nonwork	0.0000 not in use
ms350	wceIVTprcpNwk	wce in-vehicle time perception nonwork	0.0000 not in use
ms351	wceWAITprcpNwk	wee wait time perception nonwork	0.0000 not in use
ms352	wceWALKprcpNwk	wce walk time perception nonwork	0.0000 not in use
ms353	wceTRANSprcpNwk	wce transfer perception nonwork	0.0000 not in use
ms354	wceBOARDSprcpNwk	wce boarding perception nonwork	0.0000 not in use
ms360	pr_auto_time_prcp	Park and Ride Drive time perception factor	1.2000
ms365 ms366	busIVTpr_cal_railGT transfer_cal_railGT	BusIVT percep RailGT Cal transfer percep RailGT Cal	1.0000 1.0000
ms400	HbWBl_AM_P-A	HbW Blend AM P-A Factor	0.3918
ms401	HbWBl_MD_P-A	HbW Blend MD P-A Factor	0.1163
ms402	HbWBl_PM_P-A	HbW Blend PM P-A Factor	0.0264
ms403	HbWBl_AM_A-P	HbW Blend AM A-P Factor	0.0070
ms404	HbWBl_MD_A-P	HbW Blend MD A-P Factor	0.1398
ms405	HbWBl_PM_A-P	HbW Blend PM A-P Factor	0.3188
ms406 ms407	HbWBl_AM_WCE_P-A	HbW Blend AM WCE P-A Factor HbW Blend PM WCE P-A Factor	0.5249 0.0023
ms408	HbWBI_PM_WCE_P-A HbWBI_PM_WCE_A-P	HbW Blend PM WCE A-P Factor	0.4728
ms410	HbUBl_AM_P-A	HbU Blend AM P-A Factor	0.3442
ms411	HbUB1_MD_P-A	HbU Blend MD P-A Factor	0.1565
ms412	HbUB1_PM_P-A	HbU Blend PM P-A Factor	0.0401
ms413	HbUBl_AM_A-P	HbU Blend AM A-P Factor	0.0388
ms414	HbUB1_MD_A-P	HbU Blend MD A-P Factor	0.1972
ms415	HbUB1_PM_A-P	HbU Blend PM A-P Factor	0.2233
ms420	HbScBl_AM_P-A	HbSc Blend AM P-A Factor	0.5422
ms421	HbScBl_MD_P-A	HbSc Bland DM P. A Footon	0.0213
ms422 ms423	HbScBl_PM_P-A HbScBl_AM_A-P	HbSc Blend PM P-A Factor HbSc Blend AM A-P Factor	0.0086 0.0009
ms424	HbScBl_MD_A-P	HbSc Blend MD A-P Factor	0.1210
ms425	HbScBl_PM_A-P	HbSc Blend PM A-P Factor	0.3061
ms430	HbShBl_AM_P-A	HbSh Blend AM P-A Factor	0.0497
ms431	HbShBl_MD_P-A	HbSh Blend MD P-A Factor	0.2501
ms432	HbShBl_PM_P-A	HbSh Blend PM P-A Factor	0.0994
ms433	HbShBl_AM_A-P	HbSh Blend AM A-P Factor	0.0140
ms434	HbShBl_MD_A-P	HbSh Blend MD A-P Factor	0.3304
ms435	HbShBl_PM_A-P	HbSh Blend PM A-P Factor HbDb Blend AM P A Factor	0.2565
ms440 ms441	HbPbBl_AM_P-A HbPbBl_MD_P-A	HbPb Blend AM P-A Factor HbPb Blend MD P-A Factor	0.1377 0.2593
ms442	HbPbBl_PM_P-A	HbPb Blend PM P-A Factor	0.1030
ms443	HbPbBl_AM_A-P	HbPb Blend AM A-P Factor	0.0283
ms444	HbPbBl_MD_A-P	HbPb Blend MD A-P Factor	0.2767
ms445	HbPbBl_PM_A-P	HbPb Blend PM A-P Factor	0.1951
ms450	HbSoBl_AM_P-A	HbSo Blend AM P-A Factor	0.0847
ms451	HbSoBl_MD_P-A	HbSo Blend MD P-A Factor	0.2008
ms452	HbSoB1_PM_P-A	HbSo Blend PM P-A Factor	0.1935

450	HIC DI AM A D	HIC DI LAMA DE A	0.0175
ms453	HbSoBl_AM_A-P	HbSo Blend AM A-P Factor	0.0175
ms454	HbSoBl_MD_A-P	HbSo Blend MD A-P Factor	0.3579
ms455	HbSoBl_PM_A-P	HbSo Blend PM A-P Factor	0.1457
ms460	HbEsBl_AM_P-A	HbEs Blend AM P-A Factor	0.2349
ms461	HbEsBl_MD_P-A	HbEs Blend MD P-A Factor	0.1695
ms462	HbEsBl_PM_P-A	HbEs Blend PM P-A Factor	0.1215
ms463	HbEsBl_AM_A-P	HbEs Blend AM A-P Factor	0.0915
ms464	HbEsBl_MD_A-P	HbEs Blend MD A-P Factor	0.1687
ms465	HbEsBl_PM_A-P	HbEs Blend PM A-P Factor	0.2139
ms470	NHbWBl_AM_P-A	NHbW Blend AM P-A Factor	0.2036
ms471	NHbWBl_MD_P-A	NHbW Blend MD P-A Factor	0.4482
ms472	NHbWBl_PM_P-A	NHbW Blend PM P-A Factor	0.3482
ms480	NHbOBI_AM_P-A	NHbO Blend AM P-A Factor	0.1202
ms481	NHbOBI_MD_P-A	NHbO Blend MD P-A Factor	0.5406
ms482	NHbOBl_PM_P-A	NHbO Blend PM P-A Factor	0.3392
ms490	Zero	Zero	0.0000
ms500	TrFr_HbWBl_AM_P-A	TrFr HbW Blend AM P-A Factor	0.4195
ms501	TrFr_HbWBl_MD_P-A	TrFr HbW Blend MD P-A Factor	0.0798
ms502	TrFr_HbWBl_PM_P-A	TrFr HbW Blend PM P-A Factor	0.0215
ms503	TrFr_HbWBl_OP_P-A	TrFr HbW Blend OP P-A Factor	0.0145
ms504	TrFr_HbWBl_AM_A-P	TrFr HbW Blend AM A-P Factor	0.0056
ms505	TrFr_HbWBl_MD_A-P	TrFr HbW Blend MD A-P Factor	0.0309
ms506	TrFr_HbWBl_PM_A-P	TrFr HbW Blend PM A-P Factor	0.3106
ms507	TrFr_HbWBl_OP_A-P	TrFr HbW Blend OP A-P Factor	0.1176
ms510	TrFr_HbUBI_AM_P-A	TrFr HbU Blend AM P-A Factor	0.3247
ms511	TrFr_HbUBI_MD_P-A	TrFr HbU Blend MD P-A Factor	0.1513
ms512	TrFr_HbUBl_PM_P-A	TrFr HbU Blend PM P-A Factor	0.0281
ms513	TrFr_HbUBI_OP_P-A	TrFr HbU Blend OP P-A Factor	0.0124
ms514	TrFr_HbUBl_AM_A-P	TrFr HbU Blend AM A-P Factor	0.0042
ms515	TrFr_HbUBl_MD_A-P	TrFr HbU Blend MD A-P Factor	0.0999
ms516	TrFr_HbUBl_PM_A-P	TrFr HbU Blend PM A-P Factor	0.2636
ms517	TrFr_HbUBl_OP_A-P	TrFr HbU Blend OP A-P Factor	0.1158
ms520	TrFr_HbScBl_AM_P-A	TrFr HbSc Blend AM P-A Factor	0.4247
ms521	TrFr_HbScBl_MD_P-A	TrFr HbSc Blend MD P-A Factor	0.0187
ms522	TrFr_HbScBl_PM_P-A	TrFr HbSc Blend PM P-A Factor	0.0030
ms523	TrFr_HbScBl_OP_P-A	TrFr HbSc Blend OP P-A Factor	0.0242
ms524	TrFr_HbScBl_AM_A-P	TrFr HbSc Blend AM A-P Factor	0.0005
ms525	TrFr_HbScBl_MD_A-P	TrFr HbSc Blend MD A-P Factor	0.0402
ms526	TrFr_HbScBl_PM_A-P	TrFr HbSc Blend PM A-P Factor	0.4739
ms527	TrFr_HbScBl_OP_A-P	TrFr HbSc Blend OP A-P Factor	0.0147
ms530	TrFr_HbShBl_AM_P-A	TrFr HbSh Blend AM P-A Factor	0.0688
ms531	TrFr_HbShBl_MD_P-A	TrFr HbSh Blend MD P-A Factor	0.2806
ms532	TrFr_HbShBl_PM_P-A	TrFr HbSh Blend PM P-A Factor	0.0671
ms533	TrFr_HbShBl_OP_P-A	TrFr HbSh Blend OP P-A Factor	0.0239
ms534	TrFr_HbShBl_AM_A-P	TrFr HbSh Blend AM A-P Factor	0.0104
ms535	TrFr_HbShBl_MD_A-P	TrFr HbSh Blend MD A-P Factor	0.1999
ms536	TrFr_HbShBl_PM_A-P	TrFr HbSh Blend PM A-P Factor	0.2343
ms537 ms540	TrFr_HbShBl_OP_A-P	TrFr HbSh Blend OP A-P Factor	0.1150
	TrFr_HbPbBl_AM_P-A	TrFr HbPb Blend AM P-A Factor	0.1510
ms541	TrFr_HbPbBl_MD_P-A	TrFr HbPb Blend MD P-A Factor	0.2854
ms542	TrFr_HbPbBl_PM_P-A	TrFr HbPb Blend PM P-A Factor	0.0505
ms543	TrFr_HbPbBl_OP_P-A	TrFr HbPb Blend OP P-A Factor	0.0320
ms544 ms545	TrFr_HbPbBl_AM_A-P TrFr_HbPbBl_MD_A-P	TrFr HbPb Blend AM A-P Factor TrFr HbPb Blend MD A-P Factor	0.0165 0.2016
ms546	TrFr_HbPbBl_PM_A-P	TrFr HbPb Blend MD A-P Factor TrFr HbPb Blend PM A-P Factor	0.2016
		TrFr HbPb Blend OP A-P Factor	
ms547 ms550	TrFr_HbPbBl_OP_A-P TrFr_HbSoBl_AM_P-A	TrFr HbSo Blend AM P-A Factor	0.0812 0.1111
ms551	TrFr_HbSoBl_MD_P-A	TrFr HbSo Blend MD P-A Factor	0.1688
ms552	TrFr_HbSoBl_PM_P-A	TrFr HbSo Blend PM P-A Factor	0.1339
ms553	TrFr_HbSoBl_OP_P-A	TrFr HbSo Blend OP P-A Factor	0.1339
ms554 ms555	TrFr_HbSoBl_AM_A-P TrFr_HbSoBl_MD_A-P	TrFr HbSo Blend AM A-P Factor TrFr HbSo Blend MD A-P Factor	0.0092 0.0957
ms556	TrFr_HbSoBl_PM_A-P	TrFr HbSo Blend PM A-P Factor	0.0937
ms557	TrFr_HbSoBl_OP_A-P	TrFr HbSo Blend OP A-P Factor	0.1407
ms560	TrFr_HbEsBl_AM_P-A	TrFr HbEs Blend AM P-A Factor	0.2394
ms561	TrFr_HbEsBl_MD_P-A	TrFr HbEs Blend MD P-A Factor	0.2394
ms562	TrFr_HbEsBl_PM_P-A	TrFr HbEs Blend PM P-A Factor	0.1039
ms563	TrFr_HbEsBl_OP_P-A	TrFr HbEs Blend OP P-A Factor	0.0500
ms564	TrFr_HbEsBl_AM_A-P	TrFr HbEs Blend AM A-P Factor	0.0360
ms565	TrFr_HbEsBl_MD_A-P	TrFr HbEs Blend MD A-P Factor	0.0230
ms566	TrFr_HbEsBl_PM_A-P	TrFr HbEs Blend PM A-P Factor	0.2282
ms567	TrFr_HbEsBl_OP_A-P	TrFr HbEs Blend OP A-P Factor	0.1317
ms570	TrFr_NHbWBl_AM_P-A	TrFr NHbW Blend AM P-A Factor	0.1436
ms571	TrFr_NHbWBl_MD_P-A	TrFr NHbW Blend MD P-A Factor	0.2934
			-

ms572	TrFr_NHbWBl_PM_P-A	TrFr NHbW Blend PM P-A Factor	0.4743
ms573	TrFr_NHbWBl_OP_P-A	TrFr NHbW Blend OP P-A Factor	0.0887
ms580	TrFr_NHbOBl_AM_P-A	TrFr NHbO Blend AM P-A Factor	0.0735
ms581	TrFr_NHbOBl_MD_P-A	TrFr NHbO Blend MD P-A Factor	0.4560
ms582	TrFr_NHbOBl_PM_P-A	TrFr NHbO Blend PM P-A Factor	0.3639
ms583	TrFr_NHbOBl_OP_P-A	TrFr NHbO Blend OP P-A Factor	0.1066
ms8030	gg27nonret	non-retail employment in gg27	1005147.7500
ms8050	RGphAM	Rg Truck Peak Hour Factor AM	0.2600
ms8051	RGphMD	Rg Truck Peak Hour Factor MD	0.2410
ms8052	RGphPM	Rg Truck Peak Hour Factor PM	0.2410

