

Traffic Capacity for a High Speed Railway between Gothenburg and Borås

Master of Science Thesis in the Master's Programme Geo and Water Engineering

YLVA HÖGLUND

Department of Civil and Environmental Engineering Division of GeoEngineering Road and Traffic Research Group

CHALMERSUNIVERSITY OF TECHNOLOGY Gothenburg, Sweden 2011 Master's Thesis 2011:138

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Examensarbete/Institutionen för bygg- och miljöteknik, Chalmers tekniska högskola 2011:138

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Cover:

A part of the graphic timetable for US3,see whole report and especially chapter 9.

Chalmers reproservice/ Department of Civil and Environmental Engineering Gothenburg, Sweden 2011

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ABSTRACT

This master thesis investigates the part of the suggested high speed railway that might go between Gothenburg and Borås. The focus is on the suggested traffic load on the section from the Swedish Transport Administration (4 suggestions) and the local public transport company Västtrafik (2 suggestions). The thesis will answer questions as how the train traffic can be organized, how the commuter traffic impact the other types of trains and if the suggested infrastructure is enough for the suggested traffic load on this section. This has been done by studying relevant reports and calculations in excel. From the reports and the calculations, timetables have been made for comparisons between the different suggestions. The result contains ten timetables in each direction with different traffic loads and infrastructure. These timetables have been compared with each other to see which ones are the best to use in reality. Of all the suggestions, the alternative called US3 is the best one. One of the critical reasons is that the slow commuter trains have their own track part of the section. One of the suggestions from Västtrafik was better the US3 but since the difference in clarity of the in-data, the suggestions from the Swedish transport Administration have been investigated more thoroughly and are therefore more reliable.

Keywords: High speed railway, Sweden, Gothenburg, Borås, traffic planning, public transport, Götaland line.

Contents

ABSTRACT	Ι
CONTENTS	III
APPENDIX	IV
NOTATIONS	V
GLOSSARY	V
1 INTRODUCTION	1
1.1 Problem identification	2
1.2 Aim	2
1.2.1 Goals	2
1.3 Method	3
1.4 Delimitations	3
1.5 Outline	3
2 THE SWEDISH HIGH SPEED PROJECT	5
3 THE RAILWAY SECTION TODAY BETWEEN GOTHENBU BORÅS	RG AND 6
4 DIFFERENT SCENARIOS FOR THE HIGH SPEED TRAIN PROJEC	CT 7
4.1 US1	8
4.2 US2	8
4.3 US3	8
4.4 US4	9
5 THE RAILWAY INFRASTRUCTURE IN THE HIGH SPEED PROJE	ECT 10
6 TRAINS ON THE HIGH SPEED TRACK	12
6.1 Basic calculations for the trains travel time	14
7 TRAIN TRAFFIC ON THE HIGH SPEED RAILWAY	17
7.1 Travel time	17
7.2 Traffic frequency alternatives	24
7.3 Timetables	27
8 RESULT	29
9 ANALYSIS	40

10	DISCUSSION	47
11	CONCLUSION	49
12	FURTHER STUDIES	50
13	REFERENCES	51

Appendix

Appendix 1: Emails and information from Markus Gunnervall Appendix 2: Calculations of travel time Appendix 3: K2020 - Local

Appendix 4: Graphic timetables

Appendix 5: Timetables (tables)

Notations

Bs	Borås
СТ	Commuter train
CtC	Coast-to-coast train
Gbg	Gothenburg
HST	High speed train
LRT	Large regional train
STA	Swedish Transport Administration
a	Acceleration/Retardation
S	Distance
t	Time
V	End Velocity
v ₀	Start velocity
k _{acc}	Acceleration/retardation change depending on velocity constant
t/d	Trains per day
t/h	Trains per hour
ph	Peak hour

Glossary

English-Swedish	
Gothenburg	Göteborg
Götaland Line, the	Götalandsbanan
Investigation scenario	Utredningsscenario
Region Västra Götaland	Västra Götaland regionen
Swedish Transport Administration	Trafikverket
Swedish-English	
Götalandsbanan	Götaland Line, the
Göteborg	Gothenburg
Trafikverket	Swedish Transport Administration
Västra Götaland regionen	Region Västra Götaland
Utredningsscenario	Investigation scenario

1 Introduction

How a high speed railway system can be designed in Sweden has been investigated by the Swedish Transport Administration and they have come up with four major designs. The designs have different focuses and therefore different infrastructure, trains and traffic frequency alternatives. The largest differences between the scenarios are the national or the regional transport needs and if the system is integrated or separated from the old railway lines. On the section Gothenburg-Borås the different designs will have different effects. The high amount of commuters in both directions makes this a unique part of the railway system and should therefore be investigated further.

The part of the high speed railway that the section Gothenburg-Borås belongs to is the Götaland line that goes between Stockholm and Gothenburg (Trafikverket, 2010). This section, Gothenburg-Borås, is the slowest large city railway connection in Sweden according to the West Swedish Chamber of Commerce with a mean velocity of 69 km/h. The only other connection that has a slower connection is between Borås and Jönköping but there are no direct connections, transfer is needed. This can be compared to the two large city connections that today that have more commuters than Gothenburg-Borås; Uppsala-Stockholm and Malmö-Lund. The travelling time between these connections are 140 km/h between Stockholm and Uppsala and 126 km/h between Malmö and Lund (Gustavsson, 2011). This is a large problem for the railway and the environment because the incentives to choose the railway over the road decrease when the railway is not as efficient as the road.

The high speed railway differs from conventional rail and some of those differences can be seen in Table 1.1.

a su						
	Conventional railway	High speed railway				
Definition	Upgraded or newly built track for passenger and freight trains	Newly built track designed for fast passenger trains				
Turch	Variable radius Large minin radius					
Track geometry	Small inclusions (<1 %)	Major inclusions can be accepted				
Maximum velocity	200-250 km/h (with or without carriage tilt)	250-350 km/h (carriage tilting get a small effect on straight paths)				
Mean velocity	120-160 km/h	200-250 km/h				
Train type	Fast trains Local and regional trains Light and heavy freight trains	High-speed trains, Fast regional trains, Fast and light freight trains				
Level crossing: Road/Railway	Occur	Are not accepted on the line				

Table 1.1 The difference between common rail and high speed rail (Frihiof, Claesson,
& Salomonsson, 2010)

1.1 Problem identification

How can the traffic on the new railway be organized and the commuting be managed between Gothenburg and Borås in the future?

1.2 Aim

The aim is to see how the traffic flows between Gothenburg and Borås can be organized after the new railway, Götaland line, has been built. The report will look at how trains with different speed capacity will affect each other.

1.2.1 Goals

The reports goal is to make timetables for the different suggestions for the section Göteborg-Borås and see which of these alternatives that is best.

1.2.1.1 Research questions

How can the train traffic be organized? How do the commuter trains impact the other types of trains? What will the traffic load be on the section during a workday? Is the suggested infrastructure enough?

1.3 Method

The research for this was mainly performed by studying reports and analysing the content. Simulations were also performed to study different scenarios. The simulations were calculated and made in Excel. The analyses have been done by comparing the different outputs from the simulations.

1.4 Delimitations

This master thesis will not examine infrastructural solutions. The different sections that will be examined are the ones that the Swedish Transport Administration has developed in the "Höghastighetsutredningen" and suggestions from the local public transport company Västtrafik. When constructing timetables the directions to and from Gothenburg will not be connected or affected by each other. The cost will not be examined thoroughly and will not be a base for the comparisons made. Two other factors that have not been included in this analysis is the maintenance and how fast delays would grow in the system and both these questions are very important to make the train traffic work in reality.

1.5 Outline

A short presentation of what the Chapters in the report will contain.

1 Introduction

The problem identification and the aim of this thesis are presented. The aim includes some research questions that the thesis is going to answer.

2 The Swedish high speed project

Both the national plan and the regional plan for the high speed project and the project to lower emissions will shortly be presented.

3 The railway section today between Gothenburg and Borås

The current traffic and infrastructure state is presented and why a new railway is needed.

4 Different scenarios for the high speed train project

The four different scenarios proposed by the Swedish Transport Administration are presented and the focus is on the section Gothenburg-Borås.

5 The railway infrastructure in the high speed project

The infrastructure that will be used in the calculations will be presented, as well as the other suggestions for the layout.

6 Trains on the high speed track

The different train types that operate on the track between Gothenburg and Borås are presented with their specific properties.

7 Train traffic on the high speed railway

Here are the bases of the actual timetables. To get the timetables, the travel time, the traffic frequency alternatives and the basic timetable structure needed and those are presented here.

8 Results

The results of the calculations and resulting timetables are presented, mostly in text. Associated with the text are there Appendixes that contains graphic and table timetables (appendix 4 and 5).

9 Analysis

The resulting timetables are analysed to be able to determine which of the scenarios for the section Göteborg-Borås is the preferred choice.

10 Discussion

The results and analysis are discussed where for example sources of errors are discussed.

11 Conclusions

The best alternative is declared and why.

12 Further studies

I recommend further studies for the future. Both, areas I have excluded and further deepening of my results.

2 The Swedish high speed project

In the beginning of 2011, the Swedish Transport Administration released a report that investigates the potential for high speed trains in Sweden. In the report four scenarios are investigated, see Figure 2.1. The scenarios include, traffic, infrastructure, cost benefit and construction costs, among other things. High speed trains have been suggested to increase the railway capacity and competitiveness against cars and airplanes. To move the traffic from the roads and the air to rail is a step in the national plan to lower the emissions of greenhouse gases (Trafikverket, 2010). As a step towards the national goal, Västra Götaland region has developed a plan to increase the use of public transport and thus lowering the emissions from cars. The project is called K2020 and its goal is that the public transport in the region will account for 40 % of all journeys in 2025. In 2005, the public transport journeys amounted for 20 % of the total volume of journeys in the Gothenburg region (K2020 Framtidens kollektivtrafik i Göteborgsområdet, 2008) and the market share for public transport was 10-12% over the municipality border. The project K2020 also aims to strengthen the region and the Götaland Line is an important step in linking the two largest labour markets in the western part of Sweden, Gothenburg and Borås. To construct the railway between Gothenburg and Borås is also a step in the process of making Gothenburg and Landvetter airport important traffic nodes for people and as well as for goods. (Frihiof, Claesson, & Salomonsson, 2010).

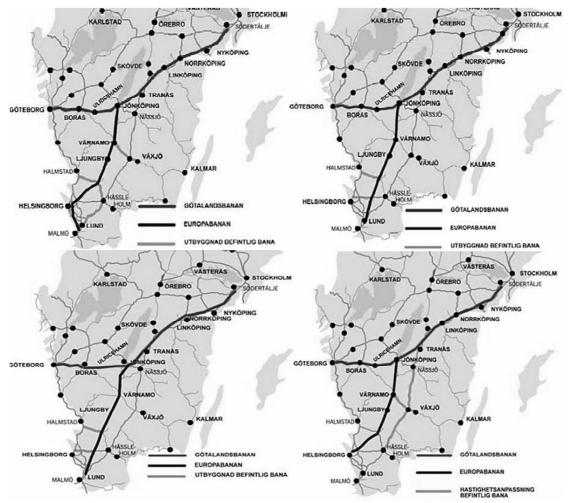


Figure 2.1. An approximated layout of the four scenarios from the Swedish Transport Administration, first row: US1, US2, second row: US3, US4. (Trafikverket, 2010)

CHALMERS, Civil and Environmental Engineering, Master's Thesis 2011:138

3 The railway section today between Gothenburg and Borås

The section between Gothenburg and Borås has today 9.5 million travellers per year, counting all traffic modes. This makes it the relation in Sweden with the third heaviest traffic load. This section is also the part of the Götaland Line which has the largest travel market on the whole line. (Frihiof, Claesson, & Salomonsson, 2010) The only commuter distances with heavier traffic loads are Lund-Malmö and Uppsala-Stockholm.¹The relation between Gothenburg and Borås is unique in the Swedish railway system. This is due to the high amount of commuters in both directions, in contrast with the other commuter relations in the Gothenburg region, where the traffic load is in a much greater extent is in one direction². In 2010, there were 54000 trips, both with car and public transport between Gothenburg and Borås. (Frihiof, Claesson, & Salomonsson, 2010)

Today there is no good way to travel by train between Gothenburg and Borås. Figure 3.1 shows the railway track between the two cities, which today is a single track with low capacity (Västtrafik, 2004). The majority of the section has a speed limit of less than 100 km/h³. The suggested new railway coincides with the national highway 40 (Trafikverket, 2010). According to National Institute for Transport analysis (Statens institut för kommunikationsanalys, SIKA, 2009), rail projects that coincide with major national ways are better from a national economic point of view because the major highways coincides more with the inhabitants' routes than the existing railways are doing. This is due to that the car have been the primary mode and the roads have therefore been constructed in the path people want to travel more so than railways.



Figure 3.1 The railway and road between Gothenburg and Borås 2011 (© Lantmäteriverket, 2008)

¹ Sterky, Patrik 2011. Ramböll

² Sterky, Patrik 2011. Ramböll

³ Sterky, Patrik 2011. Ramböll

4 Different scenarios for the high speed train project

In the report from the Swedish Transport administration there are four different scenarios for the implementation of the high speed railway. A scenario is defined by that it has an infrastructure, trains and a traffic frequency alternative, see Figure 4.1. The scenarios are called US1, US2, US3 and US4 where US stands for investigation scenario (*in Swedish utredningsscenario*). What the different scenarios contains, especially in relation to the section Gothenburg-Borås, will be presented below. All the layouts can be seen in Appendix 1.

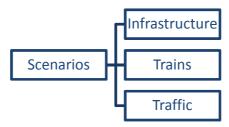


Figure 4.1. The different parts a scenario have to contain to be a scenario.

In scenario US1, US2 and US3 the new track will be designed for a top speed of 320 km/h. The high speed trains will only operate on the high speed railway while the large regional trains either only operates on the high speed railway or both on the new and the old track. The restriction on the new high speed railway is that the trains that travel on it have to be able to travel at a minimum speed of 250 km/h. As a result, new region trains have to be bought or the existing trains have to be upgraded, because their capacity today is too low. In scenario four the new track is designed for a top speed of 250 km/h (Trafikverket, 2010).

The difference between the US scenarios lies on the wanted market. This translates to that in US1 there are a lot of trains that travels far and fast, high speed trains and large regional trains while in US2 there are more coast-to-coast trains. The reason for more coast-to-coast trains in US2 is because here the idea is that there are slower traffic to the larger nodes in the systems where the passenger can change to faster trains unlike US1 where an objective is that it should be possible for as many as possible to reach Stockholm without having any transits. In US3 are there are more large regional trains than in any other US scenarios and that is because the market in not only the end point market or on the local market, but on all the large cities along the line. US4 is the scenario that differs most among the US scenarios because in this alternative there are no high speed trains at all, the fastest trains have a top speed of 250 km/h. The wanted market for US2 is the regional market and even though there are a lot of high speed trains and large regional trains in this alternative, they are slower than in the rest of the alternatives. (Trafikverket, 2010)

4.1 US1

The main goal for this scenario is to connect as many counties to Stockholm as possible and that have led to, for instant, that the stations are located at the central parts and not in the outskirts of the towns. This will result in a lot of access points between the new railway and the old one, to enable as many direct travels as possible. The track will be design for 320 km/h which will result in a travel time between Gothenburg and Stockholm of 2 hours and 2.5 hour between Malmö and Stockholm. The traffic load on the new high speed rail will be high and the surrounding railway will also have an increased traffic. The high speed trains will have few stops between the large cities. The large regional trains are arranged in the same way but they will have more stops.

The separation of train types will have some exceptions, for example between Gothenburg and Borås where all trains, with different speeds, will share the same track. The new track between Gothenburg and Borås will amount in new stations and the closing of old stations. The station in Mölnlycke will remain and the station in Bollebygd will be moved to Kråktorp, while the stations in Sandared and Rävlanda will be closed and a new station will be built under Landvetter airport. The old railway will mainly be used for freight trains instead. (Trafikverket, 2010)

4.2 US2

The high speed network is more separated in US2 than in scenario US1. This mean that the trains from the surrounding railways do not continue on the high speed rail but stops at transit points where passengers can change to the high speed train or other large regional trains or commuter trains. One example is that the coast-to-coast train that goes from Karlskrona or Kalmar to Gothenburg will no longer be a direct train but the passengers will have to change trains in Borås. It is assumed in this report, that the coast-to-coast train to and from Kalmar, will have the same properties both east and west of Borås. As in US1 the travel time Stockholm-Gothenburg will be two hours and the high speed trains will have few stops while the large regional trains have more stops. The large regional trains will not travel the entire distance, instead, the large regional trains will be feeder traffic on the high speed network. There are fewer direct trains and more transit points in this scenario compared to US1. (Trafikverket, 2010)

4.3 US3

In scenario US3, the focus is on the end point markets, Gothenburg and Stockholm. As a result, the stations in the intermediate cities will be placed outside the city and the public transport in those cities will be feeder traffic to the high speed rail. Some cities will get passed, for example Borås. Borås will have a bypass track and in order to get to the station, the trains have to change from the main line to the track that goes in to the station in the city. In this scenario it is not possible to travel with high speed trains from Stockholm or Gothenburg to Jönköping without a change of trains. The coast-to-coast trains do continue after Borås (in direction to Gothenburg) but will use the old track between Borås and Landvetter. Even though there is no direct travel between Gothenburg and Stockholm the travel time will only be 1 hour and 51 minutes. (Trafikverket, 2010)

4.4 US4

US4 is the most integrated of the four scenarios, where the focus lies on the regional expansion instead of the end point market. The infrastructure for the Götaland Line, that is to say also for Gothenburg-Borås, is the same as in US1. The large regional trains will traffic the section between Gothenburg and Borås but unlike the three earlier scenarios, the trains do not contusions to Jönköping. The main difference between this scenario and the three others is that it is not a true high speed suggestion, the fastest trains have a top speed of 250 km/h and the large regional trains have 200 km/h. (Trafikverket, 2010)

5 The railway infrastructure in the high speed project

The train travelling distance between Gothenburg and Borås depend on the layout that in turn depends on what stations there will be and how they are placed in relation to the main line. The Swedish Transport Administration has developed four national plans for how the high speed railway could be design. Although the infrastructure differs a lot between the different scenarios on the national level, the infrastructure between Gothenburg and Bo8rås is almost the same for the four proposed designs. It can be seen in Figure 5.1 that Mölnlycke and Bollebygd has bypass tracks. Faster trains could drive pass the slower trains that stops but in Sweden this is not common and not recommended⁴. In the calculation, these stations are seen as the all the other stations on the line, trains that stops are not over taken by other trains.

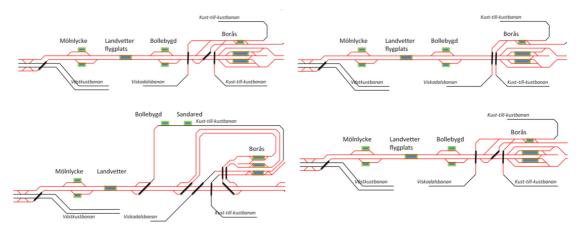


Figure 5.1 The suggested infrastructure between Gothenburg and Borås. First row: US1, US2. Second row: US3, US4. (Trafikverket, 2010)

Only scenario three differs significantly compared to the other scenarios. The main difference is the station in Borås. In scenario three the station is outside the main line while in the other scenarios, the railway goes through Borås (Trafikverket, 2010). Another difference is the layout between Bollebygd and Borås where the old track is used in addition to the new.

The communities with stops are the same for all the scenarios from the Swedish Transport Administration. The local public transport company, Västtrafik, have developed their own plan where there are two additional stations, Mölndal and Landvetter S, see Appendix3. To simplify the comparison of the different traffic suggestion, only two different alternatives are used from the Swedish Transport Administration, US1 and US3, Figure 5.2. That means that some of the infrastructure for scenario three is not included in the comparison as the old stations, Sandared and Rävlanda. The difference between US1 and US3 that is used in the calculations is that between Bollebygd and Borås do the commuter train use the old track, the old track is assumed to be as long as the new railway.

⁴ Sterky, Patrik 2011. Ramböll

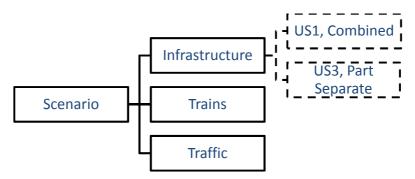


Figure 5.2. A scenario must contain an infrastructure, which can be either US1 Combined or US3 Part Separate, trains and a traffic frequency alternative.

In Gothenburg the infrastructure varies as well depending if the trains go in the old tunnel or the new one, the Western link. These tunnels give a length difference of one kilometre between the infrastructures. The distance between the two cities depend on the amount of stations and the trains' path in Gothenburg, see Figure 5.3. This difference is in all the scenarios and only depends on the type of trains and not the scenario.

The infrastructural variation used in the calculations:

- 65 km, the trains going through Western link and have stations as planned by the Swedish Transport Administrations.
- 64 km, the trains do not go through Western link and have stations as planned by the Swedish Transport Administrations.

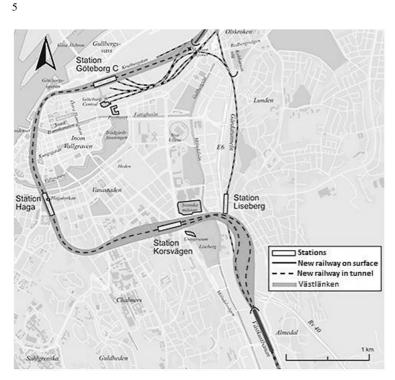


Figure 5.3 The railway lay out in Gothenburg. The high speed trains and coast-tocoast goes in the eastern tunnel and the commuter trains and large regional trains go in the new tunnel Western link (Trafikverket, 2011).

⁵ Gunnervall, Markus 2011. Trafikverket. See Appendix 1

6 Trains on the high speed track

In the calculations preformed, four kinds of trains have been used:

- High speed train (HST), between Stockholm and Gothenburg.
- A large region train (LRT), between Gothenburg and Jönköping.
- Regional train (CT), between Gothenburg and Borås.
- Coast-to-Coast train (CtC), between Gothenburg and Kalmar.

(Trafikverket, 2010)

Table 6.1The properties for the different trains on the railway between Gothenburg and Borås and the assumed properties for the coast-to-coast train (Transitio, 2010)

	HST	LRT	СТ	CtC
Maximum velocity [km/h]	320	250	200	200
Start acceleration [m/s ²]	0,7	0,5	0,7	0,5
Acceleration at 200 km/h [m/s ²]	0,3	0,2	0,05	-
Retardation [m/s ²]	0,6	0,6	0,8	0,6

The properties for the trains are obtained from Markus Gunnervall from the Swedish Transport Administration except for the properties for the Coast-to-Coast trains that are assumed to be slower large region trains where the properties have been taken from the train model X50-3, a so called intercity train. If the minimum acceleration for the trains is set to 0.1 m/s^2 , the maximum velocity will be change and the new maximum velocity can be seen in Table 6.2.

Table 6.2 The new maximum speed if there is a restriction of the minimal acceleration (0.1 m/s^2) for the different train types⁶

	HST	LRT	СТ	CtC
Maximum velocity [km/h]	300	267	182	171

To take into account some of the uncertainties of the input in the calculation and the behaviour of the driver, an addition of 3 $\%^7$ have been added to every sections' travel time.

The acceleration is not constant and by only knowing two values for each train type the assumption is made that the acceleration is linear. In Figure 6.1the function for the acceleration is illustrated.

⁶ Sterky, Patrik 2011. Ramböll

⁷ Sterky, Patrik 2011. Ramböll

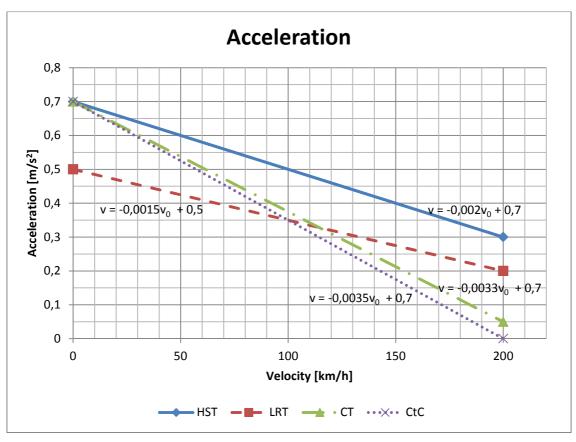


Figure 6.1 The relationship between acceleration and velocity and the equation for the acceleration for the different train types. The tilts of the graphs are presented in Table 6.3.

Table 6.3. The k_{acc} *is the change of the acceleration depending on velocity.*

Train	<i>k</i> _{acc}
High speed train	0,002
Large regional train	0,0015
Coast-to-coast	0,0035
Commuter train	0,0033

The types of trains used are the same in the different scenarios except that in scenario US4. In scenario four the acceleration properties are the same but the maximum speed are lower for the high speed train and for the large regional train, Table 6.4.⁸ The different groups of trains used in the calculations are either the fast trains where the high speed trains have a maximum speed of 320 km/h or the slow trains from US4, where the high speed trains have a maximum speed of 250 km/h, Figure 6.2.

⁸ Gunnervall, Markus 2011. Trafikverket. See Appendix 1

	HST	LRT	CT	CtC
Maximum velocity [km/h]	250	200	200	200

Table 6.4. The maximum speed for the trains in scenario US4.

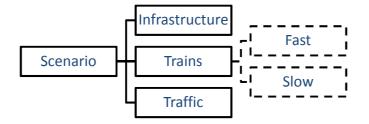


Figure 6.2. A scenario must contain an infrastructure, trains, which can be either fast train with a high speed train with maximum speed 320 km/h or slow trains with a high speed train with maximum speed 250 km/h and a traffic frequency alternative.

6.1 Basic calculations for the trains travel time

To be able to calculate the time it takes for a train to travel between Gothenburg and Borås the section have been divided into part sections, which are defined by the speed limit and/or the location of a station. Each section part is in turn divided into acceleration, retardation and constant velocity distances. The time it takes for the train to travel when the velocity is constant is calculated by equation (6.1)

$$t = \frac{s}{v} \tag{6.1}$$

The distance when the trains have a constant velocity is calculated by subtracting the acceleration distance and retardation distance from the total section part. To calculate the acceleration and retardation section equation (6.2) is used.

$$s = \frac{v^2 - v_0^2}{2 \cdot a} \tag{6.2}$$

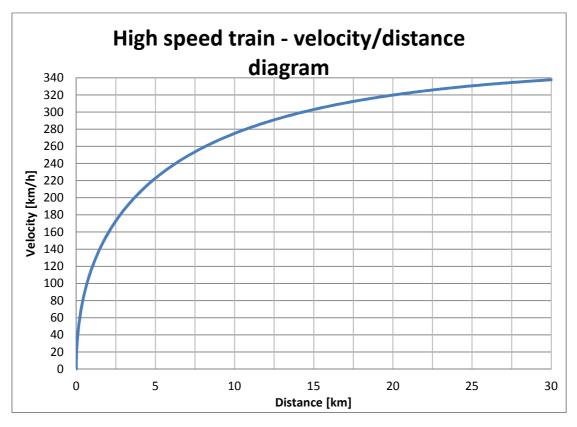
s = distance

v =final velocity

 v_0 = initial velocity

 $a = \text{acceleration/retardation} = a_{start} - k_{acc} \cdot \left(\frac{v + v_0}{2}\right)$

 k_{acc} =the slope of the acceleration equation, see Figure 6.1 and Table 6.3

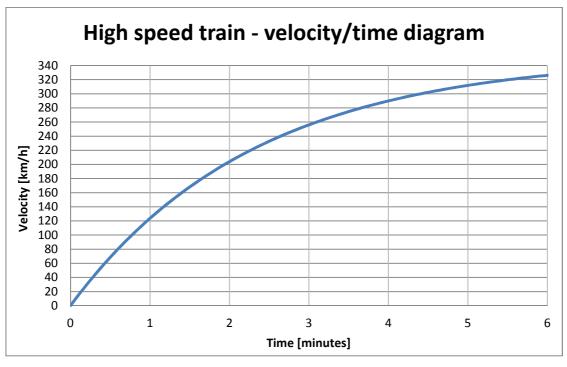


Another way to calculate the acceleration length is to use Figure 6.3 and with start and end velocity get the specific distance.

Figure 6.3 The relationship between velocity and distance.

To calculate the time for acceleration and retardation, the same equation, equation (6.1), is used as when calculating the time for the constant velocity distance. The velocity used is the mean velocity, equation (6.3).

$$\bar{v} = \frac{v + v_0}{2} \tag{6.3}$$



The acceleration time can be found in the same kind of diagram as the acceleration length, Figure 6.4.

Figure 6.4The relationship between time and velocity.

Due to the acceleration and retardation distances and the change of speed limits and stations, the trains are not always capable to reach the set speed limits but have to start decelerate before.

7 Train traffic on the high speed railway

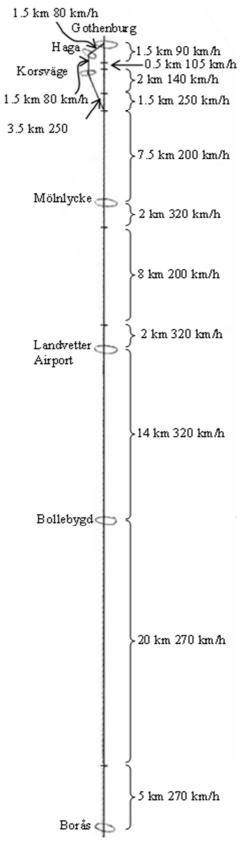
One way to evaluate the train traffic on the high speed section between Gothenburg and Borås for the different scenarios is to compare their different timetables. To construct the timetables, both travel times and traffic frequency alternatives are needed.

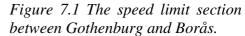
Travel time for the different train types have a large impact on the overall flow of the traffic. To calculate the travel time, the different train types' acceleration, retardation and velocity properties are used as well as the duration time at stations. The different trains have different stops. The high speed trains always stop in Gothenburg and one of the high speed train types stops in Borås while the others do not. The large regional trains always stop in Gothenburg and Borås and the coast-to-coast trains have an additional stop at Landvetter airport. The commuter trains have the largest amount of stops and stop in Gothenburg, Haga, Korsvägen, Mölnlycke, Bollebygd and Borås. As mentioned Chapter5, in the infrastructure in Gothenburg varies, the high speed trains and coast-to-coast trains goes in the old tunnel while the large regional trains and commuter trains goes in the new one, Western link. The different speed limits also affects the travel time, see Figure 7.1, especially for the trains that could higher speed capacity. Besides the travel times, the amount of trains per day and hour are needed as well as the amount and frequency of the different train types. This is in the Subchapter Traffic frequency alternatives below.

7.1 Travel time

When calculating the travel time for the different types of trains, the velocity for every section had to be calculated and due to the acceleration and deceleration the maximum speed could not be obtained for every part section. On the next page, some of the travel times are presented and all the times can be found in Appendix 2.

The travel time have been calculated for the infrastructure that the Swedish Transport Administration has suggested in their report. There are several different combinations of travel times that have been calculated, as seen in





Appendix 2. Each train type has two top speeds that generate different times and some of the train types can have different stations. In total there are 16 different combinations of travel times between Gothenburg and Borås and equally as many in the opposite direction. All these sixteen travel times have been calculated in two different ways where the main difference is how the acceleration is calculated.

The first method use the acceleration calculated with the mean velocity for the specific part section. In the second method a table is used to get the length and time for each section. As explained in Chapter6, the distance to come to the start speed and the length it takes to come to the end speed is withdrawn from the total length of the section part. The lengths are calculated with the same equation, as in method one, but in steps of 5 km/h instead of using the mean velocity for the whole section. The different travel times for US1, US2 and US3 are presented in Table 7.1 and Table 7.2.

Table 7.1 The travel time Gothenburg-Borås and Borås-Gothenburg for the different trains for the given maximum velocity. Calculated with the mean acceleration.

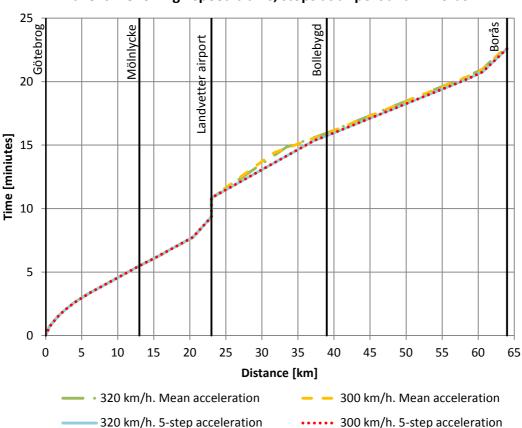
Train type	v _{max} [km/h]	Difference	Travel time Gothenburg– Borås [minutes]	Travel time Borås– Gothenburg [minutes]
HST	320	Stop at airport and Borås	22.81	22.65
		Stop in Borås	18.84	19.11
		No stops	17.93	17.95
	300	Stop at airport and Borås	22.78	22.67
		Stop in Borås	18.93	19.16
		No stops	18.01	17.99
LRT	250	Stop at airport	25.17	24.84
		No stop at airport	21.12	21.03
	267	Stop at airport	24.84	24.45
		No stop at airport	20.43	20.59
СТ	200	All stops	31.71	31.71
	182	All stops	33.07	33.07
CtC	200	Stop at airport	25.81	25.83
		No stop at airport	22.15	22.17
	171	Stop at airport	28.27	28.04
		No stop at airport	25.07	25.09

Table 7.2The travel time Gothenburg-Borås and Borås-Gothenburg for the different trains for the given maximum velocity. Calculated with 5 step acceleration.

Train type	v _{max} [km/h]	Difference	Travel time Gothenburg– Borås [minutes]	Travel time Borås– Gothenburg [minutes]
HST	320	Stop at airport and Borås	22.60	22.44
		Stop in Borås	19.04	18.99
		No stops	18.13	17.92
	300	Stop at airport and Borås	22.60	22.47
		Stop in Borås	19.09	19.05
		No stops	18.15	17.98
LRT	250	Stop at airport	24.88	23.66
		No stop at airport	21.03	20.21
	267	Stop at airport	24.52	23.21
		No stop at airport	20.58	19.85
СТ	200	All stops	32.79	39.29
	182	All stops	33.79	37.12
CtC	200	Stop at airport	25.93	30.94
		No stop at airport	22.35	25.76
	171	Stop at airport	28.17	29.69
		No stop at airport	25.09	27.41

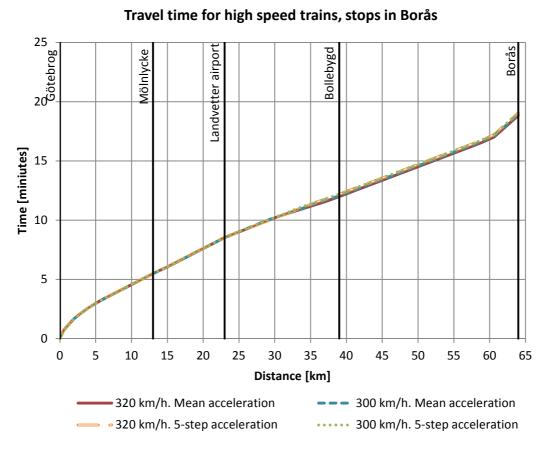
The only trains that stop at every station are the commuter trains. The other types of trains either have a stop at the airport or not, except the high speed train that in addition also have the option to not stop in Borås. The stop in Gothenburg and Borås is not included in the calculated travel time while all the intermissions in the intermediate stations are. The CT stops for 40 seconds at every stations except at the airport where it stays for one minute, this have been done because it can be expected that the average passenger to and from the airport have more luggage than at the other stations and therefore more time to get on and off the train is necessary. That the duration time is greater for the other trains than for the CT depends on the assumption that more passengers from a larger region can travel with these trains and that there are fewer stops so the amount of passengers getting off at the same stop is greater.

As seen in Figure 7.2, what affect the travel time the most is not whether or not the top speed is 320 km/h or if the acceleration is calculated with mean velocity or in five km/h steps. The largest effect on the travel time is the amount of stops on the way, and not the maximum speed for the train.



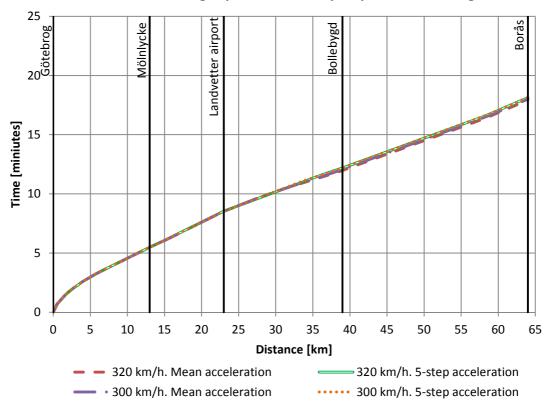
Travel time for high speed trains, stops at airport and in Borås

A)



C)







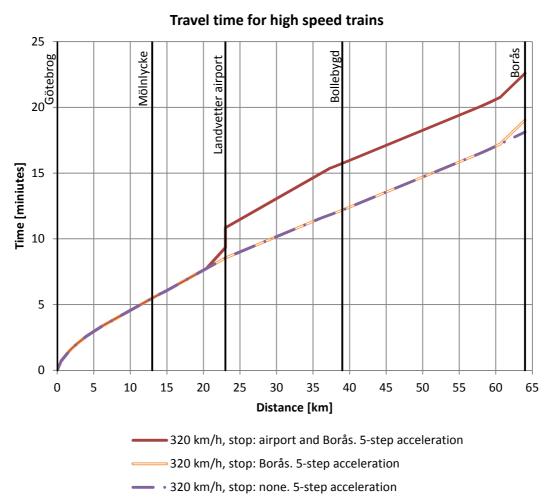


Figure 7.2 Travel time for the high speed trains, with different velocities (320km/h and 300 km/h) and stops, between Gothenburg and Borås with the assumed speed limits for the high speed track. A) The different speed and the different calculating methods for trains with stops in Gothenburg, Landvetter airport and Borås. B) The different speed and the different calculating ways for trains with stops in Gothenburg and Borås. C) The different speed and the different speed and the different speed stop in Gothenburg. D) The comparison between the trains with different stops with trains with a velocity of 320 km/h and with the calculating method of 5-step acceleration.

The high speed train is allowed to use its maximum speed for 18 km of the section due to the speed limit and that is 28% of the total length. Since the distance is not in one continuous section, which results in accelerations and retardation distances for each section part, the train are not going to be able to use their top speed for those 18 km. The calculation results show that the top speed for the high speed trains israrely reached. When the maximum speed is 320 km/h, the trains travel with that top speed on average of 3% of the section in the direction Gothenburg to Borås and 1% of the section in the opposite direction. When the maximum speed instead is 300 km/h, the average use of the trains' top speed is 8% to Borås and 11% to Gothenburg. This can be compared to the other train types, the large regional trains are allowed to use their top speed on average 40% (to Borås)

when the top speed for the train is 250km/h and 39% (to Borås) when the trains maximum speed is 267 km/h. In the other direction, the large regional trains use its top speed on 47% of the section, when the maximum speed is 250 km/h, and 42% when the peak speed is 267 km/h. The two other train types can use their top speed on almost the whole section and do so. The commuter trains use their top speed a little bit more often than the coast-to-coast trains because they have a better acceleration capacity.