## Origin Matrix

Matrix	Name	Description	
mo10	TotPop	POP_Total	
mo11	Pop0t4	POP_0to4	
mo12	Pop5t12	POP_5to12	
mo13	Pop13t17	POP_13to17	
mo14	Pop18t24	POP_18to24	
mo15	Pop25t34	POP_25to34	
mo16	Pop35t54	POP_35to54	
mo17	Pop55t64	POP_55to64	
mo18	Pop65Up	POP_65plus	
mo20	TotEmp	EMP_Total	
mo21	EmpConMfg	Construct_Mfg	
mo22	EmpFire	FIRE	
mo23	EmpTcuWh	TCU_Wholesale	
mo24	EmpRet	Retail	
mo25	EmpBoS	Business_OtherServices	
mo26	EmpAcFoInCu	AccomFood_InfoCult	
mo27	EmpHeEdPuAd	Health_Educat_PubAdmin	
mo30	EnrolElem	Elementary_Enrolment	
mo31	EnrolSec	Secondary_Enrolment	
mo32	EnrolPsFte	PostSecFTE	
mo40	TotHh	HHOLDS_Total	
mo41	Hh1p	HHOLDS_1Person	
mo42	Hh2p	HHOLDS_2Person	
mo43	Hh3p	HHOLDS_3Person	
mo44	Hh4pUp	HHOLDS_4plusPerson	
mo50	areahc	taz_a_area_hec	
mo51	zoneindex	Zone numbers	
mo60	prk2hr	parkingcost2hr	
mo61	prk8hr	parkingcost8hr	
mo69	railStn	railstationinzone	
mo70	cs250	car_share_250m	
mo71	cs500	car_share_500m	
mo80	bikesc	bikescore	
mo90	prcost	pnr_lot_cost	
mo91	prcap	pnr_lot_capacity	
mo92	prtrmt	pnr_terminal_time	
mo100	d_cbd	cbd dummy	
mo101	d_tc	towncentre dummy	
mo102	d_uni	university dummy	
mo103	d_ubc	ubc dummy	
mo104	d_sfu	sfu dummy	
mo105	d_air	airport dummy	
mo106	d_yvr	yvr dummy	

mo107	d no	northshora dummy
mo108	d_ns d_dtes	northshore dummy downtowneastidedummy
mo109	<del>-</del>	ferrydummy
mo110	d_fry d_hosp	hospitaldummy
mo120		•
mo120	ga_ensem	ga Ensemble Groups
mo121	gb_ensem	gb Ensemble Groups
mo123	gc_ensem	gc Ensemble Groups
mo124	gd_ensem	gd Ensemble Groups
mo124	ge_ensem	ge Ensemble Groups gf Ensemble Groups
mo126	gf_ensem	
mo120	gg_ensem	gg Ensemble Groups
mo128	gh_ensem	gh Ensemble Groups
mo128	gi_ensem	gi Ensemble Groups
mo130	gj_ensem	gj Ensemble Groups gk Ensemble Groups
mo131	gk_ensem	
	gl_ensem	gl Ensemble Groups
mo132 mo133	gm_ensem	gm Ensemble Groups
mo134	gn_ensem	gn Ensemble Groups
mo135	go_ensem	go Ensemble Groups
mo136	gp_ensem	gp Ensemble Groups
	gq_ensem	gq Ensemble Groups
mo137 mo138	gr_ensem	gr Ensemble Groups
mo139	gs_ensem	gs Ensemble Groups
mo140	gt_ensem	gt Ensemble Groups
	gu_ensem	gu Ensemble Groups
mo141 mo142	gv_ensem	gv Ensemble Groups
mo143	gw_ensem	gw Ensemble Groups
mo144	gx_ensem	gx Ensemble Groups
mo144	gy_ensem	gy Ensemble Groups
	gz_ensem	gz Ensemble Groups Population density (per/hec)
mo200	popdens	
mo201 mo202	empdens combinedens	Employment density (job/hec)
mo205		Pop + Emp density (per hec)
	popdensln	Log Population density (per/hec)
mo206	empdensln	Log Employment density (job/hec)
mo207	combinedensln	Log Pop + Emp density (per hec)
mo210	autoAcc	Auto Accessibility
mo211	transitAcc	Transit Accessibility
mo212	distCbd	Distance to CBD
mo213	distTc	Distance to Town Centre
mo214	uniAcc	University Accessibility
mo215	socAcc	Social Recreational Accessibility
mo220	autoAccLn	Log Auto Accessibility
mo221	transitAccLn	Log Transit Accessibility
mo222	distCbdLn	Log Distance to CBD
mo223	distTcLn	Log Distance to Town Centre
mo224	uniAccLn	Log University Accessibility

mo225	socAccLn	Log Social Pograptional Aggassibility
mo2000	hbwInc1Au0prd	Log Social Recreational Accessibility hbwInc1Au0 Productions
mo2001	hbwInc2Au0prd	hbwInc2Au0 Productions
mo2001	hbwInc3Au0prd	hbwInc3Au0 Productions
mo2003	hbwInc1Au1prd	hbwInc1Au1 Productions
mo2004	•	hbwInc2Au1 Productions
mo2005	hbwInc2Au1prd hbwInc3Au1prd	hbwInc3Au1 Productions
mo2006	hbwInc1Au2prd	hbwInc1Au2 Productions
mo2007	•	hbwInc2Au2 Productions
	hbwInc2Au2prd	hbwInc3Au2 Productions
mo2008 mo2010	hbwInc3Au2prd	hbescInc1Au0 Productions
mo2010	hbescInc1Au0prd hbescInc2Au0prd	hbescInc2Au0 Productions
mo2011	hbescInc3Au0prd	hbescInc3Au0 Productions
mo2012	hbescInc1Au1prd	hbescInc1Au1 Productions
mo2014	hbescInc2Au1prd	hbescInc2Au1 Productions
mo2014	hbescInc3Au1prd	hbescInc3Au1 Productions
mo2016	hbescInc1Au2prd	hbescInc1Au2 Productions
mo2017	hbescInc2Au2prd	hbescInc2Au2 Productions
mo2017	hbescInc3Au2prd	hbescInc3Au2 Productions
mo2020	hbpbInc1Au0prd	hbpbInc1Au0 Productions
mo2020	hbpbInc2Au0prd	hbpbInc2Au0 Productions
mo2021	hbpbInc3Au0prd	hbpbInc3Au0 Productions
mo2023	hbpbInc1Au1prd	hbpbInc1Au1 Productions
mo2024	hbpbInc2Au1prd	hbpbInc2Au1 Productions
mo2025	hbpbInc3Au1prd	hbpbInc3Au1 Productions
mo2026	hbpbInc1Au2prd	hbpbInc1Au2 Productions
mo2027	hbpbInc2Au2prd	hbpbInc2Au2 Productions
mo2028	hbpbInc3Au2prd	hbpbInc3Au2 Productions
mo2030	hbschInc1Au0prd	hbschInc1Au0 Productions
mo2031	hbschInc2Au0prd	hbschInc2Au0 Productions
mo2032	hbschInc3Au0prd	hbschInc3Au0 Productions
mo2033	hbschInc1Au1prd	hbschInc1Au1 Productions
mo2034	hbschInc2Au1prd	hbschInc2Au1 Productions
mo2035	hbschInc3Au1prd	hbschInc3Au1 Productions
mo2036	hbschInc1Au2prd	hbschInc1Au2 Productions
mo2037	hbschInc2Au2prd	hbschInc2Au2 Productions
mo2038	hbschInc3Au2prd	hbschInc3Au2 Productions
mo2040	hbshopInc1Au0prd	hbshopInc1Au0 Productions
mo2041	hbshopInc2Au0prd	hbshopInc2Au0 Productions
mo2042	hbshopInc3Au0prd	hbshopInc3Au0 Productions
mo2043	hbshopInc1Au1prd	hbshopInc1Au1 Productions
mo2044	hbshopInc2Au1prd	hbshopInc2Au1 Productions
mo2045	hbshopInc3Au1prd	hbshopInc3Au1 Productions
mo2046	hbshopInc1Au2prd	hbshopInc1Au2 Productions
mo2047	hbshopInc2Au2prd	hbshopInc2Au2 Productions
mo2048	hbshopInc3Au2prd	hbshopInc3Au2 Productions
mo2050	hbsocInc1Au0prd	hbsocInc1Au0 Productions
	*	

mo2051	hbsocInc2Au0prd	hbsocInc2Au0 Productions
mo2052	hbsocInc3Au0prd	hbsocInc3Au0 Productions
mo2053	hbsocInc1Au1prd	hbsocInc1Au1 Productions
mo2054	hbsocInc2Au1prd	hbsocInc2Au1 Productions
mo2055	hbsocInc3Au1prd	hbsocInc3Au1 Productions
mo2056	hbsocInc1Au2prd	hbsocInc1Au2 Productions
mo2057	hbsocInc2Au2prd	hbsocInc2Au2 Productions
mo2058	hbsocInc3Au2prd	hbsocInc3Au2 Productions
mo2060	hbuprd	hbu productions
mo2070	nhbwprd	nhbw productions
mo2080	nhboprd	nhbo productions
mo8020	IRLgPr	IR LgTruck Productions
mo8021	IRHvPr	IR HvTruck Productions
mo8022	IRLgAdj	IR Lg Adjustment Calc
mo8023	IRHvAdj	IR Hv Adjustment Calc
mo8030	PMVrat	PMV activity ratio
mo8050	RGLgPr	Rg Daily LgTruck Trip Prod
mo8051	RGHvPr	Rg Daily HvTruck Trip Prod

#### **Destination Matrix**

Matrix	Name	Description
md2000	hbwatr	hbw Attractions
md2010	hbescatr	hbesc Attractions
md2020	hbpbatr	hbpb Attractions
md2030	hbschatr	hbsch Attractions
md2031	hbschprgx	hbsch Production Sum by GX
md2032	hbschsc	hbsch Attraction by GX
md2040	hbshopatr	hbshop Attractions
md2050	hbsocatr	hbsoc Attractions
md2060	hbuatr	hbu Attractions
md2070	nhbwatr	nhbw Attractions
md2080	nhboatr	nhbo Attractions
md8020	IRLgAt	IR LgTruck Attractions
md8021	IRHvAt	IR HvTruck Attractions
md8022	IRLgAdj	IR Lg Adjustment Calc
md8023	IRHvAdj	IR Hv Adjustment Calc
md8050	RGLgAt	Rg Daily LgTruck Trip Att
md8051	RGHvAt	Rg Daily HvTruck Trip Att

Matrix Directory Full Matrix

34	N	D 1.4
Matrix mf70	Name extSovAm	Description External Demand SOV AM
mf71	extSovAm extHovAm	External Demand SOV AM  External Demand HOV AM
mf75	extSovMd	External Demand SOV MD
mf76	extHovMd	External Demand HOV MD
mf80	extSovPm	External Demand SOV PM
mf81	extHovPm	External Demand HOV PM
mf85	MD_Demadj	MD Incr Calibration Matrix
mf90	bikeskim	Weighted Average IJ bike score
mf91	distAON	All or nothing initial distance skim
mf92	Bridge_pen_AM	Bridge_pen_AM
mf93	Bridge_pen_PM	Bridge_pen_PM
mf95	fare_zones	Fare Zones Travelled
mf200	SOV_pertrp_VOT_1_Am	SOV per-trips VOT 1 AM
mf201	SOV_pertrp_VOT_2_Am	SOV per-trips VOT 2 AM
mf202 mf203	SOV_pertrp_VOT_3_Am	SOV per-trips VOT 3 AM
mf206	SOV_pertrp_VOT_4_Am HOV_pertrp_VOT_1_Am	SOV per-trips VOT 4 AM HOV per-trips VOT 1 AM
mf207	HOV_pertrp_VOT_2_Am	HOV per-trips VOT 2 AM
mf208	HOV_pertrp_VOT_3_Am	HOV per-trips VOT 3 AM
mf209	HOV_pertrp_VOT_4_Am	HOV per-trips VOT 4 AM
mf215	Wk_pertrp_Am	Walk per-trips AM
mf216	Bk_pertrp_Am	Bike per-trips AM
mf230	SOV_pertrp_VOT_1_Md	SOV per-trips VOT 1 MD
mf231	SOV_pertrp_VOT_2_Md	SOV per-trips VOT 2 MD
mf232	SOV_pertrp_VOT_3_Md	SOV per-trips VOT 3 MD
mf233	SOV_pertrp_VOT_4_Md	SOV per-trips VOT 4 MD
mf236	HOV_pertrp_VOT_1_Md	HOV per-trips VOT 1 MD
mf237	HOV_pertrp_VOT_2_Md	HOV per-trips VOT 2 MD
mf238	HOV_pertrp_VOT_3_Md	HOV per-trips VOT 3 MD
mf239 mf245	HOV_pertrp_VOT_4_Md Wk_pertrp_Md	HOV per-trips VOT 4 MD Walk per-trips MD
mf246	Bk_pertrp_Md	Bike per-trips MD
mf260	SOV_pertrp_VOT_1_Pm	SOV per-trips VOT 1 PM
mf261	SOV_pertrp_VOT_2_Pm	SOV per-trips VOT 2 PM
mf262	SOV_pertrp_VOT_3_Pm	SOV per-trips VOT 3 PM
mf263	SOV_pertrp_VOT_4_Pm	SOV per-trips VOT 4 PM
mf266	HOV_pertrp_VOT_1_Pm	HOV per-trips VOT 1 PM
mf267	HOV_pertrp_VOT_2_Pm	HOV per-trips VOT 2 PM
mf268	HOV_pertrp_VOT_3_Pm	HOV per-trips VOT 3 PM
mf269	HOV_pertrp_VOT_4_Pm	HOV per-trips VOT 4 PM
mf275	Wk_pertrp_Pm	Walk per-trips PM
mf276 mf300	Bk_pertrp_Pm SOV_drvtrp_VOT_1_Am	Bike per-trips PM SOV drv-trips VOT 1 AM
mf301	SOV_drvtrp_VOT_2_Am	SOV dry-trips VOT 2 AM
mf302	SOV_drvtrp_VOT_3_Am	SOV drv-trips VOT 3 AM
mf303	SOV_drvtrp_VOT_4_Am	SOV dry-trips VOT 4 AM
mf306	HOV_drvtrp_VOT_1_Am	HOV dry-trips VOT 1 AM
mf307	HOV_drvtrp_VOT_2_Am	HOV dry-trips VOT 2 AM
mf308	HOV_drvtrp_VOT_3_Am	HOV drv-trips VOT 3 AM
mf309	HOV_drvtrp_VOT_4_Am	HOV drv-trips VOT 4 AM
mf312	lgvPceAm	light trucks PCE AM
mf313	hgvPceAm	heavy trucks PCE AM
mf314	busAm	Bus Person Trips AM
mf315	railAm	Rail Person Trips AM
mf316	WCEAm	WCE Person Trips AM SOV dry trips VOT 1 MD
mf320 mf321	SOV_drvtrp_VOT_1_Md SOV_drvtrp_VOT_2_Md	SOV drv-trips VOT 1 MD SOV drv-trips VOT 2 MD
mf322	SOV_drvtrp_VOT_2_Md SOV_drvtrp_VOT_3_Md	SOV drv-trips VOT 3 MD
mf323	SOV_drvtrp_VOT_4_Md	SOV dry-trips VOT 4 MD
mf326	HOV_drvtrp_VOT_1_Md	HOV dry-trips VOT 1 MD
mf327	HOV_drvtrp_VOT_2_Md	HOV dry-trips VOT 2 MD
mf328	HOV_drvtrp_VOT_3_Md	HOV dry-trips VOT 3 MD
mf329	HOV_drvtrp_VOT_4_Md	HOV drv-trips VOT 4 MD
mf332	lgvPceMd	light trucks PCE MD
mf333	hgvPceMd	heavy trucks PCE MD
mf334	busMd	Bus Person Trips MD
mf335	railMd	Rail Person Trips MD
mf336	WCEMd	WCE Person Trips MD
mf340	SOV_drvtrp_VOT_1_Pm	SOV dry-trips VOT 1 PM
mf341	SOV_drvtrp_VOT_2_Pm	SOV drv-trips VOT 2 PM