7.2 Traffic frequency alternatives

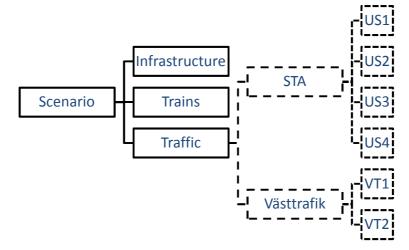
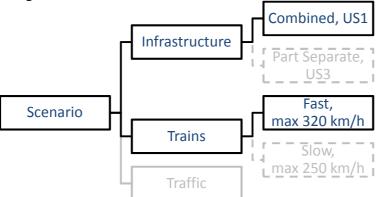


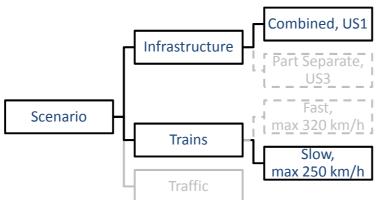
Figure 7.3. A scenario must contain an infrastructure, train and a traffic frequency alternative. The traffic frequency alternatives are either one of the four Swedish transport administrations alternatives or one of the two alternatives from Västtrafik.

In Chapter 5 it is mentioned that in addition to the four traffic frequency alternatives from the Swedish Transport Administration there are two suggestions from Västtrafik, in total there are six traffic frequency alternatives, Figure 7.3. The first four traffic frequency alternatives are connected with their special infrastructure and are taken from the high speed train report (Trafikverket, 2010), the scenarios US1, US2, US3 and US4. The two remaining alternatives are suggestions from the local public transport company Västtrafik, see Appendix 3, and are called VT1 and VT2. Those two suggestions are applied on the scenarios from the Swedish Transportation Administration. This results in ten suggestions for the section in between Gothenburg and Borås. To be able to see what the different alternatives are, the infrastructure and train types can be grouped in three groups:

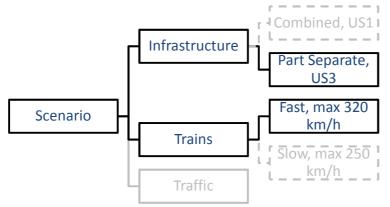
1. The infrastructure as in US1, US2 and US4 and the high speed trains are designed for 320 km/h.



2. The infrastructure as in US1, US2 and US4 and the high speed trains are designed for 250 km/h and the large regional trains and coast-to-coast trains are slower than in group one as well.



3. The infrastructure as in US3 and the high speed trains are designed for 320 km/h.



That there is no alternative that combines the infrastructure from US3 and slower trains depends on that there are no such combination in the high speed train report (Trafikverket, 2010). The traffic frequency alternatives are applied on these three groups of infrastructure and train types. As explained above, the traffic frequency alternatives from the Swedish transportation administration are only applied on the corresponding infrastructure and train types while the traffic suggestions from Västtrafik is applied on all the infrastructure and train types. The combinations of the traffic frequency alternatives, the infrastructure and train types are presented in Table 7.3.

Table 7.3. The X indicates the combination of traffic frequency alternative and infrastructure which there are timetables for.

Traffic	Traffic Infrastructure and train speed			
alternatives	1	2	3	
US1	US1			
US2	US2			
US3			US3	
US4		US4		
VT1	VT1(US1-2)	VT1(US4)	VT1(US3)	
VT2	VT2(US1-2)	VT2(US4)	VT2(US3)	

The traffic frequency alternatives represent is the frequency of the trains, the number of trains during the day and throughout the hour. Presented in the table on page 27, is the frequency for a non-holiday weekday for the ten different traffic scenarios. The different trains that are included in the timetables are:

- ▲ High speed train, stops in Gothenburg and Borås
- ▲ High speed train, stop in Gothenburg
- A Regional train, stops in Gothenburg, Landvetter Airport and Borås
- Commuter train, stop in Gothenburg, Haga, Korsvägen, Mölnlycke, Landvetter Airport, Kråktorp/Bollebygd and Borås
- ▲ Coast-to-Coast train, stop in Gothenburg, Landvetter airport and Borås

The frequency of trains per day and the frequency of trains per hour are fixed in the suggestion from the Swedish Transport Administration. This has resulted in hours with only one or two trains and that there are sometimes two or more hours between departures for some train types. The greatest similarities between the US-frequency alternatives are the amount of commuter trains during the day. Both of the VT-frequency alternatives have a lot more commuter trains. VT1 and VT2 differ from the US-frequency alternatives by having a lot more trains per day and hour and having a larger focus on the local market. The difference between the VT-frequency alternatives is the amount of commuter trains per hour during their peak hours. VT1 has four trains per hour while VT2 has three.

	Trains per		HST + Bs	HST - Bs	LRT	СТ	CtC
US1	Day	79	16	8	24	23	8
	Peak Hour	13	4	1	3	4	1
US2	Day	75	12	12	8	23	20
	Peak Hour	11	2	2	1	4	2
US3	Day	69	8	12	20	23	6
	Peak hour	11	1	2	3	4	1
US4	Day	73	16	6	20	23	8
	Peak Hour	12	2	2	3	4	1
VT1	Day	112	13	13	26	50	10
	Peak Hour	9	1	1	2	4	1
VT2	Day	112	13	13	26	50	10
	Peak Hour	8	1	1	2	3	1

Table 7.4 The amount of trains in one direction during one workday. +Bs = stop in Borås, -Bs = no stop in Borås (Trafikverket, 2010)

7.3 Timetables

From the travel times, frequency and infrastructure, graphic timetables have been made for all the different combination described, and in both directions: In total 20 separate timetables.

The frequency is first for trains per day, where a day in this case is 20 hours, from 5 AM to 1 AM the following night and then for trains per hour. During the day, in the morning and in the afternoon, there are peak hours when the heaviest traffic load occurs. When the peak hour is, depends on the day of the week and on the type of train. The travel patterns on week days differ enormously from the patterns during the weekend. The peak hour for commuters in the surrounding area differs from the passengers who are travelling longer distances. The peak hours for local commuters are between 6:30-9:30 AM (in the timetables this translate to the hours between 7 AM and 8 AM) in the morning and 3:00-6:00 PM in the afternoon. For long distance travellers, the peak hours are between 5:30-7:30 AM (in the timetables this translate to the hours between 6 AM and 7 AM) and 4:00-5:00 PM⁹. This results in that the designing peak hour for all the train types are between 4 and 5 PM.

When constructing the graphic timetables, a goal has been made to have the same departure time every hour for the trains. It was evident from a short time into the making of the timetables that it was hard to be able to have fixed departures time the whole day. Therefore the day has been divided into two categories: high demand hours and low demand hours. High demand is defined as when the quantity of trains are more than five per hour or if any of the train types have a peak hour, if not peak hour traffic is one train per hour. The high demand hour for the different traffic frequency alternatives are presented in Figure 7.4. A high demand hour in the morning does not have to have the same traffic as a high demand hour in the evening. The last goal for the scheduling of the train services is that the same train type should not depart from the station in sequence of each other. This has not been possible all the time, especially during the peak hour.

⁹Sterky, Patrik 2011. Ramböll

A prerequisite for the timetable is that there has to be at least three minutes between the trains at all times. The three minutes headway is a security precaution that is in place to give the trains a chance to stop if the train in front has a malfunction and have been forced to stop.

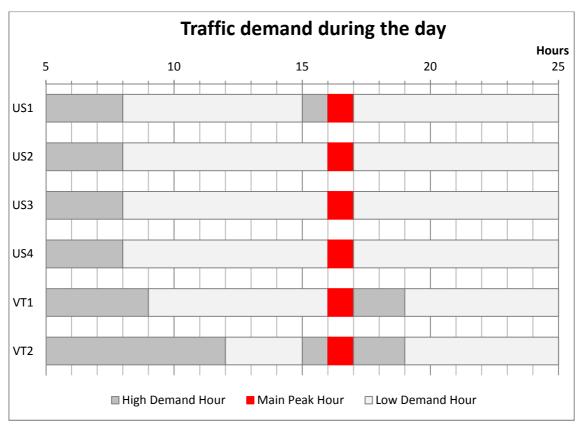


Figure 7.4. The demand during the travelling day.

8 Result

When setting the timetables it has been a goal to have no trains of the same type leaving directly after one another. If trains of the same type are going to leave right behind one another there should be a gap of time between where no trains leave. This has not always been possible and when the trains leave in sequence it is because no other way was found to be able to have as many trains per hour as suggested. As explained before the most critic hour of the day is the peak hour at 4 PM and then it is most common for trains in sequence but it happens other times of the day as well.

Timetable US1

If it will be possible to follow the criteria and goals for the timetable depends on the disruption of the trains during the day. How the trains are arranged in scenario US1 is presented in Table 8.1. During the main peak hour is there 13 trains and the hours that have the second largest amount of trains have 10 trains per hour and that it between 6 AM and 8 AM.

US1	Time	HST(+Bs)	HST (-Bs)	LRT	CtC	СТ	Total
High Demand	5 AM	1	1	3	1		6
	6 AM	4	1	3	1	1	10
	7 AM	3	1	2		4	10
I	8 AM			1		2	3
Low Demand	9 AM	1			1	1	3
I	10 AM			1		1	2
I	11 AM		1				1
I	12 AM			1	1	1	3
	13 PM	1					1
	14 PM			1		1	2
High Demand	15 PM		1	3	1	2	7
Main Peak Hour	16 PM	4	1	3	1	4	13
Low Demand	17 PM	1		2		2	5
	18 PM			1		1	2
	19 PM		1		1	1	3
I	20 PM			1			1
	21 PM	1				1	2
	22 PM			1	1		2
	23 PM		1			1	2
	00 PM			1			1
Total:		16	8	24	8	23	79

Table 8.1. The disruption of the trains during the day or scenario US1. HST+Bs = High speed trains that stops in Borås and Gothenburg. HST-BS = High speed train that stops in Gothenburg.

Gothenburg-Borås

The departures during low demand hours are kind of regular. The commuter trains depart at 41 every hour while the high speed trains usually leave at 21 past except for 8 AM, 9 AM and 5 PM. Coast-to-coast is the least frequent train type and have the most fixed departure time, the only time it do not manage to leave at 15 minutes past is during the peak hour and the departure after. The large regional trains almost never leave at the same time, but usually there is one train per hour that leaves at 21 past during low demand, while the other large regional trains in the same hour are more random.

During the high demand hours there is almost no regularities, the main goal have instead been to have as few successive departure as possible. But to fit all the trains it has been required to have some continual departures. In the morning there are two trains of the same type following each other at three occasions. One pair of high speed trains to Borås, in the beginning of the hour 6-7 AM, and two pairs of commuter trains during the hour between 7 AM and 8 AM. During the afternoon it is only at the main peak hour there are conflicts but then the conflicts are substantial and almost all trains leave in pairs, as seen in Figure 9.1.

Borås-Gothenburg

As in the opposite direction the commuter trains leave at a set minute every hour during low demand hours. The same applies for the coast-to-coast trains but in this direction are they not as consistent because they do not keep the regular departure during the high demand hours. The large regional train and the two different high speed trains are more regular in this direction at low demand hour except for 8 AM and 5 PM. When there is only one high speed trains varies. In the morning during the high demand hours there are trains of the same type leaving after one another but this time it is only the commuter trains which happens twice. Also, during the high demand hours, in the afternoon does the traffic situation resemble the traffic in the other direction, but with a sequent departure less than from Gothenburg.

Timetable US2

If it will be possible to follow the criteria and goals for the timetable depends on the disruption of the trains during the day. How the trains are arranged in scenario US1 is presented in Table 8.2. During the main peak hour is there 11 trains and the hours that have the second largest amount of trains have 8 trains per hour and that it between 6 AM and 8 AM.

1100	- m:			IDT		CT	m 1
US2	Time	HST(+Bs)	HST (-Bs)	LRT	CtC	CT	Total
High Demand	5 AM	1	1	1	2		5
I	6 AM	2	2	1	2	1	8
I	7 AM	1	2		1	4	8
I	8 AM	1		1	1	2	5
Low Demand	9 AM		1		1	1	3
I	10 AM	1		1	1	1	4
I	11 AM				1		1
I	12 AM		1		1	1	3
I	13 PM				1		1
	14 PM	1		1		1	3
I	15 PM		1		1	2	4
Main Peak Hour	16 PM	2	2	1	2	4	11
Low Demand	17 PM	1			1	2	4
I	18 PM		1	1	1	1	4
	19 PM	1			1		2
	20 PM			1	1	1	3
	21 PM		1		1		2
	22 PM					1	1
I	23 PM	1			1		2
	00 PM					1	1
Total:		12	12	8	20	23	75

Table 8.2. The disruption of the trains during the day or scenario US2. HST+Bs = High speed trains that stops in Borås and Gothenburg. HST-BS = High speed train that stops in Gothenburg.

Gothenburg-Borås

The basic for the timetable have been to have the commuter trains leave one minute pass for every hour they have departures. This has been done successfully for the whole travelling day except for the first departure at 06:31 AM and for the main peak hour (4 PM). The commuter trains have two peak hours with four trains departure per hour and have one train leaving per hour during low demand. In addition to the peak hours there are three hours in connection to the peak hours that have two trains per hour. The first trains leave as the other commuter trains does during the day while the second train depart at 35 past. During the main peak hour and the last high demand hour in the morning the commuter trains and a faster train, the trains that do not goes via the Western link, leave the station in Gothenburg at the same time. The large regional trains leaves at fixed time during low demand except for the hour after high demand hours in the morning. The two different types of high speed trains alternates on the low demand hours and leaves at 53 except for the hour 8-9 AM when a high speed train leaves earlier. This also applies for the coast-to-coast train which leaves at 21 every hour.

Borås-Gothenburg

During high demand all the train types have a specific departure pattern but the number of trains per hour is not the same for all the train types during this period. The commuter trains, the coast-to-coast train and the high speed train with stop in Borås have more trains per hour some of the hours but the extra trains per hour have a pattern as well. During low demand the coast-to-coast and the large regional trains have the same pattern as during high demand besides at 5 AM when the coast-to-coast have an additional train. The nonstop high speed train have the same departure minute during low demand hours. While the other high speed train have a fixed departure time, except for 5 AM and 8 AM. The commuter trains have one main pattern during low demand, at 9 AM-12 PM and 6 PM-1 AM, when the train depart at 14 minutes pass but the hours in connection with the high demand have their own departures.

Timetable US3

If it will be possible to follow the criteria and goals for the timetable depends on the disruption of the trains during the day. How the trains are arranged in scenario US1 is presented in Table 8.3. During the main peak hour is there 11 trains and the hours that have the second largest amount of trains have 8 trains per hour and that it between 6 AM and 7 AM.

US3	Time	HST(+Bs)	HST (-Bs)	LRT	CtC	СТ	Total
High Demand	5 AM	1	1	3	1		6
	6 AM	1	2	3	1	1	8
I	7 AM	1	1	1		4	7
I	8 AM	1		1		2	4
Low Demand	9 AM		1		1	1	3
I	10 AM			1		1	2
I	11 AM		1				1
I	12 AM			1	1	1	3
I	13 PM		1				1
I	14 PM			1		1	2
I	15 PM	1		1		2	4
Main Peak Hour	16 PM	1	2	3	1	4	11
Low Demand	17 PM	1		1		2	4
I	18 PM		1	1		1	3
I	19 PM	1			1	1	3
I	20 PM			1			1
Ι	21 PM		1			1	2
	22 PM			1			1
Ι	23 PM		1			1	2
	00 PM			1			1
Total:		8	12	20	6	23	69

Table 8.3. The disruption of the trains during the day or scenario US3. HST+Bs = High speed trains that stops in Borås and Gothenburg. HST-BS = High speed train that stops in Gothenburg.

Gothenburg-Borås

During the low demand hours all the train leave at set minutes every hour. The commuter trains during the morning high demand period are regular but not matched with the low demand commuter trains. The early commuter trains leaves at half pass and the next hour every quarter of an hour. All the other train types are scheduled around these trains. During the main peak hour the train departures are planned so all the trains fit and not have any trains of the same type leaving after one another.

Borås-Gothenburg

The low demand hours are regular while the trains during high demand hours are infrequent. All the trains during the low demand periods of the day have fixed departures except for the large regional train that, in the hours in connection with the high demand periods, have different departures compared to the rest of the section. There is no pattern for the train departures during the high demand and two occasions there are commuter trains leaving right after one another.

Timetable US4

If it will be possible to follow the criteria and goals for the timetable depends on the disruption of the trains during the day. How the trains are arranged in scenario US1 is presented in Table 8.4. During the main peak hour is there 12 trains and the hours that have the second largest amount of trains have 9 trains per hour and that it between 6 AM and 7 AM.

Table 8.4. The disruption of the trains during the day or scenario US4. $HST+Bs =$
High speed trains that stops in Borås and Gothenburg. HST-BS = High speed train
that stops in Gothenburg.

US4	Time	HST(+Bs)	HST (-Bs)	LRT	CtC	СТ	Total
High Demand	5 AM	1	1	3	1		6
I	6 AM	2	2	3	1	1	9
I	7 AM	2	1	1		4	8
	8 AM	1		1		2	4
Low Demand	9 AM	1			1	1	3
	10 AM			1		1	2
	11 AM	1					1
	12 AM			1	1	1	3
I	13 PM	1					1
	14 PM			1		1	2
	15 PM	1		1	1	2	5
Main Peak Hour	16 PM	2	2	3	1	4	12
Low Demand	17 PM	1		1		2	4
	18 PM			1		1	2
I	19 PM	1			1	1	3
I	20 PM			1			1
I	21 PM	1				1	2
I	22 PM			1	1		2
	23 PM	1				1	2
	00 PM			1			1
Total:		16	6	20	8	23	73

Gothenburg-Borås

In this timetable there are several occasions when the same type of train leaves Gothenburg after one another. Even at one point there are three commuter trains that depart closely in sequence, all leaving just before and at 5PM. The low demand periods of the day has a more consistent timetable with the commuter trains leaving every hour sharp and the large regional trains and high speed trains also having set timeslots. The coast-to-coast trains only have fixed times in the evening and the large regional trains have a transition hour at 8 AM when they do not follow the regular pattern. The commuter trains as well have such an hour but at 3 PM instead of at 8 AM. In addition, the commuter trains, at two occasions have a second train leaving in the same hour and those trains are scheduled where they fit and do not have any pattern.

Borås-Gothenburg

Even though the trains leave at different times than in another direction the setup is similar. The commuter trains have during low demand mostly one train leaving per hour but in connection to their high demand hours there are often one more train departing. When there is one train per hour, the trains leave in fixed intervals and when there are two trains, one train follows the fixed pattern the trains have when there is only one per hour, while the second train depart when it can in relation with the other trains. Of the three hours with double commuter trains per hour, two have the same pattern. That there is the same type of trains leaving after on another happens one more time in this direction than from Gothenburg and even though three commuter trains leaving after one another on two occasions there is a longer period of time between the second and the third. The other types of trains leave at a regular pattern during the low demand hours and here the coast-to-coast trains also follow the pattern. The high demand departures are, as in the other direction, done to fit all the trains and do not have fixed departure times.

Timetables VT1

If it will be possible to follow the criteria and goals for the timetable depends on the disruption of the trains during the day. How the trains are arranged in scenario US1 is presented in Table 8.5. During the main peak hour is there 9 trains and there are three hours more that have the same amount of traffic as the main peak hour. The hours that have the second largest amount of trains have 8 trains per hour and that it between 18 AM and 19 AM.

Table 8.5. The disruption of the trains during the day or scenario VT1. HST+Bs = High speed trains that stops in Borås and Gothenburg. HST-BS = High speed train that stops in Gothenburg.

V1	Time	HST(+Bs)	HST (-Bs)	LRT	CtC	CT	Total
High Demand	5 AM	1	1	1	1	2	6
1	6 AM	1	1	2	1	2	7
1	7 AM	1	1	2	1	4	9
1	8 AM		1	2		4	7
1	9 AM	1		1		2	4
Low Demand	10 AM		1	1	1	2	5
1	11 AM	1		1		2	4
1	12 AM		1	1		2	4
1	13 PM	1		1	1	2	5
1	14 PM		1	1		2	4
1	15 PM	1	1	1		2	5
Main Peak Hour	16 PM	1	1	2	1	4	9
High Demand	17 PM	1	1	2	1	4	9
	18 PM	1		2	1	4	8
Low Demand	19 PM			1	1	2	4
	20 PM	1	1	1		2	5
1	21 PM			1		2	3
1	22 PM	1	1	1	1	2	6
	23 PM			1		2	3
	00 PM	1	1	1		2	5
Total:		13	13	26	10	50	112

Timetable VT1(US1-2)

Gothenburg-Borås

During the peak hours for the commuter trains, that is to say when four departures per hour, the trains always leave in pairs with no other type of train in between. The pair leave in even intervals and the depart time of the first train in the pair has the same depart time as the commuter train have the rest of the day, regardless if the demand is high or low. The large regional train have a pattern as well but it does not follow it in the beginning of the day, until after 7 AM. During the large regional trains peak hours there are two trains per hour departing and the second train do not follow a common pattern but have several. Of the six high demand hours the additional train per hour have the same departures they always leave on the hour and the two types of high speed train also have fixed departures during the whole day.

Borås-Gothenburg

The large regional trains have regular departure during the low demand hours except in the hour previous to the main peak hour. During the high demand hours there are only two departures that match. The rest of the departures during high demand are irregular. The coast-to-coast trains leave at the same time every low demand hour while there is no pattern to the departures during high demand. The high speed trains are irregular during the whole day; they do have some hours when trains have the same departure minute. The commuter trains almost always leave in pairs with four minutes between the trains during high demand and in the end of both sections there are three trains in a row. Of the 24 trains operating during high demand two thirds leave in sequence of another commuter train. During low demand the commuter trains have two patterns, one between 9 AM and 4 PM and another between 7 PM and 1 AM.

Timetable VT1(US3)

Gothenburg-Borås

In this traffic lay out it is the coast-to-coast trains that have the most irregular traffic pattern. During the day there areten trains departing and half of them have the same departure minute for each corresponding hour, three times during low demand and two at high. Of the five remaining departures four leave at five past. The commuter trains leave every half hour during low demand and in the morning, 5 AM and 6 AM, while leaving every quarter during the remaining high demand hours. The two patterns do not match but there are never two trains of the same type leaving after one another. During the low demand periods the two types of high demand trains alternate on leaving at the same time but 3 PM both types of trains have departures so it is only the high speed train with no stops that can leave at 3 PM. The pattern during high demand is not as regular but the division of the hours is the same for the two types, the pattern at 7 AM is the same as at 4 PM and 5 PM and 5 AM and 6 AM have the same pattern while 8 AM and 6 PM are not part of any pattern. At high demand when the large regional trains have two departures an hour, they leave with half an hour intervals. During the rest of the day the trains leave at the same time but at 6 PM and 7 PM they leave at a half an hour earlier.

Borås-Gothenburg

All trains have a set traffic constellations during low demand, in addition they also have the same pattern at 5 AM and 6 AM. Except of the commuter trains, the other train types have a fixed pattern during high demand. The commuter trains leave in pairs and the first pair always leaves at the same type while the second pair leaves either at 41 or 42.

Timetable VT1(US4)

Gothenburg-Borås

The high speed trains without stops have the same departure minute the entire day, the large regional trains also have the same departure minute both for the first train that leave every hour and for the second train during high demand. The coast-to-coast and high speed train with stop in Borås follows two patterns, one for high demand and one for low. They both have the low demand pattern at 5 AM and the high speed trains also have it at 6 AM. The commuter trains have one pattern for low demand

and 5-6 AM and one during high demand. Those trains during high demand are paired with a second train leaving four minutes after.

Borås-Gothenburg

The nonstop high speed train have the same operation pattern the whole day and the coast-to-coast, high speed train with stop in Borås and the large regional trains have one pattern for the hours 7-8 AM and 4-6 PM and another for the rest of the day. When the commuter trains goes twice an hour the train runs with equal intervals of 30 minutes. During the hours with four trains per hour they depart in pairs.

Timetables VT2

If it will be possible to follow the criteria and goals for the timetable depends on the disruption of the trains during the day. How the trains are arranged in scenario US1 is presented in Table 8.6. During the main peak hour is there 8 trains and there are three hours more that have the same amount of traffic as the main peak hour. The hours that have the second largest amount of trains have 7 trains per hour and that it between 18 AM and 19 AM.

Table 8.6. The disr High speed trains t	1 0	0 1			
that stops in Gother	1		2	0	<u>.</u>

V2	Time	HST(+Bs)	HST (-Bs)	LRT	CtC	CT	Total
High Demand	5 AM	1	1	1	1	2	6
	6 AM	1	1	2	1	3	8
I	7 AM	1	1	2	1	3	8
I	8 AM		1	2		3	6
I	9 AM	1		1		3	5
I	10 AM		1	1	1	3	6
I	11 AM	1		1		3	5
Low Demand	12 AM		1	1		2	4
I	13 PM	1		1	1	2	5
I	14 PM		1	1		2	4
High Demand	15 PM	1	1	1		3	6
Main Peak Hour	16 PM	1	1	2	1	3	8
High Demand	17 PM	1	1	2	1	3	8
I	18 PM	1		2	1	3	7
Low Demand	19 PM			1	1	2	4
I	20 PM	1	1	1		2	5
I	21 PM			1		2	3
I	22 PM	1	1	1	1	2	6
	23 PM			1		2	3
I	00 PM	1	1	1		2	5
Total:		13	13	26	10	50	112

Timetable VT2(US1-2)

Gothenburg-Borås

The traffic at low demand and at 5 AM is fixed. The two types of high speed trains are paired with the commuter trains. During high demand the commuter trains depart every twenty minutes and the high speed trains are still paired with on train each. At one point there are two commuter trains with no other train in between but it is still twenty minutes between these trains. The large regional trains have a regular but different pattern during high and low demand. But the first hour is low demand for the large regional trains, that is to say it is only one train per hour and therefor have the same pattern as the rest of the low demand trains. While the other types of trains have two different patterns during the day the coast-to-coast have one same during the day.

Borås-Gothenburg

The coast-to-coast trains have the same departure every hour and the commuter train have two operating schedules, one for high demand and one for low. There are trains leaving after one another without any other train type between. This happens after every high demand hour. In an hour there can be either one (high and low demand) or two (high demand) large regional trains departing, the minutes when they can leave are set but when there is only one train in the hour it can be in either one of the two time slots. The high speed train with stop in Borås do not have a fixed minute when it departs but leaves nearly the same minute every hour. The other high speed train have two patterns that it follows, one for high demand except for the first hour and one for that hour and low demand.

Timetable VT2(US3)

Gothenburg-Borås

All trains have two patterns they follow the whole traffic day, one for low demand and 5 AM and one for high demand. The large regional trains have the low demand schedule for 3 PM as well. The commuter trains leave every half an hour when there are two trains an hour and every twenty minutes when there are three trains per day. The high speed trains have thirty minutes between their departures, both during high demand and low demand even though the two types do not usually leave in the same hour during low demand.

Borås-Gothenburg

The different train types have a fixed operating schedule for the whole day with half an hour difference between the commuter trains. When there are one more train an hour for the large regional trains and commuter trains those are put where there is room. The second large regional train depart 12 minutes after the first one and the third commuter trains leave 4 minutes before the first.

Timetable VT2(US4)

Gothenburg-Borås

The trains, except the high speed trains with no stops, have two operating schedules for the day. The nonstop high speed train have one pattern for the whole day. The other high speed train, coast-to-coast train and the commuter train have one pattern during low demand plus 5 AM and one for the high demand. The first departure for the commuter train is the same during the whole traffic day while the other train depart at different minutes depending if there are one or two more trains per hour. The additional trains either leave in 30 minutes or 20 minute intervals from the original train. Because there are is no coast-to-coast train or no nonstop high speed train at 11 AM there are three commuter trains leaving in a row.

Borås-Gothenburg

The coast-to-coast train and the commuter train have the same departure minutes all day. But when a third commuter train is in the same hour, that train depart only five minutes before the second train, consequently they always leave in sequence of each other. The high speed trains and the large regional train have the same division of the day, the high demand minus 5 AM and low demand with 5 AM. During high demand when there is two large regional trains per hour they leave every 30 minute. When there is one train per hour they have the same departure minute as the second when there are two trains per hour.

9 Analysis

Of the four traffic suggestion from the Swedish Transport Administration the first one have the most trains both during the day and during the peak hour but the suggestions from the municipality have more trains in total during the day but less during peak hours. The difference between the traffic suggestions are more the concentration of a type of train more than the total amount of train per day and trains per hour, the amount of trains per day lies between 69 and 79 for the scenarios from the Swedish Transport Administration.

Traffic load suggested by the Swedish Transport Administration

The main goal when planning the timetables was to spread out the trains as much as possible and to have them leave in even intervals. The time period that shows if this have been done successfully is the peak hour, between 4 PM and 5 PM. It can be seen in Figure 9.1, Figure 9.2, Figure 9.3 and Figure 9.4 that it is only in scenario US2 and US3, from Gothenburg to Borås, this have been made efficiently.

All the timetables can be found in Appendix4 and 5. There are both graphic timetables (Appendix 4) as well as the ones in tables (Appendix 5).

If the high demand hours are reviewed instead of the peak hour it can be seen that none of the basic timetables (US1-US4) pass the requirement of no same train type in sequence. The scenario from the Swedish Transport Administration that is closes to manage this is scenario US3 which do manage it in the direction Gothenburg to Borås but not on the way back.

US2 has most CtC trains of all the alternatives and they are more similar to CT when it comes to speed, which makes them fit better together. The CtC trains can depart closely before a CT, as the other trains can and especially high speed trains from Gothenburg to Borås, but the CtC trains follow the CT speed more so than the other train type and this allows another train to leave closely before both the CT and the CtC train. This can be seen in Figure 9.2 but also make it easy to plan the departures after train type and with that the train types depart in sequence. This way of planning can be seen in all the different alternatives.

The scenario with most trains is US1, Figure 9.1, and this is obvious when the peak hours are compared. During the low demand US1 have the same concentration of trains as the other scenarios. That US3 have a different infrastructure have made it easier to get the commuter trains to leave in more even intervals but the problem with them are still there, because they still hinder the flow between Göteborg and Landvetter. And it is not only the commuter trains that delay the traffic, the CtC trains do this as well and they are not on the separate track.

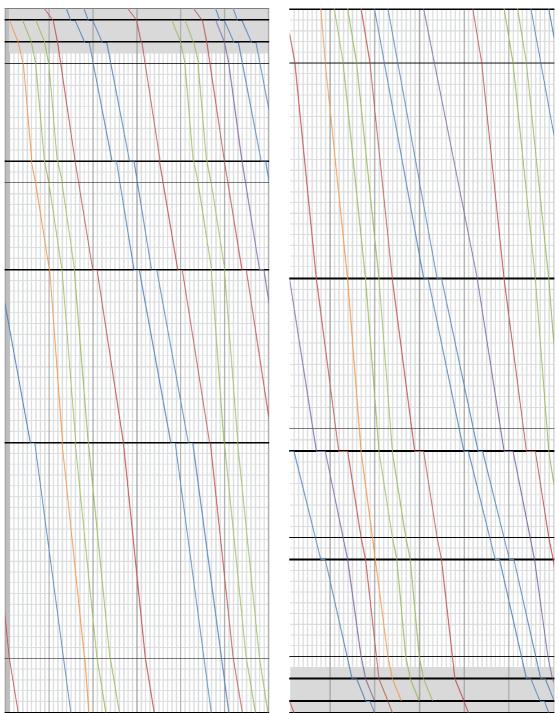


Figure 9.1. The peak hour (4 PM-5 PM) for US1. Left: Traffic going from Gothenburg to Borås, right: Traffic going from Borås to Gothenburg. Orange=HST without stop in Bs, green=HST with stop in Bs, red= LRT, purple=CtC, blue=CT. X-axes is the time in ten minute steps and the y-axes is the distance, total 65 km. The horizontal lines are where the speed limits changes. The horizontal lines where the commuter trains lines are horizontals are stations, in the left graph: Gothenburg, Haga, Korsvägen, Mölnlycke, Landvetter airport, Bollebygd and Borås. In the right graph: the opposite order to in the left graph.



Figure 9.2. The peak hour (4 PM-5 PM) for US2. Left: Traffic going from Gothenburg to Borås, right: Traffic going from Borås to Gothenburg. Orange=HST without stop in Bs, green=HST with stop in Bs, red= LRT, purple=CtC, blue=CT.X-axes is the time in ten minute steps and the y-axes is the distance, total 65 km. The horizontal lines are where the speed limits changes. The horizontal lines where the commuter trains lines are horizontals are stations, in the left graph: Gothenburg, Haga, Korsvägen, Mölnlycke, Landvetter airport, Bollebygd and Borås. In the right graph: the opposite order to in the left graph.

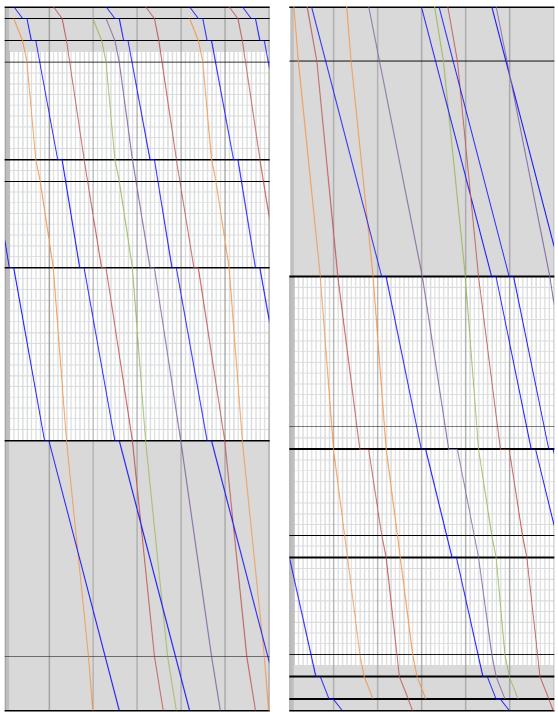


Figure 9.3. The peak hour (4 PM-5 PM) for US3. Left: Traffic going from Gothenburg to Borås, right: Traffic going from Borås to Gothenburg. Orange=HST without stop in Bs, green=HST with stop in Bs, red= LRT, purple=CtC, blue=CT. X-axes is the time in ten minute steps and the y-axes is the distance, total 65 km. The horizontal lines are where the speed limits changes. The horizontal lines where the commuter trains lines are horizontals are stations, in the left graph: Gothenburg, Haga, Korsvägen, Mölnlycke, Landvetter airport, Bollebygd and Borås. In the right graph: the opposite order to in the left graph.

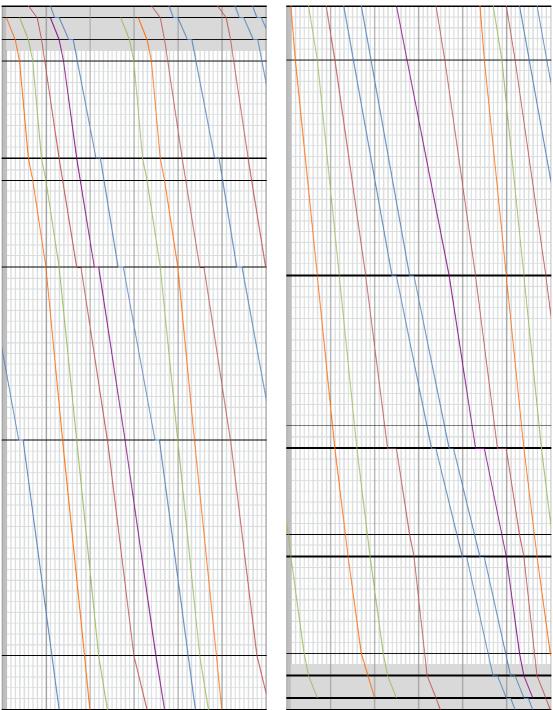


Figure 9.4. The peak hour (4 PM-5 PM) for US4. Left: Traffic going from Gothenburg to Borås, right: Traffic going from Borås to Gothenburg. Orange=HST without stop in Bs, green=HST with stop in Bs, red= LRT, purple=CtC, blue=CT. X-axes is the time in ten minute steps and the y-axes is the distance, total 65 km. The horizontal lines are where the speed limits changes. The horizontal lines where the commuter trains lines are horizontals are stations, in the left graph: Gothenburg, Haga, Korsvägen, Mölnlycke, Landvetter airport, Bollebygd and Borås. In the right graph: the opposite order to in the left graph.

Traffic load suggested by Västtrafik

The only difference between the V-alternatives is that the commuter trains have different amount of trains during their peak hours. VT1 have 4 trains per hour while VT2 have 3 trains per hours, this mean that that there are more peak hours in VT2 than VT1 because the amount of trains during the day is the same in both alternatives, 50 trains per day.

Comparison of the three alternatives with US1 and US2 infrastructure and high speed trains, v = 320 km/h and traffic frequency alternative US1 or VT1 or VT2

For commuters between Gothenburg and Borås and the communities on the way, are the alternatives from Västtrafik better than the suggestions from Swedish Transport Administration because in those alternatives there are at least two commuter trains that leave Gothenburg and Borås hourly. That enables workers and students to have irregular hours, but still be able to get to and from without having to wait toomuch. For travellers to and from Gothenburg and Stockholm the US alternative is better during high demand with several departures, even though some of them leave directly after one another. While during low demand the VT-alternatives are better because in those there are at least one departure per hour of one of the high speed train types. This applies to the large regional trains and coast-to-coast trains that have commuters from for example Jönköping. During low demand hours in the US-alternatives there are sometimes as few trains as one per hour and that gives time for regular and quick check-ups and maintenance every day. And that there is time in between the high demand with fewer trains makes it easier to correct delays from earlier during the day.

Comparison of the three alternatives with US1 and US2 infrastructure and high speed trains, v = 320 km/h and traffic frequency alternative US2 or VT1 or VT2

All the scenarios are rather regular in the direction Gothenburg to Borås but in the other direction it is not the same flow. For these scenarios is it more of a rule that the same train type leave in pairs than rather leave in even intervals. There are more trains in both the VT-alternatives than in US2 and the largest difference is of the LRT and the CtC. There are more than three time as many LRT in the VT-alternatives but when it comes to the CtC it is US2 that have more, in fact double the amount.

Comparison of the three alternatives with US3 infrastructure and high speed trains, v = 320 km/h and traffic frequency alternative US3 or VT1 or VT2

Even though the commuter traffic is separated between Landvetter and Borås, those trains still hinder the traffic of the rest of the section. It is not only the commuter trains that are obstacles in the traffic, also the CtC trains hold up the flow. However, CtC are quicker than the commuter trains and they have fewer stops but in comparison with the large regional trains they are slow. From Borås to Gothenburg, the trains leave in groups more or less, especially in VT1 (US3) while in the other two scenarios the groups can be seen but they are more spread out. In the opposite direction the traffic flows more even, in all the scenarios.

Comparison of the three alternatives with US1 and US2 infrastructure and fast trains, v = 250 km/h and traffic frequency alternative US4 or VT1 or VT2

In both VT1 (US4) and US4, in the direction Gothenburg to Borås, the commuter trains leave in pairs or even in triple groups. And in US4 the different high speed trains leave after one another, even thou one stops in Borås while the other one do not they are too similar to leave in sequence. The commuter trains leave in pair in the other direction both in US4 and in VT2 (US4).

10 Discussion

To get a clear result is hard because there are more ways to organize the timetables than these suggestions and the early once are maybe not as good as the last.

The objectives for the planning of the timetable were that the trains should go at the same time every hour and if the same type of train goes more than once an hour they should be in equal intervals. Another thing, which was not a goal in these timetables, is that the trains in one direction should be connected to the ones in the other direction; the operators do not have a specific train for every departure so if this is not done there could be a shortage of train in one direction. None of the two objectives were met for any of the US-alternatives for the whole travelling day except at the low demand parts. When there are two or more trains of the same type leaving in sequence of one another, it is usually during high demand or in connection with high demand hours. The timetable during the peak hour is more modelled to make every train fit than to have a good and regular system. This can also be applied for the rest of the hours, especially in the direction Borås to Gothenburg. What determines the lay out the most is the concentration of trains and secondly the commuter trains. The number of commuter trains is the same in all the US-alternatives but since the amount of other trains varies, the timetables for the alternatives are totally different from each other. The amount of trains during low demand is similar in all the US-alternatives.

Of the four US-alternatives, US1 have most trains but this is only evident during high demand hours. That the US1 have a lot of trains can be both positive and negative. The more trains, the more people can travel However; the whole system becomes more sensitive for delays to propagate in the system. In the second US alternative there are the most CtC trains. There are a lot of trains in this alternative as well but not as crowded as is in US1. One of the disadvantages of this alternative is that there are few high speed trains so the end point market is smaller. The main advantage with US3 is that the commuter trains and the rest of the train types are separated between Landvetter airport and Borås, which makes it possible for the faster trains. In US4, the speeds for the different trains are more similar and can therefore be planned closer together and thereby use the track more efficiently. No really fast high speed trains mean that this alternative is not for the big cities, the end point markets, but is more for the region.

The timetables are more often better in the direction Gothenburg-Borås than the opposite direction. This is because of the separation of the train types in Gothenburg thou to the western link. The separation in Gothenburg enables the different train types to leave more closely together and the speed difference will increase the distance between the trains the further they come from Gothenburg. In the other direction there is no such separation and the separation between the train types have to be from start in Borås. The only time this is not true is in scenario US3 where the commuter trains are separated between Borås and Landvetter. This simplifies the planning but it is only one train type that is separated where as in Gothenburg there are two train types for each separation.

It is difficult to compare the US-alternatives and the VT-alternatives. They are suggested with different precision, the US-alternatives are more specific than the VT-alternative. In the US-alternatives there are in general too many trains during high demand and too few during low demand while in the V-alternatives the distribution is more even. This may be due to the fact that the US-alternatives all have regulations

about how many trains in total there should be and how many trains there where during high demand, while the V-alternatives only mention how many trains per hour there should be during high and low demand and the total was added up from that information.

One question is whether people travelling to and from Borås should be allowed to use the high speed and the large region trains or should it be that trains coming from beyond Borås only have disembarking in Borås and the trains coming from Gothenburg only have boarding? This is a good idea if the purpose for the new rail is the end point market and not only for the region. That the close commuters cannot take the high speed trains will make room for the passengers that are travelling longer distances and will in turn make the tickets cheaper.

If the politicians invest in building the high speed rail, the high speed trains should be the trains that the other trains are planned around. To make this possible, the commuter traffic and other slow trains should be separated to their own track for the whole section or for some parts. If it is not possible to have two high speed tracks and two commuter tracks, maybe the high speed track should be downgraded to a slower track; still fast but not high speed. There is no point in having high speed track between Gothenburg and Borås if it cannot be used to its full capacity. Another way to get a better flow of the traffic is to use the existing bypasses in Mölnlycke and Borås. Then the faster trains can get past the commuter trains. This can result in commuter trains having to wait at the stations a longer time than previously needed.

11 Conclusion

The goal was to evaluate what was the best choice of the suggested alternatives by the Swedish Transport Administration and Västtrafik. Because it is the amount of stops and not the type of train or the acceleration that are the most crucial part of the travel time, it would be better to separate the trains with a lot of stops from the trains with few or no stops. The trains with the most stops are the commuter trains and they are also slow which make them the largest obstacle in these scenarios. If they had their own track they could have more departures and the faster trains would also operate more efficiently. Furthermore, the focus of the traffic should be on the end market because the separation would take care of the local demand and even some of the regional. If it is easier and faster to get to Borås it would also be so for the travellers to and from Jönköping.

In the US-alternatives there are in general too many trains during high demand and too few during low demand while in the V-alternatives the distribution is more even. This may be due to the US-alternatives have regulations about how many trains there should be in total and how many trains there is during high demand, while the V-alternatives only said how many trains per hour there should be during high and low demand and the total was convoluted from that. That there are hours with only one train in the US-alternatives and not in the VT-alternatives depends on that there are too few trains left in the US-alternatives to be able to let all train types have trains departing every hour. In comparison, in the VT-alternatives there is no limit on the total amount of trains and that have made it possible to let all the train types to have departures every hour.

This has resulted in that the traffic flow in the VT-alternatives are more flowing while the traffic in the US-alternatives have hours when there are almost no trains and hours when there are too many trains. This is because

When evaluating the basis of the initial in-data and delimitation the preferred traffic design is V2with the infrastructure in scenario US4 but since Västtrafik's suggestions are not as thought through as the Swedish transport administrations', the top choice is US3. It is the preferred one because there are the least double departures and have the most consistent timetable of all the suggestions. But none of these timetables are very good since none of them manage to have regular departures during the whole day and are all very crowded.

There should be further investigations, both for the traffic load and the infrastructure. I have suggested that there should be an additional pair of tracks for the commuter traffic. If the extra track will only be between Landvetter and Borås the coast-to-coast trains should travel on that as well to create a little bit better flow for the fast and high speed trains.

12 Further studies

As mention earlier, further studies should be made. Aspects to investigate are if it is possible to have more bypasses or to use the ones that exist, if it is more efficient to have slower trains overall which means that the railway is built for maybe a maximum speed of 280 km/h or 250 km/h. Other questions that should be investigated are if the commuter trains could have alternating stops, if there are better traffic structures and if it is possible to separate the commuter traffic for the whole section.

Could the systems flow depend on scheduled bypasses or should the ability to overtake other trains be reserved for trains that have been delayed? Should the speed limit for the whole section be lower so the trains have more of the same speed. This could make the flow of the traffic go more fluently. Another option that should be investigated is if the commuter train could have different stops? Maybe there should be some trains that only have half the stops, either in the beginning or the end, or maybe the trains should have alternate stops on this section.

Further studies should also be made of other traffic structures than the one suggested from Swedish Transport Administration and Västtrafik. Things that should be investigated are the amount of traffic overall and the amount commuter trains in particular. Is it necessary to have more than two per hour? If there are more than two commuter trains per hour how many other trains can fit in the timetable? Or should the commuter trains have their own track? Will the fact that the commuter trains and coast-to-coast trains share the track with the high speed trains and large regional trains between Gothenburg and Borås affect the national high speed railway system?

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Appendix 1 – Information from Markus Gunnervall

In this appendix contains emails and document that Markus Gunnervall from the Swedish Transport Administration has sent to Ylva Höglund during 2011. This information is a basis for the calculations in the report "Traffic capacity for a high speed railway between Gothenburg and Borås"

- 1. Email from Markus Gunnervall 2011-03-15
- 2. Hastigheter och längder Göteborg-Borås.xlsx
- 3. Systemskisser Almedal-Borås.pptx
- 4. Email from Markus Gunnervall 2011-04-14
- 5. Email from Markus Gunnervall 2011-05-16
- 6. Tidtabell US1 100708 nya gångtider PJ (ELgranskad)_antal tåg.xls
- 7. Tidtabell US2 100831 (ELgranskad)_antal tåg.xls
- 8. Tidtabell US3 100803 nya gångtider och längder MG 100811.xls
- 9. Tidtabell US4 100824 LL (PLgranskad)_antal tåg.xls

Höglund Ylva

Från:	markus.gunnervall@trafikverket.se
Skickat:	den 15 mars 2011 10:52
Till:	Höglund Ylva
Ämne:	SV: Ylvas Exjobb
Bifogade filer	: Hastigheter och längder Göteborg-Borås.xlsx; Systemskisser Almedal-Borås.pptx

Hej Ylva

Bifogar sammanställning av hastigheter och längder, bifogar även systemskisser för de fyra alternativen Alla alternativen är egentligen väldigt lika infrastrukturmässigt. Det som skiljer är placeringen av några kopplingspunkter samt att i US3 är dragningen genom Borås helt annorlunda.

Stationerna i Mölnlycke och Kråktorp är utformade som fyrspårstationer med sidoplattformar, detta framgår av systemskisserna. Även utformningen av Borås station framgår. I Västlänken är det tvåspårstationer vid Haga och Korsvägen och fyrspårstation vid Göteborg C.

/Markus

Fordon	Höghastighetståg (till Stockholm)	Storregionala tåg (till Jönköping)	Regionala tåg (till Borås)
hastighet km/h	320	250	200
startacc. m/s2	0,7	0,5	0,7
acc vid 200 km/h	0,3	0,2	0,05
retardation. m/s2	0,6	0,6	0,8

Infrastruktur med utgångspunkt Göteborg C

		Hastighet km/h
Station	Avstånd från	US1, US2, US4
Göteborg	0	60
	1,5	90
	2	105
	4	140
	5,5	250
Mölnlycke	13	200
	15	320
Landvetter flp	23	200
	25	320
Kråktorp	39	320
	59	270
	61	230
Borås	64	230

Infrastruktur med utgångspunkt Västlänken

Avstånd från	Hastighet km/h US1, US2, US4
0	80
1,5	80
3	80
6,5	250
14	200
16	320
24	200
26	320
40	320
60	270
62	230
65	230
	1,5 3 6,5 14 16 24 26 40 60 60

Infrastruktur med utgångspunkt Göteborg C

Station	Avstånd från	Hastighet km/h US3
Göteborg	0	60
C	1,5	90
	2	105
	4	140
	5,5	250
Mölnlycke	13	200
	15	320
Landvetter flp	23	200
	25	320
Kråktorp	39	320
Kopplingspunkt ktk-	42	320
	59	270
	61	230
Kopplingspunkt		
förbifart Borås	63,5	100
	65,5	80
Borås	66,5	80

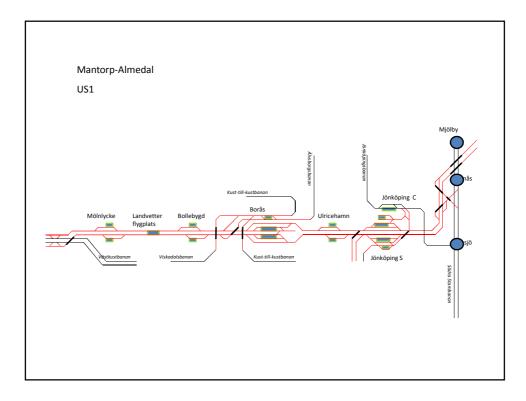
Infrastruktur med utgångspunkt Västlänken

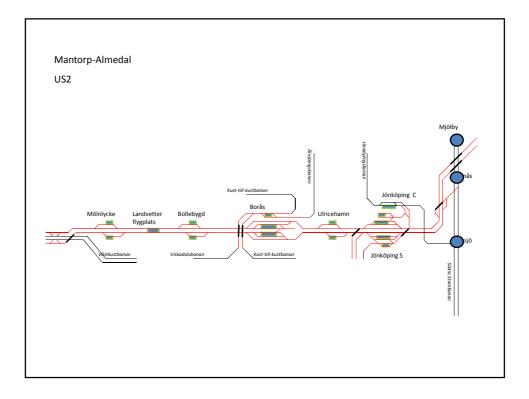
0		Hastighet km/h
Station	Avstånd från	US3
Göteborg	0	80
Haga	1,5	80
Korsvägen	3	80
	6,5	250
Mölnlycke	14	200
	16	320
	24	200
Landvetter flp	26	320
Kråktorp	40	320
Kopplingspunkt ktk-	43	320
	60	270
	62	230
Kopplingspunkt		
förbifart Borås	64,5	100
	66,5	80
Borås	67,5	80

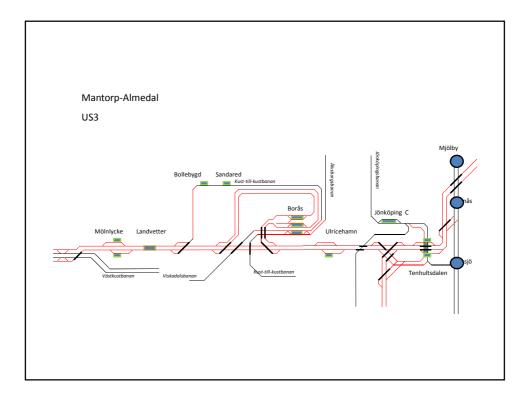
System sketches

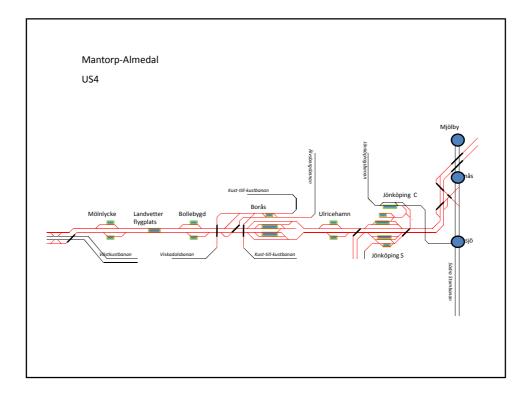
System sketches over the section Almedal-Borås for the four scenarios from the Swedish Transport Administration.

Author: Markus Gunnervall Company: Trafikverket Created: 2011-03-15









Höglund Ylva

Från:markus.gunnervall@trafikverket.seSkickat:den 14 april 2011 22:22Till:Höglund YlvaÄmne:SV: Examensarbete

Hej Ylva

Här kommer lite snabba men inte helt utömmande svar:

Från: Höglund Ylva [mailto:Ylva.hoglund@ramboll.se] Skickat: den 13 april 2011 14:34 Till: Gunnervall Markus, SVÄpg Ämne: Examensarbete

Hej Markus,

Jag har lite mer frågor som jag hoppas du har tid att svara på. Vissa av dom förstår jag att du inte vet svaret på men jag tar med dom ändå så att det inte visar sig tillslut att det var dig jag borde ha frågat hela tiden.

Har du någon aning vilka hastighetsbegränsningar det skulle kunna tänkas vara på sträckan korsvägen-mölndal-mölnlycke?

Till Mölndal samma som dagens hastighet, jag tror att det är 160. Mellan Mölndal och Mölnlycke kan du också anta 160.

Vad är det för slags tåg du har använt och hur många passagerare tar dom? Varför har du valt dessa typer?

Jag har i tidtabellsanalyserna utgått från ICE3-tåg för höghastighetståg, växlat för 320 km/h. För snabba regionaltåg som bara stannar i Landvetter och Borås och går hela vägen till Jönköping har jag utgått från ett framtida fordon för 250 km/h. Fordonet finns definierat i vårt gångtidsberäkningsprogram.

Vilkenheadway har de olika tågen?

Ca 3 min. Men vi försöker lägga lite marginal, åtminstone 4 min mellan tågen på linjen.

Var ligger Landvetter södra? Hur skulle hastighetsbegränsningarna se ut runt Landvetter S?

Ca 3 km väster om Landvetter flygplats. VI har sagt att det är 200 km/h som gäller fram till flygplatsen, men det skulle eventuellt gå att höja lite om man vill för korridoren är rak från Mölnlycke till Landvetter flygplats. Det är tunnelstationen som begränsar. I Järnvägsutredningen har man gjort antagandet att det blir hastighetsbegränsningen 200 km/h under Landvetter flygplats, men egentligen vet vi väldigt lite om detta.

Vad för sorts tåg är vilka egnskaper har kust-till-kust tågen?

Anta dagens Regina 200 km/h. Det är lite av en strategisk fråga om vi ska ha så "långsamma" fordon på Götalandsbanan. Ett alternativ är att klassa banan på sådant sätt att man måste köra minst 250 km/h på

banan.

Det här är några av frågorna jag har just nu.

Tack på förhand

Varsågod. Hör av dig igen om du har fler frågor. Om eller när du har något skrivet som du vill ha synpunkter på så får du gärna skicka över.

/Markus

Ylva Höglund

Höglund Ylva

Från:	markus.gunnervall@trafikverket.se
Skickat:	den 16 maj 2011 13:32
Till:	Höglund Ylva
Ämne:	SV: Examensarbete
Bifogade filer:	Tidtabell US4 100824 LL (PLgranskad)_antal tåg.xls; Tidtabell US3 100803 nya gångtider och längder MG 100811.xls; Tidtabell US2 100831 (ELgranskad)_antal tåg.xls; Tidtabell US1 100708 nya gångtider PJ (ELgranskad)_antal tåg.xls

Hej Ylva.

Jag gör så att jag skickar över prognostidtabellerna för de fyra scenarierna. Dessa är inte tidtabeller i vanlig mening utan listor över trafikupplägg som används som indata vid prognoskörningar i Sampers. Titta i fliken Tidtabell. Där finns för varje linje information om t.ex. mellanliggande stationer, restider, antal turer per dygn (kolumn M) och antal turer per timme under högtrafik (kolumn N).

/Markus

Trafikering Europakorridoren US1 Rev mot tdt 100624 rödmarkerat (NODNUMMERKONTROLLERAD)

5011		Mode		Linjesträckning	Stn med uppehåll	Nod	Länk			Uh-tid	ent./d	dbt/d	ht	Tut
011	HH	k	3	Stockholm-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	24	12	2	8
6011	HH	k	3	Stockholm-Göteborg	Göteborgs C	4300	4300601051	02:01:00	02:01	00:00:00	24	12	2	8
5013	HH	k	3	Uppsala-Göteborg	Uppsala C	1400	14004300	00:00:00	00:00	00:00:00	16	8	1	12
5013	HH	k	3	Uppsala-Göteborg	Arlanda central	691281	6912811400	00:18:00	00:18	00:02:00	16	8	1	12
6013	HH	k	3	Uppsala-Göteborg	Solna	684081	684081691281	00:15:00	00:35	00:01:00	16	8	1	12
5013	HH	k	3	Uppsala-Göteborg	Stockholms C	601051	601051684081	00:05:00	00:41	00:04:00	16	8	1	12
5013	HH	k	3	Uppsala-Göteborg	Södertälje syd undre	681101	681101601051	00:17:00	01:02	00:01:00	16	8	1	12
5013	HH	k	3	Uppsala-Göteborg	Norrköpings C	2000	2000681101	00:30:00	01:33	00:02:00	16	8	1	12
5013	HH	k	3	Uppsala-Göteborg	Linköpings C	1900	19002000	00:12:00	01:47	00:02:00	16	8	1	12
5013	HH	k	3	Uppsala-Göteborg	Jönköping S	2110	21101900	00:29:00	02:18	00:02:00	16	8	1	12
5013	HH	k	3	Uppsala-Göteborg	Borâs C	4600	46002110	00:23:00	02:43	00:02:00	16	8	1	1:
5013	HH	k	3	Uppsala-Göteborg	Göteborgs C	4300	43004600	00:23:00	03:08	00:00:00	16	8	1	1:
6014	нн	k	3	Gävle C-Halmstad C	Gävle C	6600	66004300	00:00:00	00:00	00:00:00	4	2	1	4
5014	HH	k	3	Gävle C-Halmstad C	Uppsala C	1400	14006600	00:45:00	00:45	00:02:00	4	2	1	4
5014	HH	k	3	Gävle C-Halmstad C	Arlanda central	691281	6912811400	00:17:00	01:04	00:02:00	4	2	1	4
6014	нн	k	3	Gävle C-Halmstad C	Solna	684081	684081691281	00:16:00	01:22	00:01:00	4	2	1	4
6014	нн	k	3	Gävle C-Halmstad C	Stockholms C	601051	601051684081	00:04:00	01:27	00:04:00	4	2	1	4
014	нн	k	3	Gävle C-Halmstad C	Göteborgs C	4300	4300601051	01:59:00	03:30	00:05:00	4	2	1	4
014	нн	k	3	Gävle C-Halmstad C	Mölndals nedre	4386	43864300	00:07:00	03:42	00:01:00	4	2	1	4
014	HH	k	3	Gävle C-Halmstad C	Varberg	4200	42004386	00:30:00	04:13	00:02:00	4	2	1	4
6014	HH	k	3	Gävle C-Halmstad C	Falkenberg	4201	42014200	00:11:00	04:26	00:01:00	4	2	1	4
014	HH	k	3	Gävle C-Halmstad C	Halmstads C	4100	41004201	00:17:00	04:44	00:00:00	4	2	1	4
015	HH	k	3	Gävle-Uddevalla	Gävle C	6600	66004100	00:00:00	00:00	00:00:00	4	2	1	4
015	нн	k	3	Gävle-Uddevalla	Uppsala C	1400	14006600	00:45:00	00:45	00:02:00	4	2	1	4
015	нн	k	3	Gävle-Uddevalla	Arlanda central	691281	6912811400	00:17:00	01:04	00:02:00	4	2	1	4
015	нн	k	3	Gävle-Uddevalla	Solna	684081	684081691281	00:16:00	01:22	00:01:00	4	2	1	4
015	нн	k	3	Gävle-Uddevalla	Stockholms C	601051	601051684081	00:04:00	01:27	00:04:00	4	2	1	
15	нн	k	3	Gävle-Uddevalla	Göteborgs C	4300	4300601051	01:59:00	03:30	00:05:00	4	2	1	
015	нн	k	3	Gävle-Uddevalla	Trollhättan	4500	45004300	00:30:00	04:05	00:02:00	4	2	1	
)15	нн	k	3	Gävle-Uddevalla	Uddevalla C	4400	44004500	00:20:00	04:27	00:00:00	4	2	1	
016	1250	i	4	Sthlm-Tranås-Göteborg	Stockholms C	601051	6010514400	00:00:00	00:00	00:00:00	16	8	1	
16	1250	i	4	Sthlm-Tranås-Göteborg	Flemingsberg	626091	626091601051	00:11:00	00:00	00:01:00	16	8	1	
16	1250	i	4	Sthlm-Tranås-Göteborg	Södertälje syd undre	681101	681101626091	00:09:00	00:21	00:01:00	16	8	1	
016	1250	1	4	Sthlm-Tranås-Göteborg	Nyköping C	1500	1500681101	00:22:00	00:44	00:01:00	16	8	1	
016	1250	1	4	Sthlm-Tranås-Göteborg	Norrköpings C	2000	20001500	00:19:00	01:04	00:02:00	16	8	1	
016	1250	1	4	Sthim-Tranås-Göteborg	Linköpings C	1900	19002000	00:13:00	01:20	00:02:00	16	8	1	
	1250	1	4	Sthlm-Tranås-Göteborg	Mjölby	1801	18011900	00:14:00	01:36	00:01:00	16	8	1	
016 016	1250	1	4	-		2200			01:55		16	8	1	
		1		Sthlm-Tranås-Göteborg	Tranås		22001801	00:18:00		00:01:00			1	
016	1250	1	4	Sthlm-Tranås-Göteborg	Jönköping S	2110	21102200	00:22:00	02:18	00:10:00	16	8		
016	1250	1	4	Sthlm-Tranås-Göteborg	Ulricehamn	4602	46022110	00:16:00	02:44	00:01:00	16	8	1	
016	1250	1	4	Sthlm-Tranås-Göteborg	Borâs C	4600	46004602	00:11:00	02:56	00:02:00	16	8	1	
016	1250	1	4	Sthlm-Tranås-Göteborg	Landvetter	4317	43174600	00:15:00	03:13	00:02:00	16	8	1	
016	1250	1	4	Sthlm-Tranås-Göteborg	Göteborgs C	4300	43004317	00:14:00	03:29	00:00:00	16	8	1	
512	1250	j	4	Nässjö-Göteborg	Nässjö C	2300	23002600	00:00:00	00:00	00:00:00	32	16	2	
512	1250	1	4	Nässjö-Göteborg	Forserum	2305	23052300	00:11:00	00:11	00:01:00	32	16	2	
512	1250	1	4	Nässjö-Göteborg	Tenhult	2107	21072305	00:07:00	00:19	00:01:00	32	16	2	
512	1250	1	4	Nässjö-Göteborg	Huskvarna	2108	21082107	00:06:00	00:26	00:01:00	32	16	2	
512	1250	1	4	Nässjö-Göteborg	Jönköpings C	2100	21002108	00:05:00	00:32	00:05:00	32	16	2	
512	1250	j	4	Nässjö-Göteborg	Jönköping S	2110	21102100	00:03:00	00:40	00:02:00	32	16	2	
512	1250	j	4	Nässjö-Göteborg	Ulricehamn	4602	46022110	00:16:00	00:58	00:01:00	32	16	2	
12	1250	j	4	Nässjö-Göteborg	Borâs C	4600	46004602	00:11:00	01:10	00:02:00	32	16	2	
512	1250	j	4	Nässjö-Göteborg	Landvetter	4317	43174600		01:26	00:02:00	32	16	2	
512	1250	j	4	Nässjö-Göteborg	Göteborgs C	4300	43004317	00:14:00	01:42	00:00:00	32	16	2	
501	I	j	1	Kalmar-Göteborg	Kalmar C	3000	300064626	00:00:00	00:00	00:00:00	8	4	1	
501	I	j	1	Kalmar-Göteborg	Nybro	3001	30013000	00:18:00	00:18	00:01:00	8	4	1	
501	I.	j	1	Kalmar-Göteborg	Emmaboda	3003	30033001	00:17:00	00:36	00:02:00	8	4	1	
01	I.	j	1	Kalmar-Göteborg	Lessebo	2603	26033003	00:14:00	00:52	00:01:00	8	4	1	
01	I.	j	1	Kalmar-Göteborg	Växjö	2600	26002603	00:20:00	01:13	00:02:00	8	4	1	
01	1	j	1	Kalmar-Göteborg	Alvesta	2602	26022600	00:10:00	01:25	00:02:00	8	4	1	
01	I.	j	1	Kalmar-Göteborg	Värnamo	2400	24002602	00:20:00	01:47	00:02:00	8	4	1	
01	I.	j	1	Kalmar-Göteborg	Gnosjö	2404	24042400	00:20:00	02:09	00:01:00	8	4	1	
01	L	i	1	Kalmar-Göteborg	Hestra	2410	24102404	00:08:00	02:18	00:01:00	8	4	1	
01	Т	j	1	Kalmar-Göteborg	Limmared	4613	46132410	00:12:00	02:31	00:01:00	8	4	1	
01	L	i	1	Kalmar-Göteborg	Borâs C	4600	46004613		03:03	00:02:00	8	4	1	
01	i	i	1	Kalmar-Göteborg	Landvetter	4317	43174600	00:17:00	03:22	00:02:00	8	4	1	
01	L	i	1	Kalmar-Göteborg	Göteborgs C	4300	43004317	00:13:00	03:37	00:00:00	8	4	1	
02	I	i	1	Karlskrona-Göteborg	Karlskrona C	3200	32004300	00:00:00	00:00	00:00:00	8	4	0	
02	i	i	1	Karlskrona-Göteborg	Emmaboda	3003	30033200	00:33:00	00:33	00:02:00	8	4	0	
02	i	i	1	Karlskrona-Göteborg	Lessebo	2603	26033003	00:15:00	00:50	00:01:00	8	4	0	
02	1	1	1	Karlskrona-Göteborg	Hovmantorp	2603	26033003	00:06:00	00:50	00:01:00	8	4	0	
02		1	1	Karlskrona-Göteborg	-	2604	26002604	00:08:00	01:12		8	4	0	
)2)2		1	1	Karlskrona-Göteborg	Växjö Alvesta	2600 2602	26002604	00:14:00	01:12	00:02:00	8	4	0	
	1	1	1	-		2602	26022600	00:10:00			8	4	0	
02		j		Karlskrona-Göteborg	Värnamo				01:45	00:02:00				
02		1	1	Karlskrona-Göteborg	Gnosjö	2404	24042400	00:20:00	02:07	00:01:00	8	4	0	
02		j	1	Karlskrona-Göteborg	Hestra	2410	24102404	00:08:00	02:16	00:01:00	8	4	0	
02	1	j	1	Karlskrona-Göteborg	Limmared	4613	46132410	00:12:00	02:29	00:01:00	8	4	0	
02	I	j	1	Karlskrona-Göteborg	Borâs C	4600	46004613	00:31:00	03:01	00:02:00	8	4	0	
02	1	j	1	Karlskrona-Göteborg	Landvetter	4317	43174600		03:20	00:02:00	8	4	0	
602	I	j	1	Karlskrona-Göteborg	Göteborgs C	4300	43004317	00:13:00	03:35	00:00:00	8	4	0	
701	Ι	j	1	Göteborg-Borås	Göteborgs C	4300	43003000	00:00:00	00:00	00:00:00	46	23	4	
701	I.	j	1	Göteborg-Borås	Liseberg	4385	43854300	00:05:00	00:05	00:01:00	46	23	4	
701	1	j	1	Göteborg-Borås	Mölnlycke	4305	43054385	00:06:00	00:12	00:01:00	46	23	4	
'01	Т	j	1	Göteborg-Borås	Landvetter	4317	43174305	00:06:00	00:19	00:01:00	46	23	4	
	I.	i	1	Göteborg-Borås	Bollebygd	4609	46094317	00:08:00	00:28	00:01:00	46	23	4	
01				Göteborg-Borås	Borâs C	4600	46004609		00:40	00:00:00	46	23	4	

Trafikering Europakorridoren US2 Skillnader mot fd US2-tdt i rött (NODNUMMERKONTROLLERAD))
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Linjenr	Тур	Mode	Vehtype	Linjesträckning	Stn med uppehåll	Nod	Länk	Länktid	Ank.tid	Uh-tid	ent./d	dbt/d	nt Tut
6011	HH	k	3	Stockholm-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	8	4	1 240
6011	HH	k	3	Stockholm-Göteborg	Göteborg C	4300	4300601051	02:01:00	02:01	00:00:00	8	4	1 240
6021	HH	k	3	Stockholm-Borås-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	16	8	1 120
6021	HH	k	3	Stockholm-Borås-Göteborg	Linköpings C	1900	1900601051	00:56:00	00:56	00:02:00	16	8	1 120
6021	HH	k	3	Stockholm-Borås-Göteborg	Borås C	4600	46001900	00:46:00	01:44	00:02:00	16	8	1 120
6021	HH	k	3	Stockholm-Borås-Göteborg	Göteborg C	4300	43004600	00:23:00	02:09	00:00:00	16	8	1 120
6022	HH	k	3	Stockholm-Jönköping-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	16	8	1 120
6022	HH	k	3	Stockholm-Jönköping-Göteborg	Norrköpings C	2000	2000601051	00:45:00	00:45	00:02:00	16	8	1 120
6022	HH	k	3	Stockholm-Jönköping-Göteborg	Jönköping S	2110	21102000	00:39:00	01:26	00:02:00	16	8	1 120
6022	HH	k	3	Stockholm-Jönköping-Göteborg	Göteborg C	4300	43002110	00:41:00	02:09	00:00:00	16	8	1 120
6023	HH	k	3	Sthlm-Nr-LpJö-Bs-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	8	4	1 240
6023	HH	k	3	Sthlm-Nr-LpJö-Bs-Göteborg	Södertälje syd undre	681101	6811014300	00:18:00	00:18	00:01:00	8	4	1 240
6023	HH	k	3	Sthlm-Nr-LpJö-Bs-Göteborg	Skavsta flygplats	1503	0	00:00:00	00:00	00:33:00	0	0	0 0
6023	HH	k	3	Sthlm-Nr-LpJö-Bs-Göteborg	Norrköpings C	2000	2000681101	00:30:00	00:49	00:02:00	8	4	1 240
6023	HH	k	3	Sthlm-Nr-LpJö-Bs-Göteborg	Linköpings C	1900	19002000	00:11:00	01:02	00:02:00	8	4	1 240
6023	HH	k	3	Sthlm-Nr-LpJö-Bs-Göteborg	Jönköping S	2110	21101900	00:29:00	01:33	00:02:00	8	4	1 240
6023	HH	k	3	Sthlm-Nr-LpJö-Bs-Göteborg	Borås C	4600	46002110	00:20:00	01:55	00:02:00	8	4	1 240
6023	HH	k	3	Sthlm-Nr-LpJö-Bs-Göteborg	Göteborg C	4300	43004600	00:23:00	02:20	00:00:00	8	4	1 240
6024	1250	j	4	Sthlm-Tranås-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Flemingsberg		626091601051	00:11:00	00:11	00:01:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Södertälje syd undre		681101626091	00:09:00	00:21	00:01:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Nyköping C	1500	1500681101	00:22:00	00:44	00:01:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Norrköpings C	2000	20001500	00:19:00	01:04	00:02:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Linköpings C	1900	19002000	00:14:00	01:20	00:02:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Mjölby	1801	18011900	00:14:00	01:36	00:01:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Tranås	2200	22001801	00:18:00	01:55	00:01:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Jönköping S	2110	21102200	00:22:00	02:18	00:10:00	16		1 120
6024	1250	j	4	Sthlm-Tranås-Göteborg	Jönköpings C	2100	21002110	00:03:00	02:31	00:00:00	16		1 120
6512	I	j	4	Jönköping-Göteborg	Jönköpings C	2100	21002600	00:00:00	00:00	00:00:00	40		2 48
6512	I	j	4	Jönköping-Göteborg	Jönköping S	2110	21102100	00:04:00	00:04	00:02:00	40		2 48
6512	I	j	4	Jönköping-Göteborg	Ulricehamn	4602		00:15:00	00:21	00:01:00	40		2 48
6512	I	j	4	Jönköping-Göteborg	Borås C	4600	46004602	00:12:00	00:34	00:02:00	40		2 48
6512	1	j	4	Jönköping-Göteborg	Landvetter	4317	43174600	00:13:00	00:49	00:02:00	40		2 48
6512		j	4	Jönköping-Göteborg	Göteborg C	4300	43004317	00:14:00	01:05	00:00:00	40		2 48
9701	1	j	1	Göteborg-Borås	Göteborg C	4300	43003000	00:00:00	00:00	00:00:00	46		4 42
9701	1	j	1	Göteborg-Borås	Liseberg	4385	43854300	00:05:00	00:05	00:01:00	46		4 42
9701	1	j	1	Göteborg-Borås	Mölnlycke	4305	43054385	00:06:00	00:12	00:01:00	46		4 42
9701	1	j	1	Göteborg-Borås	Landvetter	4317	43174305	00:06:00	00:19	00:01:00	46		4 42
9701	1	j	1	Göteborg-Borås	Bollebygd	4609	46094317	00:08:00	00:28	00:01:00	46		4 42
9701	1	j	1	Göteborg-Borås	Borås C	4600	46004609	00:11:00	00:40	00:00:00	46	23	4 42

Trafikering Europakorridoren US3 (NODNUMMERKONTROLLERAD)