mf342	SOV_drvtrp_VOT_3_Pm	SOV drv-trips VOT 3 PM
mf343	SOV_drvtrp_VOT_4_Pm	SOV drv-trips VOT 4 PM
mf346	HOV_drvtrp_VOT_1_Pm	HOV drv-trips VOT 1 PM
mf347	HOV_drvtrp_VOT_2_Pm	HOV drv-trips VOT 2 PM
mf348	HOV_drvtrp_VOT_3_Pm	HOV drv-trips VOT 3 PM
mf349	HOV_drvtrp_VOT_4_Pm	HOV drv-trips VOT 4 PM
mf352	lgvPcePm	light trucks PCE PM
mf353	hgvPcePm	heavy trucks PCE PM
mf354	busPm	Bus Person Trips PM
mf355	railPm	Rail Person Trips PM
mf356	WCEPm	WCE Person Trips PM
mf3000	HbWSOVI1PerTrips	HbW SOV Low Income Per
mf3001	HbWSOVI2PerTrips	HbW SOV Med Income Per
mf3002	HhWSOVI3PerTrips	HhW SOV High Income Per

r-Trips r-Trips HbW SOV High Income Per-Trips HbWSOVI3PerTrips mf3002 mf3005 HbWHV2I1PerTrips HbW HV2 Low Income Per-Trips HbWHV2I2PerTrips HbW HV2 Med Income Per-Trips mf3006 HbW HV2 High Income Per-Trips mf3007 HbWHV2I3PerTrips mf3010 HbWHV3+I1PerTrips HbW HV3+ Low Income Per-Trips HbW HV3+ Med Income Per-Trips mf3011 HbWHV3+I2PerTrips mf3012 HbWHV3+I3PerTrips HbW HV3+ High Income Per-Trips mf3015 HbW Bus Per-Trips **HbWBusPerTrips** 

mf3020 HbWRailPerTrips HbW Rail Per-Trips mf3025 HbWWCEPerTrips HbW WCE Per-Trips mf3030 HbWWalkPerTrips HbW Walk Per-Trips mf3035 HbWBikePerTrips HbW Bike Per-Trips mf3050 HbWP-AI1A0 HbW P-A Trips I1 A0 mf3051 HbWP-AI1A1 HbW P-A Trips I1 A1 HbWP-AI1A2 mf3052 HbW P-A Trips I1 A2 mf3053 HbWP-AI2A0 HbW P-A Trips I1 A0 mf3054 HbWP-AI2A1 HbW P-A Trips I1 A1 mf3055 HbWP-AI2A2 HbW P-A Trips I1 A2 HbW P-A Trips I1 A0 mf3056 HbWP-AI3A0 mf3057 HbWP-AI3A1 HbW P-A Trips I1 A1 mf3058 HbWP-AI3A2 HbW P-A Trips I1 A2 mf3100 HbUSOVPerTrips HbU SOV Per-Trips mf3105 HbUHOVPerTrips HbU HOV Per-Trips mf3115 HbUBusPerTrips HbU Bus Per-Trips mf3120 HbURailPerTrips HbU Rail Per-Trips HbU Walk Per-Trips HbUWalkPerTrips mf3130 HbUBikePerTrips mf3135 HbU Bike Per-Trips HbU P-A Trips mf3150 HbUP-A

mf3205 HbScHOV11PerTrips HbSc HV2+ Low Income Per-Trips mf3206 HbScHOV12PerTrips HbSc HV2+ Med Income Per-Trips mf3207 HbScHOV13PerTrips HbSc HV2+ High Income Per-Trips

mf3215 **HbScBusPerTrips** HbSc Bus Per-Trips mf3220 HbScRailPerTrips HbSc Rail Per-Trips mf3230 HbScWalkPerTrips HbSc Walk Per-Trips HbSc Bike Per-Trips mf3235 HbScBikePerTrips HbScP-AI1A0 HbSc P-A Trips I1 A0 mf3250 HbScP-AI1A1 HbSc P-A Trips I1 A1 mf3251 mf3252 HbScP-AI1A2 HbSc P-A Trips I1 A2 mf3253 HbScP-AI2A0 HbSc P-A Trips I1 A0 mf3254 HbScP-AI2A1 HbSc P-A Trips I1 A1 HbSc P-A Trips I1 A2 HbScP-AI2A2 mf3255 mf3256 HbScP-AI3A0 HbSc P-A Trips I1 A0 HbScP-AI3A1 HbSc P-A Trips I1 A1 mf3257 mf3258 HbScP-AI3A2 HbSc P-A Trips I1 A2

mf3300 HbShSOVI1PerTrips HbSh SOV Low Income Per-Trips mf3301 HbShSOVI2PerTrips HbSh SOV Med Income Per-Trips mf3302 HbShSOVI3PerTrips HbSh SOV High Income Per-Trips HbSh HOV Low Income Per-Trips mf3305 HbShHOVI1PerTrips HbSh HOV Med Income Per-Trips mf3306 HbShHOVI2PerTrips mf3307 HbShHOVI3PerTrips HbSh HOV High Income Per-Trips

mf3315 HbShBusPerTrips HbSh Bus Per-Trips HbShRailPerTrips HbSh Rail Per-Trips mf3320 mf3330 HbShWalkPerTrips HbSh Walk Per-Trips mf3335 HbShBikePerTrips HbSh Bike Per-Trips mf3350 HbShP-AI1A0 HbSh P-A Trips I1 A0 mf3351 HbShP-AI1A1 HbSh P-A Trips I1 A1 HbShP-AI1A2 mf3352 HbSh P-A Trips I1 A2 mf3353 HbShP-AI2A0 HbSh P-A Trips I1 A0 mf3354 HbShP-AI2A1 HbSh P-A Trips I1 A1 mf3355 HbShP-AI2A2 HbSh P-A Trips I1 A2 HbShP-AI3A0 HbSh P-A Trips I1 A0 mf3356

mf3357	HbShP-AI3A1	HbSh P-A Trips I1 A1
mf3358	HbShP-AI3A2	HbSh P-A Trips I1 A2
mf3400	HbPbSOVI1PerTrips	HbPb SOV Low Income Per-Trips
mf3401	HbPbSOVI2PerTrips	HbPb SOV Med Income Per-Trips
mf3402	HbPbSOVI3PerTrips	HbPb SOV High Income Per-Trips
mf3405	HbPbHOVI1PerTrips	HbPb HOV Low Income Per-Trips
mf3406	HbPbHOVI2PerTrips	HbPb HOV Med Income Per-Trips
mf3407	HbPbHOVI3PerTrips	HbPb HOV High Income Per-Trips
mf3415	HbPbBusPerTrips	HbPb Bus Per-Trips
mf3420	HbPbRailPerTrips	HbPb Rail Per-Trips
mf3430	HbPbWalkPerTrips	HbPb Walk Per-Trips
mf3435	-	HbPb Bike Per-Trips
	HbPbBikePerTrips	1
mf3450	HbPbP-AI1A0	HbPb P-A Trips I1 A0
mf3451	HbPbP-AI1A1	HbPb P-A Trips I1 A1
mf3452	HbPbP-AI1A2	HbPb P-A Trips I1 A2
mf3453	HbPbP-AI2A0	HbPb P-A Trips I1 A0
mf3454	HbPbP-AI2A1	HbPb P-A Trips I1 A1
mf3455	HbPbP-AI2A2	HbPb P-A Trips I1 A2
mf3456	HbPbP-AI3A0	HbPb P-A Trips I1 A0
mf3457	HbPbP-AI3A1	HbPb P-A Trips I1 A1
mf3458	HbPbP-AI3A2	HbPb P-A Trips I1 A2
mf3500	HbSoSOVI1PerTrips	HbSo SOV Low Income Per-Trips
mf3501	HbSoSOVI2PerTrips	HbSo SOV Med Income Per-Trips
mf3502	HbSoSOVI3PerTrips	HbSo SOV High Income Per-Trips
mf3505	HbSoHOVI1PerTrips	HbSo HOV Low Income Per-Trips
mf3506	HbSoHOVI2PerTrips	HbSo HOV Med Income Per-Trips
mf3507	HbSoHOVI3PerTrips	HbSo HOV High Income Per-Trips
mf3515	HbSoBusPerTrips	HbSo Bus Per-Trips
mf3520	HbSoRailPerTrips	HbSo Rail Per-Trips
mf3530	HbSoWalkPerTrips	HbSo Walk Per-Trips
mf3535	HbSoBikePerTrips	HbSo Bike Per-Trips
mf3550	HbSoP-AI1A0	HbSo P-A Trips I1 A0
mf3551	HbSoP-AI1A1	HbSo P-A Trips I1 A1
mf3552	HbSoP-AI1A2	HbSo P-A Trips I1 A2
mf3553	HbSoP-AI2A0	HbSo P-A Trips I1 A0
mf3554	HbSoP-AI2A1	•
mf3555	HbSoP-AI2A2	HbSo P-A Trips I1 A1
		HbSo P-A Trips I1 A2
mf3556	HbSoP-AI3A0	HbSo P-A Trips I1 A0
mf3557	HbSoP-AI3A1	HbSo P-A Trips I1 A1
mf3558	HbSoP-AI3A2	HbSo P-A Trips I1 A2
mf3600	HbEsSOVI1PerTrips	HbEs SOV Low Income Per-Trips
mf3601	HbEsSOVI2PerTrips	HbEs SOV Med Income Per-Trips
mf3602	HbEsSOVI3PerTrips	HbEs SOV High Income Per-Trips
mf3605	HbEsHOVI1PerTrips	HbEs HOV Low Income Per-Trips
mf3606	HbEsHOVI2PerTrips	HbEs HOV Med Income Per-Trips
mf3607	HbEsHOVI3PerTrips	HbEs HOV High Income Per-Trips
mf3615	HbEsBusPerTrips	HbEs Bus Per-Trips
mf3620	HbEsRailPerTrips	HbEs Rail Per-Trips
mf3630	HbEsWalkPerTrips	HbEs Walk Per-Trips
mf3635	HbEsBikePerTrips	HbEs Bike Per-Trips
mf3650	HbEsP-AI1A0	HbEs P-A Trips I1 A0
mf3651	HbEsP-AI1A1	HbEs P-A Trips I1 A1
mf3652	HbEsP-AI1A2	HbEs P-A Trips I1 A2
mf3653	HbEsP-AI2A0	HbEs P-A Trips I1 A0
mf3654	HbEsP-AI2A1	HbEs P-A Trips I1 A1
mf3655	HbEsP-AI2A2	HbEs P-A Trips I1 A2
mf3656	HbEsP-AI3A0	HbEs P-A Trips I1 A0
mf3657	HbEsP-AI3A1	HbEs P-A Trips I1 A1
mf3658	HbEsP-AI3A2	HbEs P-A Trips I1 A2
mf3700	NHbWSOVPerTrips	NHbW SOV Per-Trips
mf3705	NHbWHOVPerTrips	NHbW HOV Per-Trips
mf3715	NHbWBusPerTrips	NHbW Bus Per-Trips
	•	•
mf3720 mf3730	NHbWRailPerTrips	NHbW Rail Per-Trips
mf3730	NHbWWalkPerTrips	NHbW Walk Per-Trips
mf3735	NHbWBikePerTrips	NHbW Bike Per-Trips
mf3750	NHbWP-A	NHbW P-A Trips
mf3800	NHbOSOVPerTrips	NHbO SOV Per-Trips
mf3805	NHbOHOVPerTrips	NHbO HOV Per-Trips
mf3815	NHbOBusPerTrips	NHbO Bus Per-Trips
mf3820	NHbORailPerTrips	NHbO Rail Per-Trips
mf3830	NHbOWalkPerTrips	NHbO Walk Per-Trips
mf3835	NHbOBikePerTrips	NHbO Bike Per-Trips
mf3850	NHbOP-A	NHbO P-A Trips
mf5000	AmSovOpCstVOT1	Am Sov VOT1 Op Cost