Linjenr	Тур	Mode	Vehtype	Linjesträckning	Stn med uppehåll	Nod	Länk	Länktid	Ank.tid	Uh-tid	ent./d	dbt/d	ht
6011	HH	k	3	Stockholm-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	12	6	1
6011	нн	k	3	Stockholm-Göteborg	Skavsta flygplats	1503	0	00:00:00	00:00	00:33:00	0	0	0
6011	HH	k	3	Stockholm-Göteborg	Norrköping F	0	0	00:00:00	00:00	00:33:00	0	0	0
6011	нн	k	3	Stockholm-Göteborg	Tenhult	2107	0	00:00:00	00:00	00:33:00	0	0	0
6011	нн	k	3	Stockholm-Göteborg	Göteborgs C	4300	4300601051 0	1:56:00	01:56	00:00:00	12	6	1
6021	нн	k	3	Stockholm-Borås-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	16	8	1
6021	нн	k	3	Stockholm-Borås-Göteborg	Skavsta flygplats	1503	0	00:00:00	00:00	00:33:00	0	0	0
6021	нн	k	3	Stockholm-Borås-Göteborg	Linköpings C	1900	1900601051	00:54:00	00:54	00:02:00	16	8	1
6021	нн	k	3	Stockholm-Borås-Göteborg	Borås C	4600	46001900	00:49:00	01:45	00:02:00	16	8	1
6021	нн	k	3	Stockholm-Borås-Göteborg	Göteborgs C	4300	43004600	00:23:00	02:10	00:00:00	16	8	1
6022	HH	k	3	Stockholm-Jönköping-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	12	6	1
6022	нн	k	3	Stockholm-Jönköping-Göteborg	Skavsta flygplats	1503	0	00:00:00	00:00	00:33:00	0	0	0
6022	нн	k	3	Stockholm-Jönköping-Göteborg	Norrköping F	0	601051	00:45:00	00:45	00:02:00	12	6	1
6022	нн	k	3	Stockholm-Jönköping-Göteborg	Tenhult	2107	2107	00:35:00	01:22	00:02:00	12	6	1
6022	нн	k	3	Stockholm-Jönköping-Göteborg	Göteborgs C	4300	43002107	00:42:00	02:06	00:00:00	12	6	1
6025	1250	i	4	Norrköping-Göteborg	Norrköpings C	2000	#REF!	00:00:00	00:00	00:00:00	16	8	1
6025	1250	i	4	Norrköping-Göteborg	Norrköping F	0	2000	00:03:00	00:03	00:02:00	16	8	1
6025	1250	i	4	Norrköping-Göteborg	Linköpings C	1900	1900	00:19:00	00:24	00:02:00	16	8	1
6025	1250	i	4	Norrköping-Göteborg	Mjölby	1801	18011900	00:16:00	00:42	00:01:00	16	8	1
6025	1250	i	4	Norrköping-Göteborg	Tranås	2200	22001801	00:17:00	01:00	00:01:00	16	8	1
6025	1250	ı j	4	Norrköping-Göteborg	Tenhult	2107	21072200	00:21:00	01:22	00:01:00	16	8	1
6025	1250	i	4	Norrköping-Göteborg	Ulricehamn	4602	46022107	00:21:00	01:22	00:01:00	16	8	1
		i											
6025	1250		4	Norrköping-Göteborg	Borås C	4600	46004602	00:12:00	01:53	00:01:00	16	8	1
6025	1250	j	4 4	Norrköping-Göteborg	Landvetter	4317	43174600	00:15:00	02:09	00:01:00	16	8	1
6025	1250			Norrköping-Göteborg	Göteborgs C	4300	43004317	00:13:00	02:23	00:00:00	16	8	1
6026	1250	j	4	Jönköping-Göteborg	Jönköpings C	2100	21004300	00:00:00	00:00	00:00:00	24	12	2
6026	1250	j	4	Jönköping-Göteborg	Tenhult	2107	21072100	00:09:00	00:09	00:01:00	24	12	2
6026	1250	j	4	Jönköping-Göteborg	Ulricehamn	4602	46022107	00:17:00	00:27	00:01:00	24	12	2
6026	1250	j	4	Jönköping-Göteborg	Borås C	4600	46004602	00:12:00	00:40	00:01:00	24	12	2
6026	1250	j	4	Jönköping-Göteborg	Landvetter	4317	43174600	00:16:00	00:57	00:01:00	24	12	2
6026	1250	j	4	Jönköping-Göteborg	Göteborgs C	4300	43004317	00:12:00	01:10	00:00:00	24	12	2
9501	I	j	1	Kalmar-Göteborg	Kalmar C	3000	300064626	00:00:00	00:00	00:00:00	12	6	1
9501	I	j	1	Kalmar-Göteborg	Nybro	3001	30013000	00:18:00	00:18	00:01:00	12	6	1
9501	I	j	1	Kalmar-Göteborg	Emmaboda	3003	30033001	00:17:00	00:36	00:02:00	12	6	1
9501	I	j	1	Kalmar-Göteborg	Lessebo	2603	26033003	00:14:00	00:52	00:01:00	12	6	1
9501	I	j	1	Kalmar-Göteborg	Växjö	2600	26002603	00:20:00	01:13	00:02:00	12	6	1
9501	I	j	1	Kalmar-Göteborg	Alvesta	2602	26022600	00:13:00	01:28	00:02:00	12	6	1
9501	I	j	1	Kalmar-Göteborg	Rörstorp	2401	24012602	00:23:00	01:53	00:01:00	12	6	1
9501	I	i	1	Kalmar-Göteborg	Värnamo	2400	24002401	00:04:00	01:58	00:02:00	12	6	1
9501	I	i	1	Kalmar-Göteborg	Gnosjö	2404	24042400	00:19:00	02:19	00:01:00	12	6	1
9501	I.	j	1	Kalmar-Göteborg	Hestra	2410	24102404	00:09:00	02:29	00:01:00	12	6	1
9501	I	j	1	Kalmar-Göteborg	Limmared	4613	46132410	00:11:00	02:41	00:01:00	12	6	1
9501	1	i	1	Kalmar-Göteborg	Borås C	4600	46004613	00:29:00	03:11	00:02:00	12	6	1
9501	1	i	1	Kalmar-Göteborg	Landvetter	4317	43174600	00:29:00	03:42	00:01:00	12	6	1
9501	I	j	1	Kalmar-Göteborg	Göteborgs C	4300	43004317	00:13:00	03:56	00:00:00	12	6	1
9701	I	j	1	Göteborg-Borås	Göteborgs C	4300	43003000	00:00:00	00:00	00:00:00	46	23	4
9701	I	j	1	Göteborg-Borås	Liseberg	4385	43854300	00:05:00	00:05	00:01:00	46	23	4
9701	I	j	1	Göteborg-Borås	Mölnlycke	4305	43054385	00:06:00	00:12	00:01:00	46	23	4
9701	I	j	1	Göteborg-Borås	Landvetter	4317	43174305	00:06:00	00:19	00:01:00	46	23	4
9701	I	i	1	Göteborg-Borås	Bollebygd	4609	46094317	00:09:00	00:29	00:01:00	46	23	4
9701	i	i	1	Göteborg-Borås	Sandared	4610	46104609	00:12:00	00:42	00:01:00	46	23	4
9701	i		1	Göteborg-Borås	Borås C	4600	46004610	00:08:00	00:51	00:00:00	46	23	4

Trafikering Europakorridoren US4 (NODNUMMERKONTROLLERAD)

Linjenr	Тур	Mode	Vehtype	Linjesträckning	NUMMERKONTI Stn med uppehåll	Nod	, Länk	Länktid	Ank.tid	Uh-tid	ent./d	dbt/d	ht	Tut
6011	1250	k	3	Stockholm-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	8	4	1	240
6011	1250	k	3	Stockholm-Göteborg	Göteborgs C	4300	4300601051	02:18:00	02:18	00:00:00	8	4	1	240
6017	1250	k	3	Sthlm C-Halmstad	Stockholms C	601051	6010514900	00:05:00	00:00	00:00:00	4	2	1	480
6017	1250	k	3	Sthlm C-Halmstad	Göteborgs C	4300	43004605	02:18:00	02:18	00:04:00	4	2	1	480
6017	1250	k	3	Sthlm C-Halmstad	Mölndals nedre	4386	43864703	00:07:00	02:29	00:01:00	4	2	1	480
6017	1250	k	3	Sthlm C-Halmstad	Varberg	4200	42004520	00:26:00	02:56	00:02:00	4	2	1	480
6017	1250	k	3	Sthlm C-Halmstad	Falkenberg	4201	42014501	00:11:00	03:09	00:01:00	4	2	1	480
6017	1250	k	3	Sthlm C-Halmstad	Halmstads C	4100	41004400	00:21:00	03:31	00:00:00	4	2	1	480
6021	1250	k	3	Stockholm-Göteborg	Stockholms C	601051	6010514300	00:00:00	00:00	00:00:00	32	16	2	60
6021	1250	k	3	Stockholm-Göteborg	Norrköpings C	2000	2000601051	00:50:00	00:50	00:02:00	32	16	2	60
6021	1250	k	3	Stockholm-Göteborg	Linköpings C	1900	19002000	00:14:00	01:06	00:02:00	32	16	2	60
6021	1250	k	3	Stockholm-Göteborg	Jönköping S	2110	21101900	00:34:00	01:42	00:02:00	32	16	2	60
6021	1250	k	3	Stockholm-Göteborg	Borås C	4600	46002110	00:24:00	02:08	00:02:00	32	16	2	60
6021	1250	k	3	Stockholm-Göteborg	Göteborgs C	4300	43004600	00:25:00	02:35	00:00:00	32	16	2	60
6514	1250	i	4	Jönköping-Göteborg	Jönköpings C	2100	21002600	00:00:00	00:00	00:00:00	40	20	3	48
6514	1250	i	4	Jönlöping-Göteborg	Jönköping S	2110	21102100	00:04:00	00:04	00:02:00	40	20	3	48
6514	1250	i	4	Jönlöping-Göteborg	Ulricehamn	4602	46022110	00:17:00	00:23	00:01:00	40	20	3	48
6514	1250	i	4	Jönlöping-Göteborg	Borås C	4600	46004602	00:11:00	00:35	00:02:00	40	20	3	48
6514	1250	i	4	Jönlöping-Göteborg	Landvetter	4317	43174600	00:14:00	00:51	00:02:00	40	20	3	48
6514	1250	i	4	Jönlöping-Göteborg	Göteborgs C	4300	43004317	00:12:00	01:05	00:00:00	40	20	3	48
9501	Ι	i	1	Kalmar-Göteborg	Kalmar C	3000	300064626	00:00:00	00:00	00:00:00	8	4	1	
9501	I	i	1	Kalmar-Göteborg	Nybro	3001	30013000	00:18:00	00:18	00:01:00	8	4	1	240
9501	I	i	1	Kalmar-Göteborg	Emmaboda	3003	30033001	00:17:00	00:36	00:02:00	8	4	1	240
9501	I	i	1	Kalmar-Göteborg	Lessebo	2603	26033003	00:14:00	00:52	00:01:00	8	4	1	240
9501	I	i	1	Kalmar-Göteborg	Växjö	2600	26002603	00:20:00	01:13	00:02:00	8	4	1	240
9501	I	i	1	Kalmar-Göteborg	Alvesta	2602	26022600	00:11:00	01:26	00:02:00	8	4	1	240
9501	I	i	1	Kalmar-Göteborg	Värnamo	2400	24002602	00:25:00	01:53	00:02:00	8	4	1	240
9501	I	i	1	Kalmar-Göteborg	Gnosjö	2404	24042400	00:20:00	02:15	00:01:00	8	4	1	240
9501	I	i	1	Kalmar-Göteborg	Hestra	2410	24102404	00:08:00	02:24	00:01:00	8	4	1	240
9501	I	j	1	Kalmar-Göteborg	Limmared	4613	46132410	00:12:00	02:37	00:01:00	8	4	1	240
9501	I	j	1	Kalmar-Göteborg	Borås C	4600	46004613	00:29:00	03:07	00:02:00	8	4	1	240
9501	T	i	1	Kalmar-Göteborg	Landvetter	4317	43174600	00:17:00	03:26	00:02:00	8	4	1	240
9501	I	j	1	Kalmar-Göteborg	Göteborgs C	4300	43004317	00:14:00	03:42	00:00:00	8	4	1	240
9502	Ι	j	1	Karlskrona-Göteborg	Karlskrona C	3200	32004300	00:00:00	00:00	00:00:00	8	4	0	240
9502	I	j	1	Karlskrona-Göteborg	Emmaboda	3003	30033200	00:33:00	00:33	00:02:00	8	4	0	240
9502	I	j	1	Karlskrona-Göteborg	Lessebo	2603	26033003	00:15:00	00:50	00:01:00	8	4	0	240
9502	I	j	1	Karlskrona-Göteborg	Hovmantorp	2604	26042603	00:06:00	00:57	00:01:00	8	4	0	240
9502	I.	j	1	Karlskrona-Göteborg	Växjö	2600	26002604	00:14:00	01:12	00:02:00	8	4	0	240
9502	I.	j	1	Karlskrona-Göteborg	Alvesta	2602	26022600	00:11:00	01:25	00:01:00	8	4	0	240
9502	I.	j	1	Karlskrona-Göteborg	Värnamo	2400	24002602	00:25:00	01:51	00:02:00	8	4	0	240
9502	I.	j	1	Karlskrona-Göteborg	Gnosjö	2404	24042400	00:20:00	02:13	00:01:00	8	4	0	240
9502	I.	j	1	Karlskrona-Göteborg	Hestra	2410	24102404	00:08:00	02:22	00:01:00	8	4	0	240
9502	I	j	1	Karlskrona-Göteborg	Limmared	4613	46132410	00:12:00	02:35	00:01:00	8	4	0	240
9502	I	j	1	Karlskrona-Göteborg	Borås C	4600	46004613	00:31:00	03:07	00:02:00	8	4	0	240
9502	I	j	1	Karlskrona-Göteborg	Landvetter	4317	43174600	00:17:00	03:26	00:02:00	8	4	0	240
9502	1	j	1	Karlskrona-Göteborg	Göteborgs C	4300	43004317	00:13:00	03:41	00:00:00	8	4	0	240
9701	Ι	j	1	Göteborg-Borås	Göteborgs C	4300	43003000	00:00:00	00:00	00:00:00	46	23	4	42
9701	I	j	1	Göteborg-Borås	Liseberg	4385	43854300	00:05:00	00:05	00:01:00	46	23	4	42
9701	I	j	1	Göteborg-Borås	Mölnlycke	4305	43054385	00:06:00	00:12	00:01:00	46	23	4	42
9701	Ι	j	1	Göteborg-Borås	Landvetter	4317	43174305	00:07:00	00:20	00:01:00	46	23	4	42
9701	I	j	1	Göteborg-Borås	Bollebygd	4609	46094317	00:08:00	00:29	00:01:00	46	23	4	42
9701	1	;	1	Göteborg-Borås	Borås C	4600	46004609	00:11:00	00:41	00:00:00	46	23	4	42

Appendix 2 - Calculations of travel time

- 1. Train properties and time at station
- 2. Traveling time: High speed train in US1, US2, US3
- 3. Traveling time: Large regional train in US1, US2, US3
- 4. Traveling time: Commuter train in US1, US2, US3
- 5. Traveling time: Coast-to-coast train in US1, US2, US3
- 6. Traveling time: High speed train in US4
- 7. Traveling time: Large regional train in US4
- 8. Traveling time: Commuter train in US4
- 9. Traveling time: Coast-to-coast train in US4

LRT - mean acceleration	max = 250 km/l	h Stops:	Gothenburg,	airport	t, Bi	iorâs						LRT - mean acceleration	max = 250 km/h	Stops:	Gothenburg,		Во	orâs				
	Distance from	Castiana			Conned		istance			Time (minute	-1		Distance from	Castiana			C					Time (minutes)
	Gothenburg [km]	Sections [km]	[m]	[km/h]	Speed			ween (km) To	tal (km) Be	Time (minute tween Tot			Gothenburg [km]	Sections [km]	[m]	[km/	Speed		tance ween [m] Be	etween [km] To	tal [km] Be	Time [minutes] tween Total
Göteborg	[hill]	0	[]	0	0	0,000	0.000	0.000	0.000		0.000	Göteborg	[,]		[]	0	0	0,000	0.000	0.000	0.000	0.000 0.000
				+	+	-,	561,167	0,561	0,561	0,867	0,867					+	+	-,	561,167	0,561	0,561	0,867 0,867
					80	22,222	938,833	0,939	1,500		1,592						80	22,222	938,833	0,939	1,500	0,725 1,592
				1	1		0,000	0,000	1,500		1,592					1	1		0,000	0,000	1,500	0,000 1,592
Haga		1,5	1,5	1500	80	22,222	0,000 0,000	0,000	1,500 1,500		1,592 1,592	Haga	1,5	5 1,5	-	1500	80	22,222	0,000	0,000	1,500 1,500	0,000 1,592 0,000 1,592
				1	80	22,222	1500,000	1,500	3,000		2,751					1	80 80	22,222	1500,000	1,500	1,500	1,159 2,751
				1	00 I	22,222	0,000	0,000	3,000		2,751					1	80 I	22,222	0.000	0,000	3,000	0,000 2,751
Korsvägen		3	1,5	1500	80	22,222	0,000	0,000	3,000		2,751	Korsvägen	3	1,5	:	1500	80	22,222	0,000	0,000	3,000	0,000 2,751
				I.	1		0,000	0,000	3,000		2,751					1	1		0,000	0,000	3,000	0,000 2,751
		3	0	0	80	22,222	0,000	0,000	3,000	-,	2,751		3	8 0		0	80	22,222	0,000	0,000	3,000	0,000 2,751
				+	200 +	55,556	4469,987 6530,013	4,470 6,530	7,470 14,000		4,724 6,742					+	+ 200	55,556	4469,987 6530,013	4,470 6,530	7,470 14,000	1,973 4,724 2,018 6,742
				1	200	33,330	0,000	0,000	14,000		6,742					+	200 +	33,330	0.000	0,000	14,000	0,000 6,742
Mölnlycke		14	11	11000	200	55,556	0,000	0,000	14,000		6,742	Mölnlycke	14	11	1:	1000	200	55,556	0,000	0,000	14,000	0,000 6,742
				+	+		1272,382	1,272	15,272		7,121					+	+		1272,382	1,272	15,272	0,379 7,121
		16	2	2000	215	59,722	327,348	0,327	15,600		7,215		16	5 2	1	2000	215	59,722	327,348	0,327	15,600	0,094 7,215
				-	- 200	FF FFC	400,270 5427,984	0,400 5,428	16,000		7,334					-	- 200	FF FFC	400,270 8000.000	0,400 8.000	16,000 24.000	0,119 7,334 2,472 9,806
				-	200	55,556	2572,016	2,572	21,428 24,000		9,011 10,601					1	200	55,556	0,000	0,000	24,000	0,000 9,806
Landvetter flp		24	8	8000	0	0,000	0,000	0,000	24,000		12,101	Landvetter flp	24	1 8	1	3000	200	55,556	0,000	0,000	24,000	0,000 9,806
				+	+		7716,049	7,716	31,716	3,815 1	15,916					+	+		5341,880	5,342	29,342	1,467 11,273
		24	0	0	250	69,444	0,000	0,000	31,716		15,916		24	i 0		0	250	69,444	0,000	0,000	29,342	0,000 11,273
				1	1		0,000	0,000	31,716		15,916					I	1		0,000	0,000	29,342	0,000 11,273
					250	69,444	8283,951 0,000	8,284 0.000	40,000 40.000	2,048 1	17,964						250	69,444	10658,120 0.000	10,658 0.000	40,000 40.000	2,635 13,908 0.000 13,908
Kråktorp		40	16	16000	250	69,444	0.000	0.000	40,000	0.000 1		Kråktorp	40) 16	10	5000	250	69.444	0.000	0.000	40,000	0.000 13.908
				1	1		0,000	0,000	40,000	0,000 1	17,964					1	1		0,000	0,000	40,000	0,000 13,908
		60	20	20000	250	69,444	19382,716	19,383	59,383		22,755		60	20	20	0000	250	69,444	19382,716	19,383	59,383	4,791 18,700
				-	-		617,284	0,617	60,000		22,914					-	-		617,284	0,617	60,000	0,159 18,858
					230	63,889	1598,508 3401,492	1,599 3,401	61,599 65,000	0,430 2 1,828 2	23,343						230	63,889	1598,508 3401,492	1,599 3,401	61,599 65,000	0,430 19,288 1,828 21,116
Borâs		65	5	5000	0	0,000	0.000	0.000	65,000	0,000 2		Borâs	65	5 5		5000	0	0,000	0,000	0,000	65,000	0,000 21,116
						.,	.,	.,		.,	- /							.,	-,	.,		.,,
LRT - mean	"				_							LRT - mean		_			_					
LRT - mean acceleration	max = 250 km/l	h Stops:	Gothenburg,	airport	t, Bi	lorâs						LRT - mean acceleration	max = 250 km/h	Stops:	Gothenburg,		Во	orâs				
	Distance from	h Stops:	Gothenburg,	airport			istance			Time (minute			Distance from	Stops:	Gothenburg,				tance			Time [minutes]
			Gothenburg,	airport [km/h]	Speed	Di		ween [km] Ta	tal [km] Bé	Time [minute tween Tot					Gothenburg,	[km/	Speed	1 Dis		etween [km] To	tal [km] Be	Time [minutes] tween Total
	Distance from Gothenburg	Sections			Speed	Di	etween [m] Bet 0,000	0,000	0,000	etween Tot 0,000	tal 0,000		Distance from Gothenburg	Sections [km]	[m]	<i>[km/</i> 0	Speed	1 Dis	tween [m] Be 0,000	0,000	0,000	tween Total 0,000 0,000
acceleration	Distance from Gothenburg	Sections [km] 0	[<i>m</i>] 0	[km/h] 0 +	Speed [n 0 +	Di m/s] Be 0,000	etween [m] Bet 0,000 4967,559	0,000 4,968	0,000 4,968	etween Tot 0,000 2,924	tal 0,000 2,924	acceleration	Distance from Gothenburg [km]	Sections [km]) 0	[m]	0 +	Speed h] [m 0 +	l Dis n/s] Be 0,000	ween [m] Be 0,000 4967,559	0,000 4,968	0,000 4,968	tween Total 0,000 0,000 2,924 2,924
acceleration	Distance from Gothenburg	Sections [km]	[m]	[km/h]	Speed [n	Di m/s] Be	etween [m] Bet 0,000 4967,559 32,441	0,000 4,968 0,032	0,000 4,968 5,000	etween Tot 0,000 2,924 0,010	tal 0,000 2,924 2,933	acceleration	Distance from Gothenburg [km]	Sections [km]) 0	[m]		Speed h] [m	l Dis n/s] Be	ween [m] Be 0,000 4967,559 32,441	0,000 4,968 0,032	0,000 4,968 5,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933
acceleration	Distance from Gothenburg	Sections [km] 0	[<i>m</i>] 0	[km/h] 0 +	Speed [n 0 + 210 +	Di m/s] Be 0,000 58,333	etween [m] Bet 0,000 4967,559 32,441 4579,849	0,000 4,968 0,032 4,580	0,000 4,968 5,000 9,580	etween Tot 0,000 2,924 0,010 1,231	tal 0,000 2,924 2,933 4,164	acceleration	Distance from Gothenburg [km]	Sections [km]) 0	[m]	0 +	Speed h] [m 0 + 210 +	d Dis n/s] Ber 0,000 58,333	tween [m] Bo 0,000 4967,559 32,441 4579,849	0,000 4,968 0,032 4,580	0,000 4,968 5,000 9,580	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164
acceleration	Distance from Gothenburg	Sections [km] 0	[<i>m</i>] 0	[km/h] 0 +	Speed [n 0 +	Di m/s] Be 0,000	etween [m] Bet 0,000 4967,559 32,441	0,000 4,968 0,032	0,000 4,968 5,000	etween Tot 0,000 2,924 0,010 1,231 3,812	tal 0,000 2,924 2,933	acceleration	Distance from Gothenburg [km]	Sections [km]) 0	[m]	0 +	Speed h] [m 0 +	l Dis n/s] Be 0,000	ween [m] Be 0,000 4967,559 32,441	0,000 4,968 0,032	0,000 4,968 5,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933
acceleration	Distance from Gothenburg [km]	Sections [km] 0	[<i>m</i>] 0	[km/h] 0 +	Speed [n 0 + 210 +	Di m/s] Be 0,000 58,333	etween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000	4,968 5,000 9,580 25,000 25,000 25,000	etween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000	tal 0,000 2,924 2,933 4,164 7,976 7,976 7,976	acceleration	Distance from Gothenburg [km]	Sections [km]) 0	[m]	0 +	Speed h] [m 0 + 210 +	d Dis n/s] Ber 0,000 58,333	ween [m] Bu 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5	[<i>m</i>] 0 5	[km/h] 0 + 5000 + 20000 	Speed [n 210 + 250 250 	Di m/s] Ba 0,000 58,333 69,444 69,444	tiween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000	25,000 25,000 25,000 25,000 25,000 25,000	etween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000	tal 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976	acceleration Borås	Distance from Gothenburg [km] (Sections [km] 0 5 5 5 20	[m] 20	0 + 5000 + + 0000	Speed h] [m + 210 + 250 250 	d Dis n/s] Bei 0,000 58,333 69,444 69,444	ween [m] Ba 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0	[<i>m</i>] 0 5	[km/h] 0 + 5000 + +	Speed [n 0 + 210 + 250 	Di m/s] Bi 0,000 58,333 69,444	ttween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	etween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000	2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976	acceleration Borås	Distance from Gothenburg [km] (Sections [km] 0 5 5 5 20	[m] 20	0 5000 + 	Speed h] [m 0 + 210 + 250 	d Dis n/s] Bet 0,000 58,333 69,444	ween [m] Ba 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 14000,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 14,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 39,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 3,461 11,437
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5	[<i>m</i>] 0 5	[km/h] 0 + 5000 + 20000 	Speed [n 210 + 250 250 250 	Di m/s] Be 0,000 58,333 69,444 69,444 69,444	tween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 0,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 25,000 25,000	Etween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976	acceleration Borås	Distance from Gothenburg [km] (Sections [km] 0 5 5 5 20	[m] 20	0 + 5000 + + 0000	Speed h] [m 0 + 210 + 250 250 250 	d Dis n/s] Bet 0,000 58,333 69,444 69,444 69,444	ween [m] B4 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 14000,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 14,000 0,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 39,000 39,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5	[<i>m</i>] 0 5	[km/h] 0 + 5000 + 20000 	Speed [n 210 + 250 250 	Di m/s] Ba 0,000 58,333 69,444 69,444	ttween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	tween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 2,962 1	2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 7,976	acceleration Borås	Distance from Gothenburg [km] (Sections [km] 0 5 5 5 20	[m] 20	0 + 5000 + + 0000	Speed h] [m + 210 + 250 250 	d Dis n/s] Bei 0,000 58,333 69,444 69,444	ween [m] Ba 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 14000,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 14,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 39,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 3,461 11,437
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5 25 25	[<i>m</i>] 0 5	[km/h] 0 + 5000 + 20000 	Speed [n 210 + 250 250 250 	Di m/s] Be 0,000 58,333 69,444 69,444 69,444	Autom Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 0,000 1,981 4,019 0,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000	Etween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,962 1 1,500 1	7,976 7,976 7,976 7,976 7,976 7,976 7,976 7,976 7,976 7,976 10,938 12,924 12,924	acceleration Borås	Distance from Gothenburg [km] (Sections [km] [km] 0 0 5 5 20 9 14	[m] 2(1/	0 + 5000 + + 0000	Speed h] [m 0 + 210 + 250 250 250 	d Dis n/s] Bet 0,000 58,333 69,444 69,444 69,444	Image: market market 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 14000,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 553,241	0,000 4,968 0,032 4,580 15,420 0,000 0,000 14,000 0,000 0,000 0,000 0,000 0,553	0,000 4,968 5,000 9,580 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,553	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 11,437 0,000 11,437 0,000 11,437
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 25 41	(<i>m</i>) 0 5 20 0	[km/h] 0 + 5000 + 20000 0 16000 +	Speed [n 0 + 250 1 250 1 250 - 0 + 250 - 0 + 250 - 0 + 250 - 0 + 250 - 0 - - - - - - - - - - - - -	D, m/s] B4 58,333 69,444 69,444 69,444 69,444 0,000	tween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 4409,171	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000	Etween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,962 1,987 1 1,500 1 2,725 1	tal 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 10,938 12,924 14,424 14,149	acceleration Borås Bollebyg	Distance from Gothenburg [km] (2 3 3	Sections [km] 0 0 5 5 5 20 9 14	[m] 20 14	0 + 5000 + 1000 1000 100 1000 1000	Speed h) [m + 210 + 250 250 250 250 250 250	d Dis p/s] Be 0,000 58,333 69,444 69,444 69,444 69,444	Ween [m] Bi 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 14000,000 14000,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1406,559 140	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447	0,000 4,968 5,000 9,580 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,553 41,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 11,437 0,000 11,437 0,307 11,573 0,337 11,971
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25	[<i>m</i>] 0 5 20 0	[km/h] 0 + 5000 + 20000 0 16000	Speed (n 210 + 250 250 25 25	Di 0,000 58,333 69,444 69,444 69,444 69,444	Tween [m] Bet 0,000 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4118,776 0,000 4003,171 3590,829 3590,829	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 1,981 4,019 0,000 4,409 3,591	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000	Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,962 1,987 1,500 1,110	tal 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 10,938 12,924 14,424 17,149 18,259	acceleration Borås Bollebyg	Distance from Gothenburg [km] (25	Sections [km] 0 0 5 5 5 20 9 14	[m] 20 14	0 + 5000 + 10000 10000 100	Speed h] [m 0 + 210 + 250 250 250 250 250 	 Dis <i>j</i>/s] Bei 0,000 58,333 69,444 69,444 69,444 69,444 	ween [m] Bi 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 14000,000 0,000 14000,000 0,000 0,000 553,241 1446,759 8000,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,0553 1,447 8,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,971 0,000 11,437 0,000 11,437 0,000 11,437 0,137 11,573 0,397 11,971 2,472 14,443
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 25 41	(<i>m</i>) 0 5 20 0	[km/h] 0 + 5000 + 20000 0 16000 +	Speed [n 0 + 210 + 250 250 250 250 250 - 0 + 200 + 200 +	Di m/s] Be 58,333 69,444 69,444 69,444 69,444 0,000 55,556	tween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 4409,171 3590,829 1272,382	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 45,409 49,000 50,272	Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,587 1,500 2,725 1,1,10 0,379	xi 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 7,976 10,938 12,924 14,424 12,424 12,424 12,424 12,424 12,928 18,638	acceleration Borås Bollebyg	Distance from Gothenburg [km] (2 3 3	Sections [km] 0 0 5 5 5 20 9 14	[m] 20 14	0 + 5000 + 1000 1000 100 1000 1000	Speed h) [m 210 + 250 250 1 250 250 250	Display Displa	Meen [m] Bit 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 1,4000,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 553,241 1446,759 14400,000 1272,382	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272	0,000 4,968 5,000 9,580 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,553 41,000 49,000 50,272	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437 0,000 11,437 0,000 11,437 0,000 11,437 0,371 11,573 0,337 11,971 2,472 14,482
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 25 41	(<i>m</i>) 0 5 20 0	[km/h] 0 + 5000 + 20000 0 16000 +	Speed [n 0 + 250 1 250 1 250 - 0 + 250 - 0 + 250 - 0 + 250 - 0 + 250 - 0 - - - - - - - - - - - - -	D, m/s] B4 58,333 69,444 69,444 69,444 69,444 0,000	Tween [m] Bet 0,000 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4118,776 0,000 4003,171 3590,829 3590,829	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 1,981 4,019 0,000 4,409 3,591	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000	ttween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,962 1,962 1 1,870 1 1,500 1 1,500 1 0,379 1 0,379 1 0,379 1	tal 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 10,938 12,924 14,424 17,149 18,259	acceleration Borås Bollebyg	Distance from Gothenburg [km] (2 3 3	Sections [km] 0 0 5 5 5 20 9 14	[m] 20 14	0 + 5000 + 1000 1000 100 1000 1000	Speed h) [m + 210 + 250 250 250 250 250 250	d Dis p/s] Be 0,000 58,333 69,444 69,444 69,444 69,444	ween [m] Bi 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 14000,000 0,000 14000,000 0,000 0,000 553,241 1446,759 8000,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,0553 1,447 8,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,971 0,000 11,437 0,000 11,437 0,000 11,437 0,137 11,573 0,397 11,971 2,472 14,443
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 25 41	(<i>m</i>) 0 5 20 0	[km/h] 0 + 5000 + 20000 0 16000 +	Speed [n 0 + 210 + 250 250 250 250 250 - 0 + 200 + 200 +	Di m/s] Be 58,333 69,444 69,444 69,444 69,444 0,000 55,556	rtween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 14409,171 3550,829 1277,382 327,348 0,000 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272 0,327 0,000 0,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000 45,409 40,002 50,600 50,600	ttween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,937 1,500 1,500 1,500 1,500 0,037 1,500 0,039 1 0,039 1 0,039 1 0,039 1 0,039 1 0,000 1 0,000 1 0,000 1	a/ 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 10,938 12,924 14,424 14,424 17,149 18,638 18,638 18,638	acceleration Borås Bollebyg	Distance from Gothenburg [km] (2 3 3	Sections [km] 0 5 5 5 20 9 14 1 2 9 8	[m] 	0 + 5000 + 1000 1000 100 1000 1000	Speed h) [m 210 + 250 250 1 250 250 250	Display Displa	ween [m] Bit 0,000 4967,559 32,441 4967,849 15420,151 5420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 533,241 1446,759 8000,000 1272,382 327,348 0,000 0,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,000 0,000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,553 41,000 49,000 50,600	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 11,437 0,000 11,437 0,137 11,573 0,397 11,971 2,472 14,482 0,374 14,812 0,094 14,916 0,000 14,916
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51	[<i>m</i>] 0 5 20 0 16 8 2	[km/h] 0 + 5000 + 20000 1 16000 + 8000 + 20000 +	Speed (n 210 + 250 250 250 - 2 200 - 2 2 2 2	Di 0,000 58,333 69,444 69,444 69,444 69,444 0,000 55,556 59,722 59,722	Type Bet 0,000 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 15420,151 0,000 0,000 0,000 11981,224 4018,776 0,000 4409,171 3590,629 1272,382 1277,382 327,348 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,551 1,272 0,327 0,000 0,000 0,000 0,000	0,000 4,968 5,000 9,580 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000 45,409 49,000 50,600 50,600 50,600	ttween Tot 0,000 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,987 1,1987 1,1,100 1,2,725 1,1,110 0,0794 1,0,000 0,000 1,0,000 0,000 1,0,000 0,000 1,0,000 0,000 1,0,000 0,000 1,0,000	o/ 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 10,938 12,924 14,424 12,924 14,424 14,129 18,259 18,638 18,259 18,732 18,732	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] (21 35 45 45	Sections [km] 0 5 5 5 200 0 14 1 2 9 8	(m) 20 14	0 + 5000 + 1 0000 1 4000 2000 3000 + 2000 - - 2000 - -	Speed h) [m + 210 + 250 250 25 25	Dist Dist 0,000 Bei 0,000 S8,333 69,444 69,444 69,444 69,444 69,444 55,556 59,722 59,722	mene mene 0,000 4967,559 4967,559 32,441 4579,849 0,000 0,000 0,000 1400,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1272,382 237,342 237,342 0,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,000 0,000 0,000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 49,000 50,600 50,600 50,600 51,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 11,437 0,307 11,437 0,307 11,437 0,337 11,437 0,337 11,437 0,379 14,822 0,939 14,822 0,939 14,823 0,379 14,824 0,379 14,825 0,000 14,916 0,000 14,916 0,010 14,916 0,119 15,035
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51	[m] 0 5 20 0 16 8	(km/h) 0 + 5000 + 20000 1 0 1 5000 + 8000 + 1	Speed (n 250 250 250 250 250 250 250 250 250 250	Di potential pot	Tween [m] Bet 0,000 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 4008,771 3590,829 1272,382 327,348 0,000 0,000 4000,270 7500,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272 0,327 0,020 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 45,409 40,000 45,409 40,000 50,272 50,600 50,600 50,600 50,600 50,600	ttween Tot 0,000 2,924 0,101 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,231 1,500 1,510 1,510 1,510 0,0379 1 0,000 0,000 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,011 1 0,2182 2	or 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 7,976 1,979 1,976 1,9	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] (25 35 45 45	Sections [km] 0 5 5 5 200 0 14 1 2 9 8	(m) 20 14	0 + 5000 + 10000 10000 20000 - 30000 + 1	Speed h) [m + 210 + 250 250 1 250 250 25 25	Display the provided and provid	weeen [m] Bi 4967,559 32,441 457,9549 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1532,241 1446,759 1446,759 237,348 0,000 0,000 0,000 0,000 0,000 750,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,020 0,000 0,275 0,375	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 50,000 50,600 50,600 50,600 50,600	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437 0,000 1,437 0,137 11,573 0,397 11,971 2,472 14,482 0,094 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51	[<i>m</i>] 0 5 20 0 16 8 2	[km/h] 0 + 5000 + 20000 1 16000 + 8000 + 20000 +	Speed (n 210 + 250 250 250 250 250 250 250 250 250 250	Di 0,000 58,333 69,444 69,444 69,444 69,444 0,000 55,556 59,722 59,722 55,556	Tween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 14981,224 4018,776 0,000 13590,829 1277,382 327,348 0,000 0,000 400,270 7500,000 821,709	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 1,1,981 4,019 0,000 4,409 3,591 1,272 0,327 0,027 0,000 0,000 0,400 0,400 0,400 0,400 0,400 0,400 0,400 0,422	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 45,409 45,409 45,409 45,409 45,409 50,620 50,600 50,600 51,000 51,000 51,200	ttween Tot 0,000 2,924 0,010 2,924 0,010 3,812 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 1,587 1 1,510 1 2,725 1 1,110 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,004 1 0,119 1 2,318 2 0,0248 2	of 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 7,976 7,976 10,938 12,924 14,424 14,424 14,424 14,299 18,638 18,732 18,732 18,732 18,732 18,732	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] (21 35 45 45	Sections [km] 0 5 5 5 200 0 14 1 2 9 8	(m) 20 14	0 + 5000 + 1 0000 1 4000 2000 3000 + 2000 - - 2000 - -	Speed h) [m] 250 250 250 250 250 250 200 4 215 215 200 4 4 200 4 4 200 200	Dis 1/5] Bei 0,000 58,333 69,444 69,444 69,444 69,444 69,444 55,556 59,722 59,722 55,556 55,556	weeken [m] Bit 0,000 4967,559 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 400,270 7560,000 821,709 821,709	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,327 0,000 0,000 0,400 0,400 0,400 0,400 0,400 0,400 0,400 0,400 0,400 0,400 0,400 0,400 0,553 0,555	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 50,000 50,600 50,600 50,600 50,600 51,000 51,000 51,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 11,437 0,000 11,437 0,397 11,437 0,397 14,822 0,000 1,911 0,397 14,822 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,119 15,035 0,318 17,352 0,248 17,600
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51	[<i>m</i>] 0 5 20 0 16 8 2	[km/h] 0 + 5000 + 20000 1 16000 + 8000 + 20000 +	Speed (n 210 + 250 250 250 - 2 200 - 2 2 2 2	Di 0,000 58,333 69,444 69,444 69,444 69,444 0,000 55,556 59,722 59,722	Tween [m] Bet 0,000 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 4008,771 3590,829 1272,382 327,348 0,000 0,000 4000,270 7500,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272 0,327 0,020 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 45,409 40,000 45,409 40,000 50,272 50,600 50,600 50,600 50,600 50,600	ttween Tot 0,000 2,924 0,010 1,231 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,231 1,500 1 1,500 1 1,500 1 0,379 1 0,379 1 0,000 1 0,000 1 0,000 1 0,379 1 0,000 1 0,000 1 0,000 1 0,000 1 0,379 1 0,000 1 0,000 1 0,000 1 0,000 1 0,119 1 2,318 2 0,007 2 0,007 2	or 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 7,976 1,977 1,976 1,978 1,924 14,424 14,424 14,17149 18,638 18,732 18,638 18,732 18,732	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] (21 35 45 45	Sections [km] 0 5 5 5 200 0 14 1 2 9 8	(m) 20 14	0 + 5000 + 1 0000 1 4000 2000 3000 + 2000 - - 2000 - -	Speed h) [m + 210 + 250 250 25 25	Dist Dist 0,000 Bei 0,000 S8,333 69,444 69,444 69,444 69,444 69,444 55,556 59,722 59,722	weeen [m] Bi 4967,559 32,441 457,9549 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1532,241 1446,759 1446,759 237,348 0,000 0,000 0,000 0,000 0,000 750,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,020 0,000 0,275 0,375	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 50,000 50,600 50,600 50,600 50,600	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437 0,000 1,437 0,137 11,573 0,397 11,971 2,472 14,482 0,094 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 25 41 49 51 51 58,5	[<i>m</i>] 0 5 20 0 16 8 2	[km/h] 0 + 5000 + 20000 1 16000 + 8000 + 20000 +	Speed (n 210 + 250 250 250 250 250 250 250 250 250 250	Di 0,000 58,333 69,444 69,444 69,444 69,444 0,000 55,556 59,722 59,722 55,556	tiveen [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 4409,171 3590,629 1277,382 327,348 0,000 0,000 400,270 7500,000 821,709 254,165 0,000 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000 50,272 50,600 50,600 50,600 50,600 51,000 55,500 59,576	ttween Tot 0,000 2,924 0,010 1,231 1,331 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,387 1,550 1 1,570 1 1,570 1 0,700 1 0,700 1 0,797 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 1 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2	o/ 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 10,938 14,424 14,424 14,424 14,424 14,429 18,732 18,732 18,732 18,732 18,732 18,732 11,469	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] (21 35 45 45	Sections [km] 0 5 5 5 20 9 14 1 2 9 8 1 2 5 7,5	[m] 21 14	0 + 5000 + 1 0000 1 4000 2000 3000 + 2000 - - 2000 - -	Speed h) [m] 250 250 250 250 250 250 200 4 215 215 200 4 4 200 4 4 200 200	Dis 1/5] Bei 0,000 58,333 69,444 69,444 69,444 69,444 69,444 55,556 59,722 59,722 55,556 55,556	mene Bit 0,000 4967,559 4967,559 32,441 4579,849 0,000 1,520,151 0,000 0,000 0,000 1,400,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1272,382 327,342 327,382 0,000 0,000 0,000 0,000 0,000 0,000 254,165 0,000 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 0,000 1,272 0,327 0,000 0,000 0,400 0,7,500 0,822 0,254 0,000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,553 41,000 49,000 50,272 50,600 50,600 50,600 50,600 50,600 50,600 50,50	tween Total 0,000 0,000 2,924 0,010 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437 0,137 11,573 0,397 1,1971 2,472 1,4423 0,397 14,822 0,094 14,916 0,000 14,916 0,019 15,035 2,318 17,352 0,248 17,650 0,000 17,675 0,000 17,675
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 25 41 49 51 51 58,5	[<i>m</i>] 0 5 20 0 16 8 2 7,5	[km/h] 0 + 5000 + 20000 1 0 1 16000 + 8000 + 2000 + 2000 + 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed (n 210 + 250 250 250 - 200 - 215 - 215 - 215 - 215 - 215 - 215 - 215 - 215 - 215 - 215 - 210 - 215 - 210 - - 210 - - - - - - - - - - - - -	D) m/s) B4 58,333 69,444 69,444 69,444 69,444 0,000 55,556 59,722 59,722 55,556 58,333 58,333	Tween [m] Bet 0,000 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 4018,771 3590,829 1272,382 327,348 0,000 0,000 400,070 0,000 400,070 7500,000 821,709 254,165 0,000 0,000 2424,126 165	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272 0,327 0,020 0,000 0,400 7,500 0,400 7,500 0,400 0,524 0,000 0,000 0,2244	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 45,409 40,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,5000 50,5000 50,500 50,5000 50,5000 50,5000 50,5000 50,500	ttween Tot 0,000 2,924 0,010 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 1,987 1,1,500 1 1,987 1 1,974 1 0,000 1 0,000 1 0,994 1 0,004 1 0,005 1 0,119 1 2,318 2 0,468 2 0,000 2 0,000 2 0,000 2 0,248 2 0,468 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2	of 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 1,976 10,938 12,924 4,424 4,424 4,424 4,424 4,424 4,425 4,109 38,638 18,732 18,638 18,732 18,638 18,732 18,638 18,732 11,169 21,441 21,491 21,491	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km] (22 33 42 45 53 58,5	Sections [km] 0 5 5 5 20 9 14 1 2 9 8 1 2 5 7,5	[m] 21 14	0 + 5000 + 1 0000 1 0000 1 0000 20000 - 5000 + 1 0 2000 - 1 - 5000 + 1 2000 1 1 2000 1 1 2000 1 1 2000	Speed h) [m] 0 + 210 + 250 250 210 250 200 250 200 250 200 250 200 250 200 250 200 20 200 - 200 200 200	 bis bis	weeen [m] Bit 0,000 4967,559 32,441 457,5849 457,9849 15420,151 0,000 0,000 14000,000 0,000 14000,000 0,000 14000,000 0,000 23,27,348 0,000 0,000 0,000 1272,382 327,348 0,000 820,000 8200,0270 7550,000 7550,000 821,165 0,000 0,000 224,125 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,000 0,000 0,400 7,500 0,000 0,400 0,554 0,000 0,400 0,554 0,000 0,400 0,553 1,447 1,477 0,0000 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 55,000 50,600 50,600 50,600 50,600 50,600 50,600 51,000 51,000 55,000 51,000 55,000 55,000 55,000 55,000 55,000 55,000 50,0000 50,0000 50,0000 50,0000 50,0000 50,0000 50,00000000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437 0,000 1,437 0,300 11,437 0,317 11,573 0,327 14,482 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 17,675 0,000 17,675 0,000 17,675 0,000 17,675 0,000 17,675 0,000 17,675 0,000 17,675
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 25 41 49 51 51 58,5	[<i>m</i>] 0 5 20 0 16 8 2 7,5	[km/h] 0 + 5000 + 20000 1 0 1 16000 + 8000 + 2000 + 2000 + 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed (n 210 250 250 250 250 250 250 250 250 250 25	D) m/s) B(58,333 69,444 69,444 69,444 69,444 0,000 55,556 59,722 59,722 55,556 58,333	Tween [m] Bet 0,000 4967,559 32,441 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 0,000 4400,270 3590,829 1272,382 327,348 0,000 0,000 400,270 500,000 2254,165 0,000 2424,126 1500,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 1,981 4,019 0,000 4,409 3,591 1,272 0,327 0,327 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,576 5,576 5,576 5,5776 5,5776 6,2,000 6,3,500	ttween Tot 0,000 2,924 0,010 1,231 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,381 1,550 1 1,550 1 2,725 1 1,110 1 0,070 1 0,070 1 0,070 1 0,075 2 0,075 2 0,070 2 0,075 2 0,070 2 0,075 2 0,075 2 0,075 2 0,070 2 0,070 2 0,070 2 0,070 2 0,070 2 0,070 2 0,070 2 0,070 2 0,070 2 0,070 2	of 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 10,938 12,924 12,924 14,424 14,424 14,424 14,429 18,539 18,732 18,732 18,732 18,732 18,732 18,732 18,732 18,732 18,732 11,145 11,145 11,491 12,1491 12,1491	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km] (22 33 42 45 53 58,5	Sections [km] 0 5 5 5 20 9 14 1 2 9 8 1 2 5 7,5	[m] 21 14	0 + 5000 + 1 0000 1 0000 1 0000 20000 - 5000 + 1 0 2000 - 1 - 5000 + 1 2000 1 1 2000 1 1 2000 1 1 2000	Speed h) [m] + 210 + 250 250 210 210 210 250 250 250 210 250 2 200 2 2 2 2 2 2 	Dis 0,000 Bei 0,000 S8,333 69,444 69,444 69,444 69,444 69,444 55,556 59,722 59,722 55,556 58,333 58,333	ween [m] Bit 0,000 4967,559 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 400,270 7560,000 224,165 0,000 0,000 1500,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,553 41,000 49,000 50,670 50,600 50,600 50,600 50,600 50,600 50,600 50,600 51,000 51,000 51,000 51,000 51,000 51,000 50,576 59,576 62,500 63,500	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 11,437 0,000 11,437 0,397 14,822 0,094 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,001 17,655 0,003 17,675 0,000 17,675 0,000 17,675 1,150 18,708 1,155 19,867
acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 51 58,5 62	[<i>m</i>] 0 5 20 0 16 8 2 7,5 3,5	(km/h) 0 + 5000 + 20000 1 0 1 6000 + 2000 + 7500 + 3500 - 1	Speed (n 210 + 250 1 250 1 250 - 200 - 250 - 200 - - - - - - - - - - - - -	Di m/s) Bi 58,333 69,444 69,444 69,444 69,444 0,000 55,555 59,722 59,722 55,556 58,333 58,333 22,222	Tween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 400,000 400,171 3590,829 1272,382 327,348 0,000 400,270 7500,000 821,709 254,165 0,000 0,000 2424,126 1500,000	$\begin{array}{c} 0,000\\ 4,968\\ 0,032\\ 4,580\\ 0,000\\ 0,000\\ 0,000\\ 0,000\\ 0,000\\ 0,000\\ 0,000\\ 11,981\\ 4,019\\ 0,000\\ 4,409\\ 3,591\\ 1,272\\ 0,327\\ 0,000\\ 0,400\\ 7,500\\ 0,822\\ 0,254\\ 0,000\\ 0,000\\ 2,424\\ 1,500\\ 0,000\\ 0$	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 45,409 49,000 50,272 50,600 50,600 50,600 50,600 50,600 50,500 50,576 59,576 62,000 63,500	ttween Tot 0,000 2,924 0,010 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 1,937 1,987 1 1,987 1 1,930 2,725 0,039 1 0,904 1 0,904 1 0,000 2 0,000 1 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 1,033 2 1,033 2 1,033 2 0,000 2 0,000 2 0,000 2	or 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 1,977 1,976 1,977 1,976 1,978 1,979 1,976 1,149 1,149 1,149 1,149 1,149 1,149 1,149 1,149 1,149 1,149 1,2,563 3,663 1,976 1,9	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] (25 35 45 55 58,5 62	Sections [km] 0 0 5 5 5 20 0 14 1 2 0 8 1 2 5 7,5 2 3,5	[m] 20 14	0 + +	Speed h) (m + 210 + 250 250 200 250 200 200 20	 Dis <i>Dis</i> <i>Bei</i> 0,000 58,333 69,444 69,444 69,444 69,444 69,444 55,556 59,722 55,556 58,333 58,333 22,222 	weeen (m) Bit 4967,559 32,441 457,9549 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 400,270 7500,000 7510,000 0,000 254,165 0,000 0,000 0,000 2424,125 1500,000 0,000 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 0,000 0,553 1,447 8,000 0,000 0,000 0,000 0,000 0,000 0,000 0,822 0,254 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,553 41,000 49,000 50,272 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,576 59,576 62,000 63,500	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437 0,000 1,437 0,000 1,437 0,000 1,437 0,037 14,533 0,337 14,522 0,904 14,916 0,000 1,437 0,379 14,822 0,904 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 17,675 0,000 17,675 0,000 17,675 0,000 17,675 0,000 17,675 0,000 13,8708 1,155 19,867
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 51 58,5 62	[<i>m</i>] 0 5 20 0 16 8 2 7,5	[km/h] 0 + 5000 + 20000 1 0 1 16000 + 8000 + 2000 + 2000 + 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed (n 210 + 250 250 250 - 211 - - 211 -	D) m/s) B4 58,333 69,444 69,444 69,444 69,444 0,000 55,556 59,722 59,722 55,556 58,333 58,333	Tween [m] Bet 0,000 4967,559 32,441 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 0,000 4400,270 3590,829 1272,382 327,348 0,000 0,000 400,270 500,000 2254,165 0,000 2424,126 1500,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 1,981 4,019 0,000 4,409 3,591 1,272 0,327 0,327 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,576 5,576 5,576 5,5776 5,5776 6,2,000 6,3,500	ttween Tot 0,000 2,924 0,010 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 1,937 1,987 1 1,987 1 1,930 2,725 0,039 1 0,904 1 0,904 1 0,000 2 0,000 1 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 1,033 2 1,033 2 1,033 2 0,000 2 0,000 2 0,000 2	of 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 0,938 12,924 14,424 14,424 14,424 14,424 14,424 14,423 18,638 18,732 18,638 18,732 11,169 21,416 12,1491 21,491 21,491 21,491 21,491	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km] (22 33 42 45 53 58,5	Sections [km] 0 0 5 5 5 20 0 14 1 2 0 8 1 2 5 7,5 2 3,5	[m] 20 14	0 + 5000 + 1 0000 1 0000 1 0000 20000 - 5000 + 1 0 2000 - 1 - 5000 + 1 2000 1 1 2000 1 1 2000 1 1 2000	Speed h) [m] 0 + 210 + 250 250 210 250 200 250 200 250 200 250 200 250 200 250 200 20 200 - 200 200 200	 bis bis	ween [m] Bit 0,000 4967,559 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 400,270 7560,000 224,165 0,000 0,000 1500,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,553 41,000 49,000 50,670 50,600 50,600 50,600 50,600 50,600 50,600 50,600 51,000 51,000 51,000 51,000 51,000 51,000 50,576 59,576 62,500 63,500	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 11,437 0,000 11,437 0,397 14,822 0,094 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,001 17,655 0,003 17,675 0,000 17,675 0,000 17,675 1,150 18,708 1,155 19,867
acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 51 58,5 62	[<i>m</i>] 0 5 20 0 16 8 2 7,5 3,5	(km/h) 0 + 5000 + 20000 1 0 1 6000 + 2000 + 7500 + 3500 - 1	Speed (n 210 + 250 1 250 1 250 - 200 - 250 - 200 - - - - - - - - - - - - -	Di m/s) Bi 58,333 69,444 69,444 69,444 69,444 0,000 55,555 59,722 59,722 55,556 58,333 58,333 22,222	Tween [m] Bet 0,000 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 4409,171 3590,829 1272,382 327,348 0,000 4000,270 7550,000 821,709 254,165 0,000 2424,126 1500,000 0,000 0,000 0,000 0,000 0,000 1500,000 1500,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,400 7,500 0,000 0,400 7,500 0,000 0,000 0,224 4,580 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 45,409 40,000 50,272 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,500 63,500 63,500 63,500 63,500	ttween Tot 0,000 2,924 0,010 2,924 0,010 1,231 3,812 0,000 0,000 0,000 0,000 0,000 0,000 1,231 1,871 1,150 1,987 1 1,987 1 1,975 1,110 0,094 1 0,094 1 0,094 1 0,000 1 0,119 1 2,318 2 0,000 2 0,000 2 0,000 2 0,119 1 2,318 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2	of 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 1,9	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] (25 35 45 55 58,5 62	Sections [km] 0 0 5 5 5 20 0 14 1 2 0 8 1 2 5 7,5 2 3,5	[m] 20 14	0 + +	Speed h) (m + 210 + 250 250 200 250 200 200 20	 Dis <i>Dis</i> <i>Bei</i> 0,000 58,333 69,444 69,444 69,444 69,444 69,444 55,556 59,722 55,556 58,333 58,333 22,222 	weeen [m] Bit 4567,559 32,441 457,584 457,849 15420,151 0,000 0,000 0,000 14000,000 0,000 0,000 0,000 14000,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 127,382 327,348 0,000 820,000 821,709 254,165 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 50,000 50,272 50,600 50,272 50,600 50,600 50,600 50,600 51,000 58,500 59,376 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 50,500 62,000 63,500 63,500 63,500 65,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437 0,000 1,437 0,307 11,637 0,379 1,573 0,379 1,422 0,000 1,4916 0,000 1,4916 0,000 1,4916 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,867 0,000 1,867 0,000 19,867 0,0
acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen Haga	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 51 58,5 62 33,5	[<i>m</i>] 0 5 20 0 16 8 2 7,5 3,5 1,5	[km/h] 0 + 5000 + 20000 1 0 1 1 0 1 1 2000 + 2000 + 2000 + 2000 + 3500 - 1 1 1 1 1 2000 + 3500 - 1 1 1 2000 - 1 200 - 1 200 - 1 2000 - 1 2000 - 1 2000 - 1 2000 - 1 2000 - 1 2000 - 1 2000 - 1 2000 - 1 200 - 2000 - 2000 - 20 - 200 - - - - - - - - - - - - -	Speed [n 210 250 250 250 250 250 250 250 25	Di m/s) 0,000 58,333 69,444 69,444 69,444 69,444 69,444 0,000 55,556 59,722 59,722 55,556 58,333 58,333 58,333 22,222 22,222 22,222	Tween [m] Bet 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 4409,171 3590,829 1272,382 327,348 0,000 4400,270 254,165 0,000 2424,126 1550,000 0,000 0,000 15500,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,000 0,000 0,000 0,000 2,424 0,000 0,000 2,424 1,500 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,500 63,500 63,500 63,500 63,500	ttween Tot 0,000 2,924 0,010 2,924 0,010 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,231 1,837 1 1,550 1 2,725 1 1,110 1 0,000 1 0,000 1 0,000 1 0,011 1 0,000 2 0,000 1 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2	of 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 10,938 12,924 12,924 12,924 12,924 12,924 12,924 12,924 12,924 12,924 12,924 12,924 12,1451 21,451 2	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen Haga	Distance from Gothenburg [km] 22 35 42 45 55 58,5 62 63,5	Sections [km] O 0 0 5 5 6 20 0 14 2 3 5 7,5 5 7,5 5 1,5	[m] 20 14	0 + 5000 + 10000 10000	Speed h] [m] 0 + 210 + 250 2	 Dis 58,333 69,444 69,444 69,444 69,444 69,444 69,444 69,444 55,556 59,722 55,556 58,333 58,333 22,222 22,222 22,222 	ween [m] Bit 0,000 4967,559 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1272,382 327,348 0,000 0,000 400,270 7560,000 254,165 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 1,447 8,000 1,272 0,327 0,000 0,000 0,000 0,000 0,000 2,424 0,000 0,000 2,424 1,500 0,000 0,000 0,000 0,000 1,500 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,553 41,000 49,000 50,272 50,600 50,600 50,600 50,600 50,600 50,600 59,576 69,576 62,000 63,500 63,500 63,500 63,500 63,500	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 11,437 0,000 11,437 0,397 14,822 0,094 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 14,916 0,000 17,675 0,000 17,675 0,000 17,675 0,000 17,675 0,000 18,867 0,000 19,867 0,000 19,867 0,000 19,867 0,000 19,867 0,000 19,867 0,0000 19,867 0
acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 51 58,5 62 33,5	[<i>m</i>] 0 5 20 0 16 8 2 7,5 3,5	(km/h) 0 + 5000 + 20000 1 0 1 6000 + 2000 + 7500 + 3500 - 1	Speed [n] 250 250 250 250 250 250 250 250 250 250	Di m/s) Bi 58,333 69,444 69,444 69,444 69,444 0,000 55,556 59,722 55,556 58,333 58,333 22,222 22,222	Tween [m] Bet 0,000 0,000 4967,559 32,441 4579,849 15420,151 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 4409,171 3590,829 1272,382 327,348 0,000 4000,270 7550,000 821,709 254,165 0,000 2424,126 1500,000 0,000 0,000 0,000 0,000 0,000 1500,000 1500,000	0,000 4,968 0,032 4,580 15,420 0,000 0,000 0,000 0,000 11,981 4,019 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,400 7,500 0,000 0,400 7,500 0,000 0,000 0,224 4,580 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 45,409 40,000 50,272 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,500 63,500 63,500 63,500 63,500	ttween Tot 0,000 2,924 0,010 2,924 0,010 3,812 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,231 1,837 1 1,550 1 2,725 1 1,110 1 0,000 1 0,000 1 0,000 1 0,011 1 0,000 2 0,000 1 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2 0,000 2	of 0,000 2,924 2,933 4,164 7,976 7,976 7,976 7,976 7,976 7,976 1,9	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] (25 35 45 55 58,5 62	Sections [km] O 0 0 5 5 6 20 0 14 2 3 5 7,5 5 7,5 5 1,5	[m] 20 14	0 + +	Speed h) (m) (m) + 210 + 250 250 250 250 250 200 + 215 200 + 215 200 + 215 200 + 215 200 0 + 210 200 200 200 200 200 200 200 200 200	 Dis p(s) Bei 0,000 S8,333 69,444 69,444 69,444 69,444 69,444 69,444 59,722 55,556 58,333 58,333 58,333 58,333 22,222 22,222 	weeen [m] Bit 4567,559 32,441 457,584 457,849 15420,151 0,000 0,000 0,000 14000,000 0,000 0,000 0,000 14000,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 127,382 327,348 0,000 820,000 821,709 254,165 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,968 0,032 4,580 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 39,000 50,000 50,272 50,600 50,272 50,600 50,600 50,600 50,600 51,000 58,500 59,376 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 59,576 50,500 62,000 63,500 63,500 63,500 63,500 63,500 63,500 65,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,231 4,164 3,812 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 7,976 0,000 1,437 0,000 1,437 0,000 1,437 0,307 11,637 0,379 1,573 0,379 1,422 0,000 1,4916 0,000 1,4916 0,000 1,4916 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,675 0,000 1,867 0,000 1,867 0,000 19,867 0,0