mf5001	AmSovTimeVOT1	Am Sov VOT1 Time
mf5003	AmSovOpCstVOT2	Am Sov VOT2 Op Cost
mf5004	AmSovTimeVOT2	Am Sov VOT2 Time
mf5006	AmSovOpCstVOT3	Am Sov VOT3 Op Cost
mf5007	AmSovTimeVOT3	Am Sov VOT3 Time
mf5009 mf5010	AmSovOpCstVOT4 AmSovTimeVOT4	Am Sov VOT4 Op Cost Am Sov VOT4 Time
mf5012	AmHovOpCstVOT1	Am Hov VOT1 Op Cost
mf5013	AmHovTimeVOT1	Am Hov VOT1 Time
mf5015	AmHovOpCstVOT2	Am Hov VOT2 Op Cost
mf5016	AmHovTimeVOT2	Am Hov VOT2 Time
mf5018	AmHovOpCstVOT3	Am Hov VOT3 Op Cost
mf5019	AmHovTimeVOT3	Am Hov VOT3 Time
mf5021	AmHovOpCstVOT4	Am Hov VOT4 Op Cost
mf5022	AmHovTimeVOT4	Am Hov VOT4 Time
mf5024 mf5025	AmLgvOpCst AmLgvTime	Am LGV Op Cost Am LGV Time
mf5027	AmHgvOpCst	Am HGV Op Cost
mf5028	AmHgvTime	Am HGV Time
mf5030	MdSovOpCstVOT1	Md Sov VOT1 Op Cost
mf5031	MdSovTimeVOT1	Md Sov VOT1 Time
mf5033	MdSovOpCstVOT2	Md Sov VOT2 Op Cost
mf5034	MdSovTimeVOT2	Md Sov VOT2 Time
mf5036	MdSovOpCstVOT3	Md Sov VOT3 Op Cost
mf5037 mf5039	MdSovTimeVOT3	Md Sov VOT3 Time
mf5039 mf5040	MdSovOpCstVOT4 MdSovTimeVOT4	Md Sov VOT4 Op Cost Md Sov VOT4 Time
mf5042	MdHovOpCstVOT1	Md Hov VOT1 Op Cost
mf5043	MdHovTimeVOT1	Md Hov VOT1 Time
mf5045	MdHovOpCstVOT2	Md Hov VOT2 Op Cost
mf5046	MdHovTimeVOT2	Md Hov VOT2 Time
mf5048	MdHovOpCstVOT3	Md Hov VOT3 Op Cost
mf5049	MdHovTimeVOT3	Md Hov VOT3 Time
mf5051	MdHovOpCstVOT4	Md Hov VOT4 Op Cost
mf5052 mf5054	MdHovTimeVOT4 MdLgvOpCst	Md Hov VOT4 Time Md LGV Op Cost
mf5055	MdLgvTime	Md LGV Op Cost  Md LGV Time
mf5057	MdHgvOpCst	Md HGV Op Cost
mf5058	MdHgvTime	Md HGV Time
mf5060	PmSovOpCstVOT1	Pm Sov VOT1 Op Cost
mf5061	PmSovTimeVOT1	Pm Sov VOT1 Time
mf5063	PmSovOpCstVOT2	Pm Sov VOT2 Op Cost
mf5064	PmSovTimeVOT2	Pm Sov VOT2 Time
mf5066 mf5067	PmSovOpCstVOT3 PmSovTimeVOT3	Pm Sov VOT3 Op Cost Pm Sov VOT3 Time
mf5069	PmSovOpCstVOT4	Pm Sov VOT4 Op Cost
mf5070	PmSovTimeVOT4	Pm Sov VOT4 Time
mf5072	PmHovOpCstVOT1	Pm Hov VOT1 Op Cost
mf5073	PmHovTimeVOT1	Pm Hov VOT1 Time
mf5075	PmHovOpCstVOT2	Pm Hov VOT2 Op Cost
mf5076	PmHovTimeVOT2	Pm Hov VOT2 Time
mf5078	PmHovOpCstVOT3	Pm Hov VOT3 Op Cost
mf5079 mf5081	PmHovTimeVOT3 PmHovOpCstVOT4	Pm Hov VOT3 Time Pm Hov VOT4 Op Cost
mf5082	PmHovTimeVOT4	Pm Hov VOT4 Time
mf5084	PmLgvOpCst	Pm LGV Op Cost
mf5085	PmLgvTime	Pm LGV Time
mf5087	PmHgvOpCst	Pm HGV Op Cost
mf5088	PmHgvTime	Pm HGV Time
mf5100	HbWBlSovCost_I1	HbW Bl Sov Cost_Low_Income
mf5101	HbWBlSovTime_I1	HbW Bl Sov Time_Low_Income
mf5102	HbWBISovToll_I1	HbW Bl Sov Toll_Low_Income
mf5103 mf5104	HbWBlSovCost_I2 HbWBlSovTime_I2	HbW Bl Sov Cost_Med_Income HbW Bl Sov Time_Med_Income
mf5105	HbWBISovToll_I2	HbW Bl Sov Toll_Med_Income
mf5106	HbWBISovCost_I3	HbW Bl Sov Cost_High_Income
mf5107	_	HbW Bl Sov Time_High_Income
	HbWBlSovTime_I3	
mf5108	HbWBISovToll_I3	HbW Bl Sov Toll_High_Income
mf5110	HbWBlSovToll_I3 HbWBlHovCost_I1	HbW Bl Sov Toll_High_Income HbW Bl Hov Cost_Low_Income
mf5110 mf5111	HbWBISovToll_I3 HbWBIHovCost_I1 HbWBIHovTime_I1	HbW Bl Sov Toll_High_Income HbW Bl Hov Cost_Low_Income HbW Bl Hov Time_Low_Income
mf5110 mf5111 mf5112	HbWBISovToll_13 HbWBIHovCost_I1 HbWBIHovTime_I1 HbWBIHovToll_I1	HbW BI Sov Toll_High_Income HbW BI Hov Cost_Low_Income HbW BI Hov Time_Low_Income HbW BI Hov Toll_Low_Income
mf5110 mf5111 mf5112 mf5113	HbWBISovToll_13 HbWBIHovCost_I1 HbWBIHovTime_I1 HbWBIHovToll_I1 HbWBIHovCost_I2	HbW BI Sov Toll_High_Income HbW BI Hov Cost_Low_Income HbW BI Hov Time_Low_Income HbW BI Hov Toll_Low_Income HbW BI Hov Cost_Med_Income
mf5110 mf5111 mf5112	HbWBISovToll_13 HbWBIHovCost_I1 HbWBIHovTime_I1 HbWBIHovToll_I1	HbW BI Sov Toll_High_Income HbW BI Hov Cost_Low_Income HbW BI Hov Time_Low_Income HbW BI Hov Toll_Low_Income

mf5116		
mf5117	HbWBlHovCost_I3	HbW Bl Hov Cost_High_Income
mf5117	HbWBlHovTime_I3	HbW Bl Hov Time_High_Income
mf5118	HbWBlHovToll_I3	HbW Bl Hov Toll_High_Income
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mf5120	HbShBlSovCost_I1	HbSh Bl Sov Cost_Low_Income
mf5121	HbShBlSovTime_I1	HbSh Bl Sov Time_Low_Income
mf5122	HbShBlSovToll_I1	HbSh Bl Sov Toll_Low_Income
mf5123	HbShBlSovCost_I2	HbSh Bl Sov Cost_Med_Income
mf5124	HbShBlSovTime_I2	HbSh Bl Sov Time_Med_Income
mf5125	HbShBlSovToll_I2	HbSh Bl Sov Toll_Med_Income
mf5126	HbShBlSovCost_I3	HbSh Bl Sov Cost_High_Income
mf5127	HbShBlSovTime_I3	HbSh Bl Sov Time_High_Income
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mf5128	HbShBlSovToll_I3	HbSh Bl Sov Toll_High_Income
mf5130	HbShBlHovCost_I1	HbSh Bl Hov Cost_Low_Income
mf5131	HbShBlHovTime_I1	HbSh Bl Hov Time_Low_Income
mf5132	HbShBlHovToll_I1	HbSh Bl Hov Toll_Low_Income
	_	
mf5133	HbShBlHovCost_I2	HbSh Bl Hov Cost_Med_Income
mf5134	HbShB1HovTime_I2	HbSh Bl Hov Time_Med_Income
mf5135	HbShBlHovToll_I2	HbSh Bl Hov Toll_Med_Income
mf5136	HbShBlHovCost_I3	HbSh Bl Hov Cost_High_Income
mf5137	HbShBlHovTime_I3	HbSh Bl Hov Time_High_Income
	_	_
mf5138	HbShBlHovToll_I3	HbSh Bl Hov Toll_High_Income
mf5139	HbShBl_BPen	HbShopping Bridge Penalty
mf5140	HbPbBlSovCost I1	HbPb Bl Sov Cost_Low_Income
mf5141	HbPbBlSovTime_I1	HbPb Bl Sov Time_Low_Income
mf5142	HbPbBlSovToll_I1	HbPb Bl Sov Toll_Low_Income
mf5143	HbPbBlSovCost_I2	HbPb Bl Sov Cost_Med_Income
mf5144	HbPbBlSovTime_I2	HbPb Bl Sov Time_Med_Income
mf5145	HbPbBlSovToll_I2	HbPb Bl Sov Toll_Med_Income
	_	
mf5146	HbPbBlSovCost_I3	HbPb Bl Sov Cost_High_Income
mf5147	HbPbBlSovTime_I3	HbPb Bl Sov Time_High_Income
mf5148	HbPbBlSovToll_I3	HbPb Bl Sov Toll_High_Income
mf5150	HbPbBlHovCost_I1	HbPb Bl Hov Cost_Low_Income
mf5151	HbPbBlHovTime_I1	HbPb Bl Hov Time_Low_Income
mf5152		HbPb Bl Hov Toll_Low_Income
	HbPbBlHovToll_I1	
mf5153	HbPbBlHovCost_I2	HbPb Bl Hov Cost_Med_Income
mf5154	HbPbBlHovTime_I2	HbPb Bl Hov Time_Med_Income
mf5155	HbPbBlHovToll_I2	HbPb Bl Hov Toll_Med_Income
mf5156	HbPbBlHovCost_I3	HbPb Bl Hov Cost_High_Income
mf5157	HbPbBlHovTime_I3	HbPb Bl Hov Time_High_Income
mf5158	HbPbBlHovToll_I3	HbPb Bl Hov Toll_High_Income
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mf5159	HbPbBl_BPen	HbPerBus Bridge Penalty
mf5160	HbSoBlSovCost_I1	HbSo Bl Sov Cost_Low_Income
mf5161	HbSoBlSovTime_I1	HbSo Bl Sov Time_Low_Income
mf5162	HbSoBlSovToll_I1	HbSo Bl Sov Toll_Low_Income
mf5163	HbSoBlSovCost_I2	HbSo Bl Sov Cost_Med_Income
	11050215010051_12	Trobo Bi bo Cost_ined_ineome
mf5164	UhCoDICovTimo I2	UhCo D1 Cov Time Med Income
mf5164	HbSoBlSovTime_I2	HbSo Bl Sov Time_Med_Income
mf5165	HbSoBlSovTime_I2 HbSoBlSovToll_I2	HbSo Bl Sov Toll_Med_Income
mf5165	HbSoBlSovToll_I2	HbSo Bl Sov Toll_Med_Income
mf5165 mf5166 mf5167	HbSoBlSovToll_I2 HbSoBlSovCost_I3 HbSoBlSovTime_I3	HbSo Bl Sov Toll_Med_Income HbSo Bl Sov Cost_High_Income HbSo Bl Sov Time_High_Income
mf5165 mf5166 mf5167 mf5168	HbSoBlSovToll_12 HbSoBlSovCost_13 HbSoBlSovTime_13 HbSoBlSovToll_13	HbSo Bl Sov Toll_Med_Income HbSo Bl Sov Cost_High_Income HbSo Bl Sov Time_High_Income HbSo Bl Sov Toll_High_Income
mf5165 mf5166 mf5167 mf5168 mf5170	HbSoBISovToll_12 HbSoBISovCost_13 HbSoBISovTime_13 HbSoBISovToll_13 HbSoBIHovCost_11	HbSo BI Sov Toll_Med_Income HbSo BI Sov Cost_High_Income HbSo BI Sov Time_High_Income HbSo BI Sov Toll_High_Income HbSo BI Hov Cost_Low_Income
mf5165 mf5166 mf5167 mf5168 mf5170 mf5171	HbSoBISovToll_12 HbSoBISovCost_13 HbSoBISovTime_13 HbSoBISovToll_13 HbSoBIHovCost_I1 HbSoBIHovTime_I1	HbSo BI Sov Toll_Med_Income HbSo BI Sov Cost_High_Income HbSo BI Sov Time_High_Income HbSo BI Sov Toll_High_Income HbSo BI Hov Cost_Low_Income HbSo BI Hov Time_Low_Income
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mf5165 mf5166 mf5167 mf5168 mf5170 mf5171 mf5172 mf5173 mf5174 mf5175 mf5176 mf5177 mf5178 mf5179 mf5200 mf5201 mf5202 mf5205 mf5206 mf5207 mf5210 mf5211	HbSoBISovToll_12 HbSoBISovCost_13 HbSoBISovTime_13 HbSoBISovToll_13 HbSoBIHovCost_11 HbSoBIHovToll_11 HbSoBIHovToll_11 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_14 HbSoBIHovToll_15 HbSoBIHovToll_16 HbUBISovCost HbUBISovCost HbUBISovTime HbUBISovToll HbUBIHovToll HbUBIHovToll HbUBIHovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBIHovToll HbUBIHovToll HbScBISovCost HbUBIHovToll HbScBISovToll HbScBISovToll HbScBISovToll	HbSo BI Sov Toll_Med_Income HbSo BI Sov Cost_High_Income HbSo BI Sov Time_High_Income HbSo BI Sov Toll_High_Income HbSo BI Hov Toll_Lime_High_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_High_Income HbSo BI Hov Toll HbU BI Sov Cost HbU BI Hov Cost HbU BI Hov Cost HbU BI Hov Toll HbU BI Hov Toll HbSc BI Sov Cost HbSc BI Sov Cost
mf5165 mf5166 mf5167 mf5168 mf5170 mf5171 mf5172 mf5173 mf5174 mf5175 mf5176 mf5177 mf5178 mf5179 mf5200 mf5201 mf5202 mf5205 mf5205 mf5206 mf5207 mf5210 mf5211 mf5212	HbSoBISovToll_12 HbSoBISovCost_13 HbSoBISovTime_13 HbSoBISovToll_13 HbSoBIHovCost_11 HbSoBIHovToll_11 HbSoBIHovToll_11 HbSoBIHovToll_11 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIDSovCost HbUBISovCost HbUBISovToll HbUBISovToll HbUBISovToll HbUBIHovTime HbUBIHovTime HbUBISovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBISovToll	HbSo BI Sov Toll_Med_Income HbSo BI Sov Cost_High_Income HbSo BI Sov Time_High_Income HbSo BI Sov Toll_High_Income HbSo BI Hov Toll_High_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_High_Income HbU BI Sov Cost HbU BI Sov Toll HbU BI Hov Toll HbU BI Hov Toll HbSc BI Sov Cost HbSc BI Sov Cost HbSc BI Sov Time
mf5165 mf5166 mf5167 mf5168 mf5170 mf5171 mf5172 mf5173 mf5174 mf5175 mf5176 mf5177 mf5178 mf5179 mf5200 mf5201 mf5202 mf5205 mf5205 mf5206 mf5207 mf5210 mf5211 mf5212 mf5215	HbSoBISovToll_12 HbSoBISovCost_13 HbSoBISovTime_13 HbSoBISovToll_13 HbSoBIHovCost_11 HbSoBIHovToll_11 HbSoBIHovToll_11 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_14 HbSoBIHovToll_15 HbSoBIHovToll_16 HbUBISovCost HbUBISovCost HbUBISovTime HbUBISovToll HbUBIHovToll HbUBIHovToll HbUBIHovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBISovToll HbUBIHovToll HbUBIHovToll HbScBISovCost HbUBIHovToll HbScBISovToll HbScBISovToll HbScBISovToll	HbSo BI Sov Toll_Med_Income HbSo BI Sov Cost_High_Income HbSo BI Sov Time_High_Income HbSo BI Sov Toll_High_Income HbSo BI Hov Cost_Low_Income HbSo BI Hov Time_Low_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_High_Income HbU BI Sov Cost HbU BI Hov Cost HbU BI Hov Toll HbSc BI Hov Toll HbSc BI Sov Cost HbSc BI Sov Cost HbSc BI Sov Toll HbSc BI Sov Toll HbSc BI Sov Toll
mf5165 mf5166 mf5167 mf5168 mf5170 mf5172 mf5173 mf5174 mf5175 mf5176 mf5177 mf5178 mf5179 mf5200 mf5201 mf5202 mf5201 mf5201 mf5202 mf5205 mf5206 mf5201 mf5210 mf5210 mf5210 mf5211 mf5212 mf5212	HbSoBISovToll_12 HbSoBISovCost_13 HbSoBISovTome_13 HbSoBISovToll_13 HbSoBIHovCost_11 HbSoBIHovCost_11 HbSoBIHovToll_11 HbSoBIHovToll_11 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_14 HbSoBIHovToll_15 HbSoBIHovToll_16 HbUBISovCost HbUBISovToll HbUBISovToll HbUBIHovToll HbUBIHovToll HbSoBISOVToll HbSoBISOVToll HbScBISovToll HbScBISovToll HbScBISovToll HbScBISovToll HbScBISovToll HbScBIHovCost HbScBIHovToll	HbSo Bl Sov Toll_Med_Income HbSo Bl Sov Cost_High_Income HbSo Bl Sov Time_High_Income HbSo Bl Sov Toll_High_Income HbSo Bl Hov Cost_Low_Income HbSo Bl Hov Time_Low_Income HbSo Bl Hov Toll_Low_Income HbSo Bl Hov Toll_Low_Income HbSo Bl Hov Time_Med_Income HbSo Bl Hov Time_Med_Income HbSo Bl Hov Toll_Med_Income HbSo Bl Hov Toll_Med_Income HbSo Bl Hov Toll_High_Income HbSocial Bridge Penalty HbU Bl Sov Cost HbU Bl Sov Toll HbU Bl Hov Toll HbU Bl Hov Time HbU Bl Hov Time HbU Bl Hov Time HbU Bl Sov Cost HbSc Bl Sov Cost HbSc Bl Sov Time HbSc Bl Hov Toll HbSc Bl Hov Cost HbSc Bl Hov Cost HbSc Bl Hov Time
mf5165 mf5166 mf5167 mf5168 mf5170 mf5171 mf5172 mf5173 mf5174 mf5175 mf5176 mf5177 mf5178 mf5179 mf5200 mf5201 mf5202 mf5205 mf5205 mf5206 mf5207 mf5210 mf5210 mf5211 mf5212 mf5215 mf5215 mf5215	HbSoBISovToll_12 HbSoBISovCost_13 HbSoBISovCost_13 HbSoBISovTime_13 HbSoBISovToll_13 HbSoBIHovCost_11 HbSoBIHovToll_11 HbSoBIHovToll_11 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_14 HbSoBIHovToll_15 HbSoBIHovToll_16 HbUBISovCost HbUBISovTime HbUBISovTime HbUBIHovToll HbUBIHovToll HbScBISovTime HbUBIHovToll HbScBISovTime HbUBIHovToll HbScBISovTime HbScBISovTime HbScBISovTime HbScBISovTime HbScBIHovCost HbScBIHovCost HbScBIHovToll HbScBIHovCost HbScBIHovToll	HbSo BI Sov Toll_Med_Income HbSo BI Sov Cost_High_Income HbSo BI Sov Time_High_Income HbSo BI Sov Toll_High_Income HbSo BI Hov Cost_Low_Income HbSo BI Hov Time_Low_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Low_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_Med_Income HbSo BI Hov Toll_High_Income HbSo BI Sov Cost HbU BI Sov Time HbU BI Sov Toll HbU BI Hov Time HbU BI Hov Toll HbSc BI Sov Cost HbSc BI Sov Toll HbSc BI Sov Toll HbSc BI Hov Toll HbSc BI Hov Toll HbSc BI Hov Time HbSc BI Hov Time
mf5165 mf5166 mf5167 mf5168 mf5170 mf5171 mf5172 mf5173 mf5174 mf5175 mf5176 mf5177 mf5178 mf5179 mf5200 mf5201 mf5202 mf5201 mf5201 mf5205 mf5206 mf5201 mf5210 mf5210 mf5210 mf5211 mf5212 mf5215 mf5216 mf5217	HbSoBISovToll_12 HbSoBISovCost_13 HbSoBISovTome_13 HbSoBISovToll_13 HbSoBIHovCost_11 HbSoBIHovCost_11 HbSoBIHovToll_11 HbSoBIHovToll_11 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_12 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_13 HbSoBIHovToll_14 HbSoBIHovToll_15 HbSoBIHovToll_16 HbUBISovCost HbUBISovToll HbUBISovToll HbUBIHovToll HbUBIHovToll HbSoBISOVToll HbSoBISOVToll HbScBISovToll HbScBISovToll HbScBISovToll HbScBISovToll HbScBISovToll HbScBIHovCost HbScBIHovToll	HbSo Bl Sov Toll_Med_Income HbSo Bl Sov Cost_High_Income HbSo Bl Sov Time_High_Income HbSo Bl Sov Toll_High_Income HbSo Bl Hov Cost_Low_Income HbSo Bl Hov Time_Low_Income HbSo Bl Hov Toll_Low_Income HbSo Bl Hov Toll_Low_Income HbSo Bl Hov Time_Med_Income HbSo Bl Hov Time_Med_Income HbSo Bl Hov Toll_Med_Income HbSo Bl Hov Toll_Med_Income HbSo Bl Hov Toll_High_Income HbSocial Bridge Penalty HbU Bl Sov Cost HbU Bl Sov Toll HbU Bl Hov Toll HbU Bl Hov Time HbU Bl Hov Time HbU Bl Hov Time HbU Bl Sov Cost HbSc Bl Sov Cost HbSc Bl Sov Time HbSc Bl Hov Toll HbSc Bl Hov Cost HbSc Bl Hov Cost HbSc Bl Hov Time