LRT - mean acceleration	max = 267 km/h Stor	is: Got	henburg, airport	t, Bo	orås						LRT - mean acceleration	max = 267 km/h	itops: 0	Gothenburg,		Во	rås				
	Distance from				-							Distance from									
	Gothenburg Sect [km] [km]		[km/h]	Speed		istance etween (m) Be	etween (km) 1	"otal (km) Be	Time (minute etween To				ections km] [[m]	[km/h]	Speed [m,		ance ween [m] Be	etween [km] To	tal [km] Be	Time [minutes] tween Total
Göteborg	(kiii) (kiii) 0	[m]	0	0	0,000	0,000	0,000	0,000		0,000	Göteborg	0	king (0	0	0,000	0,000	0,000	0,000	0,000 0,000
			+	+	.,	561,167	0,561	0,561	0,867	0,867					+	+	.,	561,167	0,561	0,561	0,867 0,867
				80	22,222	938,833	0,939	1,500		1,592						80	22,222	938,833	0,939	1,500	0,725 1,592
Haga	1,5	1,5	1500	80	22,222	0,000	0,000	1,500 1,500	0,000	1,592 1.592	Haga	1,5	1,5	15		80	22,222	0,000	0,000	1,500	0,000 1,592 0.000 1.592
пада	1,5	1,5	1300	80	22,222	0,000	0,000	1,500	0,000	1,592	пада	1,5	1,5	13	1	0	22,222	0,000	0,000	1,500	0,000 1,592
				80	22,222	1500,000	1,500	3,000	1,159	2,751						80	22,222	1500,000	1,500	3,000	1,159 2,751
			1	1		0,000	0,000	3,000	0,000	2,751					1	1		0,000	0,000	3,000	0,000 2,751
Korsvägen	3	1,5	1500	80	22,222	0,000 0,000	0,000	3,000 3,000		2,751 2,751	Korsvägen	3	1,5	15	00	80	22,222	0,000	0,000 0,000	3,000 3,000	0,000 2,751 0,000 2,751
	3	0	0	80	22,222	0,000	0,000	3,000		2,751		3	0		0	80	22.222	0,000	0,000	3,000	0.000 2.751
			+	+		4469,987	4,470	7,470	1,973	4,724					+	+		4469,987	4,470	7,470	1,973 4,724
				200	55,556	6530,013	6,530	14,000	2,018	6,742					. 2	200	55,556	6530,013	6,530	14,000	2,018 6,742
Mölnlycke	14	11	11000	200	55,556	0,000	0,000 0,000	14,000 14,000	0,000	6,742 6,742	Mölnlycke	14	11	110		200	55.556	0,000	0,000	14,000 14,000	0,000 6,742 0,000 6,742
monnyeke	14		+	+	55,550	1272,382	1,272	15,272		7,121	into inty exe	14			+	+	55,550	1272,382	1,272	15,272	0,379 7,121
	16	2	2000	215	59,722	327,348	0,327	15,600		7,215		16	2	20	00 2	215	59,722	327,348	0,327	15,600	0,094 7,215
				- 200	55,556	400,270	0,400 5,428	16,000	0,119 1,677	7,334					-	-		400,270 8000.000	0,400 8.000	16,000 24.000	0,119 7,334 2,472 9,806
			-	200	55,550	5427,984 2572,016	2,572	21,428 24,000		9,011 10,601						200	55,556	0,000	0,000	24,000	0,000 9,806
Landvetter flp	24	8	8000	0	0,000	0,000	0,000	24,000		12,101	Landvetter flp	24	8	80	00 2	200	55,556	0,000	0,000	24,000	0,000 9,806
			+	+		9175,470	9,175	33,175		16,348					+	+		8061,017	8,061	32,061	2,133 11,940
	24	0	0	267	74,167	0,000	0,000	33,175 33,175		16,348 16.348		24	0		0 2	267	74,167	0,000	0,000 0,000	32,061 32,061	0,000 11,940 0,000 11,940
			1	267	74,167	6824,530	6,825	40,000		17,928						267	74,167	7938,983	7,939	40,000	1,838 13,777
			1	1		0,000	0,000	40,000	- ,	17,928					1	1		0,000	0,000	40,000	0,000 13,777
Kråktorp	40	16	16000	267	74,167	0,000	0,000	40,000		17,928	Kråktorp	40	16	160	00 2	267	74,167	0,000	0,000	40,000	0,000 13,777
	60	20	20000	267	74,167	0,000 18817.580	0,000 18.818	40,000 58.818		17,928 22,284		60	20	200		267	74,167	0,000 18817,580	0,000 18,818	40,000 58.818	0,000 13,777 4,356 18,133
	00	20	-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1182,420	1,182	60,000		22,578			20	200	-	-	, 4,20,	1182,420	1,182	60,000	0,294 18,427
				230	63,889	1598,508	1,599	61,599		23,007					2	230	63,889	1598,508	1,599	61,599	0,430 18,856
Borâs	65	5	- 5000	-	0,000	3401,492 0.000	3,401 0,000	65,000 65.000	1,828 0,000		Borås	65	5		- 00	-	0,000	3401,492 0,000	3,401 0,000	65,000 65,000	1,828 20,684 0,000 20,684
BOLAS	05	5	5000	0	0,000	0,000	0,000	65,000	0,000	24,835	BOLAS	05	2	50	00	0	0,000	0,000	0,000	65,000	0,000 20,684
LRT - mean				_							LRT - mean					_					
LRT - mean acceleration	max = 267 km/h Stop Distance from	is: Got	henburg, airport	t, Bo	orâs						LRT - mean acceleration	max = 267 km/h	itops: 0	Gothenburg,		Во	rås				
	max = 267 km/h Stop Distance from Gothenburg Sect		henburg, airport	t, Bo Speed		istance			Time [minute	es]		Distance from	itops: 0	Gothenburg,		Boi Speed		ance			Time [minutes]
acceleration	Distance from Gothenburg Sect [km] [km]	ions [m]	[km/h]	Speed [n	Di m/s] Be	etween [m] Be			etween To	otal	acceleration	Distance from Gothenburg [km]	ections km] [Gothenburg, [m]	[km/h]	Speed [m,	Dist /s] Bet	ween [m] Be			tween Total
	Distance from Gothenburg Sect	ions		Speed	Di	etween [m] Be 0,000	0,000	0,000	etween To 0,000	otal 0,000		Distance from Gothenburg	ections			Speed	Dist	ween [m] Be 0,000	0,000	0,000	tween Total 0,000 0,000
acceleration	Distance from Gothenburg Sect [km] [km]	ions [m]	[km/h]	Speed [n	Di m/s] Be	etween [m] Be			etween To 0,000 2,924	otal	acceleration	Distance from Gothenburg [km]	ections km] [[km/h] 0 +	Speed [m, 0 +	Dist /s] Bet	ween [m] Be		0,000 4,968	tween Total
acceleration	Distance from Gothenburg Sect [km] [km] 0	ions I [m] O	[km/h] 0 +	Speed [n 0 + 210 +	Di m/s] Be 0,000 58,333	etween [m] Be 0,000 4967,559 32,441 7374,048	0,000 4,968 0,032 7,374	0,000 4,968 5,000 12,374	etween To 0,000 2,924 0,010 1,911	0,000 2,924 2,933 4,844	acceleration	Distance from Gothenburg [km] [0	ections km] [[m]	[km/h] 0 00 + 00 +	Speed [m, 0 + 210 +	Dist /s] Bet 0,000 58,333	ween [m] Be 0,000 4967,559 32,441 7374,048	0,000 4,968 0,032 7,374	0,000 4,968 5,000 12,374	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844
acceleration	Distance from Gothenburg Sect [km] [km] 0	ions I [m] O	[km/h] 0 +	Speed [n 0 +	Di m/s] Be 0,000	etween [m] Be 0,000 4967,559 32,441 7374,048 12625,952	0,000 4,968 0,032 7,374 12,626	0,000 4,968 5,000 12,374 25,000	etween To 0,000 2,924 0,010 1,911 2,922	0,000 2,924 2,933 4,844 7,766	acceleration	Distance from Gothenburg [km] [0	ections km] [[m]	[km/h] 0 00 + 00 +	Speed [m, 0 + 210 +	Dist /s] Bet 0,000	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952	0,000 4,968 0,032 7,374 12,626	0,000 4,968 5,000 12,374 25,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766
acceleration Borås	Distance from Gothenburg Sect [km] [km] 0 5	ions I [m] 0 5	[km/h] 0 + 5000 +	Speed [n 0 + 210 + 267 	Di m/s] Be 0,000 58,333 74,167	etween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000	0,000 4,968 0,032 7,374 12,626 0,000	0,000 4,968 5,000 12,374 25,000 25,000	etween To 0,000 2,924 0,010 1,911 2,922 0,000	0,000 2,924 2,933 4,844 7,766 7,766	acceleration Borås	Distance from Gothenburg [[km] 0 5	iections km] [0 5	'm] 50	[km/h] 0 00 2 + 2 1	Speed [m, 0 + 210 + 267 	Dist (s] Bet 0,000 58,333 74,167	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000	0,000 4,968 0,032 7,374 12,626 0,000	0,000 4,968 5,000 12,374 25,000 25,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766
acceleration	Distance from Gothenburg Sect [km] [km] 0 5	ions I [m] O	[km/h] 0 +	Speed [n 0 + 210 +	Di m/s] Be 0,000 58,333	etween [m] Be 0,000 4967,559 32,441 7374,048 12625,952	0,000 4,968 0,032 7,374 12,626	0,000 4,968 5,000 12,374 25,000	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000	0,000 2,924 2,933 4,844 7,766	acceleration	Distance from Gothenburg [[km] 0 5 25	ections km] [[m] 200	[km/h] 0 + 00 2 + 2 00 2 1 00 2	Speed [m, 0 + 210 + 267 	Dist /s] Bet 0,000 58,333	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952	0,000 4,968 0,032 7,374 12,626	0,000 4,968 5,000 12,374 25,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766
acceleration Borås	Distance from Gothenburg Sect [km] [km] 0 5	ions I [m] 0 5	[km/h] 0 + 5000 +	Speed [n 0 + 210 + 267 	Di m/s] Be 0,000 58,333 74,167	etween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000	btal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766	acceleration Borås	Distance from Gothenburg [[km] 0 5	iections km] [0 5	'm] 50	[km/h] 0 + 00 2 + 2 00 2 1 00 2	Speed [m, 0 + 210 + 267 267 267	Dist (s] Bet 0,000 58,333 74,167	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 13,932	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 38,932	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,225 10,991
acceleration Borås	Distance from Gothenburg Sect [km] [km] 0 5	ions I [m] 0 5 20	[km/h] 0 + 5000 + 20000	Speed [n 210 + 267 267 267 	Di n/s] Be 0,000 58,333 74,167 74,167 74,167	etween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 0,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000	htal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766	acceleration Borås	Distance from Gothenburg [[km] 0 5 25	ections km] [0 5 20	[m] 200	[km/h] 0 + 00 2 + 2 00 2 00 2 00 2	Speed [m, 0 + 210 + 267 267 267 267	Dist (s) Bet 0,000 58,333 74,167 74,167 74,167	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584 0,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 13,932 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 38,932 38,932	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 10,991
acceleration Borås	Distance from Gothenburg Sect [km] [km] 0 5	ions I [m] 0 5 20	[km/h] 0 + 5000 + 20000	Speed (n 210 + 267 267 	Di m/s] Be 0,000 58,333 74,167 74,167	etween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000	htal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409	acceleration Borås	Distance from Gothenburg [[km] 0 5 25	ections km] [0 5 20	[m] 200	[km/h] 0 + 00 2 + 2 00 2 00 2 00 2	Speed [m, 0 + 210 + 267 267 267 267	Dist (/s] Bet 0,000 58,333 74,167 74,167	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 13,932	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 38,932	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,225 10,991
acceleration Borås	Distance from Gothenburg Sect [km] [km] 0 5	ions I [m] 0 5 20	(km/h) 0 + 5000 + 20000 0 16000	Speed [n 210 + 267 267 267 	Di n/s] Be 0,000 58,333 74,167 74,167 74,167	Etween [m] Ba 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 11,416 4,584 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500	xtal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031	acceleration Borås	Distance from Gothenburg [[km] 0 5 25	ections km] [0 5 20	(m) 50 200 140	[km/h] 0 + 20 + 2 00 2 00 2 00 2 00 2 00 2 00	Speed [m, 0 + 210 + 267 267 267 267 267 -	Dist (s) Bet 0,000 58,333 74,167 74,167 74,167	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 13931,584 0,000 0,000 68,416 56,520	0,000 4,968 0,032 7,374 12,626 0,000 0,000 13,932 0,000 0,000 0,000 0,000 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 0,766 0,000 0,991 0,000 10,991 0,000 10,991 0,001 11,007 0,013 11,020
acceleration Borås Bollebyg	Distance from Gothenburg [km] 0 5 25 25 25	ions [m] 0 5 20 0 16	[km/h] 0 + 5000 + 20000 1 0 1 16000 +	Speed [n 0 + 210 + 267 1 267 1 267 - 0 0 +	Di m/s) Be 0,000 58,333 74,167 74,167 74,167 74,167 0,000	tween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 409,171	0,000 4,968 0,032 7,374 12,526 0,000 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725	htal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 16,756	acceleration Borâs Bollebyg	Distance from Gothenburg [[km] 0 5 25 39 41	iections km] [5 20 14	[m] 200 140 20	[km/h] 0 + 200 2 + 200 2 1 200 2 1 200 2 1 200 2 2 00 2 2 00 2	Speed [m, 0 + 210 + 267 267 267 267 267 267 267 267	Dist (s) 0,000 58,333 74,167 74,167 74,167 74,167 73,611	Autor Bit 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 0,000 13931,584 0,000 0,000 68,416 56,520 1943,480	0,000 4,968 0,032 7,374 12,626 0,000 0,000 13,932 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 38,932 38,932 38,932 38,932 38,932 39,000 39,057 41,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 10,991 0,000 10,991 0,000 10,991 0,010 11,027 0,613 11,037
acceleration Borås Bollebyg	Distance from Gothenburg Sect [km] 0 5 25 25	ians 1 [m] 5 20 0	(km/h) 0 + 5000 + 20000 0 16000	Speed (n 210 + 267 267 267 267 267	Di 0,000 58,333 74,167 74,167 74,167 74,167 74,167	2000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 4409,171 3590,829	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 45,409 49,000	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725 1,110	2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 16,755	acceleration Borâs Bollebyg	Distance from Gothenburg [km] 0 5 25 39	iections km] [5 20 14	[m] 200 140 20	[km/h] 0 + 200 2 + 200 2 1 200 2 1 200 2 1 200 2 2 00 2 2 00 2	Speed [m, 0 + 210 + 267 267 27 2	Dist 0,000 58,333 74,167 74,167 74,167 74,167	ween [m] Ba 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584 0,000 0,000 68,416 56,520 1943,480 8000,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,005 0,057 1,943 8,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057 41,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 1,766 0,000 1,091 0,000 10,991 0,000 10,991 0,001 11,007 0,013 11,007 0,517 11,537 2,472 14,009
acceleration Borås Bollebyg	Distance from Gothenburg [km] 0 5 25 25 25	ions [m] 0 5 20 0 16	[km/h] 0 + 5000 + 20000 1 0 1 16000 +	Speed [n 0 + 210 + 267 1 267 1 267 - 0 0 +	Di m/s) Be 0,000 58,333 74,167 74,167 74,167 74,167 0,000	tween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 409,171	0,000 4,968 0,032 7,374 12,526 0,000 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000	tween To 0,000 2,924 0,010 1,911 1,922 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725 1,110 0,379 0,379	htal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 16,756	acceleration Borâs Bollebyg	Distance from Gothenburg [[km] 0 5 25 39 41	iections km] [5 20 14	[m] 200 140 20	[km/h] 0 + 00 + 2 00 2 00 2 00 2 00 2 00 2 00	Speed [m, 0 + 210 + 267 267 267 267 267 - 265 - 200 +	Dist (s) 0,000 58,333 74,167 74,167 74,167 74,167 73,611	Autor Bit 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 0,000 13931,584 0,000 0,000 68,416 56,520 1943,480	0,000 4,968 0,032 7,374 12,626 0,000 0,000 13,932 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 38,932 38,932 38,932 38,932 38,932 39,000 39,057 41,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 1,766 0,000 1,091 0,000 10,991 0,000 10,991 0,001 11,007 0,013 11,007 0,517 11,537 2,472 14,009
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg Sect [km] 0 5 25 25 41 49	ions (m) 0 5 20 0 16 8	(km/h) 0 + 5000 + 20000 1 0 - 16000 + 8000 +	Speed (n 0 + 210 267 1 267 267 267 267 200 + 200 + 215 	Di Di Di Di Di Di Di Di Di Di	Etween (m) Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 4409,171 3590,829 1272,382 327,348 0,000	0,000 4,968 0,032 7,374 12,526 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 45,409 49,000 50,272 50,600	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725 1,110 0,379 0,094 0,000 0,000	raal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 14,031 14,031 14,031 18,248 18,338	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 0 5 25 39 41 49	ections (km) 0 5 20 14 2 8	im] 200 140 20	[km/h] 0 + 00 + 2 00 2 00 2 00 2 00 2 1 2 00 2 1 2 00 2 1 2 00 2 1 2 00 2 1 2 0 1 2 1 2	Speed [m, 0 + 210 + 267 267 267 267 267 - 265 - 200 + 215	Dist (s) 0,000 58,333 74,167 74,167 74,167 74,167 74,167 73,611 55,556 59,722	ween [m] Ba 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 13931,584 0,000 0,000 68,416 56,520 1943,480 8000,000 1272,382 327,348 0,000	0,000 4,968 0,032 7,374 12,626 0,000000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057 41,000 49,000 50,272 50,600	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 10,991 0,000 10,991 0,000 10,991 0,000 11,020 0,517 11,537 2,472 14,309 0,379 14,382 0,000 14,482
acceleration Borås Bollebyg	Distance from Gothenburg [km] 0 5 25 25 25	ions [m] 0 5 20 0 16	[km/h] 0 + 5000 + 20000 1 0 1 16000 +	Speed [n 0 + 210 + 267 - 267 - 267 - 267 - 0 + 200 + 200 +	<i>pi</i> 9,000 58,333 74,167 74,167 74,167 74,167 0,000 55,556	etween (m) Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 4409,171 3590,829 1272,382 327,348 0,000 0,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 45,409 49,000 50,272 50,600 50,600	To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725 1,110 0,379 0,094 0,000	ntal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 16,756 17,865 18,244 18,338 18,338	acceleration Borâs Bollebyg	Distance from Gothenburg [[km] 0 5 25 39 41	iections km] [5 20 14	[m] 200 140 20	[km/h] 0 + 00 + 2 00 2 00 2 00 2 00 2 1 2 00 2 1 2 00 2 1 2 00 2 1 2 00 2 1 2 0 1 2 1 2	Speed [m, 0 + 210 + 267 267 267 267 267 - 265 - 200 + 215	Dist Bet 0,000 58,333 74,167 74,167 74,167 74,167 74,167 73,611 55,556	veen [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 13931,584 0,000 68,416 56,520 1943,480 8000,000 13743,848 8000,000 1377,382 327,348 0,000 0,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,057 1,943 8,000 1,272 0,327 0,020 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 38,932 39,005 39,057 41,000 49,000 50,600 50,600	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 10,991 0,000 10,991 0,000 10,991 0,000 11,007 0,613 11,027 0,517 11,537 2,472 14,038 0,934 14,482 0,000 14,482 0,000 14,482
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg Sect [km] 0 5 25 25 41 49	ions (m) 0 5 20 0 16 8	(km/h) 0 + 5000 + 20000 1 0 - 16000 + 8000 +	Speed (n 0 + 210 267 1 267 267 267 267 200 + 200 + 215 	Di Di Di Di Di Di Di Di Di Di	Etween (m) Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 4409,171 3590,829 1272,382 327,348 0,000	0,000 4,968 0,032 7,374 12,526 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 45,409 49,000 50,272 50,600	TO 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,622 1,100 0,379 0,094 0,000 0,0119	raal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 14,031 14,031 14,031 18,248 18,338	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 0 5 25 39 41 49	ections (km) 0 5 20 14 2 8	im] 50 200 140 80 20	[km/h] 0 + 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2	Speed [m, 0 + 210 + 267 267 267 267 - 265 - 265 - 200 + 215 215 -	Dist (s) 0,000 58,333 74,167 74,167 74,167 74,167 74,167 73,611 55,556 59,722	ween [m] Ba 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 13931,584 0,000 0,000 68,416 56,520 1943,480 8000,000 1272,382 327,348 0,000	0,000 4,968 0,032 7,374 12,626 0,000000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057 41,000 49,000 50,272 50,600	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 10,991 0,000 10,991 0,000 10,991 0,000 11,020 0,517 11,537 2,472 14,309 0,379 14,382 0,000 14,482
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 0 5 25 25 41 49 51	ions [m] 0 5 20 0 16 8 2	(km/h) 0 + 50000 + 20000 1 1 16000 + 8000 + 20000 -	Speed [n 0 + 210 + 267 267 27 2	Di n/s) 0,000 58,333 74,167 74,167 74,167 74,167 74,167 55,556 59,722 59,722 55,556	etween (m) Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 4409,171 3590,829 1272,382 327,348 0,000 0,000 400,270 7500,000 821,709	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,400 7,500 0,000 0,420	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 41,000 41,000 50,600 50,600 50,600 55,1000 56,8000 56,8000 56,8000 56,800000000000000000000000000000000	etween To 0,000 2,924 0,010 1,911 1,911 2,922 0,000 0,000 0,000 0,000 0,000 2,642 1,511 1,911 2,922 0,000 0,000 0,000 2,612 1,500 2,725 1,110 0,379 0,094 0,000 0,000 0,000 0,011 2,318 0,0248	ter 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 15,758 18,338 18,338 18,338 18,338 18,338 18,338 18,338	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 0 [km] 0 25 39 41 49 51	eetions [km] 0 5 20 14 2 8 2	im] 50 200 140 80 20	[km/h] 0 + 2 0 2 0 2 1 2 0 2 1 2 0 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Speed [m, 0 + 210 + 267 267 267 267 - 265 - 200 + 215 215 - 200 +	Dist (s) 0,000 58,333 74,167 74,167 74,167 74,167 74,167 73,611 55,556 59,722 59,722 55,556	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584 0,000 0,000 68,415 55,520 1943,480 8000,000 1272,382 327,348 0,000 400,270 7500,000 421,799	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,932 0,007 1,943 8,000 1,272 0,327 0,327 0,000 0,000 0,400 0,2750 0,000 0,400 0,400 0,000 0,400 0,000 0,400 0,000 0,400 0,000 0,2750 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057 41,000 49,000 50,600 50,600 50,600 51,000 51,000 51,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 1,091 0,000 10,991 0,001 10,991 0,010 11,027 0,373 14,388 0,094 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,119 14,601 0,318 16,919 0,248 17,166
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 0 5 25 25 41 49 51	ions [m] 0 5 20 0 16 8 2	[km/h] 0 + 5000 + 20000 0 16000 + 8000 + 20000 - 7500	Speed (n 210 + 267 267 267 267 267 267 267 267 267 215 215	D) n/s] 0,000 58,333 74,167 74,167 74,167 74,167 74,167 55,556 59,722 59,722	Etween (m) Be 0,000 4967,559 32,441 7374,048 1262,5952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 4009,171 3590,829 1272,382 327,348 0,000 0,000 0,000 400,270 7500,000 821,709 254,165	0,000 4,968 0,032 7,374 12,526 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 36,416 41,000 44,000 50,272 50,600 50,600 50,600 50,600 50,51,000 53,8500 54,800 54,800 54,800 55,270 55,576	etween To 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725 1,110 0,379 0,094 0,000 0,000 0,000 0,000 0,000 2,642 2,125 1,110 0,379 0,004 0,000000	ter 0,000 2,924 2,933 4,844 4,844 4,844 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 16,756 12,531 14,031 16,756 18,244 18,338 18,358 18,458 21,003 1 10,003 1 10,003 1 10,000 10,000 10,000 10,000 10,000 10,000 10	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 0 [km] 0 25 39 41 49 51	eetions [km] 0 5 20 14 2 8 2	im] 50 200 140 80 20	[km/h] 0 + 2 0 2 0 2 1 2 0 2 1 2 0 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Speed [m, 0 + 210 + 267 267 267 267 - 265 - 200 + 215 215 - 200 +	Dist (s) 0,000 58,333 74,167 74,167 74,167 74,167 73,611 55,556 59,722 59,722	ween [m] Be 0,000 4967,559 32,441 7374,045 12625,952 12625,952 0,000 0,000 0,000 13931,584 0,000 0,000 13931,584 0,000 1272,382 327,382 0,000 0,000 1272,382 327,382 0,000 0,000 1272,512 0,000 0,000 1272,512 0,000 0,000 1272,512 0,000 0,000 1272,512 0,000 0,000 1272,512 0,000 1272,512 0,000 1272,512 0,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,933 8,000 0,000 1,272 0,327 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,007 41,000 49,000 50,272 50,600 50,600 50,600 50,600 51,000 85,500 59,322	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,756 0,000 7,756 0,000 1,756 0,000 1,756 0,000 10,991 0,000 10,991 0,000 10,991 0,000 10,991 0,010 11,027 0,472 14,388 0,904 14,482 0,000 14,482 0,000 14,482 0,011 14,601 2,318 16,919 0,242 14,601 2,318 16,919
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 0 5 25 25 41 49 51	ions [m] 0 20 0 16 8 2 7,5	[km/h] 0 + 5000 + 20000 0 16000 + 8000 + 20000 - 7500	Speed [n 0 + 210 + 267 267 27 2	Di n/s] Be 0,000 58,333 74,167 74,167 74,167 74,167 0,000 55,556 59,722 59,722 55,556 58,333	etween (m) Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 4409,171 3590,829 1272,382 327,348 0,000 0,000 400,270 7500,000 821,709	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,400 7,500 0,000 0,420	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 41,000 41,000 50,600 50,600 50,600 55,1000 56,8000 56,8000 56,8000 56,800000000000000000000000000000000	etween 70 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725 1,110 0,379 0,094 0,000 0,000 0,119 2,318 0,248 0,248 0,075 0,000	ter 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 15,758 18,338 18,338 18,338 18,338 18,338 18,338 18,338	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [[km] 0 25 39 41 49 51 58,5	iections [[m] 0 5 20 14 2 8 2 7,5	im] 50 200 140 20 20 20 20 20 20 20 20 20 20 20 20 20	[km/h] 0 + 00 + 1 00 2 1 00 2 1 2 00 2 1 2 00 2 1 2 00 2 2 1 2 0 2 2 1 2 0 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Speed [m, 0 + 210 + 267 267 267 267 - 265 - 200 + 215 215 - 210 + 210	Dist Bet 58,333 74,167 74,167 74,167 74,167 73,611 55,556 59,722 59,722 55,556 58,333	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584 0,000 0,000 68,415 55,520 1943,480 8000,000 1272,382 327,348 0,000 400,270 7500,000 421,799	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,932 0,007 1,943 8,000 1,272 0,327 0,327 0,000 0,000 0,400 0,2750 0,000 0,400 0,400 0,000 0,400 0,000 0,400 0,000 0,400 0,000 0,2750 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057 41,000 49,000 50,600 50,600 50,600 51,000 51,000 51,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 10,991 0,000 10,991 0,000 10,991 0,000 10,991 0,000 11,007 0,613 11,027 0,614 14,388 0,004 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 17,416 0,075 17,241
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg Sect [km] 0 5 25 25 41 49 51 58,5	ions [m] 0 5 20 0 16 8 2	(km/h) 0 + 5000 + 20000 1 0 1 16000 + 8000 + 2000 - + 2000 - + 2000 - + 2000 - + - - - - - - - - - - - - -	Speed [n 0 + 210 + 267 267 267 267 267 267 267 267	DJ m/s] Be 9,000 58,333 74,167 74,167 74,167 74,167 74,167 55,556 59,722 59,722 55,556 58,333 58,333	Etween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 0,000 400,270 0,000 400,270 1272,382 327,348 0,000 0,000 400,270 0,000 250,000 821,709 254,165 0,000 0,000 0,000 2424,126	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,000 0,000 0,400 7,500 0,822 0,254 0,000 0,000 0,224	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 41,000 45,409 40,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,50	etween 70 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,1500 2,725 1,110 0,379 0,094 0,000 0,119 2,318 0,034 0,000 0,119 1,231 0,004 0,000000	ter 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 18,244 18,338 12,244 12,244 12,244 14,338 14,338 18,338 18,338 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 12,244 14,338 14,338 12,244 14,338 14,338 12,244 14,338 14,338 14,338 12,244 14,338 14,338 12,244 14,338 14,338 12,244 14,338 14,338 14,338 14,338 14,338 12,244 14,344 14,345 12,244 14,345 12,244 14,345 14	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km] 0 [km] 0 25 39 41 49 51	eetions [km] 0 5 20 14 2 8 2	im] 50 200 140 20 20 20 20 20 20 20 20 20 20 20 20 20	[km/h] 0 + 00 + 1 00 2 00 2 00 2 00 2 00 2 00 2 00 2 00 2 00 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 2 2 0 2 2 2 0 2 2 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2	Speed [m, 0 + 210 + 267 267 267 267 - 265 - 200 + 215 210 + 210 210	Dist Bet 58,333 74,167 74,167 74,167 74,167 73,611 55,556 59,722 55,556 58,333 58,333	ween [m] Be 0,000 4967,559 32,441 1737,4048 12625,952 0,000 0,000 13931,584 13931,584 13931,584 13931,584 1943,480 0,000 0,000 0,000 143,416 156,520 1943,480 0,000 0,000 143,416 143,416 0,000 0,000 827,416 0,000 0,000 821,109 254,109 0,000 0,000 0,000 154,418 0,000 0,000 154,480 0,000 154,480 0,000 154,480 0,000 0,000 154,480 0,000 0,000 154,480 0,000 0,000 154,480 0,000 0,000 154,480 0,000 154,480 0,000 0,000 154,480 0,000 0,000 154,480 0,000 0,000 154,480 0,000 0,000 154,480 0,000 0,000 0,000 0,000 154,480 0,000 0,000 154,480 0,000 0,	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,272 0,327 0,020 0,020 0,020 0,0000 0,000 0,000 0,000 0,000 0,0000 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057 41,000 49,000 50,272 50,600 50,600 50,600 50,600 50,600 50,600 51,000 55,576 59,576 59,576 59,576 62,000	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 1,766 0,000 10,991 0,000 10,991 0,000 10,991 0,000 10,991 0,000 14,482 0,000 14,482 0,000 14,482 0,000 17,241 0,075 17,241 0,075 17,241 0,000 17,241
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg Sect [km] 0 5 25 25 41 49 51 58,5	ions [m] 0 20 0 16 8 2 7,5	(km/h) 0 + 5000 + 20000 1 0 1 16000 + 8000 + 2000 - + 2000 - + 2000 - + 2000 - + - - - - - - - - - - - - -	Speed [n 0 + 210 + 267 1 267 267 267 267 267 267 267 267	Di n/s] Be 0,000 58,333 74,167 74,167 74,167 74,167 0,000 55,556 59,722 59,722 55,556 58,333	etween (m) Be 0,000 4967,559 32,441 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11417,382 127,348 0,000 0,000 400,270 7500,000 821,709 254,165 0,000 0,000 2424,126 1500,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,327 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 41,000 50,600 50,600 50,600 51,000 55,500 55,576 59,576 62,000 63,500	etween 70 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725 1,110 0,379 0,094 0,000 0,000 0,000 0,000 0,000 0,019 2,318 0,024 0,000 0,010 0,010 0,000000	tal 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 16,756 17,865 18,244 18,338 12,022 21,029 21,029 21,0098 22,131 1,098 22,289	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [[km] 0 25 39 41 49 51 58,5	iections [[m] 0 5 20 14 2 8 2 7,5	im] 50 200 140 20 20 20 20 20 20 20 20 20 20 20 20 20	[km/h] 0 + 00 + 1 00 2 00 2 00 2 00 2 00 2 00 2 00 2 00 2 00 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 2 2 0 2 2 2 0 2 2 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2	Speed [m, 0 + 210 + 267 267 267 267 - 265 - 200 + 215 210 + 210 210	Dist Bet 58,333 74,167 74,167 74,167 74,167 73,611 55,556 59,722 59,722 55,556 58,333	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584 0,000 68,416 56,5520 13933,584 0,000 400,000 1272,382 327,348 0,000 400,270 7500,000 400,270 7500,000 400,270 7500,000 224,165 0,000 0,000 224,126 1500,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,973 1,943 8,000 1,272 0,327 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057 41,000 49,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,576 5,576 5,5776 6,2,000 63,500	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 1,091 0,000 10,991 0,000 10,991 0,000 10,991 0,010 11,027 0,517 11,537 2,472 14,009 0,379 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,011 14,6019 0,248 17,166 0,075 17,241 0,000 17,241 0,000 17,241 1,033 18,274
acceleration Borås Bollebyg Landvetter Mölniycke Korsvägen	Distance from Gothenburg [km] 0 5 25 25 41 49 51 58,5 62	ions [m] 0 5 20 0 16 8 2 7,5 3,5	(km/h) 0 + 50000 + 200000 1 0 1 160000 + 8000 + 20000 - 15000 - 15000 - 15000 - 1 16000 - 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed [n 0 + 210 + 267 1 267 - 20 - 200 - - 200 - - 200 - - - - - - - - - - - - -	0,000 58,333 74,167 74,167 74,167 74,167 74,167 74,167 74,167 55,556 59,722 59,722 55,556 58,333 58,333 22,222	Etween [m] B4 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11416,088 4583,912 1272,382 327,348 327,348 1272,382 327,348 1272,382 327,348 1272,382 327,348 1272,382 327,348 1272,382 12	0,000 4,968 0,032 7,374 12,524 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,000 0,000 0,822 0,254 0,000 0,000 0,000 0,000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 44,000 50,272 50,600 50,600 50,600 50,500 53,500 53,576 53,576 62,000 63,500	etween 70 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,2642 2,122 1,500 0,000 0,000 0,2642 2,122 1,500 0,000 0,000 0,264 0,275 0,000000	rter 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 16,755 17,865 18,244 18,338 12,037 12,039 12,031 14,032 14,032 1	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [] [km] 0 25 39 41 49 51 58,5 62	iections [[[20 14 2 8 2 7,5 3,5	im] 50 200 140 20 20 20 20 20 20 35	[km/h] 0 + 00 + 20 00 2 00 - 20 - - - - - - - - - - - - -	Speed (m,) + 267 267 267 267 265 200 + 215 200 + 215 200 + 210 200 200 200 200 200 200 200 200 200	Dist Bet 0,000 58,333 74,167 74,167 74,167 74,167 73,611 55,556 59,722 55,556 58,333 58,333 22,222	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 68,416 55,520 13931,584 8000,000 68,416 55,520 13931,584 8000,000 0,	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,932 0,000 0,000 0,000 1,272 0,327 0,000 0,000 0,000 0,822 0,254 0,000 0,000 2,424 1,500 0,000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,007 41,000 49,000 50,272 50,600 50,600 50,600 50,600 50,600 50,600 50,500 59,576 62,500 63,500	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 1,911 0,000 1,091 0,000 1,091 0,000 1,091 0,000 1,091 0,000 1,091 0,001 11,020 0,517 11,537 2,472 14,009 0,379 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,241 0,000 19,433
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg Sect [km] 0 5 25 25 41 49 51 58,5	ions [m] 0 20 0 16 8 2 7,5	(km/h) 0 + 5000 + 20000 1 0 1 16000 + 8000 + 2000 - + 2000 - + 2000 - + 2000 - + - - - - - - - - - - - - -	Speed [n 0 + 210 + 267 267 267 267 267 267 267 267	DJ m/s] Be 9,000 58,333 74,167 74,167 74,167 74,167 74,167 55,556 59,722 59,722 55,556 58,333 58,333	etween (m) Be 0,000 4967,559 32,441 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11417,382 127,348 0,000 0,000 400,270 7500,000 821,709 254,165 0,000 0,000 2424,126 1500,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,327 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 41,000 50,600 50,600 50,600 51,000 55,500 55,576 59,576 62,000 63,500	etween 70 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,2642 2,122 1,500 0,000 0,000 0,2642 2,122 1,500 0,000 0,000 0,264 0,275 0,000000	rar 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 10,409 10,409 112,531 14,031 14,031 14,031 18,244 18,338 12,098 23,289 23,289 23,289 14,391 14,391 14,391 14,391 14,391 14,391 14,391 14,391 14,391 14,391 14,391 14,391 14,391 14,391 14,392 1	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [[km] 0 25 39 41 49 51 58,5	iections [[m] 0 5 20 14 2 8 2 7,5	im] 50 200 140 20 20 20 20 20 20 20 20 20 20 20 20 20	[km/h] 0 + 00 + 20 00 2 00 - 20 - - - - - - - - - - - - -	Speed (m,) + 267 267 267 267 265 200 + 215 200 + 215 200 + 210 200 200 200 200 200 200 200 200 200	Dist Bet 58,333 74,167 74,167 74,167 74,167 73,611 55,556 59,722 55,556 58,333 58,333	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584 0,000 68,416 56,5520 13933,584 0,000 400,000 1272,382 327,348 0,000 400,270 7500,000 400,270 7500,000 400,270 7500,000 224,165 0,000 0,000 2424,126 1500,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,973 1,943 8,000 1,272 0,327 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 39,000 39,057 41,000 49,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,576 5,576 5,5776 6,2,000 63,500	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 1,091 0,000 10,991 0,000 10,991 0,000 10,991 0,010 11,027 0,517 11,537 2,472 14,009 0,379 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,000 14,482 0,011 14,6019 0,248 17,166 0,075 17,241 0,000 17,241 0,000 17,241 1,033 18,274
acceleration Borås Bollebyg Landvetter Mölniycke Korsvägen	Distance from Gothenburg [km] 0 5 25 25 41 49 51 58,5 62	ions [m] 0 5 20 0 16 8 2 7,5 3,5	(km/h) 0 + 50000 + 200000 1 0 1 160000 + 8000 + 20000 - 15000 - 15000 - 15000 - 1 16000 - 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed [n 0 + 210 + 267 1 267 - 20 - 200 - - 200 - - 200 - - - - - - - - - - - - -	0,000 58,333 74,167 74,167 74,167 74,167 74,167 74,167 74,167 55,556 59,722 59,722 55,556 58,333 58,333 22,222	Etween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 11416,088 4583,912 0,000 0,000 409,171 35590,829 1272,382 327,348 0,000 0,000 400,270 0,000000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 11,416 4,584 0,000 4,409 3,591 1,272 0,327 0,000 0,000 0,000 0,400 7,500 0,000 0,254 0,000000	0,000 4,968 5,000 12,374 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 44,000 45,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,500 63,500 63,500 63,500 63,500 63,500	etween 70 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,1500 2,725 1,110 0,379 0,094 0,000 0,119 2,318 0,248 0,075 0,000 0,000 0,000 0,1159 0,000	ter 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 10,409 12,531 14,031 14,031 18,244 18,338 12,039 21,098 21,098 22,131 23,289 23,289 23,289 23,289	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [] [km] 0 25 39 41 49 51 58,5 62	iections [[[20 14 2 8 2 7,5 3,5	im] 50 200 140 20 20 20 20 20 20 35	[km/h]	Speed (m, 0 + 267 267 267 267 267 267 - 265 - 200 + 215 210 210	Dist Bet 0,000 58,333 74,167 74,167 74,167 74,167 73,611 55,556 59,722 55,556 58,333 58,333 22,222	ween [m] Be 0,000 4967,559 32,441 1737,40,48 12625,952 0,000 0,000 13331,584 13331,584 13331,584 13331,584 13331,584 0,000 0,000 0,000 13331,584 0,000 0,000 13331,584 0,000 0,000 1272,382 0,000 821,709 254,165 0,000 0,000 821,709 254,165 0,000 0,000 0,000 0,000 1500,000	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1,272 0,327 0,000 0,000 0,400 7,500 0,400 0,554 0,000 0,254 0,000 0,000 0,254 0,000 0,000 0,000 0,254 0,000000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 38,932 38,932 38,932 38,932 39,000 39,057 41,000 49,000 50,272 50,600 50,272 50,600 50,600 50,272 50,600 50,600 50,600 51,000 55,000 55,000 63,500 63,500 63,500 63,500	tween Total 0,000 0,000 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 7,766 0,000 1,911 0,000 10,991 0,000 10,991 0,000 10,991 0,000 11,007 0,013 11,020 0,517 11,537 2,472 14,009 0,379 14,482 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,241 0,000 19,433 0,000 19,433 0,000 19,433 0,000 19,433 0,000 19,433
acceleration Borås Bollebyg Landvetter Mölniycke Korsvägen	Distance from Gothenburg [km] 0 5 25 25 41 49 51 58,5 62	ions [m] 0 5 20 0 16 8 2 7,5 3,5	(km/h) 0 + 50000 + 200000 1 0 1 160000 + 8000 + 20000 - 15000 - 15000 - 15000 - 1 16000 - 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed [n 210 + 210 + 267 - 267 - 267 - 267 - 267 - 267 - 267 - 267 - 200 + 215 - 200 + 215 - 200 - 210 - 210 - 210 - 207 - - 207 - 207 - 207 - 20 - 20	Di ny/s) 0,000 58,333 74,167 74,167 74,167 74,167 0,000 55,556 59,722 55,556 58,333 58,333 22,222 22,222	Etween (m) Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 4409,171 3590,829 1272,382 327,348 327,348 0,000 0,000 4400,270 7500,000 821,709 254,165 0,000 2424,126 1500,000 0,000 2424,126	0,000 4,968 0,032 7,374 12,526 0,000 0,000 0,000 0,000 11,416 4,584 4,000 4,409 3,591 1,272 0,327 0,000 0,000 0,000 0,000 0,822 0,254 0,000 0,000 2,424 1,550 0,000 0,000 0,000 0,000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 36,415 41,000 36,416 41,000 36,416 41,000 36,416 50,072 50,070 50,600 50,600 50,600 50,600 55,000 53,500 63,500 63,500 63,500	etween 70 0,000 2,924 0,010 1,911 2,922 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 2,725 1,110 0,379 0,094 0,000 0,000 0,019 2,318 0,004 0,000 0,119 2,318 0,004 0,000000	tar 0,000 2,924 2,933 4,844 7,766 7,766 7,766 7,766 7,766 7,766 7,766 10,409 11,2531 14,031 15,2531 14,031 16,755 18,244 18,338 12,023 21,029 21,029 22,131 22,029 23,289 23,289 23,289	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [] [km] 0 25 39 41 49 51 58,5 62	iections [[[20 14 2 8 2 7,5 3,5	im] 50 200 140 20 20 20 20 20 20 35	[km/h]	Speed (m, m, m) 0 + 267 267 267 267 267 267 267 215 215 215 210 1210 210	Dist Bet 0,000 58,333 74,167 74,167 74,167 74,167 74,167 73,611 55,556 59,722 55,556 58,333 58,333 22,222 22,222	ween [m] Be 0,000 4967,559 32,441 7374,048 12625,952 0,000 0,000 0,000 13931,584 0,000 0,000 0,000 68,416 56,520 1943,480 8000,000 1272,382 327,348 8000,000 1272,382 327,348 2254,165 0,000 0,000 0,000 224,126 1500,000 0	0,000 4,968 0,032 7,374 12,626 0,000 0,000 0,000 0,000 0,000 0,068 0,057 1,943 8,000 0,000 0,068 0,057 1,943 8,000 0,000 0,000 0,000 0,424 4,254 0,000 0,000 2,424 1,500 0,000 0,000 0,000	0,000 4,968 5,000 25,000 25,000 25,000 25,000 25,000 38,932 38,932 39,900 39,057 41,000 49,000 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,600 50,576 59,576 62,500 63,500 63,500 63,500	tween Total 0,000 0,000 2,924 0,010 2,924 0,010 2,924 0,010 2,924 2,924 0,010 2,933 1,911 4,844 2,922 7,766 0,000 7,766 0,000 7,766 0,000 10,991 0,000 10,991 0,000 10,991 0,010 11,007 0,113 11,007 0,517 14,537 2,472 14,482 0,000 14,482 0,000 14,482 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,241 0,000 17,433 0,000 19,433 0,000 19,433

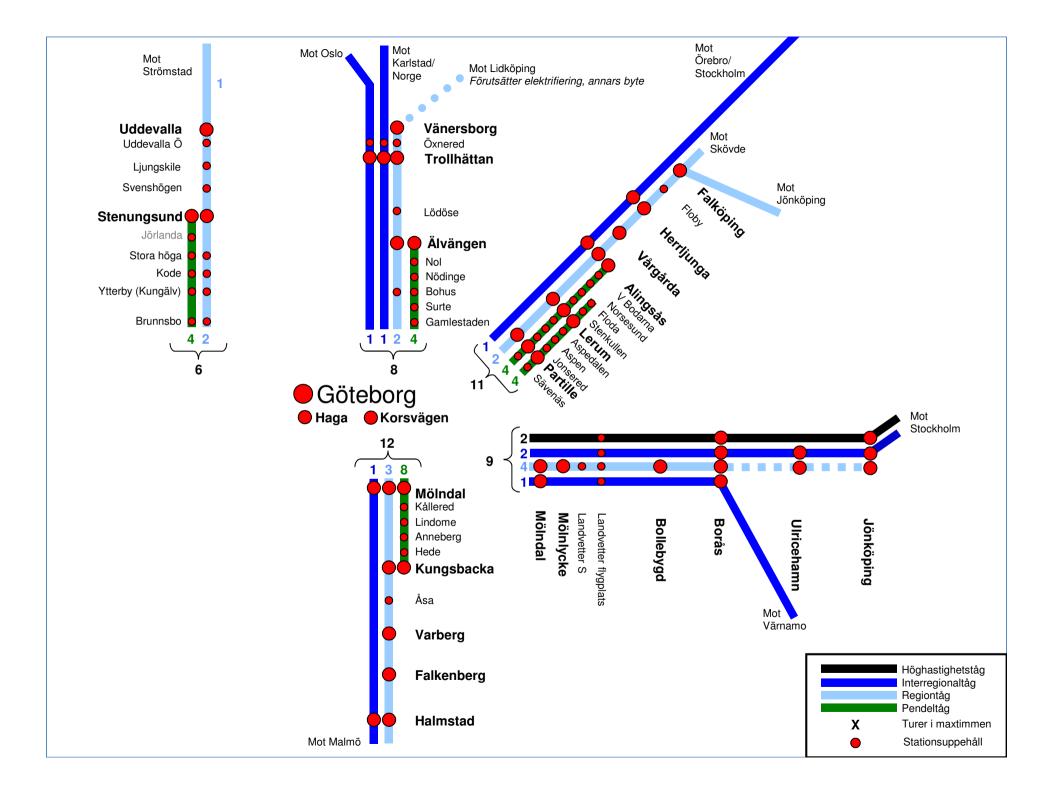
LRT - 5-step acceleration	max = 250 km/h Stops	: Gothenbu	rg, airport,	Bo	orâs					LRT - 5-s accelera		km/h Stops:	Gothenburg,		В	orâs				
	Distance from										Distance fro				_					
	Gothenburg Section [km] [km]	ns [m]	[km/h]	Speed (m		istance etween (m) Be	etween (km)	"otal [km] Be	Time (minutes) etween Tota		Gothenburg [km]	g Sections [km]	[m]	[kn	Speec n/h] [n		tance tween [m] Be	etween [km] To	tal [km] Be	Time [minutes] tween Total
Göteborg	0	Ind	0	0	0,000	0,000	0,000	0,000		,),000 Götebor		0	ini	0	0	0,000	0,000	0,000	0,000	0,000 0,000
			+	+	.,	585,095	0,585	0,585	0,865 0),865				+	+	.,	585,095	0,585	0,585	0,865 0,865
				80	22,222	914,905	0,915	1,500		,572					80	22,222	914,905	0,915	1,500	0,707 1,572
Haga	1,5	1,5	1500	80 I	22,222	0,000	0,000	1,500 1,500		1,572 1,572 Haga		1,5	1,5	1500 I	80 I	22,222	0,000	0,000	1,500	0,000 1,572 0,000 1,572
пада	1,5	1,5	1300	80	22,222	0,000	0,000	1,500		1,572 Haga		1,5	1,5	1300	80	22,222	0,000	0,000	1,500	0,000 1,572
				80	22,222	1500,000	1,500	3,000		2,730					80	22,222	1500,000	1,500	3,000	1,159 2,730
			I.	1		0,000	0,000	3,000		2,730				1	- I		0,000	0,000	3,000	0,000 2,730
Korsvägen	3	1,5	1500	80	22,222	0,000 4763,459	0,000 4,763	3,000 7,763		2,730 Korsväg 1.743	2n	3	1,5	1500	80	22,222	0,000 4763,459	0,000 4,763	3,000 7,763	0,000 2,730 2,012 4,743
	3	0	0	200	55,556	4703,439	4,703	7,763		1.743		3	0	0	200	55.556	4703,439	4,703	7,763	0.000 4.743
			1	1		0,000	0,000	7,763	0,000 4	1,743				1	1		0,000	0,000	7,763	0,000 4,743
				200	55,556	6236,541	6,237	14,000		670					200	55,556	6236,541	6,237	14,000	1,927 6,670
Mölnlycke	14	11	11000	200	55,556	0,000	0,000 0,000	14,000 14.000		5,670 5,670 Mölniyc	(A)	14	11	11000	200	55.556	0,000	0,000	14,000 14.000	0,000 6,670 0,000 6,670
monnyeke			+	+	55,550	1249,641	1,250	15,250	.,	7,042		14		+	+	55,550	1249,641	1,250	15,250	0,372 7,042
	16	2	2000	215	59,722	350,088	0,350	15,600		,143		16	2	2000	215	59,722	350,088	0,350	15,600	0,101 7,143
			-	- 200	55,556	400,270	0,400 5,428	16,000		7,262 3,939				-	- 200		400,270 8000.000	0,400 8.000	16,000 24.000	0,119 7,262 2,472 9,734
			-	200 -	55,550	5427,984 2572,016	2,572	21,428 24,000),529				1	200	55,556	0,000	0,000	24,000	0,000 9,734
Landvetter flp	24	8	8000	0	0,000	0,000	0,000	24,000	1,500 12	2,029 Landvet	er flp	24	8	8000	200	55,556	0,000	0,000	24,000	0,000 9,734
			+	+		10704,837	10,705	34,705		6,365				+	+		5356,282	5,356	29,356	1,459 11,193
	24	0	0	250	69,444	0,000 0.000	0,000 0,000	34,705 34,705		5,365 5.365		24	0	0	250	69,444	0,000 0,000	0,000	29,356 29,356	0,000 11,193 0,000 11,193
				250	69,444	5295,163	5,295	40,000		7,674				'	250	69,444	10643,718	10,644	40,000	2,631 13,824
			I.	1		0,000	0,000	40,000	.,	,674				1	1		0,000	0,000	40,000	0,000 13,824
Kråktorp	40	16	16000	250	69,444	0,000 0,000	0,000 0,000	40,000 40,000		7,674 Kråktorp 7,674		40	16	16000	250	69,444	0,000 0,000	0,000 0,000	40,000 40,000	0,000 13,824 0,000 13,824
	60	20	20000	250	69,444	19382.716	19,383	40,000		2,465		60	20	20000	250	69.444	19382,716	19.383	40,000	4,791 18,615
			-	-	,	617,284	0,617	60,000		2,624				-	-	,	617,284	0,617	60,000	0,159 18,774
				230	63,889	1598,508	1,599	61,599		3,054					230	63,889	1598,508	1,599	61,599	0,430 19,204
Borås	65	5	- 5000	-	0,000	3401,492 0.000	3,401 0,000	65,000 65.000	1,828 24 0,000 24			65	5	- 5000	-	0,000	3401,492 0,000	3,401 0,000	65,000 65,000	1,828 21,032 0,000 21,032
50103	05	5	5000	0	0,000	0,000	0,000	05,000	0,000 24	50105		05	5	5000	0	0,000	0,000	0,000	03,000	0,000 21,002
LRT - 5-step		Catharbu								LRT - 5-s			Cathardown			*-				
LRT - 5-step acceleration	max = 250 km/h Stops Distance from	: Gothenbu	rg, airport,	Во	orâs					LRT - 5-s accelera		km/h Stops:	Gothenburg,		Во	orâs				
				Bo Speed	Di	istance			Time [minutes	accelera	tion max = 250	om .	Gothenburg,		Speed		stance			Time [minutes]
acceleration	Distance from Gothenburg Sectio [km] [km]	ins [m]	[km/h]	Speed [m	Di. n/s] Be	etween [m] Be			etween Tota	accelera] /	tion max = 250 Distance fro	om g Sections [km]	[m]		Speec n/h] [n	d Dis n/s] Be	tween [m] Be			tween Total
	Distance from Gothenburg Section	ins		Speed	Di	etween [m] Be 0,000	0,000	0,000	etween Tota 0,000 0	accelera] /),000 Borâs	tion max = 250 Distance fro Gothenburg	om g Sections		[kn 0 +	Speed	d Dis	tween [m] Be 0,000	0,000	0,000	tween Total 0,000 0,000
acceleration	Distance from Gothenburg Sectio [km] [km]	ins [m]	[km/h]	Speed [m	Di. n/s] Be	etween [m] Be			etween Tota 0,000 0 2,333 2	accelera] /	tion max = 250 Distance fro Gothenburg	om g Sections [km]	[m]		Speec n/h] [n	d Dis n/s] Be	tween [m] Be			tween Total
acceleration	Distance from Gothenburg Sectio [km] [km] 0	nns [m] 0	[km/h] 0 +	Speed [m 0 + 220 +	Di. n/s] Be 0,000 61,111	etween [m] Ba 0,000 4818,364 181,636 2333,323	0,000 4,818 0,182 2,333	0,000 4,818 5,000 7,333	etween Tota 0,000 0 2,333 2 0,000 2 0,612 2	accelera // /,000 Borås /,333 /,333 /,345	tion max = 250 Distance fro Gothenburg	om g Sections [km] 0	[m]	0 +	Speed m/h] [n 0 + 220 +	d Dis n/s] Be 0,000 61,111	tween [m] Be 0,000 4818,364 181,636 2333,323	0,000 4,818 0,182 2,333	0,000 4,818 5,000 7,333	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,612 2,945
acceleration	Distance from Gothenburg Sectio [km] [km] 0	nns [m] 0	[km/h] 0 +	Speed [m 0 +	Di. n/s] Be 0,000	etween [m] Ba 0,000 4818,364 181,636 2333,323 17666,677	0,000 4,818 0,182 2,333 17,667	0,000 4,818 5,000 7,333 25,000	etween Tota 0,000 0 2,333 2 0,000 2 0,612 2 4,367 7	accelera //),000 Borås /,333 /,345 /,345	tion max = 250 Distance fro Gothenburg	om g Sections [km] 0	[m]	0 +	Speec n/h] [n 0 +	d Dis n/s] Be 0,000	tween [m] B4 0,000 4818,364 181,636 2333,323 17666,677	0,000 4,818 0,182 2,333 17,667	0,000 4,818 5,000 7,333 25,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,612 2,945 4,367 7,312
acceleration	Distance from Gathenburg Sectii [km] [km] 0 5	ins [m] 0 5	[km/h] 0 5000 +	Speed [m 0 + 220 + 250 	Di. n/s] Be 0,000 61,111 69,444	etween [m] Ba 0,000 4818,364 181,636 2333,323	0,000 4,818 0,182 2,333 17,667 0,000	0,000 4,818 5,000 7,333 25,000 25,000	etween Tota 0,000 0 2,333 2 0,000 2 0,612 2 4,367 7 0,000 7	accelera / / /000 Borås /333 /345 /312 /312	tion max = 250 Distance fro Gothenburg	om g Sections [km] 0 5	[m] 0 5	0 + 5000 + 	Speed n/h] [n 0 + 220 + 250 	d Dis n/s] Be 0,000 61,111 69,444	tween [m] B4 0,000 4818,364 181,636 2333,323 17666,677 0,000	0,000 4,818 0,182 2,333 17,667 0,000	0,000 4,818 5,000 7,333 25,000 25,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312
acceleration Borås	Distance from Gothenburg Section [km] [km] 0 5 25	nns [m] 0 5 20	[km/h] 0 + 5000 + 20000	Speed [m 220 + 250 250 	Di n/s] Be 0,000 61,111 69,444 69,444	etween [m] Ba 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000	etween Tota 0,000 C 2,333 2 0,000 2 0,612 2 4,367 7 0,000 7 0,000 7 0,000 7	accelera / / / /000 Borås /,333 /,345 /,312 /,313 /,313 /,312	tion max = 250 Distance fro Gothenburg	om Sections [km] 0 5 25	[<i>m</i>] 0 5	0 + 5000 + 20000	Speed n/h] [n 0 + 220 + 250 250 	d Dis n/s] Be 0,000 61,111 69,444 69,444	tween [m] Bu 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000	tween Total 0,000 0,000 2,333 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312
acceleration Borås	Distance from Gathenburg Sectii [km] [km] 0 5	ins [m] 0 5	[km/h] 0 5000 +	Speed [m 0 + 220 + 250 	Di. n/s] Be 0,000 61,111 69,444	etween [m] Ba 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 25,000	etween Tota 0,000 C 2,333 2 0,000 2 0,612 2 4,367 7 0,000 7 0,000 7 0,000 7 0,000 7	accelera / / /000 Borås /333 /345 /312 /312 Bollebyg /312 J	tion max = 250 Distance fro Gothenburg	om g Sections [km] 0 5	[<i>m</i>] 0 5	0 + 5000 + 	Speed n/h] [n 0 + 220 + 250 	d Dis n/s] Be 0,000 61,111 69,444	tween [m] Ba 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 14000,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 14,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 39,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312
acceleration Borås	Distance from Gothenburg Section [km] [km] 0 5 25	nns [m] 0 5 20	[km/h] 0 + 5000 + 20000	Speed [m 0 + 220 + 250 [250 [250 [Di n/s] Be 0,000 61,111 69,444 69,444 69,444	etween [m] Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000	etween Tota 0,000 0 2,333 2 0,000 2 0,612 2 4,367 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7	accelera / / /000 Borås ,333 ,333 ,333 ,334 ,312 ,312 Bollebyg ,312 ,312 ,312 ,312 ,312	tion max = 250 Distance fro Gothenburg	om Sections [km] 0 5 25	[<i>m</i>] 0 5	0 + 5000 + 20000	Speec m/h] [n + 220 + 250 250 250 	d Dis n/s] Be 0,000 61,111 69,444 69,444 69,444	tween [m] B4 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 14000,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 14,000 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 39,000 39,000	tween Total 0,000 0,000 2,333 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312
acceleration Borås Bollebyg	Distance from Gothenburg Section [km] 0 5 25 25	ns [m] 0 5 20 0	[km/h] 0 + 5000 + 20000 0 -	Speed [m 220 + 250 250 250 250 250	Di Di Be 0,000 61,111 69,444 69,444 69,444	ttween [m] Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 11,981 4,019	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000	etween Tota 0,000 C 2,333 2 0,000 2 0,612 2 4,367 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 2,962 1C 1,987 12	accelera] / / / / / / / / / / / / / / / / / /	tion max = 250 Distance fr Gothenburg [km]	om Sections [km] 0 5 25 39	[<i>m</i>] 0 5	0 + 5000 + 20000 14000 	Speec n/h] [n + 220 + 250 250 250 250 250 250 	d Dis n/s] Be 0,000 61,111 69,444 69,444 69,444 69,444	Instant Bit 0,000 4818,364 1818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 14000,000 0,000 553,241 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 14,000 0,553 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 39,000 39,000 39,553 39,553	tween Total 0,000 0,000 2,333 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773
acceleration Borås	Distance from Gothenburg Section [km] [km] 0 5 25	nns [m] 0 5 20	[<i>km/h</i>]	Speed [m 0 + 220 + 250 [250 [250 [Di n/s] Be 0,000 61,111 69,444 69,444 69,444	tween [m] Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000	etween Tota 0,000 0 2,333 2 0,612 2 4,367 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 1,987 12 1,500 13	accelera) () () () () () () () () () () () () (tion max = 250 Distance fr Gothenburg [km]	om Sections [km] 0 5 25	[<i>m</i>] 0 5	0 + 5000 + 20000 14000 2000	Speec m/h] [n + 220 + 250 250 250 	d Dis n/s] Be 0,000 61,111 69,444 69,444 69,444	Autor Bit 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 1,4000,000 0,000 553,241 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 14,000 0,000 0,553 0,000 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 39,000 39,000 39,553 39,553	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773
acceleration Borås Bollebyg	Distance from Gothenburg Sectic [km] 0 5 25 25 25	ns [m] 0 5 20 0	[km/h] 0 + 5000 + 20000 0 1 16000 +	Speed [m 0 + 220 + 250 [250 [250 - 0 +	Di n/s] Be 0,000 61,111 69,444 69,444 69,444 69,444 0,000	Etween [m] B4 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 3678,318	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000	etween Tota 0,000 0 2,333 2 0,600 2 0,612 2 4,367 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 2,962 10 1,987 12 1,500 13	accelera / / / / / / / / / / / / / / / / / /	tion max = 250 Distance fr Gothenburg [km]	om Sections [km] 0 5 25 39 41	[<i>m</i>] 0 5 20 14	0 + 5000 + 20000 14000 2000 -	Speec n/h] [n 220 + 250 250 250 250 250 250 250 250 250 250 250	d Dis m/s] Be 0,000 61,111 69,444 69,444 69,444 69,444	Kween [m] Bi 0,000 4818,364 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 14000,000 0,000 553,241 0,000 0,000 1446,759	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,000 0,053 0,000 0,000 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 39,000 39,000 39,000 39,553 39,553 39,553 39,553	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 11,773
acceleration Borås Bollebyg	Distance from Gothenburg Section [km] 0 5 25 25	ns [m] 0 5 20 0 16	[<i>km/h</i>]	Speed [m 220 + 250 250 250 250 250	Di Di Be 0,000 61,111 69,444 69,444 69,444	tween [m] Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000	etween Tota 0,000 C 2,333 2 0,000 2 0,612 2 4,367 2 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 1,987 12 1,500 13 1,998 15 1,335 17	accelera / / / / / / / / / / / / / / / / / /	tion max = 250 Distance fr Gothenburg [km]	om Sections [km] 0 5 25 39	[<i>m</i>] 0 5 20 14	0 + 5000 + 20000 14000 2000	Speec n/h] [n + 220 + 250 250 250 250 250 250 	d Dis n/s] Be 0,000 61,111 69,444 69,444 69,444 69,444	Autor Bit 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 1,4000,000 0,000 553,241 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 14,000 0,000 0,553 0,000 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 39,000 39,000 39,553 39,553	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773
acceleration Borås Bollebyg	Distance from Gothenburg Sectic [km] 0 5 25 25 25	ns [m] 0 5 20 0 16	[km/h] 0 + 5000 + 20000 0 1 16000 +	Speed [m 0 + 220 + 250 [250 [250 - 0 +	Di n/s] Be 0,000 61,111 69,444 69,444 69,444 69,444 0,000	etween (m) Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 319,830	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 44,678 49,000 50,140 50,460	etween Tota 0,000 C 2,333 2 0,000 2 0,612 2 4,367 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 1,987 12 1,500 13 1,998 15 1,335 17 0,335 17 0,035 17	accelera / / / / / / / / / / / / / / / / / / /	tion max = 250 Distance fr Gothenburg [km]	om Sections [km] 0 5 25 39 41	[<i>m</i>] 0 5 20 14	0 + 5000 + 20000 14000 2000 -	Speec n/h] [n 220 + 250 250 250 250 250 250 250 250 250 250 250	d Dis m/s] Be 0,000 61,111 69,444 69,444 69,444 69,444	tween [m] Bit 0,000 4318,364 181,636 2333,323 17666,677 0,000 0,000 0,000 1,4000,000 0,000 1,4000,000 0,000 1,532,241 0,000 1,406,759 8000,000 1,446,759 8000,000 1,440,477 319,830	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,053 0,000 0,053 0,000 0,000 0,000 0,1,447 8,000 1,140 0,320	0,000 4,818 5,000 7,333 25,000 25,000 25,000 39,000 39,000 39,000 39,553 39,553 39,553 39,553 41,000 49,000 50,140 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 11,170 2,472 13,642 0,337 11,170 2,472 13,647 0,335 13,977 0,000 14,067
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] [km] 0 5 25 25 41 49	ns [m] 0 5 20 0 16 8	[<i>km/h</i>] (<i>km/h</i>] + 5000 + 20000 0 16000 + 8000 + 	Speed [m + 220 + 250 250 - 0 + 250 - 0 + 220 + 220 - 1	Di Be 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111	Etween [m] Bi 0,000 4818,364 181,632 2333,323 17666,677 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 319,830 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 44,678 49,000 50,140 50,460	etween Tota 0,000 C 2,333 2 0,000 2 0,612 2 4,367 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 0,000 7 1,987 12 1,500 13 1,988 15 1,335 17 0,335 17 0,000 17	accelera)))) 000 Borås , 333 , 945 , 312 , 31 , 31	er	25 25 41 49	[<i>m</i>] 0 5 20 14 2 8	0 + 5000 + 20000 1 14000 1 2000 - 8000 +	Speec (n/h) [n + 220 + 250 250 250 250 250 - 200 + 220 	d Dis m/s] Bee 0,000 61,111 69,444 69,444 69,444 69,444 55,556 61,111	tween [m] Bit 0,000 0,000 4318,364 181,636 181,636 233,323 17666,677 0,000 0,000 0,000 14000,000 0,000 14000,000 0,000 14000,000 1440,000 1400,000 1440,47 19,830 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,053 0,000 0,053 0,000 0,000 1,447 8,000 1,140 0,320 0,000	0,000 4,818 5,000 7,333 25,000 25,000 25,000 39,000 39,000 39,553 39,553 39,553 39,553 41,000 49,000 50,140 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,001 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,900 10,773 0,900 10,773 0,937 11,170 2,472 13,642 0,335 13,977 0,900 14,067 0,900 14,067
acceleration Borås Bollebyg	Distance from Gothenburg Sectic [km] 0 5 25 25 25	ns [m] 0 5 20 0 16	[km/h] 0 + 5000 + 20000 0 1 16000 +	Speed [m 0 + 220 + 250 1 250 1 250 1 250 - 0 + 200 +	Di n/s] Be 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556	etween (m) Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 319,830	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 44,678 49,000 50,140 50,460	etween Tota 0,000 C 2,333 2 0,000 2 4,367 7 0,000 1 1,355 1 1,355 1 0,355 1 0,355 1 0,355 1 0,355 1 0,355 1 0,000 1	accelera / / / / / / / / / / / / / / / / / / /	er	om Sections [km] 0 5 25 39 41	[<i>m</i>] 0 5 20 14	0 + 5000 + 20000 14000 2000 -	Speed n/h] [n 0 + 220 + 250 250 250	d Dis n/s] Be 0,000 61,111 69,444 69,444 69,444 69,444 55,556	tween [m] Bit 0,000 4318,364 181,636 2333,323 17666,677 0,000 0,000 0,000 1,4000,000 0,000 1,4000,000 0,000 1,532,241 0,000 1,406,759 8000,000 1,446,759 8000,000 1,440,477 319,830	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,053 0,000 0,053 0,000 0,000 0,000 0,1,447 8,000 1,140 0,320	0,000 4,818 5,000 7,333 25,000 25,000 25,000 39,000 39,000 39,000 39,553 39,553 39,553 39,553 41,000 49,000 50,140 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 11,170 2,472 13,642 0,337 11,170 2,472 13,647 0,335 13,977 0,009 14,067
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] [km] 0 5 25 25 41 49	ns [m] 0 5 20 0 16 8	[<i>km/h</i>] 0 + 5000 1 16000 + 8000 + 2000 7500	Speed [m + 220 + 250 250 - 0 + 250 - 0 + 220 + 220 - 1	Di Be 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111	tween [m] Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 319,830 0,000 0,000 540,123 7500,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000 0,000 0,540 7,560	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 44,678 49,000 44,678 49,000 44,678 50,140 50,460 50,460 50,460 50,460	etween Tota 0,000 C 2,333 2 0,000 2 4,367 7 0,000 7	accelera / / / / / / / / / / / / / / / / / / /	er	25 39 41 51	[<i>m</i>] 0 5 20 14 2 8	0 + 5000 + 20000 1 14000 1 2000 - 8000 + 1 2000 - 7500	Speec (n/h) [n + 220 + 250 250 250 250 250 - 200 + 220 	d Dis m/s] Bee 0,000 61,111 69,444 69,444 69,444 69,444 55,556 61,111	tween [m] Bi 0,000 4818,364 1816,365 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1446,753 8000,000 1446,753 1140,047 319,830 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,053 0,000 0,000 1,447 8,000 1,140 0,320 0,000 0,140 0,320 0,000 0,540 7,500	0,000 4,818 5,000 7,333 25,000 25,000 39,000 39,000 39,553 39,553 39,553 39,553 39,553 41,000 49,000 50,140 50,460 50,466 50,466 51,000 58,500	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,067 0,337 11,170 2,4372 13,642 0,3357 11,607 0,000 14,067 0,000 14,067 0,519 14,267 0,519 14,267
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] [km] 0 5 25 25 41 49 51	ns [m] 0 20 0 16 8 2	[<i>km/h</i>] 0 + 5000 - 20000 0 1 16000 + 8000 + 20000 - -	Speed [m 0 + 220 1 250 1 250 1 250 - 0 + 200 + 220 - 220 - 200 +	Di 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111 61,111 55,556	etween (m) Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 319,830 0,000 540,123 7500,000 829,262	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,500 0,829	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 41,000 41,000 41,000 41,000 50,460 50,460 50,460 51,000 54,820 53,329	etween Tota 0,000 C 2,333 2 0,000 2 4,367 7 0,000 7	accelera / / / / / / / / / / / / / / / / / / /	er	25 39 41 51	[<i>m</i>] 0 5 20 14 2 8	0 + 5000 + 20000 1 14000 1 2000 + 2000 + 2000 -	Speec m/h] (250 250 250 250 250 250 250 250 250 250	d Dis n/s/ 0,000 61,111 69,444 69,444 69,444 69,444 55,555 61,111 61,111 55,556	tween [m] B 0,000 4818,364 1818,636 2333,323 17666,677 0,000 0,000 0,000 14000,000 0,000 1400,000 0,000 1400,000 0,000 1446,759 8000,000 1446,759 8000,000 540,123 750,000 529,562	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 1,4000 1,400 0,000 0,000 0,000 1,447 8,000 1,140 0,320 0,000 0,000 0,553 0,000 0,500 0,520	0,000 4,818 5,000 7,333 25,000 25,000 25,000 25,000 39,000 39,000 39,053 39,553 39,553 39,553 39,553 39,553 41,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,077 0,930 11,170 2,472 13,642 0,335 13,977 0,000 14,067 0,000 14,067 0,000 14,067 0,000 14,067 0,000 14,067 0,159 14,262 2,318 16,544 0,247 16,790
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] [km] 0 5 25 25 41 49 51	ns [m] 0 20 0 16 8 2	[<i>km/h</i>] 0 + 5000 1 16000 + 8000 + 2000 7500	Speed [m 0 + 220 + 250 1 250 1 250 - 0 + 200 + 220 1 220 -	Di 0,000 61,111 69,444	Etween [m] Bi 0,000 4818,364 181,632 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 4038,776 4038,776 0,000 3678,318 4321,682 1140,047 319,830 0,000 540,123 7500,000 829,262 109,975	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000 0,540 0,540 7,550 0,829 0,110	0,000 4,818 5,000 25,000 25,000 25,000 25,000 36,981 41,000 44,678 49,000 50,140 50,460 50,460 50,460 50,460 50,460 50,460 50,51,000 53,850 53,439	etween Tota 0,000 C 2,333 2 0,000 2 0,612 2 4,367 7 0,000 7	accelera / / / / / / / / / / / / / / / / / /	er	25 39 41 51	[<i>m</i>] 0 5 20 14 2 8	0 + 5000 + 20000 1 14000 1 2000 - 8000 + 1 2000 - 7500	Speec m/h] 0 + 220 + 250 250 250 250 250 - 200 + 220 220 -	d Dis n/s) Bee 61,111 69,444 69,444 69,444 69,444 55,556 61,111 61,111	tween [m] Bi 0,000 4818,364 1818,364 1818,636 2333,323 17666,677 0,000 0,000 0,000 1400,000 0,000 1400,000 1406,759 8000,000 1446,759 8000,000 0,000 1446,759 8000,000 0,000 1446,759 8000,000 0,000 1446,759 8000,000 0,000 1446,759 8000,000 0,000 1446,759 1456,759 1	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,000 1,447 8,000 1,140 0,320 0,000 0,540 7,500 0,829 0,110	0,000 4,818 5,000 25,000 25,000 25,000 39,000 39,000 39,553 39,553 39,553 39,553 39,553 41,000 49,000 50,460 50,460 50,460 50,460 51,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,012 2,436 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 1,0773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,300 14,067 0,000 14,067 0,000 14,067 0,000 14,0267 0,159 14,226 2,318 16,542 0,023 16,582
acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] [km] 0 5 25 25 41 49 51	ns [m] 0 20 0 16 8 2	[<i>km/h</i>] 0 + 5000 1 16000 + 8000 + 2000 7500	Speed [m 0 + 220 1 250 1 250 1 250 - 0 + 200 + 220 - 220 - 200 +	Di 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111 61,111 55,556	etween (m) Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 319,830 0,000 540,123 7500,000 829,262	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,500 0,640 7,500 0,829 0,110 0,000 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 36,981 41,000 36,981 41,000 50,460 50,460 50,460 50,460 53,200 53,293 54,439 55,439	etween Tota 0,000 C 2,333 2 0,000 2 4,367 7 0,000 7	accelera)))))))))))))))))))	tion max = 250 Distance fr Gothenburg [km]	277 Sections [km] 0 5 25 39 41 49 51 58,5	[<i>m</i>] 0 5 20 14 2 8	0 + 5000 + 20000 1 14000 1 2000 - 8000 + 1 2000 - 7500	Speec m/h] (250 250 250 250 250 250 250 250 250 250	d Dis n/s/ 0,000 61,111 69,444 69,444 69,444 69,444 55,555 61,111 61,111 55,556	tween [m] Bu 0,000 4818,364 2333,323 17666,677 0,000 0,000 0,000 1400,000 0,000 1400,000 0,000 1400,000 0,000 1446,759 8000,000 1446,759 319,830 0,000 0,000 0,000 1446,759 139,830 0,000 0,	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,000 1,447 8,000 1,447 8,000 1,447 8,000 0,000 0,540 0,320 0,000 0,540 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 39,000 39,000 39,553 39,553 39,553 41,000 49,000 50,460 50,460 50,460 50,460 50,460 50,460 51,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 1,0773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,067 0,335 13,977 0,900 14,067 0,000 14,067 0,000 14,067 0,015 14,226 2,318 16,544 0,247 16,822 0,000 16,822 0,000 16,822
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg Secti [km] 0 5 25 25 41 49 51 58,5	ns [m] 0 5 20 0 16 8 2 7,5	[<i>km/h</i>] 0 + 5000 + 20000 0 1 16000 + 8000 + 2000 - 7500 + 1	Speed [m 0 220 250 250 250 250 250 - 250 - 250 + 220 220 + 220 - 220 + 220 - 220 - 220 - 220 - 220 - 220 - 220 - 250 - 220 - 200 20 20	Di n/51 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111 61,111 55,556 59,722 59,722	Etween [m] Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 319,830 0,000 540,123 7500,000 829,262 109,975 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,020 0,000 0,540 7,500 0,540 7,500 0,540 7,500 0,020 0,540 7,500 0,020 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 41,000 44,678 49,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,54,50 50,50 50,50,50 50,50,50 50,50,50 50,50,50 50,50,50 50,50,50 50,50,50 50,50,50,50 50,50,50 50,50,50,50 50,50,50,50,50 50,50,50,50,50,50,50,50,50,50,50,50,50,5	etween 7 7070 0,000 C 2,333 2 0,000 2 4,367 7 0,000 17 0,000 12 0,000 12	accelera) () () () () () () () () () () () ()	tion max = 250 Distance fr Gothenburg [km]	27 Sections [km] 0 5 25 39 41 49 51 58,5	[<i>m</i>] 0 5 20 14 2 8 2 7,5	0 + 5000 + 20000 14000 1 2000 - 8000 + 2000 - 7500 + 1 0	Speec n/h] [n] 220 + 250 250 2 200 2 200 2 2 2 2	d Dis n/s) Be 0,000 61,111 69,444 69,444 69,444 69,444 69,444 55,556 61,111 61,111 55,556 59,722 59,722	tween (m) Bit 4818,364 0,000 4818,364 3418,365 2333,323 17666,677 0,000 0,000 14000,000 0,000 14000,000 553,241 1446,759 319,830 0,000 140,0,000 1140,047 319,830 0,000 553,241 7500,000 829,262 129,262 0,000 0,000 2560,764	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,053 0,000 0,000 1,447 8,000 1,140 0,320 0,000 0,540 7,500 0,020 0,540 7,500 0,020 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,553 0,000000	0,000 4,818 5,000 7,333 25,000 25,000 39,000 39,000 39,553 39,553 39,553 39,553 41,000 49,000 50,140 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,067 0,000 14,067 0,000 14,067 0,159 14,226 2,318 16,544 0,247 16,792 0,032 16,822 0,000 16,822 0,000 16,822 0,000 16,822 0,000 16,822 0,000 16,822 0,000 16,822
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg Secti [km] 0 5 25 25 41 49 51 58,5	ns [m] 0 5 20 0 16 8 2 7,5	[<i>km/h</i>] 0 + 5000 + 20000 0 1 16000 + 8000 + 2000 - 7500 + 1	Speed [m 0 + 220 + 250 1 250 1 250 - 0 + 200 + 220 - 220 - 220 - 200 + 215	Di 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111 61,111 55,556 59,722	etween (m) Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 319,830 0,000 540,123 7500,000 829,262 109,975 0,000 2560,764 1500,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,550 0,000 0,540 7,550 0,000 0,000 0,540 7,550 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 41,000 41,000 50,460 50,460 50,460 50,460 51,000 54,4000 54,4000 54,4000 54,4000 54,40000000000	etween Tota 0,000 C 2,333 2 0,000 2 4,367 7 0,000 1 0,000 7 0,000 1 0,000 2 0,000 2	accelera) () () () () () () () () () () () ()	tion max = 250 Distance fr Gothenburg [km]	27 Sections [km] 0 5 25 39 41 49 51 58,5	[<i>m</i>] 0 5 20 14 2 8 2 7,5	0 + 5000 + 20000 14000 1 2000 - 8000 + 2000 - 7500 + 1 0	Speec m/h] [n 4 220 + 250 [250 [250 250 - 200 + 220 - 200 + 220 - 200 + 220 - 200 - - 200 - - - -	d Dis n/s) Be 0,000 61,111 69,444 69,444 69,444 69,444 55,556 61,111 61,111 55,556 59,722	tween [m] B 0,000 41818,364 1818,1656 2333,323 17666,677 0,000 0,000 14000,000 0,000 14000,000 0,000 1400,000 0,000 1446,759 8000,000 1446,759 8000,000 540,123 7500,000 540,123 159,975 0,000 0,000 2567,74 1500,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 1,440 0,000 0,000 1,447 8,000 1,140 0,320 0,000 0,540 7,500 0,540 7,500 0,000 0,540 2,561 1,500	0,000 4,818 5,000 25,000 25,000 25,000 25,000 39,000 39,000 39,553 39,553 39,553 39,553 39,553 41,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 51,0000 51,0000 51,0000 51,0000 51,00000 51,0000000000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,067 0,000 14,067 0,000 14,067 0,000 14,067 0,001 14,067 0,002 16,524 0,247 16,544 0,247 16,822 0,000 16,822 0,000 16,822 1,159 19,054
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km] [km] 0 5 25 25 41 49 51 58,5 62	ns [m] 0 5 20 0 16 8 2 7,5 3,5	[<i>km/h</i>] (<i>km/h</i>	Speed (m 20 250 250 250 250 250 250 250 200 4 220 200 4 220 200 200 4 215 215 215 215 215 200 4 200 200 200 200 200 200 200 200 2	Di n/SJ 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111 61,111 55,556 59,722 22,222	Etween [m] B 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 0,000 11981,224 4018,776 0,000 0,000 540,123 7500,000 829,262 109,975 0,000 2560,764 1500,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,550 0,829 0,110 0,000 0,020 0,629 0,110 0,000 0,540 0,550 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 44,678 49,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,51,000 51,000 53,510 54,339 54,339 54,339 54,339 55,4,39 55,4,39 55,4,39 55,4,39 55,4,39 55,4,39 55,4,39 55,4,39 55,4,39 55,4,39 55,4,39 55,4,30 55,5100 55,51000 55,510000000000	etween 7 7070 0,000 10 0,2,333 2 0,000 2 0,000 2 0,000 2 0,000 7 0,000 17 0,000 17 0,000 17 0,000 17 0,000 17 0,000 2 0,000 10 0,000 1	accelera)))))))))))))))))))	tion max = 250 Distance fr Gothenburg [km]	25 39 41 58,5 62	[m] 0 5 20 14 2 8 2 7,5 3,5	0 5000 + 20000 1 14000 1 2000 - 8000 - 7500 + 3500 - 1 1 1 1 1 1 1 1 1 1 1 1 1	Speece nn/h) [n 220 + 220 250 250 250 220 + 220 + 220 + 220 + 220 + 220 220 250 220 250 20 250 20 2	d Die n/SJ Be 0,000 61,111 69,444 69,444 69,444 69,444 69,444 55,556 61,111 61,111 55,556 59,722 22,222	tween (m) Bit 0,000 4818,364 1818,1636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 1,000,000 0,000 533,241 319,830 0,000 0,000 1,140,0,470 0,000 1,140,0,471 319,830 0,000 0,000 540,123 7500,000 109,975 0,000 0,0000 2560,764 1500,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,053 0,000 1,447 8,000 1,140 0,320 0,000 0,540 7,500 0,829 0,110 0,000 0,829 0,110 0,000 0,000 2,561 1,500	0,000 4,818 5,000 25,000 25,000 39,000 39,000 39,553 39,553 39,553 39,553 41,000 49,000 50,140 50,140 50,460 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,50	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,067 0,000 14,067 0,000 14,067 0,000 14,067 0,021 16,822 0,000 16,822 0,000 16,822 0,000 16,822 0,000 16,822 0,000 16,822 0
acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg Secti [km] 0 5 25 25 41 49 51 58,5	ns [m] 0 5 20 0 16 8 2 7,5	[<i>km/h</i>] 0 + 5000 + 20000 0 1 16000 + 8000 + 2000 - 7500 + 1	Speed (m 20 250 250 250 250 250 250 200 200 200	Di n/SJ 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111 61,111 55,556 59,722 22,222 22,222	Etween [m] Bi 0,000 4818,364 181,635 2333,323 17666,677 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 3498,318 4321,682 1140,047 349,837 0,000 0,000 540,123 7500,000 829,262 109,975 0,000 2560,764 1500,000 0,000 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,500 0,829 0,110 0,000 0,540 7,500 0,000 0,540 7,500 0,000 0,578 0,578 0,579 0,570 0,570 0,570 0,570 0,570 0,570 0,570 0,570 0,570 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 36,981 41,000 36,981 41,000 36,981 41,000 50,460 50,460 50,460 50,460 50,460 50,460 53,200 53,292 59,439 59,439 59,439 59,439 59,439 59,439 59,439 59,439 59,543 50,545 50,543 50,543 50,543 50,543 50,543 50,543 50,543 50,543 50,543 50,545 50,555 50,555 50,555 50,555 50,5555 50,5555 50,55555 50,55555555	etween Totic 0,000 C 2,333 2 0,000 2 4,367 7 0,000 17 0,000 17 0,000 17 0,000 17 0,000 17 0,000 17 0,000 17 0,000 17 0,000 17 0,000 22 0,000 2	accelera)))))))))))))	tion max = 250 Distance fr Gothenburg [km]	27 Sections [km] 0 5 25 39 41 49 51 58,5	[<i>m</i>] 0 5 20 14 2 8 2 7,5	0 + 5000 + 20000 14000 1 2000 - 8000 + 2000 - 7500 + 1 0	Speece n/n/h) [n 250 250 250 250 250 250 250 250 200 200	d Die m/SJ Be 0,000 61,111 69,444 69,444 69,444 69,444 69,444 55,556 61,111 61,111 55,556 59,722 22,222 22,222	tween [m] Bit 0,000 4818,364 4818,364 1818,666 2333,323 17666,677 0,000 0,000 14000,000 0,000 14000,000 0,000 14000,000 0,000 1446,759 8000,000 134,830 0,000 540,123 7500,000 529,764 1500,000 2500,000 2500,000 0,5000 0,000 0,0000 0,000 0,0000 0,000 0,0000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,000 1,447 8,000 1,447 8,000 1,447 8,000 0,000 0,540 0,320 0,000 0,540 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 0,000 0,000 0,553 0,000 0,000 0,553 0,000 0,553 0,000 0,000 0,553 0,000 0,000 0,000 0,553 0,000 0,553 0,000 0,000 0,553 0,000 0,554 0,554 0,555 0,550 0,555 0,555 0,550 0,000 0,555 0,555 0,550 0,000 0,555 0,550 0,000 0,555 0,555 0,550 0,000 0,555 0,550 0,000 0,555 0,550 0,000 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555	0,000 4,818 5,000 25,000 25,000 25,000 25,000 39,000 39,000 39,553 39,553 39,553 41,000 49,000 50,140 50,460 50,500 60,5000 60,5000 60,5000 60,5000 60,5000 60,5000 60,5000 60,50	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 1,073 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,067 0,000 14,067 0,000 14,067 0,032 16,822 0,032 16,822 0,032 16,822 0,030 16,822 1,159 19,054 0,000 19,054 0,000 19,054 0,000 19,054
acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] [km] 0 5 25 25 41 49 51 58,5 62	ns [m] 0 5 20 0 16 8 2 7,5 3,5	[<i>km/h</i>] (<i>km/h</i>	Speed (m 20 250 250 250 250 250 250 250 200 4 220 200 4 220 200 200 4 215 215 215 215 215 200 4 200 200 200 200 200 200 200 200 2	Di n/SJ 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111 61,111 55,556 59,722 22,222	Etween [m] Bi 0,000 4818,364 181,636 2333,323 17666,677 0,000 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 119,830 0,000 540,123 7500,000 540,123 7500,000 540,123 1500,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,020 0,000 0,540 7,500 0,020 0,540 7,500 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 44,678 49,000 50,460 50,500 50,500 50,500 50,500 50,500 50,500 50,500 50,600 50,50	etween 7 7070 0,000 2 2,333 2 0,000 2 4,367 7 0,000 1 0,335 17 0,335 17 0,035 17 0,032 20 0,000 2 0,000 2 0,	accelera	tion max = 250 Distance fr Gothenburg [km]	25 39 41 58,5 62	[m] 0 5 20 14 2 8 2 7,5 3,5	0 5000 + 20000 1 14000 1 2000 - 8000 - 7500 + 3500 - 1 1 1 1 1 1 1 1 1 1 1 1 1	Speece nn/h) [n 220 + 220 250 250 250 220 + 220 + 220 + 220 + 220 + 220 220 250 220 250 20 250 20 2	d Die n/SJ Be 0,000 61,111 69,444 69,444 69,444 69,444 69,444 55,556 61,111 61,111 55,556 59,722 22,222	tween (m) Bit 0,000 0,000 418,364 181,636 2333,323 17666,677 0,000 0,000 14000,000 0,000 14000,000 0,000 553,241 319,830 0,000 114,0,07 1140,0,000 0,000 1140,0,000 0,000 553,241 319,830 0,000 250,0764 150,0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,053 0,000 0,000 1,447 8,000 1,140 0,320 0,000 0,540	0,000 4,818 5,000 7,333 25,000 25,000 39,000 39,000 39,553 39,553 39,553 39,553 39,553 39,553 39,553 41,000 49,000 50,140 50,460 50,400 60,500	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 1,713 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,067 0,000 14,067 0,000 14,067 0,000 16,822 0,000 16,822 0,000 16,822 0,000 16,822 0,000 19,054 0,000 19,054 0,000 19,054 0,000 19,054
acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] [km] 0 5 25 25 41 49 51 58,5 62	ns [m] 0 5 20 0 16 8 2 7,5 3,5	[<i>km/h</i>] (<i>km/h</i>	Speed (m 20 250 250 250 250 250 250 200 200 200	Di n/SJ 0,000 61,111 69,444 69,444 69,444 69,444 0,000 55,556 61,111 61,111 55,556 59,722 22,222 22,222	Etween [m] Bi 0,000 4818,364 181,635 2333,323 17666,677 0,000 0,000 0,000 0,000 11981,224 4018,776 0,000 3678,318 4321,682 1140,047 3498,318 4321,682 1140,047 349,837 0,000 0,000 540,123 7500,000 829,262 109,975 0,000 2560,764 1500,000 0,000 0,000 0,000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 11,981 4,019 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,500 0,829 0,110 0,000 0,540 7,500 0,000 0,540 7,500 0,000 0,578 0,578 0,579 0,570 0,570 0,570 0,570 0,570 0,570 0,570 0,570 0,570 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,981 41,000 36,981 41,000 36,981 41,000 36,981 41,000 50,460 50,460 50,460 50,460 50,460 50,460 53,200 53,292 59,439 59,439 59,439 59,439 59,439 59,439 59,439 59,439 59,543 50,545 50,543 50,543 50,543 50,543 50,543 50,543 50,543 50,543 50,543 50,545 50,555 50,555 50,5555 50,5555 50,55555 50,55555555	etween Totic 0,000 C 2,333 2 0,000 2 4,367 7 0,000 17 0,000 17 0,000 17 0,000 17 0,000 17 0,000 2 0,000 3 0,000 3 0,	accelera)))))))))))))	tion max = 250 Distance fra Gothenburg [km]	25 39 41 58,5 62	[m] 0 5 20 14 2 8 2 7,5 3,5	0 5000 + 20000 1 14000 1 2000 - 8000 - 7500 + 3500 - 1 1 1 1 1 1 1 1 1 1 1 1 1	Speece n/n/h) [n 250 250 250 250 250 250 250 250 200 200	d Die m/SJ Be 0,000 61,111 69,444 69,444 69,444 69,444 69,444 55,556 61,111 61,111 55,556 59,722 22,222 22,222	tween [m] Bit 0,000 4818,364 4818,364 1818,666 2333,323 17666,677 0,000 0,000 14000,000 0,000 14000,000 0,000 14000,000 0,000 1446,759 8000,000 134,830 0,000 540,123 7500,000 529,764 1500,000 2500,000 2500,000 0,5000 0,000 0,0000 0,000 0,0000 0,000 0,0000 0,000	0,000 4,818 0,182 2,333 17,667 0,000 0,000 0,000 0,000 0,000 0,000 1,447 8,000 1,447 8,000 1,447 8,000 0,000 0,540 0,320 0,000 0,540 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,553 0,000 0,000 0,553 0,000 0,000 0,553 0,000 0,553 0,000 0,000 0,553 0,000 0,000 0,000 0,553 0,000 0,553 0,000 0,000 0,553 0,000 0,554 0,554 0,555 0,550 0,555 0,555 0,550 0,000 0,555 0,555 0,550 0,000 0,555 0,550 0,000 0,555 0,555 0,550 0,000 0,555 0,550 0,000 0,555 0,550 0,000 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555 0,550 0,555	0,000 4,818 5,000 25,000 25,000 25,000 25,000 39,000 39,000 39,553 39,553 39,553 41,000 49,000 50,140 50,460 50,500 60,5000 60,5000 60,5000 60,5000 60,5000 60,5000 60,5000 60,50	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,612 2,945 4,367 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 7,312 0,000 1,073 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 10,773 0,000 14,067 0,000 14,067 0,000 14,067 0,032 16,822 0,032 16,822 0,032 16,822 0,030 16,822 1,159 19,054 0,000 19,054 0,000 19,054 0,000 19,054