mf5221	HbEsBlSovTime	HbEs Bl Sov Time
mf5222	HbEsBlSovToll	HbEs Bl Sov Toll
mf5225	HbEsBlHovCost	HbEs Bl Hov Cost
mf5226	HbEsBlHovTime	HbEs Bl Hov Time
mf5227	HbEsBlHovToll	HbEs Bl Hov Toll
mf5229 mf5230	HbEsBl_BPen NHbWBlSovCost	HbEscort Bridge Penalty NHbW Bl Sov Cost
mf5231	NHbWBlSovTime	NHbW BI Sov Cost NHbW BI Sov Time
mf5232	NHbWBlSovToll	NHbW Bl Sov Toll
mf5235	NHbWBlHovCost	NHbW Bl Hov Cost
mf5236	NHbWBlHovTime	NHbW Bl Hov Time
mf5237	NHbWBlHovToll	NHbW Bl Hov Toll
mf5240	NHbOBlSovCost	NHbO B1 Sov Cost
mf5241	NHbOBISovTime	NHbO Bl Sov Time
mf5242 mf5245	NHbOBlSovToll NHbOBlHovCost	NHbO BI Sov Toll NHbO BI Hov Cost
mf5246	NHbOBIHovTime	NHbO BI Hov Time
mf5247	NHbOBiHovToll	NHbO BI Hov Toll
mf5249	NHbOBl_BPen	NHbO Bridge Penalty
mf5300	AmBusIvtt	Am Bus InVehicle Time
mf5301	AmBusWait	Am Bus Waiting Time
mf5302	AmBusAux	Am Bus Auxillary Time
mf5303	AmBusBoard	Am Bus Boardings
mf5304	AmBusFare	Am Bus Fare
mf5310 mf5311	MdBusIvtt MdBusWait	Md Bus InVehicle Time Md Bus Waiting Time
mf5312	MdBusAux	Md Bus Auxillary Time
mf5313	MdBusBoard	Md Bus Boardings
mf5314	MdBusFare	Md Bus Fare
mf5320	PmBusIvtt	Pm Bus InVehicle Time
mf5321	PmBusWait	Pm Bus Waiting Time
mf5322	PmBusAux	Pm Bus Auxillary Time
mf5323	PmBusBoard	Pm Bus Boardings
mf5324 mf5400	PmBusFare HbWBlBusIvtt	Pm Bus Fare HbW Bl Bus InVehicle Time
mf5401	HbWBlBusWait	HbW Bl Bus Waiting Time
mf5402	HbWBlBusAux	HbW Bl Bus Auxillary Time
mf5403	HbWBlBusBoard	HbW Bl Bus Boardings
mf5404	HbWBlBusFare	HbW Bl Bus Fare
mf5410	HbUBlBusIvtt	HbU Bl Bus InVehicle Time
mf5411	HbUBlBusWait	HbU Bl Bus Waiting Time
mf5412	HbUBlBusAux	HbU Bl Bus Auxillary Time
mf5413 mf5414	HbUBlBusBoard HbUBlBusFare	HbU Bl Bus Boardings HbU Bl Bus Fare
mf5420	HbScBlBusIvtt	HbSc Bl Bus InVehicle Time
mf5421	HbScBlBusWait	HbSc Bl Bus Waiting Time
mf5422	HbScBlBusAux	HbSc Bl Bus Auxillary Time
mf5423	HbScBlBusBoard	HbSc Bl Bus Boardings
mf5424	HbScBlBusFare	HbSc Bl Bus Fare
mf5430	HbShBlBusIvtt	HbSh Bl Bus InVehicle Time
mf5431	HbShBlBusWait	HbSh Bl Bus Waiting Time
mf5432 mf5433	HbShBiBusAux HbShBiBusBoard	HbSh Bl Bus Auxillary Time HbSh Bl Bus Boardings
mf5434	HbShBlBusFare	HbSh Bl Bus Fare
mf5440	HbPbBlBusIvtt	HbPb Bl Bus InVehicle Time
mf5441	HbPbBlBusWait	HbPb Bl Bus Waiting Time
mf5442	HbPbBlBusAux	HbPb Bl Bus Auxillary Time
mf5443	HbPbBlBusBoard	HbPb Bl Bus Boardings
mf5444	HbPbBlBusFare	HbPb Bl Bus Fare
mf5450	HbSoBlBusIvtt	HbSo Bl Bus InVehicle Time
mf5451 mf5452	HbSoBlBusWait HbSoBlBusAux	HbSo Bl Bus Waiting Time
mf5452 mf5453	HbSoBlBusBoard	HbSo Bl Bus Auxillary Time HbSo Bl Bus Boardings
mf5454	HbSoBlBusFare	HbSo Bl Bus Fare
mf5460	HbEsBlBusIvtt	HbEs Bl Bus InVehicle Time
mf5461	HbEsBlBusWait	HbEs Bl Bus Waiting Time
mf5462	HbEsBlBusAux	HbEs Bl Bus Auxillary Time
mf5463	HbEsBlBusBoard	HbEs Bl Bus Boardings
mf5464	HbEsBlBusFare	HbEs Bl Bus Fare
mf5470	NHbWBlBusIvtt	NHbW Bl Bus InVehicle Time
mf5471 mf5472	NHbWBlBusWait NHbWBlBusAux	NHbW Bl Bus Waiting Time NHbW Bl Bus Auxillary Time
mf5472 mf5473	NHbWBlBusBoard	NHbW BI Bus Auxiliary Time NHbW BI Bus Boardings
mf5474	NHbWBlBusFare	NHbW Bl Bus Fare

65.400	AULI ODID II II	MILLO DI D. I. W. I. I. T.
mf5480	NHbOBIBusIvtt	NHbO Bl Bus InVehicle Time
mf5481	NHbOBlBusWait	NHbO Bl Bus Waiting Time
mf5482	NHbOBlBusAux	NHbO Bl Bus Auxillary Time
mf5483	NHbOBlBusBoard	NHbO Bl Bus Boardings
mf5484	NHbOBlBusFare	NHbO Bl Bus Fare
mf5500	AmRailIvtt	Am Rail Invehicle Time
mf5501	AmRailIvttBus	Am Rail Invehicle Time on Bus
mf5502	AmRailWait	Am Rail Waiting Time
mf5503	AmRailAux	Am Rail Auxilliary Time
mf5504	AmRailBoard	Am Rail Boardings
mf5505	AmRailFare	Am Rail Fare
mf5510	MdRailIvtt	Md Rail Invehicle Time
mf5511	MdRailIvttBus	Md Rail Invehicle Time on Bus
mf5512	MdRailWait	Md Rail Waiting Time
mf5513	MdRailAux	Md Rail Auxilliary Time
mf5514	MdRailBoard	Md Rail Boardings
mf5515	MdRailFare	Md Rail Fare
mf5520	PmRailIvtt	Pm Rail Invehicle Time
mf5521	PmRailIvttBus	Pm Rail Invehicle Time on Bus
mf5522	PmRailWait	Pm Rail Waiting Time
mf5523	PmRailAux	Pm Rail Auxilliary Time
mf5524	PmRailBoard	Pm Rail Boardings
mf5525	PmRailFare	Pm Rail Fare
		HbW Bl Rail Invehicle Time
mf5600	HbWBlRailIvtt	
mf5601	HbWBlRailIvttBus	HbW Bl Rail Invehicle Time on Bus
mf5602	HbWBlRailWait	HbW Bl Rail Waiting Time
mf5603	HbWBlRailAux	HbW Bl Rail Auxilliary Time
mf5604	HbWBlRailBoard	HbW Bl Rail Boardings
mf5605	HbWBlRailFare	HbW Bl Rail Fare
mf5610	HbUBlRailIvtt	HbU Bl Rail Invehicle Time
mf5611	HbUBlRailIvttBus	HbU Bl Rail Invehicle Time on Bus
mf5612	HbUBlRailWait	HbU Bl Rail Waiting Time
mf5613	HbUBlRailAux	HbU Bl Rail Auxilliary Time
mf5614	HbUBlRailBoard	HbU Bl Rail Boardings
mf5615	HbUBlRailFare	HbU Bl Rail Fare
mf5620	HbScBlRailIvtt	HbSc Bl Rail Invehicle Time
mf5621	HbScBlRailIvttBus	HbSc Bl Rail Invehicle Time on Bus
mf5622	HbScBlRailWait	HbSc Bl Rail Waiting Time
		=
mf5623	HbScBlRailAux	HbSc Bl Rail Auxilliary Time
mf5624	HbScBlRailBoard	HbSc Bl Rail Boardings
mf5625	HbScBlRailFare	HbSc Bl Rail Fare
mf5630	HbShBlRailIvtt	HbSh Bl Rail Invehicle Time
mf5631	HbShBlRailIvttBus	HbSh Bl Rail Invehicle Time on Bus
mf5632	HbShBlRailWait	HbSh Bl Rail Waiting Time
mf5633	HbShBlRailAux	HbSh Bl Rail Auxilliary Time
mf5634	HbShBlRailBoard	HbSh Bl Rail Boardings
		_
mf5635	HbShBlRailFare	HbSh Bl Rail Fare
mf5640	HbPbBlRailIvtt	HbPb Bl Rail Invehicle Time
mf5641	HbPbBlRailIvttBus	HbPb Bl Rail Invehicle Time on Bus
mf5642	HbPbBlRailWait	HbPb Bl Rail Waiting Time
mf5643	HbPbBlRailAux	HbPb Bl Rail Auxilliary Time
mf5644	HbPbBlRailBoard	HbPb Bl Rail Boardings
mf5645	HbPbBIRailFare	HbPb Bl Rail Fare
	HbSoBlRailIvtt	HbSo Bl Rail Invehicle Time
mf5650		
mf5651	HbSoBlRailIvttBus	HbSo Bl Rail Invehicle Time on Bus
mf5652	HbSoBlRailWait	HbSo Bl Rail Waiting Time
mf5653	HbSoBlRailAux	HbSo Bl Rail Auxilliary Time
mf5654	HbSoBlRailBoard	HbSo Bl Rail Boardings
mf5655	HbSoBlRailFare	HbSo Bl Rail Fare
mf5660	HbEsBlRailIvtt	HbEs Bl Rail Invehicle Time
mf5661	HbEsBlRailIvttBus	HbEs Bl Rail Invehicle Time  HbEs Bl Rail Invehicle Time on Bus
mf5662	HbEsBlRailWait	HbEs Bl Rail Waiting Time
mf5663	HbEsBlRailAux	HbEs Bl Rail Auxilliary Time
mf5664	HbEsBlRailBoard	HbEs Bl Rail Boardings
mf5665	HbEsBlRailFare	HbEs Bl Rail Fare
mf5670	NHbWBlRailIvtt	NHbW Bl Rail Invehicle Time
mf5671	NHbWBlRailIvttBus	NHbW Bl Rail Invehicle Time on Bus
mf5672	NHbWBIRailWait	NHbW BI Rail Waiting Time
mf5673	NHbWBlRailAux	NHbW Bl Rail Auxilliary Time
mf5674	NHbWBlRailBoard	NHbW Bl Rail Boardings
mf5675	NHbWBlRailFare	NHbW Bl Rail Fare
mf5680	NHbOBlRailIvtt	NHbO Bl Rail Invehicle Time
mf5681	NHbOBlRailIvttBus	NHbO Bl Rail Invehicle Time on Bus
mf5682	NHbOBlRailWait	NHbO Bl Rail Waiting Time

65.600	ATT ODID II.	AME O DI D. II. A. IIII
mf5683	NHbOBlRailAux	NHbO Bl Rail Auxilliary Time
mf5684	NHbOBlRailBoard	NHbO Bl Rail Boardings
mf5685	NHbOBlRailFare	NHbO Bl Rail Fare
mf5700	AmWceIvtt	Am Rail Invehicle Time
mf5701	AmWceIvttRail	Am Rail Invehicle Time on Rail
mf5702	AmWceIvttBus	Am Rail Invehicle Time on Bus
mf5703	AmWceWait	Am Rail Waiting Time
mf5704	AmWceAux	Am Rail Auxilliary Time
mf5705	AmWceBoard	Am Rail Boardings
mf5706	AmWceFare	Am Rail Fare
mf5710	MdWceIvtt	Md Rail Invehicle Time
mf5711	MdWceIvttRail	Md Rail Invehicle Time on Rail
mf5712	MdWceIvttBus	Md Rail Invehicle Time on Bus
mf5713	MdWceWait	Md Rail Waiting Time
mf5714	MdWceAux	Md Rail Auxilliary Time
mf5715	MdWceBoard	Md Rail Boardings
mf5716	MdWceFare	Md Rail Fare
mf5720	PmWceIvtt	Pm Rail Invehicle Time
mf5721	PmWceIvttRail	Pm Rail Invehicle Time on Rail
mf5721	PmWceIvttBus	Pm Rail Invehicle Time on Bus
mf5723	PmWceWait	Pm Rail Waiting Time
mf5724	PmWceAux	<del>-</del>
	PmWceAux PmWceBoard	Pm Rail Auxilliary Time
mf5725		Pm Rail Boardings
mf5726	PmWceFare	Pm Rail Fare
mf5800	HbWBlWceIvtt	HbW BI WCE Invehicle Time
mf5801	HbWBlWceIvttRail	HbW Bl WCE Invehicle Time on WCE
mf5802	HbWBlWceIvttBus	HbW Bl WCE Invehicle Time on Bus
mf5803	HbWBlWceWait	HbW Bl WCE Waiting Time
mf5804	HbWBlWceAux	HbW Bl WCE Auxilliary Time
mf5805	HbWBlWceBoard	HbW Bl WCE Boardings
mf5806	HbWBlWceFare	HbW BI WCE Fare
mf6000	buspr-lotChceWkAMPA	Bus Best PnR Lot - Bus
mf6001	railpr-lotChceWkAMPA	Rail Best PnR Lot - Rail
mf6002	wcepr-lotChceWkAMPA	Rail Best PnR Lot -WCE
mf6003	pr-gtAutoWkAMPA	PnR Generalized Cost Auto Leg
mf6005	buspr-GctranWkAMPA	PnR Generalized Cost Transit Leg - Bus
mf6006	buspr-minGCWkAMPA	PnR Combined Skim Result - Bus
mf6015	railpr-GctranWkAMPA	Rail PnR Generalized Cost Transit Leg - Rail
mf6016	railpr-minGCWkAMPA	Rail PnR Combined Skim Result - Rail
mf6030	wcepr-GctranWkAMPA	WCE PnR Generalized Cost Transit Leg
mf6031	wcepr-minGCWkAMPA	WCE PnR Combined Skim Result
mf6048	pr-gtAutoWkMDPA	PnR Generalized Cost Auto Leg
mf6050	buspr-GctranWkMDPA	PnR Generalized Cost Transit Leg - Bus
mf6051	buspr-minGCWkMDPA	PnR Combined Skim Result - Bus
mf6060	railpr-GctranWkMDPA	Rail PnR Generalized Cost Transit Leg - Rail
mf6061	railpr-minGCWkMDPA	Rail PnR Combined Skim Result - Rail
mf6075	wcepr-GctranWkMDPA	WCE PnR Generalized Cost Transit Leg
mf6076	wcepr-minGCWkMDPA	WCE PnR Combined Skim Result
mf6088	pr-gtAutoWkPMPA	PnR Generalized Cost Auto Leg
mf6090	buspr-GctranWkPMPA	PnR Generalized Cost Transit Leg - Bus
mf6091	buspr-minGCWkPMPA	PnR Combined Skim Result - Bus
mf6100	railpr-GctranWkPMPA	Rail PnR Generalized Cost Transit Leg - Rail
mf6101	railpr-minGCWkPMPA	Rail PnR Combined Skim Result - Rail
mf6115	wcepr-GctranWkPMPA	WCE PnR Generalized Cost Transit Leg
mf6116	wcepr-minGCWkPMPA	WCE PnR Combined Skim Result
mf6130	buspr-lotChceNWkAMPA	Bus Best PnR Lot - Bus
mf6131	railpr-lotChceNWkAMPA	Rail Best PnR Lot - Rail
mf6132	wcepr-lotChceNWkAMPA	Rail Best PnR Lot -WCE
mf6133	pr-gtAutoNWkAMPA	PnR Generalized Cost Auto Leg
mf6135	buspr-GctranNWkAMPA	PnR Generalized Cost Transit Leg - Bus
mf6136	buspr-minGCNWkAMPA	PnR Combined Skim Result - Bus
mf6145	railpr-GctranNWkAMPA	Rail PnR Generalized Cost Transit Leg - Rail
mf6146	railpr-minGCNWkAMPA	Rail PnR Combined Skim Result - Rail
mf6160	wcepr-GctranNWkAMPA	WCE PnR Generalized Cost Transit Leg
mf6161	wcepr-minGCNWkAMPA	WCE PnR Combined Skim Result
mf6173	pr-gtAutoNWkMDPA	PnR Generalized Cost Auto Leg
mf6175	buspr-GctranNWkMDPA	PnR Generalized Cost Transit Leg - Bus
mf6176	buspr-minGCNWkMDPA	PnR Combined Skim Result - Bus
mf6185	railpr-GctranNWkMDPA	Rail PnR Generalized Cost Transit Leg - Rail
mf6186	railpr-minGCNWkMDPA	Rail PnR Combined Skim Result - Rail
mf6200	wcepr-GctranNWkMDPA	WCE PnR Generalized Cost Transit Leg
mf6201	wcepr-minGCNWkMDPA	WCE PnR Combined Skim Result
mf6213	pr-gtAutoNWkPMPA	PnR Generalized Cost Auto Leg
mf6215	buspr-GctranNWkPMPA	PnR Generalized Cost Transit Leg - Bus

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mf6216	buspr-minGCNWkPMPA	PnR Combined Skim Result - Bus
mf6225	railpr-GctranNWkPMPA	Rail PnR Generalized Cost Transit Leg - Rail
mf6226	railpr-minGCNWkPMPA	Rail PnR Combined Skim Result - Rail
mf6240	wcepr-GctranNWkPMPA	WCE PnR Generalized Cost Transit Leg
mf6241	wcepr-minGCNWkPMPA	WCE PnR Combined Skim Result
mf6303	pr-gtAutoWkAMAP	PnR Generalized Cost Auto Leg
mf6305	buspr-GctranWkAMAP	PnR Generalized Cost Transit Leg - Bus
mf6306	buspr-minGCWkAMAP	PnR Combined Skim Result - Bus
mf6315		Rail PnR Generalized Cost Transit Leg - Rail
	railpr-GctranWkAMAP	
mf6316	railpr-minGCWkAMAP	Rail PnR Combined Skim Result - Rail
mf6330	wcepr-GctranWkAMAP	WCE PnR Generalized Cost Transit Leg
mf6331	wcepr-minGCWkAMAP	WCE PnR Combined Skim Result
mf6348	pr-gtAutoWkMDAP	PnR Generalized Cost Auto Leg
mf6350	buspr-GctranWkMDAP	PnR Generalized Cost Transit Leg - Bus
mf6351	buspr-minGCWkMDAP	PnR Combined Skim Result - Bus
mf6360	railpr-GctranWkMDAP	Rail PnR Generalized Cost Transit Leg - Rail
mf6361	railpr-minGCWkMDAP	Rail PnR Combined Skim Result - Rail
mf6375	•	WCE PnR Generalized Cost Transit Leg
	wcepr-GctranWkMDAP	
mf6376	wcepr-minGCWkMDAP	WCE PnR Combined Skim Result
mf6388	pr-gtAutoWkPMAP	PnR Generalized Cost Auto Leg
mf6390	buspr-GctranWkPMAP	PnR Generalized Cost Transit Leg - Bus
mf6391	buspr-minGCWkPMAP	PnR Combined Skim Result - Bus
mf6400	railpr-GctranWkPMAP	Rail PnR Generalized Cost Transit Leg - Rail
mf6401	railpr-minGCWkPMAP	Rail PnR Combined Skim Result - Rail
mf6415	wcepr-GctranWkPMAP	WCE PnR Generalized Cost Transit Leg
mf6416	•	WCE PnR Combined Skim Result
	wcepr-minGCWkPMAP	
mf6433	pr-gtAutoNWkAMAP	PnR Generalized Cost Auto Leg
mf6435	buspr-GctranNWkAMAP	PnR Generalized Cost Transit Leg - Bus
mf6436	buspr-minGCNWkAMAP	PnR Combined Skim Result - Bus
mf6445	railpr-GctranNWkAMAP	Rail PnR Generalized Cost Transit Leg - Rail
mf6446	railpr-minGCNWkAMAP	Rail PnR Combined Skim Result - Rail
mf6460	wcepr-GctranNWkAMAP	WCE PnR Generalized Cost Transit Leg
mf6461	wcepr-minGCNWkAMAP	WCE PnR Combined Skim Result
mf6473	pr-gtAutoNWkMDAP	PnR Generalized Cost Auto Leg
mf6475	buspr-GctranNWkMDAP	PnR Generalized Cost Transit Leg - Bus
mf6476	buspr-minGCNWkMDAP	PnR Combined Skim Result - Bus
mf6485	railpr-GctranNWkMDAP	Rail PnR Generalized Cost Transit Leg - Rail
mf6486	railpr-minGCNWkMDAP	Rail PnR Combined Skim Result - Rail
mf6500	wcepr-GctranNWkMDAP	WCE PnR Generalized Cost Transit Leg
mf6501	wcepr-minGCNWkMDAP	WCE PnR Combined Skim Result
mf6513	pr-gt AutoNWkPM AP	PnR Generalized Cost Auto Lea
mf6513	pr-gtAutoNWkPMAP	PnR Generalized Cost Auto Leg
mf6515	buspr-GctranNWkPMAP	PnR Generalized Cost Transit Leg - Bus
mf6515 mf6516	buspr-GctranNWkPMAP buspr-minGCNWkPMAP	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus
mf6515 mf6516 mf6525	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail
mf6515 mf6516	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail
mf6515 mf6516 mf6525	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail
mf6515 mf6516 mf6525 mf6526	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail
mf6515 mf6516 mf6525 mf6526 mf6540 mf6541	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP wcepr-GctranNWkPMAP wcepr-minGCNWkPMAP	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail WCE PnR Generalized Cost Transit Leg
mf6515 mf6516 mf6525 mf6526 mf6540 mf6541 mf6800	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP wcepr-GctranNWkPMAP wcepr-minGCNWkPMAP HbWBIBAuPRCost	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail WCE PnR Generalized Cost Transit Leg WCE PnR Combined Skim Result HbW Bl Bus-Auto PR Cost
mf6515 mf6516 mf6525 mf6526 mf6540 mf6541 mf6800 mf6801	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP wcepr-GctranNWkPMAP wcepr-minGCNWkPMAP HbWBIBAuPRCost HbWBIBAuPRTime	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail WCE PnR Generalized Cost Transit Leg WCE PnR Combined Skim Result HbW Bl Bus-Auto PR Cost HbW Bl Bus-Auto PR Time
mf6515 mf6516 mf6525 mf6526 mf6540 mf6541 mf6800 mf6801 mf6802	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP wcepr-GctranNWkPMAP wcepr-minGCNWkPMAP HbWBIBAuPRCost HbWBIBAuPRTime HbWBIBAuPRToll	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail WCE PnR Generalized Cost Transit Leg WCE PnR Combined Skim Result HbW Bl Bus-Auto PR Cost HbW Bl Bus-Auto PR Time HbW Bl Bus-Auto PR Toll
mf6515 mf6516 mf6525 mf6526 mf6520 mf6540 mf6541 mf6800 mf6801 mf6802 mf6803	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP wcepr-GctranNWkPMAP wcepr-minGCNWkPMAP HbWBIBAuPRCost HbWBIBAuPRToll HbWBAUPRCst	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail WCE PnR Generalized Cost Transit Leg WCE PnR Combined Skim Result HbW Bl Bus-Auto PR Cost HbW Bl Bus-Auto PR Time HbW Bl Bus-Auto PR Toll HbW Bus-Auto PR Toll
mf6515 mf6516 mf6525 mf6526 mf6520 mf6540 mf6541 mf6800 mf6801 mf6802 mf6803 mf6804	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP wcepr-GctranNWkPMAP wcepr-minGCNWkPMAP HbWBIBAuPRCost HbWBIBAuPRToll HbWBAuPrkCst HbWBAuPrkCst HbWBAuTrmTim	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail WCE PnR Generalized Cost Transit Leg WCE PnR Combined Skim Result HbW Bl Bus-Auto PR Cost HbW Bl Bus-Auto PR Time HbW Bl Bus-Auto PR Toll HbW Bus-Auto PR Toll HbW Bus-Auto PR Parking Cost HbW Bus-Auto PR Terminal Time
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mf6515 mf6516 mf6525 mf6526 mf6540 mf6541 mf6800 mf6801 mf6802 mf6803 mf6804 mf6810 mf6811	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP wcepr-GctranNWkPMAP wcepr-minGCNWkPMAP HbWBIBAuPRCost HbWBIBAuPRTime HbWBAuPrKCst HbWBAuTrmTim HbWBIRAuPRCost HbWBIRAuPRCost HbWBIRAuPRCost	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Rail PnR Combined Skim Result - Rail WCE PnR Generalized Cost Transit Leg WCE PnR Combined Skim Result HbW Bl Bus-Auto PR Cost HbW Bl Bus-Auto PR Time HbW Bl Bus-Auto PR Toll HbW Bus-Auto PR Parking Cost HbW Bus-Auto PR Terminal Time HbW Bl Rail-Auto PR Cost HbW Bl Rail-Auto PR Cost
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mf6515 mf6516 mf6525 mf6526 mf6540 mf6541 mf6800 mf6801 mf6802 mf6803 mf6804 mf6810 mf6811 mf6812 mf6813 mf6814 mf6820	buspr-GctranNWkPMAP buspr-minGCNWkPMAP railpr-GctranNWkPMAP railpr-minGCNWkPMAP railpr-minGCNWkPMAP wcepr-GctranNWkPMAP wcepr-minGCNWkPMAP HbWBIBAuPRCost HbWBIBAuPRTime HbWBIBAuPRToll HbWBAuPrKCst HbWBAuTrmTim HbWBIRAuPRCost HbWBIRAuPRToll HbWBIRAUPRToll HbWRAUPrKCst HbWRAUPrKCst HbWRAUPrKCst HbWRAUPTROL	PnR Generalized Cost Transit Leg - Bus PnR Combined Skim Result - Bus Rail PnR Generalized Cost Transit Leg - Rail Raii PnR Combined Skim Result - Rail WCE PnR Generalized Cost Transit Leg WCE PnR Generalized Cost Transit Leg WCE PnR Combined Skim Result HbW BI Bus-Auto PR Cost HbW BI Bus-Auto PR Time HbW BI Bus-Auto PR Toll HbW Bus-Auto PR Terminal Time HbW BI Rail-Auto PR Cost HbW BI Rail-Auto PR Time HbW BI Rail-Auto PR Toll HbW Rail-Auto PR Terminal Time HbW BI Rail-Auto PR Terminal Time
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mf6921	HbWBlWAuWceIvttRail	HbW Bl WCE-Auto WCE Invehicle Time on Rail
mf6922	HbWBlWAuWceIvttBus	HbW Bl WCE-Auto WCE Invehicle Time on Bus
mf6923	HbWBlWAuWceWait	HbW Bl WCE-Auto WCE Waiting Time
mf6924	HbWBlWAuWceAux	HbW Bl WCE-Auto WCE Auxilliary Time
mf6925	HbWBlWAuWceBoards	HbW Bl WCE-Auto WCE Boardings
mf6926	HbWBlWAuWceFare	HbW Bl WCE-Auto WCE Fare
mf8000	24CBLg	Cross Border Light Trucks 24 Hrs
mf8001	AMCBLg	Cross Border Light Trucks AM
mf8002	MDCBLg	Cross Border Light Trucks MD
mf8003	PMCBLg	Cross Border Light Trucks PM
mf8010	24CBHv	Cross Border Heavy Trucks 24 Hrs
mf8011	AMCBHv	Cross Border Heavy Trucks AM
mf8012	MDCBHv	Cross Border Heavy Trucks MD
mf8013	PMCBHv	Cross Border Heavy Trucks PM
mf8020	IRLg99	IR Light Truck 1999 Survey Rat
mf8021	IRHv99	IR Heavy Truck 1999 Survey Rat
mf8022	IRLg24	IR LgTruck Daily Trips
mf8023	IRHv24	IR HvTruck Daily Trips
mf8024	IRLgAM	IR LgTruck AM Trips
mf8025	IRHVAM	IR HvTruck AM Trips
mf8026	IRLgMD	IR LgTruck MD Trips
mf8027	IRHyMD	IR HyTruck MD Trips
mf8028	IRLgPM	IR LgTruck PM Trips
mf8029	IRHvPM	IR HyTruck PM Trips
mf8030	PMV24	PMV24Hrs
	PMVAM	PMVAM
mf8031		PMVMD
mf8032	PMVMD	
mf8033	PMVPM	PMVPM
mf8040	APHy24	AP HyTrucks Daily Trips
mf8041	APHVAM	AP HvTrucks AM Trips
mf8042	APH-DM	AP HyTrucks MD Trips
mf8043	APHvPM	AP HvTrucks PM Trips
mf8050	RGLgAp	Rg LgTruck Peak Period AM
mf8051	RGHvAp	Rg HvTruck Peak Period AM
mf8052	RGLgMp	Rg LgTruck Peak Period MD
mf8053	RGHvMp	Rg HvTruck Peak Period MD
mf8054	RGLgPp	Rg LgTruck Peak Period PM
mf8055	RGHvPp	Rg HvTruck Peak Period PM
mf8060	RGLgFc	Rg Lg Truck Impedance
mf8061	RGHvFc	Rg Hv Truck Impedance
mf8062	RGLg24	Rg LgTruck Daily Trips
mf8063	RGHv24	Rg HvTruck Daily Trips
mf8064	RGLgAM	Rg LgTruck AM Trips
mf8065	RGLgMD	Rg LgTruck MD Trips
mf8066	RGLgPM	Rg LgTruck PM Trips
mf8067	RGHvAM	Rg HvTruck AM Trips
mf8068	RGHvMD	Rg HvTruck MD Trips
mf8069	RGHvPM	Rg HvTruck PM Trips
mf8080	LGVAM	LGV Truck Demand AM
mf8081	HGVAM	HGV Truck Demand AM
mf8082	LGVMD	LGV Truck Demand MD
mf8083	HGVMD	HGV Truck Demand MD
mf8084	LGVPM	LGV Truck Demand PM
mf8085	HGVPM	HGV Truck Demand PM
mf8100	SkimAmSovTimeVOT1	Skim AM SOV VOT1 Time
mf8101	SkimAmSovTimeVOT2	Skim AM SOV VOT2 Time
mf8102	SkimAmSovTimeVOT3	Skim AM SOV VOT3 Time
mf8103	SkimAmSovTimeVOT4	Skim AM SOV VOT4 Time
mf8104	SkimAmHovTimeVOT1	Skim AM HOV VOT1 Time
mf8105	SkimAmHovTimeVOT2	Skim AM HOV VOT2 Time
mf8106	SkimAmHovTimeVOT3	Skim AM HOV VOT3 Time
mf8107	SkimAmHovTimeVOT4	Skim AM HOV VOT4 Time
mf8108	SkimAmLgvTime	Skim AM LGV Time
mf8109	SkimAmHgvTime	Skim AM HGV Time
mf8110	SkimAmSovDistVOT1	Skim AM SOV VOT1 Dist
mf8111	SkimAmSovDistVOT2	Skim AM SOV VOT2 Dist
mf8112	SkimAmSovDistVOT3	Skim AM SOV VOT3 Dist
mf8113	SkimAmSovDistVOT4	Skim AM SOV VOT4 Dist
mf8114	SkimAmHovDistVOT1	Skim AM HOV VOT1 Dist
mf8115	SkimAmHovDistVOT2	Skim AM HOV VOT2 Dist
mf8116	SkimAmHovDistVOT3	Skim AM HOV VOT3 Dist
mf8117	SkimAmHovDistVOT4	Skim AM HOV VOT4 Dist
mf8118	SkimAmLgvDist	Skim AM LGV Dist
mf8119	SkimAmHgvDist	Skim AM HGV Dist

mf8120	SkimAmSovTollVOT1	Skim AM SOV VOT1 Toll
mf8121	SkimAmSovTollVOT2	Skim AM SOV VOT2 Toll
mf8122	SkimAmSovTollVOT3	Skim AM SOV VOT3 Toll
mf8123	SkimAmSovTollVOT4	Skim AM SOV VOT4 Toll
mf8124	SkimAmHovTollVOT1	Skim AM HOV VOT1 Toll
mf8125	SkimAmHovTollVOT2	Skim AM HOV VOT2 Toll
mf8126	SkimAmHovTollVOT3	Skim AM HOV VOT3 Toll
mf8127	SkimAmHovTollVOT4	Skim AM HOV VOT4 Toll
mf8128	SkimAmLgvToll	Skim AM LGV Toll
mf8129	SkimAmHgvToll	Skim AM HGV Toll
mf8130	SkimMdSovTimeVOT1	Skim MD SOV VOT1 Time
mf8131	SkimMdSovTimeVOT2	Skim MD SOV VOT2 Time
mf8132	SkimMdSovTimeVOT3	Skim MD SOV VOT3 Time
mf8133	SkimMdSovTimeVOT4	Skim MD SOV VOT4 Time
mf8134	SkimMdHovTimeVOT1	Skim MD HOV VOT1 Time
mf8135	SkimMdHovTimeVOT2	Skim MD HOV VOT2 Time
mf8136	SkimMdHovTimeVOT3	Skim MD HOV VOT3 Time
mf8137	SkimMdHovTimeVOT4	Skim MD HOV VOT4 Time
mf8138	SkimMdLgvTime	Skim MD LGV Time
mf8139	SkimMdHgvTime	Skim MD HGV Time
mf8140	SkimMdSovDistVOT1	Skim MD SOV VOT1 Dist
mf8141	SkimMdSovDistVOT2	Skim MD SOV VOT2 Dist
mf8142	SkimMdSovDistVOT3	Skim MD SOV VOT3 Dist
mf8143	SkimMdSovDistVOT4	Skim MD SOV VOT4 Dist
mf8144	SkimMdHovDistVOT1	Skim MD HOV VOT1 Dist
mf8145	SkimMdHovDistVOT2	Skim MD HOV VOT2 Dist
mf8146	SkimMdHovDistVOT3	Skim MD HOV VOT3 Dist
mf8147	SkimMdHovDistVOT4	Skim MD HOV VOT4 Dist
mf8148	SkimMdLgvDist	Skim MD LGV Dist
mf8149	SkimMdHgvDist	Skim MD HGV Dist
mf8150	SkimMdSovTollVOT1	Skim MD SOV VOT1 Toll
mf8151	SkimMdSovTollVOT2	Skim MD SOV VOT2 Toll
mf8152	SkimMdSovTollVOT3	Skim MD SOV VOT3 Toll
mf8153	SkimMdSovTollVOT4	Skim MD SOV VOT4 Toll
mf8154	SkimMdHovTollVOT1	Skim MD HOV VOT1 Tol1
mf8155	SkimMdHovTollVOT2	Skim MD HOV VOT2 Toll
mf8156	SkimMdHovTollVOT3	Skim MD HOV VOT3 Toll
mf8157	SkimMdHovTollVOT4	Skim MD HOV VOT4 Toll
mf8158	SkimMdLgvToll	Skim MD LGV Toll
mf8159	SkimMdHgvToll	Skim MD HGV Toll
mf8160	SkimPmSovTimeVOT1	Skim PM SOV VOT1 Time
mf8161	SkimPmSovTimeVOT2	Skim PM SOV VOT2 Time
mf8162	SkimPmSovTimeVOT3	Skim PM SOV VOT3 Time
mf8163	SkimPmSovTimeVOT4	Skim PM SOV VOT4 Time
mf8164	SkimPmHovTimeVOT1	Skim PM HOV VOT1 Time
mf8165	SkimPmHovTimeVOT2	Skim PM HOV VOT2 Time
mf8166	SkimPmHovTimeVOT3	Skim PM HOV VOT3 Time
mf8167	SkimPmHovTimeVOT4	Skim PM HOV VOT4 Time
mf8168	SkimPmLgvTime	Skim PM LGV Time
mf8169	SkimPmHgvTime	Skim PM HGV Time
mf8170	SkimPmSovDistVOT1	Skim PM SOV VOT1 Dist
mf8171	SkimPmSovDistVOT2	Skim PM SOV VOT2 Dist
mf8172	SkimPmSovDistVOT3	Skim PM SOV VOT3 Dist
mf8173	SkimPmSovDistVOT4	Skim PM SOV VOT4 Dist
	SkimPmHovDistVOT1	Skim PM HOV VOT1 Dist
mf8174		
mf8175	SkimPmHovDistVOT2	Skim PM HOV VOT2 Dist
mf8176	SkimPmHovDistVOT3	Skim PM HOV VOT3 Dist
mf8177	SkimPmHovDistVOT4	Skim PM HOV VOT4 Dist
mf8178	SkimPmLgvDist	Skim PM LGV Dist
mf8179	SkimPmHgvDist	Skim PM HGV Dist
mf8180	SkimPmSovTollVOT1	Skim PM SOV VOT1 Toll
mf8181	SkimPmSovTollVOT2	Skim PM SOV VOT2 Toll
mf8182	SkimPmSovTollVOT3	Skim PM SOV VOT3 Toll
mf8183	SkimPmSovTollVOT4	Skim PM SOV VOT4 Toll
mf8184	SkimPmHovTollVOT1	Skim PM HOV VOT1 Toll
mf8185	SkimPmHovTollVOT2	Skim PM HOV VOT2 Toll
mf8186	SkimPmHovTollVOT3	Skim PM HOV VOT3 Toll
mf8187	SkimPmHovTollVOT4	Skim PM HOV VOT4 Toll
mf8188	SkimPmLgvToll	Skim PM LGV Toll
mf8189	SkimPmHgvToll	Skim PM HGV Toll
mf9000	HbWLS11A0	HbW LogSum I1 A0
		THE TAX SAULT OF THE SAULT OF T
mf9001	HbWLSI1A1	HbW LogSum I1 A1
mf9002	HbWLSI1A1 HbWLSI1A2	HbW LogSum I1 A1 HbW LogSum I1 A2
	HbWLSI1A1	HbW LogSum I1 A1

mf9004	HbWLSI2A1	HbW LogSum I1 A1
mf9005	HbWLSI2A2	HbW LogSum I1 A2
mf9006	HbWLSI3A0	HbW LogSum I1 A0
mf9007	HbWLSI3A1	HbW LogSum I1 A1
mf9008	HbWLSI3A2	HbW LogSum I1 A2
mf9010	HbULS	HbU LogSum
mf9020	HbScLSA0	HbSc LogSum A0
mf9021	HbScLSA1	HbSc LogSum A1
mf9022	HbScLSA2	HbSc LogSum A2
mf9030	HbShLSI1A0	LogSum HbSh I1 A0
mf9031 mf9032	HbShLSI1A1 HbShLSI1A2	LogSum HbSh I1 A1
mf9032 mf9033	HbShLSI2A0	LogSum HbSh I1 A2 LogSum HbSh I2 A0
mf9034	HbShLSI2A1	LogSum HbSh I2 A1
mf9034	HbShLSI2A2	LogSum HbSh I2 A2
mf9036	HbShLSi3A0	LogSum HbSh I3 A0
mf9037	HbShLSI3A1	LogSum HbSh I3 A1
mf9038	HbShLSI3A2	LogSum HbSh I3 A2
mf9040	HbPbLSI1A0	HbPb LogSum I1 A0
mf9041	HbPbLSI1A1	HbPb LogSum I1 A1
mf9042	HbPbLSI1A2	HbPb LogSum I1 A2
mf9043	HbPbLSI2A0	HbPb LogSum I1 A0
mf9044	HbPbLSI2A1	HbPb LogSum I1 A1
mf9045	HbPbLSI2A2	HbPb LogSum I1 A2
mf9046	HbPbLSI3A0	HbPb LogSum I1 A0
mf9047	HbPbLSI3A1	HbPb LogSum I1 A1
mf9048	HbPbLSI3A2	HbPb LogSum I1 A2
mf9050	HbSoLSI1A0	LogSum HbSo I1 A0
mf9051	HbSoLSI1A1	LogSum HbSo I1 A1
mf9052	HbSoLSI1A2	LogSum HbSo I1 A2
mf9053	HbSoLSI2A0	LogSum HbSo I2 A0
mf9054	HbSoLSI2A1	LogSum HbSo I2 A1
mf9055	HbSoLSI2A2	LogSum HbSo I2 A2
mf9056	HbSoLSI3A0	LogSum HbSo I3 A0
mf9057	HbSoLSI3A1	LogSum HbSo I3 A1
mf9058	HbSoLSI3A2	LogSum HbSo I3 A2
mf9060	HbEsLSA0	HbEs LogSum A0
mf9061	HbEsLSA1	HbEs LogSum A1
mf9062	HbEsLSA2	HbEs LogSum A2
mf9070	NHbWLS NHbOLS	NHbW LogSum
mf9080 mf9100	P-AFrictionFact1	NHbO LogSum Trip Distribution Friction Factor 1
mf9101	P-AFrictionFact2	Trip Distribution Friction Factor 2
mf9102	P-AFrictionFact3	Trip Distribution Friction Factor 3
mf9103	P-AFrictionFact4	Trip Distribution Friction Factor 4
mf9104	P-AFrictionFact5	Trip Distribution Friction Factor 5
mf9105	P-AFrictionFact6	Trip Distribution Friction Factor 6
mf9106	P-AFrictionFact7	Trip Distribution Friction Factor 7
mf9107	P-AFrictionFact8	Trip Distribution Friction Factor 8
mf9108	P-AFrictionFact9	Trip Distribution Friction Factor 9
mf9200	Kij_hbw	Kij_hbw
mf9201	Kij_hbu	Kij_hbu
mf9202	Kij_hbsch	Kij_hbsch
mf9203	Kij_hbshop	Kij_hbshop
mf9204	Kij_hbpb	Kij_hbpb
mf9205	Kij_hbsoc	Kij_hbsoc
mf9206	Kij_hbesc	Kij_hbesc
mf9207	Kij_nhbw	Kij_nhbw
mf9208	Kij_nhbo	Kij_nhbo

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Matrix mo120	Ensemble ga_ensem	Name Not in use	Description  1:North Shore	
mo121	gb_ensem	Production geography and Time Slicing Zone	2:Burrard Peninsula 3:Richmond and YVR 4:South of Fraser 5:North of Fraser, East of Pitt River	
mo123	gd_ensem	Not in use		
mo124	ge_ensem	Metro Vancouver/Fraser Valley	15: Metro Vancouver 16: Fraser Valley 1: West Vancouver, Bowen Island 2: North Vancouver (City and District) 3: Downtown Vancouver 4: rest of Vancouver 5: Burnaby, New Westminster 6: Coquitlam, Port Moody, Port Coquitlam 7: Richmond, VVR	
		Sub Regional Group Zones(Similar with GY, except Fraser valley area)	8: South Delta, Ecological Area 9: North Surrey, North Delta	
mo125	gf_ensem	valuey area) This was used in the pre-2.2 days to model transit fare zones and add fares based on different OD pairs	3. Notin Sourcy, White Nock  11: Pitt Meadows, Maple Ridge  12: Langley(City and Township)  23: Mission, North of Fraser  24: Dewdney, Lake Errock, North of Fraser  25: Agassiz, Harrison, North of Fraser  26: Provincial Park, South of Fraser  27: Chilliwack  28: East/South Abbotsford  29: West/North Abbotsford	
mo126	gg_ensem	Major industrial activity areas		
mo127	gh_ensem	trip diary sampling zone groupings	1: Regular Zones	
mo128	gi_ensem gm_ensem	Park & Ride Facilities  Municipal Grouped Zones	1: Regular Zones 2: Part & Ridde Exchange Station 100:Bowen Island 101:Lions Bay 102:West Vancouver 103:District of North Vancouver 105:Shountain Area 106:City of North Vancouver 105:Mountain Area 107:Downtown Vancouver 108:Burnaby 110:New Westminster 111:Amnore 112:Belcarra 113:Port Moody 114:Coquitlam 116:Pitt Meadows 117:Maple Ridge 118:WYR 119:Richmond 120:Delta 121:Surrey 122:White Rock 123:City of Langley 124:Township of Langley 12 exist in 2011, 2016, 2035, and 2050	200:Mission 201:Abbotsford 202:Chillwack 203:North of Fraser 204:South of Fraser
mo133	gn_ensem	Park & Ride and exist year	1. Exist in 2011, 2023, and 2030 2: exist in only 2011 3: exist in 2016, 2035, and 2050 4: exist in 2035 and 2050	<b>1</b>
mo135	gp_ensem	Park & Ride Group Origin (Not in use)		2

Comments
I don't think this was ever really used, should have been quite similar, or the same as gb

This was the gb historically as it was 'land masses separated by regional \_bridges\_

Don't think this was ever used, maybe a leftover of some previous analysis

Census boundaries for the major CMAs, I think the numbering comes from the prefix on the CT level data

This was used in the pre-2.2 days to model transit fare zones and add fares based on different OD pairs

Used in the truck model to identify major industrial activity areas

This was recently updated with the trip diary 2017 50+ areas

Municipal Boundaries - Vancouver/VanCBD had historically be separate, YVR was pulled out of richmond this time around

We switched to accessibility measures in the pnr model, we used to explicitly control O-D per lot to avoid illogical trips, now unused)

mo137	gr_ensem	Park & Ride Group Destination (Not in use)		We switched to accessibility measures in the pnr model, we used to explicitly control O-D per lot to avoid illogical trips, now unused)
mo138 mo139	gs_ensem gt_ensem	Not in use Not in use		Long time ago, used to be the town centres (regional town centers, was never updated when the regional village centre designation was added) Used to be the old truck model enseble for control totals, unused
mo140	gu_ensem	Not in use	1: West Vancouver, Bowen Island 2: North Vancouver(City and District) 5: Burnaby, New Westminster 6: Coquitlam, Port Moody, Port Coquitlam 7: Richmond, VR 8: South Delta, Ecological Area 9: North Surrey, North Delta 10: South Surrey, White Rock 11: Pitt Meadows, Maple Ridge 12: Langley(City and Township) 13: Mission, North of Fraser 14: Abbotsford, Chiliwack and Provincial Parks 15: Park & Ride Zone 16: New Westminster	This a Phase 2 model development left over. It is basically gy with some additional Vancouver splitting. Should be eliminated
			22: Downtown Eastside 23: W 4th Avenue Corridor 24: West Vancouver 25: East Vancouver	
mo141	gv_ensem	Not in use (Similar with GY, except P&R Zone and University Land)		Similar to gu
		(Similar with GT, except P&R Zone and University Land)		
		Jamail With Gr, except Park Zone and University Land)	1: West Vancouver, Bowen Island 2: North Vancouver(City and District) 3: Vancouver 4: Burnaby 5: New Westminster 6: Coguitlam, Port Moody, Port Coquitlam 7: Richmond, VVR	
mo143	gx_ensem	School District	2: North Vancouver(City and District) 3: Vancouver 4: Burnaby 5: New Westminster 6: Coguitlam, Port Moody, Port Coquitlam 7: Richmond, VVR 8: Delta 9: Surrey, White Rock 10: Pitt Meadows, Maple Ridge 11: Langley(City and Township) 12: Mission 13: North of Fraser 14: Abbotsford 15: Chilwack and Provincial Parks 1: West Vancouver, Bowen Island 2: North Wancouver (Disy and District) 3: Downtown Vancouver 4: rest of Vancouver	
mo143	gx_ensem gy_ensem		2: North Vancouver(City and District) 3: Vancouver 4: Burnaby 5: New Westminster 6: Coguitlam, Port Moody, Port Coquitlam 7: Richmond, VVR 8: Delta 9: Surrey, White Rock 10: Pitt Meadows, Maple Ridge 11: Langley(City and Township) 12: Mission 13: North of Fraser 14: Abbotsford 15: Chillwack and Provincial Parks 1: West Vancouver, Bowen Island 2: North Vancouver, Bowen Island 1: Chillwack and Provincial Parks 1: West Vancouver, Gly and District) 3: Downtown Vancouver (City and District) 5: Durnaby, New Westminster 6: Coquitlam, Port Moody, Port Coquitlam 7: Richmond, VVR 8: South Delta, Ecological Area 9: North Surrey, White Rock 11: Pitt Meadows, Maple Ridge 12: Langley(City and Township) 13: Mission, North of Fraser	Correct, this was a pretty common level to summarize regional O-D info going far back histroically
		School District	2: North Vancouver(City and District) 3: Vancouver 4: Burnaby 5: New Westminister 6: Coquitlam, Port Moody, Port Coquitlam 7: Richmond, YVR 8: Delta 9: Surrey, White Rock 10: Pitt Meadows, Maple Ridge 11: Langley(City and Township) 12: Mission 13: North of Fraser 14: Abbotsford 15: Chillwack and Provincial Parks 1: West Vancouver, Bowen Island 2: North Vancouver(City and District) 3: Downtown Vancouver 4: rest of Vancouver 5: Burnaby, New Westminster 6: Coquitlam, Port Moody, Port Coquitlam 7: Richmond, VyR 8: South Delta, Ecological Area 9: North Surrey, White Rock 11: Pitt Meadows, Maple Ridge 11: Langley(City and District) 10: South Surrey, White Rock 11: Pitt Meadows, Maple Ridge 12: Langley(City and Township)	Correct, this was a pretty common level to summarize regional O-D info going far back histroically  A mapping back to the (ancient) 641 zone numberin sustem the currnet zones were split from, the 1741 wasn't a pure subset of the 641 in all places, so this isn't an exact lookup (also rea