LRT - 5-step acceleration	max = 267 km/l Distance from	h Stops:	Gothenburg,	airport,	В	iorâs						LRT - 5-step acceleration	max = 267 km/h Distance from	Stops:	Gothenburg,		Во	orås				
	Gothenburg	Sections			Speed	Dis	tance			Time [minut	tes]		Gothenburg	Sections			Speed	Dist	tance			Time [minutes]
	[km]	[km]	[m]	[km/h]		m/s] Bet	tween [m] B	letween [km] T	otal [km]	Between To	otal		[km]	[km]	[m]	[km/l	n] [m	o/s] Bet	ween [m] Be	tween [km] To	tal [km] Be	tween Total
Göteborg		0		0	0	0,000	0,000	0,000	0,000	-,	0,000	Göteborg		0		0	0	0,000	0,000	0,000	0,000	0,000 0,000
				+	+		585,095	0,585	0,585		0,865					+	+		585,095	0,585	0,585	0,865 0,865
				1	80	22,222	914,905 0.000	0,915	1,500 1,500	0,707	1,572 1,572						80	22,222	914,905 0.000	0,915 0,000	1,500 1,500	0,707 1,572 0,000 1,572
Haga		1,5	1,5	1500	80	22,222	0,000	0.000	1,500	0.000	1,572	Haga	1	5 1,5	5	1500	80	22,222	0,000	0.000	1,500	0,000 1,572
		-)-	_,_			,	0,000	0,000	1,500	0,000	1,572		-,	-,-	-			,	0,000	0,000	1,500	0,000 1,572
					80	22,222	1500,000	1,500	3,000	1,159	2,730						80	22,222	1500,000	1,500	3,000	1,159 2,730
				I	I		0,000	0,000	3,000	0,000	2,730					- I	1		0,000	0,000	3,000	0,000 2,730
Korsvägen		3	1,5	1500	80	22,222	0,000	0,000 4,763	3,000 7.763		2,730 4,743	Korsvägen		3 1,5	5	1500 +	80 +	22,222	0,000	0,000	3,000	0,000 2,730
		6,5	3,5	0	200	55.556	4763,459 0.000	4,763	7,763		4,743			3 (0	200	55.556	4763,459 0.000	4,763 0,000	7,763 7,763	2,012 4,743 0,000 4,743
		0,5	5,5	Ĭ	200	55,550	0,000	0,000	7,763		4,743			5		Ĩ	200	55,550	0,000	0,000	7,763	0,000 4,743
					200	55,556	6236,541	6,237	14,000	1,927	6,670						200	55,556	6236,541	6,237	14,000	1,927 6,670
				I	- I		0,000	0,000	14,000	0,000	6,670					- I	1		0,000	0,000	14,000	0,000 6,670
Mölnlycke		14	7,5	11000	200	55,556	0,000 1249.641	0,000	14,000 15,250	0,000	6,670 7.042	Mölnlycke	1	4 11	L 1	1000	200	55,556	0,000 1249.641	0,000 1,250	14,000 15,250	0,000 6,670 0.372 7.042
		16	2	2000	215	59,722	1249,641 350,088	0,350	15,250		7,042 7,143		1	6 2	,	2000	215	59,722	1249,641 350,088	1,250	15,250	0,372 7,042 0,101 7,143
		10	-	-		<i>33,722</i>	400,270	0,400	16,000	0,119	7,262		-	•	-	-		55,722	400,270	0,400	16,000	0,119 7,262
					200	55,556	5427,984	5,428	21,428	1,677	8,939						200	55,556	8000,000	8,000	24,000	2,472 9,734
				-	-		2572,016	2,572	24,000		10,529					1	1		0,000	0,000	24,000	0,000 9,734
Landvetter flp		24	8	8000	0	0,000	0,000	0,000	24,000		12,029	Landvetter flp	2	4 8	3	3000	200	55,556	0,000	0,000	24,000	0,000 9,734
		24	0	0	267	74,167	13250,305 0,000	13,250 0.000	37,250 37,250		16,975 16,975		2	4 (0	267	74,167	7901,750 0.000	7,902 0,000	31,902 31,902	2,069 11,803 0.000 11.803
		24	0	Ŭ.	207	/4,10/	0,000	0,000	37,250		16,975		2	-	,	Ŭ.	207	/4,10/	0,000	0,000	31,902	0,000 11,803
					267	74,167	2749,695	2,750	40,000		17,612						267	74,167	8098,250	8,098	40,000	1,874 13,678
				I.	- I		0,000	0,000	40,000	0,000						1	1		0,000	0,000	40,000	0,000 13,678
Kråktorp		40	16	16000	267	74,167	0,000	0,000	40,000	0,000		Kråktorp	4	0 16	5 1	5000	267	74,167	0,000	0,000	40,000	0,000 13,678
		60	20	20000	267	74.167	0,000 18817,580	0,000 18,818	40,000 58,818	0,000 4,356			6	0 20		0000	267	74.167	0,000 18817,580	0,000 18,818	40,000 58,818	0,000 13,678 4,356 18,033
		00	20	-	- 207	/4,10/	1182,420	1,182	60.000		22,261			0 20	, 2	-	- 207	/4,10/	1182,420	1,182	60.000	0,294 18,327
					230	63,889	1598,508	1,599	61,599	0,430							230	63,889	1598,508	1,599	61,599	0,430 18,757
				-	-		3401,492	3,401	65,000	1,828						-	-		3401,492	3,401	65,000	1,828 20,585
Borâs		65	5	5000	0	0,000	0,000	0,000	65,000	0,000	24,519	Borâs	6	5 5	5	5000	0	0,000	0,000	0,000	65,000	0,000 20,585
LRT - 5-step												LRT - 5-step										
LRT - 5-step acceleration	max = 267 km/ł	h Stops:	Gothenburg,	airport,	В	orâs						LRT - 5-step acceleration	max = 267 km/h	Stops:	Gothenburg,		Bo	orås				
	Distance from		Gothenburg,	airport,									Distance from		Gothenburg,							
	Distance from Gothenburg	Sections			Speed	Dis	tance			Time [minut			Distance from Gothenburg	Sections			Speed	Dist	tance			Time [minutes]
acceleration	Distance from	Sections [km]	[m]	[km/h]	Speed [n	Dis m/s] Bet	tween [m] B			Between To	otal	acceleration	Distance from Gothenburg [km]	Sections [km]	[m]	[km/l	Speed	Dist Dist	ween [m] Be			tween Total
	Distance from Gothenburg	Sections			Speed	Dis		letween [km] 7 0,000 4,818	⁻ otal [km] 1 0,000 4,818	Between To 0,000			Distance from Gothenburg [km]	Sections	[m]	[km/l 0 +	Speed	Dist		tween [km] Ta 0,000 4,818	0,000	
acceleration	Distance from Gothenburg	Sections [km]	[m]	[km/h]	Speed [n	Dis m/s] Bet	tween [m] B 0,000	0,000	0,000	Between To 0,000 2,333	otal 0,000	acceleration	Distance from Gothenburg [km]	Sections [km]	[<i>m</i>]		Speed	Dist Dist	ween [m] Be 0,000	0,000		tween Total 0,000 0,000
acceleration	Distance from Gothenburg	Sections [km] 0	[<i>m</i>] 0	[km/h] 0 +	Speed [n 0 + 220 +	Dis m/s] Bet 0,000 61,111	tween [m] B 0,000 4818,364 181,636 3905,891	0,000 4,818 0,182 3,906	0,000 4,818 5,000 8,906	Between To 0,000 2,333 0,000 0,989	0,000 2,333 2,333 3,322	acceleration	Distance from Gothenburg [km]	Sections [km] 0 0	[<i>m</i>]	0 +	Speed) [m 0 + 220 +	Dist D/s] Bet 0,000 61,111	ween [m] Be 0,000 4818,364 181,636 3905,891	0,000 4,818 0,182 3,906	0,000 4,818 5,000 8,906	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,989 3,322
acceleration	Distance from Gothenburg	Sections [km] 0	[<i>m</i>] 0	[km/h] 0 +	Speed [n 0 +	Dis m/s] Bet 0,000	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109	0,000 4,818 0,182 3,906 16,094	0,000 4,818 5,000 8,906 25,000	Between To 0,000 2,333 0,000 0,989 3,725	otal 0,000 2,333 2,333 3,322 7,047	acceleration	Distance from Gothenburg [km]	Sections [km] 0 0	[<i>m</i>]	0 +	Speed n] [m 0 +	Dist D/s] Bet 0,000	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109	0,000 4,818 0,182 3,906 16,094	0,000 4,818 5,000 8,906 25,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,989 3,322 3,725 7,047
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5	[<i>m</i>] 0 5	[km/h] 0 + 5000 +	Speed [n 0 + 220 + 267 	Dis m/s] Bet 0,000 61,111 74,167	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000	0,000 4,818 0,182 3,906 16,094 0,000	0,000 4,818 5,000 8,906 25,000 25,000	Between Ta 0,000 2,333 0,000 0,989 3,725 0,000	0,000 2,333 2,333 3,322 7,047 7,047	acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 0	[m] 5	0 5000 + 	Speed [m 0 + 220 + 267 	Dist D/s] Bet 0,000 61,111 74,167	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000	0,000 4,818 0,182 3,906 16,094 0,000	0,000 4,818 5,000 8,906 25,000 25,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,989 3,322 3,725 7,047 0,000 7,047
acceleration	Distance from Gothenburg [km]	Sections [km] 0	[<i>m</i>] 0	[km/h] 0 +	Speed [n 0 + 220 +	Dis m/s] Bet 0,000 61,111	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109	0,000 4,818 0,182 3,906 16,094	0,000 4,818 5,000 8,906 25,000	Between Ta 0,000 2,333 0,000 0,989 3,725 0,000 0,000	otal 0,000 2,333 2,333 3,322 7,047	acceleration	Distance from Gothenburg [km]	Sections [km] 0 0	[m] 5	0 +	Speed) [m 0 + 220 +	Dist D/s] Bet 0,000 61,111	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109	0,000 4,818 0,182 3,906 16,094	0,000 4,818 5,000 8,906 25,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,989 3,322 3,725 7,047
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5	[<i>m</i>] 0 5	[km/h] 0 + 5000 +	Speed [n 0 + 220 + 267 	Dis m/s] Bet 0,000 61,111 74,167	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000	0,000 4,818 5,000 8,906 25,000 25,000 25,000 25,000 25,000	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000	54al 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047	acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 (5 5 5 2([<i>m</i>]	0 5000 + 	Speed [m 0 + 220 + 267 	Dist D/s] Bet 0,000 61,111 74,167	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 13931,584	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 13,932	0,000 4,818 5,000 8,906 25,000 25,000 25,000 25,000 38,932	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,989 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5	[<i>m</i>] 0 5	[km/h] 0 + 5000 + 20000	Speed [n 220 + 267 267 267 267	Dis m/s] Bet 0,000 61,111 74,167 74,167 74,167	Image: ween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000	btal 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047	acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 (5 5 5 2([<i>m</i>]	0 + 5000 + 1 0000 1	Speed) [m 0 + 220 + 267 267 267 -	Dist ()/5] Bet 0,000 61,111 74,167 74,167 74,167	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 13931,584 68,416	0,000 4,818 3,906 16,094 0,000 0,000 13,932 0,068	0,000 4,818 5,000 8,906 25,000 25,000 25,000 25,000 38,932 39,000	tween Total 0,000 0,000 2,333 2,333 0,989 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,025 10,272 0,016 10,288
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5	[<i>m</i>] 0 5	[km/h] 0 + 5000 + 20000	Speed [n 0 + 220 + 267 [267	Dis m/s] Bet 0,000 61,111 74,167 74,167	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 11416,088	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000 0,000 0,000 11,416	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 2,642	btal 0,000 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 9,689	acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 (5 5 5 2([<i>m</i>]	0 + 5000 + 1 0000 1	Speed a) [m 220 + 267 267 1 267 	1 Dist)/s] Bet 0,000 61,111 74,167 74,167	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 13931,584 68,416 56,520	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 13,932 0,068 0,057	0,000 4,818 5,000 8,906 25,000 25,000 25,000 25,000 38,932 39,000 39,057	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,989 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25	[<i>m</i>] 0 5 20 0	[km/h] 0 + 5000 + 20000	Speed [n 220 + 267 267 267 267	Dis 0,000 61,111 74,167 74,167 74,167 74,167 74,167	Image: ween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000 0,000 0,000 11,416 4,584	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122	btal 0,000 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 9,689 11,811	acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 (5 5 5 2(9 14	[m] 5) 2 1 1	0 + 5000 + 1 0000 1	Speed) [m 0 + 220 + 267 267 267 - 267 267 267 	Dist ()/5] Bet 0,000 61,111 74,167 74,167 74,167 74,167 73,611	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 13931,584 68,416	0,000 4,818 3,906 16,094 0,000 0,000 13,932 0,068	0,000 4,818 5,000 8,906 25,000 25,000 25,000 25,000 38,932 39,000	tween Total 0,000 0,000 2,333 2,333 0,989 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288
acceleration Borås	Distance from Gothenburg [km]	Sections [km] 0 5	[<i>m</i>] 0 5	[<i>km/h</i>] 0 + 5000 + 20000 0 -	Speed [n 0 + 220 + 267 267 267 267 267 267	Dis m/s] Bet 0,000 61,111 74,167 74,167 74,167	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000 0,000 0,000 11,416	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 2,642	btal 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 1,047 1,811 13,311	acceleration Borås	Distance from Gothenburg [km] 2	Sections [km] 0 (5 5 5 2(9 14	[m] 5) 2 1 1	0 + 5000 + + 0000 4000 - 	Speed) [m 0 + 220 + 267 267 267 -	Dist ()/5] Bet 0,000 61,111 74,167 74,167 74,167	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 13931,584 68,416 56,520 0,000	0,000 4,818 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 38,932 39,000 39,057 39,057	tween Total 0,000 0,000 2,333 2,333 0,989 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25	[<i>m</i>] 0 5 20 0	[<i>km/h</i>] 0 + 5000 + 20000 0 -	Speed [n 0 + 220 + 267 267 267 267 267 267	Dis 0,000 61,111 74,167 74,167 74,167 74,167 74,167	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 3678,318 4321,682	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 44,678 49,000	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335	btal 0,000 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 1,046 1,530 1,665 1,665 1,655 1,555 1,5	acceleration Borås Bollebyg	Distance from Gothenburg [km] 2	Sections [km] 5 5 5 20 9 14	[m] 5) 2 1 1	0 + 5000 + 1 5000 1 4000 - 1 2000	Speed) [m 0 + 220 + 267 267 267 - 267 267 267 	Dist ()/5] Bet 0,000 61,111 74,167 74,167 74,167 74,167 73,611	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 13931,584 68,416 56,520 0,000 0,000 1943,480 8800,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 13,932 0,068 0,057 0,000 0,000 1,943 8,000	0,000 4,818 5,000 25,000 25,000 25,000 38,932 39,000 39,057 39,057 39,057 41,000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,989 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 1,0428 0,001 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,001 10,288 0,002 13,276
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41	[<i>m</i>] 0 5 20 0	[<i>km/h</i>] 0 + 5000 + 20000 0 16000 +	Speed [n 220 + 267 267 267 - 0 + 200 +	Dis 0,000 61,111 74,167 74,167 74,167 74,167 0,000 55,556	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 3678,318 4321,682 1140,047	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11,416 4,584 4,322 4,322 1,140	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 44,678 49,000 50,140	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335 0,335	0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 11,811 13,311 15,309 16,645	acceleration Borås Bollebyg	Distance from Gothenburg [km] 2 3	Sections [km] 5 5 5 20 9 14	[m] 5) 2 1 1	0 + 5000 + + 0000 4000 - 2000 -	Speed) [m 0 + 220 + 267 1 267 - 265 1 265 - 200 +	Dist 0,000 61,111 74,167 74,167 74,167 73,611 73,611 55,556	ween [m] Be 0,000 4818,364 184,636 3905,891 16094,109 0,000 0,000 0,000 13931,584 68,416 56,520 0,000 0,000 1943,480 8000,000 1140,047	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 0,000 1,943 8,000 1,140	0,000 4,818 5,000 25,000 25,000 25,000 38,932 39,000 39,057 39,057 39,057 41,000 49,000 50,140	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,700 2,333 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,0335 13,611
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41	[<i>m</i>] 0 5 20 0	[<i>km/h</i>] 0 + 5000 + 20000 0 16000 +	Speed [n 0 + 220 + 267 267 267 - 0 +	Dis Bet 0,000 61,111 74,167 74,167 74,167 74,167 0,000	tween [m] B 0,000 4818,364 181,636 33005,891 16094,109 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 3678,318 4321,682 1140,047 319,830	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 44,678 49,000 50,140	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 2,122 1,500 1,998 1,335 0,335 0,090	bt) 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 13,311 13,311 15,309 16,645 16,980	acceleration Borås Bollebyg	Distance from Gothenburg [km] 2 3	Sections [km] 5 5 5 20 9 14	[m] 5) 2 1 1	0 + 5000 + + 0000 4000 - 2000 -	Speed) [m 0 + 220 + 267 267 - 265 265 - -	Dist 0,000 61,111 74,167 74,167 74,167 73,611	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 13931,584 68,416 55,520 0,000 1943,480 8000,000 1140,047 319,830	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 0,000 0,000 1,943 8,000 1,140 0,320	0,000 4,818 5,000 25,000 25,000 25,000 39,057 39,057 39,057 41,000 49,000 50,140 50,460	Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,989 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,010 12,889 0,517 10,804 2,472 13,270
acceleration Borås Bollebyg	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41	[<i>m</i>] 0 5 20 0	[<i>km/h</i>] 0 + 5000 + 20000 0 16000 +	Speed [n 220 + 267 267 267 - 0 + 200 +	Dis 0,000 61,111 74,167 74,167 74,167 74,167 0,000 55,556	tween [m] B 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 3678,318 4321,682 1140,047	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11,416 4,584 4,322 4,322 1,140	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 44,678 49,000 50,140	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335 0,335 0,090 0,000	bt) 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 13,311 13,311 15,309 16,645 16,980	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 2 3	Sections [km] 0 (0 5 2 9 1 1 2 9 8	[m] 5 0 2 1 1 2 3	0 + 5000 + + 0000 4000 - 2000 -	Speed) [m 0 + 220 + 267 1 267 - 265 1 265 - 200 +	Dist 0,000 61,111 74,167 74,167 74,167 73,611 73,611 55,556	ween [m] Be 0,000 4818,364 184,636 3905,891 16094,109 0,000 0,000 0,000 13931,584 68,416 56,520 0,000 0,000 1943,480 8000,000 1140,047	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 0,000 1,943 8,000 1,140	0,000 4,818 5,000 25,000 25,000 25,000 38,932 39,000 39,057 39,057 39,057 41,000 49,000 50,140	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,700 2,333 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,0335 13,611
acceleration Borâs Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 25 25 41 49	[m] 0 5 20 0 16 8	[<i>km/h</i>] + 5000 + 20000 1 16000 + 8000 + 1	Speed [n 220 + 267 267 267 267 - 0 + 200 + 2200 	Dis 0,000 61,111 74,167 74,167 74,167 74,167 0,000 55,556 61,111	tween [m] B 0,000 4318,364 181,635 3905,891 16094,109 0,000 0,000 0,000 0,000 11416,088 4583,912 0,000 3678,318 4321,682 1140,047 319,830 0,000	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 44,678 49,000 50,140 50,460	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335 0,335 0,335 0,090 0,000	2,333 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 11,811 13,311 15,309 16,645 16,645 16,645 16,645	acceleration Borås Bollebyg	Distance from Gothenburg [km] 2 3 4 4	Sections [km] 0 (0 5 2 9 1 1 2 9 8	[m] 5 0 2 1 1 2 3	0 + 5000 + 1 0000 1 0000 - 20000 - 50000 + 1	Speed) [m 220 + 267 267 267 267 - 265 - 200 + 220 - 200 - 200 - 200 - 201 - 205 - 200 - 205 - 20 - 205 - 205 - 20 205 - 20 -	Dist 0,000 61,111 74,167 74,167 74,167 73,611 73,611 55,556 61,111	ween [m] Be 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 13931,584 68,416 56,520 0,000 1943,480 8000,000 1140,047 319,830 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 1,943 8,000 1,943 8,000 1,140 0,320 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 38,932 39,000 39,057 39,057 39,057 41,000 49,000 50,140 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,900 2,333 0,900 2,333 0,900 2,333 0,900 2,333 0,900 2,333 0,900 2,333 0,900 7,047 0,000 7,047 0,000 7,047 0,000 10,272 0,016 10,288 0,000 10,288 0,000 10,288 0,517 10,804 0,472 13,276 0,335 13,611 0,000 13,701
acceleration Borâs Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 25 25 25 41 49 51	[m] 0 5 20 0 16 8	[<i>km/h</i>] 0 + 5000 + 20000 1 16000 * * 20000 - 7500	Speed [n 220 + 267 267 267 267 - 0 + 200 + 2200 	Dis 0,000 61,111 74,167 74,167 74,167 74,167 0,000 55,556 61,111	tween [m] B 0,000 4.818,364 1.818,1636 3.905,881 1.6094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 1.4116,088 4.583,912 0,000 8.4583,912 1.416,082 1.414,082 1.414,082 1.414,082 1.414,082 1.414,082 1.414,082 1.414,082 1.414,082 1.414,082 1.414,082 0,000000	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 0,000 0,000 11,416 4,584 4,322 1,140 0,320 0,000 0,000 0,000 0,540 7,500	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 44,678 49,000 44,678 49,000 50,460 50,460 50,460 50,460 50,460 50,460	Between To 0,000 2,333 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335 0,030 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,318	ottol 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 11,811 15,309 11,6645 16,645 16,645 16,645 17,070 17,070 17,070 19,546	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 2 3 4 4	Sections [km] 0 (5 2 9 1 1 2 9 8 1 2	[m] 5) 2 4 1 2 3	0 + + + + + + + + + + + + + + + + + + +	Speed) [m 220 + 267 267 267 267 - 265 - 200 + 220 - 200 - 200 - 200 - 201 - 205 - 200 - 205 - 20 - 205 - 205 - 20 205 - 20 -	Dist 0,000 61,111 74,167 74,167 74,167 73,611 73,611 55,556 61,111	ween [m] Be 0,000 4318,354 1818,354 3305,891 16094,109 0,000 0,000 0,000 0,000 13931,584 68,416 55,520 0,000 0,000 13931,584 800,000 144,480 0,000 0,000 0,000 144,830 0,000 0,000 144,945 140,047 319,830 0,000 0,000 0,000 140,047 319,830 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 0,000 1,943 8,000 1,140 0,320 0,000 0,000 0,000 0,540 7,500	0,000 4,818 5,000 25,000 25,000 25,000 25,000 38,932 39,057 39,057 39,057 39,057 41,000 49,000 50,140 50,140 50,460 50,460 50,460 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,700 2,333 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,335 13,611 0,090 13,701 0,000 13,701 0,000 13,701 0,000 13,701
acceleration Borâs Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 25 25 25 41 49 51	[<i>m</i>] 0 5 20 0 16 8 2	[<i>km/h</i>] + 5000 + 20000 0 1 16000 + 2000 - + 2000 - - - - - - - - - - - - -	Speed [n 0 + 267 267 1 267 267 267 267 200 + 220 200 220 220 200 +	Dis Bet 0,000 61,111 74,167 74,167 74,167 74,167 74,167 0,000 55,556 61,111 61,111 55,556	tween [m] B 0,000 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4321,682 11446,047 319,830 319,830 0,000 540,123 7500,000 542,263 750,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000 0,000 0,540 7,560 0,629	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 44,678 49,000 50,460 50,460 50,460 51,000 58,520	Between To 0,000 2,333 0,000 2,333 0,000 9,893 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 1,500 1,998 1,335 0,335 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,0159 2,318 0,247	otai 0,000 2,333 2,333 3,322 7,047 1,047 1,070 1,0700 1,0700 1,0700 1,0793 19,793 19,793 19,793 19,793 1,047 1,047 1,047 1,047 1,047 1,070 1,0700 1,073 1,075 1	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 2 3 4 4 5	Sections [km] 0 (5 2 9 14 1 2 9 8 1 2	[m] 5) 2 4 1 2 3	0 + + + + + + + + + + + + + + + + + + +	Speed Speed 200 207 267 267 267 265 200 200 200 + 200 + 200 + 200 - - - - - - - - - - - - -	Dist Bet (),000 61,111 74,167 74,167 74,167 73,611 73,611 55,556 61,111 61,111 55,556	ween [m] Be 0,000 4818,354 1818,356 3905,891 16094,109 0,000 0,000 0,000 13331,584 68,416 55,520 0,000 0,000 13931,584 0,000 0,000 13931,584 0,000 0,000 0,000 0,000 1140,407 1319,830 0,000 0,000 540,123 7500,000 540,123 7500,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 1,943 8,000 1,144 0,320 0,000 0,000 0,540 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 38,932 39,000 39,057 39,057 39,057 41,000 50,460 50,460 50,460 50,460 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,980 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,261 0,090 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,159 13,860 2,318 16,178 0,247 16,424
acceleration Borâs Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 25 25 25 41 49 51	[<i>m</i>] 0 5 20 0 16 8 2	[<i>km/h</i>] 0 + 5000 + 20000 1 16000 * * 20000 - 7500	Speed [n 0 + 220 + 267 267 267 267 267 20 + 220 + 220 220 - 220	Dis m/s) Bet 0,000 61,111 74,167 74,167 74,167 74,167 74,167 0,000 55,556 61,111 61,111	tween [m] B 0,000 4818,364 1818,364 3905,891 16094,109 0,000000	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,500 0,829 0,110	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 50,460 50,460 50,460 50,460 50,460 51,000 58,500 58,500	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335 0,335 0,090 0,000 0,000 0,000 2,318 0,000	ntal 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 1,811 13,311 15,309 16,645 16,645 16,645 17,070 17,047 15,845 15,855 15,8	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 2 3 4 4 5	Sections [km] 0 (5 2 9 14 1 2 9 8 1 2	[m] 5) 2 4 1 2 3	0 + + + + + + + + + + + + + + + + + + +	Speed) [m 220 + 267 267 267 265 200 + 200 200 - 200 - 200 - 200 - 200 - 200 - 207 - - 207 - - 207 - - - - - - - - - - - - -	 Dist <li< td=""><td>ween [m] Be 0,000 4818,364 1816,364 3905,891 16094,109 0,000 0,000 0,000 13931,584 68,416 55,520 0,000 0,000 1149,480 8000,000 1149,480 8000,000 1140,047 319,830 0,000 0,000 1140,047 319,520 1140,047 319,520 1140,047 319,520 1140,047 319,520 1140,047 319,520 1140,047 319,520 1140,047 1140,047 1140,047 1140,047 1140,047 1140,047 1140,047 1140,047 1150,000 0</td><td>0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 0,068 0,057 0,000 1,943 8,000 1,140 0,320 0,000 0,540 7,500 0,829 0,110</td><td>0,000 4,818 5,000 25,000 25,000 25,000 39,057 39,057 39,057 39,057 39,057 39,057 41,000 49,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,229</td><td>tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,700 2,333 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,325 13,611 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,002 13,701 0,003 13,701 0,0247 16,424 0</td></li<>	ween [m] Be 0,000 4818,364 1816,364 3905,891 16094,109 0,000 0,000 0,000 13931,584 68,416 55,520 0,000 0,000 1149,480 8000,000 1149,480 8000,000 1140,047 319,830 0,000 0,000 1140,047 319,520 1140,047 319,520 1140,047 319,520 1140,047 319,520 1140,047 319,520 1140,047 319,520 1140,047 1140,047 1140,047 1140,047 1140,047 1140,047 1140,047 1140,047 1150,000 0	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 0,068 0,057 0,000 1,943 8,000 1,140 0,320 0,000 0,540 7,500 0,829 0,110	0,000 4,818 5,000 25,000 25,000 25,000 39,057 39,057 39,057 39,057 39,057 39,057 41,000 49,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,229	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,700 2,333 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,325 13,611 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,002 13,701 0,003 13,701 0,0247 16,424 0
acceleration Borâs Bollebyg Landvetter	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 51 58,5	[m] 0 5 20 0 16 8 2 7,5	[<i>km/h</i>] 0 + 5000 + 20000 1 16000 * * 20000 - 7500	Speed [n 0 + 220 + 267 267 267 267 267 200 + 200 200 200 + 215 200	Dis Bet 0,000 61,111 74,167 74,167 74,167 74,167 74,167 0,000 55,556 61,111 61,111 55,556	tween [m] B 0,000 0,000 4818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4321,682 11446,047 319,830 319,830 0,000 540,123 7500,000 542,263 750,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000 0,000 0,540 7,560 0,629	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 44,678 49,000 50,460 50,460 50,460 51,000 58,520	Between To 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335 0,335 0,090 0,000 0,000 0,000 2,318 0,000	ntai 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 13,311 13,311 15,309 16,648 16,680 17,070 17,070 17,070 17,070 19,546 19,543 19,544	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km] 2 3 4 4 5	Sections [km] 0 (5 <u>5</u> 9 14 1 <u>5</u> 5 7,5	[m] 5 0 2 4 1 2 3 3	0 + + + + + + + + + + + + + + + + + + +	Speed Speed 200 207 267 267 267 265 200 200 200 + 200 + 200 + 200 - - - - - - - - - - - - -	Dist () 0,000 61,111 74,167 74,167 74,167 74,167 73,611 73,611 55,556 61,111 61,111 55,556 59,722	ween [m] Be 0,000 4818,354 1818,356 3905,891 16094,109 0,000 0,000 0,000 13331,584 68,416 55,520 0,000 0,000 13931,584 0,000 0,000 13931,584 0,000 0,000 0,000 0,000 1140,407 1319,830 0,000 0,000 540,123 7500,000 540,123 7500,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 1,943 8,000 1,144 0,320 0,000 0,000 0,540 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 38,932 39,000 39,057 39,057 39,057 41,000 50,460 50,460 50,460 50,460 50,460	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,980 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,261 0,090 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,159 13,860 2,318 16,178 0,247 16,424
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 51 58,5	[<i>m</i>] 0 5 20 0 16 8 2	[<i>km/h</i>] 0 + 5000 + 20000 0 1 16000 + 8000 + 20000 - 7500 + 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed [n] 220 + 267 267 267 267 267 200 + 220 200 200 200 200 200	Dis Bet 0,000 61,111 74,167 74,167 74,167 74,167 74,167 74,167 74,167 61,111 61,111 55,556 61,111 61,111 55,556 59,722 59,722	tween [m] B 0,000 4.818,364 1818,1636 3905,881 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4221,682 1140,047 319,830 0,000 540,020 540,262 0,000 829,262 0,000000	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 0,000 11,416 4,584 4,322 1,140 0,320 0,000 0,540 7,500 0,540 7,500 0,829 0,110 0,000 0,000 0,2561	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 44,078 49,000 50,440 50,40	Between 70 0,000 2,333 0,000 9,989 3,725 0,0000 0,000000	nta 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 11,811 13,311 13,311 15,309 16,648 17,070 17,070 17,070 17,070 19,546 19,548	acceleration Borås Bollebyg Landvetter	Distance from Gothenburg [km] 2 3 4 4 4 5 5 8,	Sections [km] 0 (5 <u>5</u> 9 14 1 <u>5</u> 5 7,5	[m] 5 0 2 4 1 2 3 3	0 + 5000 + 1 0000 1 0000 - 2000 - 2000 - 1 - 2000 - + 1 0 - 2000 - + 1 0 - 2000 - +	Speed (mm) 	Dist (%) 0,000 61,111 74,167 74,167 74,167 73,611 73,611 55,556 61,111 61,111 55,556 59,722 59,722	ween [m] Be 0,000 4818,364 1818,363 3905,891 16094,109 0,000 0,00	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 0,000 1,943 8,000 1,140 0,320 0,000 0,540 7,500 0,829 0,110 0,000 0,000 0,2561	0,000 4,818 5,000 25,000 25,000 25,000 25,000 38,932 39,007 39,057 39,057 39,057 39,057 39,057 41,000 49,000 50,140 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 59,439 59,439 59,439	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,700 2,333 3,725 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,001 13,701 0,002 16,478 0,002 16,456 0,000 16,456 0,000 16,456 0,000 16,456 0,000 16,456
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 51 58,5	[m] 0 5 20 0 16 8 2 7,5	[<i>km/h</i>] 0 + 5000 + 20000 0 1 16000 + 8000 + 20000 - 7500 + 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed [n 0 + 220 + 267 267 267 267 267 200 + 200 200 200 + 215 200	Dis Bet 0,000 61,111 74,167 74,167 74,167 74,167 74,167 0,000 55,556 61,111 61,111 55,556 59,722	tween [m] B 0,000 4818,364 1818,363 3905,891 16094,109 0,000 0,000 0,000 0,000 11416,088 4321,682 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 0,000 540,213 319,830 319,550 319,5500 319,5500,	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 11,416 4,584 4,322 1,140 0,320 0,000 0,000 0,540 7,500 0,640 7,500 0,000 0,540 7,500	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 41,000 41,000 41,000 41,000 41,000 50,460 50,40	Between 70 0,000 2,333 0,000 0,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335 0,335 0,335 0,000000	ntal 0,000 2,333 2,333 3,322 7,047 10,309 16,645 19,793 19,793 19,824 19,824 20,825 20,555	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km] 2 3 4 4 4 5 5 8,	Sections [km] 0 (5 <u>5</u> 9 14 1 <u>5</u> 5 7,5	[m] 5 0 2 4 1 2 3 3	0 + 5000 + 1 0000 1 0000 - 2000 - 2000 - 1 - 2000 - + 1 0 - 2000 - + 1 0 - 2000 - +	Speed Speed () (m 220 267 267 265 265 200 4 220 220 1 220 200 4 220 1 220 1 220 1 220 1 220 1 220 1 220 1 220 1 220 1 220 1 220 220	Dist () 0,000 61,111 74,167 74,167 74,167 74,167 73,611 73,611 55,556 61,111 61,111 55,556 59,722	ween [m] Be 0,000 4818,364 1818,363 3905,891 16094,109 0,000 0,000 0,000 13331,584 68,416 55,520 0,000 0,000 1343,480 0,000 0,000 1140,407 1343,480 8000,000 540,123 7500,000 540,123 7500,000 2560,764 1500,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 1,943 8,000 1,140 0,320 0,000 0,540 7,500 7,500 0,540 7,500 0,000 0,000 0,000 0,000 0,000 0,540 1,540 1,540 1,550	0,000 4,818 5,000 25,000 25,000 25,000 39,007 39,007 39,057 39,057 41,000 50,460 50,460 50,460 50,460 50,460 50,460 51,000 51,000 51,000 59,329 59,439 59,439 59,439	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,900 2,333 0,980 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,001 13,701 0,002 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 16,456 0,000 16,456 0,000 16,456
acceleration Borâs Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km]	Sections [km] 0 25 25 41 49 51 51 538,5 62	[m] 0 5 20 0 16 8 2 7,5 3,5	[<i>km/h</i>] + 5000 + 20000 0 1 16000 + 2000 - 1 5000 + 2000 - 1 - 1 - - - - - - - - - - - - -	Speed [n] 0 + 267 1 267 - 267 - 267 - 267 - 267 - 200 + 200 - - - - - - - - - - - - -	Dis Bet 9,000 61,111 74,167 74,167 74,167 74,167 74,167 0,000 55,556 61,111 61,111 55,556 59,722 22,222	tween [m] B 0,000 4818,364 3905,881 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 3678,318 4231,682 1140,047 3139,830 0,000 0,000 0,000 540,123 7500,000 0,000 2540,754 1199,975 0,000 2560,764 1500,000 0,0000	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,500 0,829 0,110 0,000 0,000 0,000 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 44,678 49,000 50,460 50,460 50,460 50,460 50,460 50,460 51,000 58,500 58,500 59,339 59,439 59,439 59,439 59,439	Between 7 0,000 2,333 0,000 0,989 3,725 0,0000 0,000000	nta 2,333 2,333 3,322 7,047 1,058 1,5309 16,689 11,5309 16,548 11,070 17,070 19,546 19,820 22,0556 19,820 22,0556 10,050 10,070 10,070 10,070 10,820 22,0556 10,820 10,80	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] 2 3 4 4 4 5 5 8, 5 8, 6	Sections [km] 0 (5 2 9 14 1 2 5 7,4 2 3,5	[m] 5 2 3 4 1 2 3 3 5 5	0 + 5000 + 1 1 10000 - 2000 - 2000 - 7500 + 1 3500 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Speed Speed (m 1) (m 220 + 227 265 265 265 200 + 220 220 220 220 220 220	Dist />5] Bet 0,000 61,111 74,167 74,167 74,167 73,611 73,611 55,556 61,111 61,111 55,556 59,722 59,722 22,222	ween [m] Be 0,000 4818,354 1816,356 3305,891 16094,109 0,000 0,000 0,000 1933,584 68,416 55,520 0,000 1943,480 8800,000 1943,480 8800,000 1943,481 140,047 319,830 0,000 0,000 540,123 7500,000 829,262 109,975 0,000 2560,764 1500,000 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 1,943 8,000 1,943 8,000 1,943 8,000 0,540 0,320 0,000 0,540 7,500 0,829 0,110 0,000 0,000 2,561 1,501	0,000 4,818 5,000 25,000 25,000 25,000 39,005 39,057 39,057 39,057 39,057 41,000 49,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,400 50,420 50,500 50,420 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,500000000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,024 16,456 0,000 16,456 0,000 16,456 0,000 16,456 0,000 16,456
acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km]	Sections [km] 0 25 25 41 49 51 51 538,5 62	[m] 0 5 20 0 16 8 2 7,5	[<i>km/h</i>] 0 + 5000 + 20000 0 1 16000 + 8000 + 20000 - 7500 + 1 1 1 1 1 1 1 1 1 1 1 1 1	Speed [n] 220 + 267 267 267 267 267 200 + 220 200 200 200 200 200	Dis Bet 0,000 61,111 74,167 74,167 74,167 74,167 74,167 74,167 74,167 61,111 61,111 55,556 61,111 61,111 55,556 59,722 59,722	tween [m] B 0,000 4.818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4.921,682 1140,047 319,830 0,000 0,000 0,000 540,23 750,000 0,000000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,560 0,829 0,110 0,000 0,000 2,561 1,500 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 41,000 41,000 41,000 44,678 49,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 51,000 58,500 59,329 59,439 59,439 59,439 59,439 59,439 59,439	Between 70 0,000 2,333 0,000 9,893 3,725 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,988 1,335 0,090 0,000 0,000 0,000 2,642 2,122 1,500 1,988 1,335 0,090 0,000000	ntai 0,000 2,333 2,333 3,322 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 7,047 13,311 13,311 15,309 16,645 16,680 17,070 17,070 17,070 17,070 19,546 19,548 19,548 19,548 19,548 19,548 22,056 22,055	acceleration Borås Bollebyg Landvetter Mölnlycke	Distance from Gothenburg [km] 2 3 4 4 4 5 5 8,	Sections [km] 0 (5 <u></u> 5 2(9 14 1 <u></u> 5 7,5 2 3,5	[m] 5 2 3 4 1 2 3 3 5 5	0 + 5000 + 1 0000 1 0000 - 2000 - 2000 - 1 - 2000 - + 1 0 - 2000 - + 1 0 - 2000 - +	Speed (mm) 	Dist (%) 0,000 61,111 74,167 74,167 74,167 73,611 73,611 55,556 61,111 61,111 55,556 59,722 59,722	ween [m] Be 0,000 4813,364 1813,364 3905,891 16094,109 0,000 0,000 0,000 13331,584 68,416 55,520 0,000 0,000 13331,584 0,000 0,000 1140,047 319,830 0,000 540,123 7500,000 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 1,932 0,068 0,057 0,000 1,943 8,000 1,140 0,320 0,000 0,540 0,540 7,500 0,540 7,500 0,540 0,540 0,540 0,000 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 39,007 39,057 39,057 39,057 41,000 50,460 50,450 50,430 50,450 50,5000 50,5000 50,5000 50,5000 50,5000 50,500000000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 16,456 0,000 16,456 0,000 16,456 0,000 16,456 0,000 18,688
acceleration Borâs Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km]	Sections [km] 0 25 25 41 49 51 51 538,5 62	[m] 0 5 20 0 16 8 2 7,5 3,5	[<i>km/h</i>] + 5000 + 20000 0 1 16000 + 2000 - 1 5000 + 2000 - 1 - 1 - - - - - - - - - - - - -	Speed [n] 0 + 267 1 267 - 267 - 267 - 267 - 267 - 200 + 200 - - - - - - - - - - - - -	Dis Bet 9,000 61,111 74,167 74,167 74,167 74,167 74,167 0,000 55,556 61,111 61,111 55,556 59,722 22,222	tween [m] B 0,000 4818,364 3905,881 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 3678,318 4231,682 1140,047 3139,830 0,000 0,000 0,000 540,123 7500,000 0,000 2540,754 1199,975 0,000 2560,764 1500,000 0,0000	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,500 0,829 0,110 0,000 0,000 0,000 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 44,678 49,000 50,460 50,460 50,460 50,460 50,460 50,460 51,000 58,500 58,500 59,339 59,439 59,439 59,439 59,439	Between 7 0,000 2,333 0,000 0,989 3,725 0,0000 0,000000	ntal 0,000 2,333 2,333 3,22 7,047 1,9,08 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,79 1,9,824 1,9,824 1,9,824 1,9,824 2,056 22,056 22,056	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] 2 3 4 4 4 5 5 8, 5 8, 6	Sections [km] 0 (5 2 9 14 1 2 5 7,4 2 3,5	[m] 5 2 3 4 1 2 3 3 5 5	0 + 5000 + 1 1 10000 - 2000 - 2000 - 7500 + 1 3500 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Speed Speed (m 1) (m 220 + 227 265 265 265 200 + 220 220 220 220 220 220	Dist />5] Bet 0,000 61,111 74,167 74,167 74,167 73,611 73,611 55,556 61,111 61,111 55,556 59,722 59,722 22,222	ween [m] Be 0,000 4818,354 1816,356 3305,891 16094,109 0,000 0,000 0,000 1933,584 68,416 55,520 0,000 1943,480 8800,000 1943,480 8800,000 1943,481 140,047 319,830 0,000 0,000 540,123 7500,000 829,262 109,975 0,000 2560,764 1500,000 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 1,943 8,000 1,943 8,000 1,943 8,000 0,540 0,320 0,000 0,540 7,500 0,829 0,110 0,000 0,000 2,561 1,501	0,000 4,818 5,000 25,000 25,000 25,000 39,005 39,057 39,057 39,057 39,057 41,000 49,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,400 50,420 50,500 50,420 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,500000000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,024 16,456 0,000 16,456 0,000 16,456 0,000 16,456 0,000 16,456
acceleration Borâs Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 53 53 62 62 33,5	[m] 0 5 20 0 16 8 2 7,5 3,5 1,5	[<i>km/h</i>] 0 + 5000 + 20000 0 1 1 1 0 - 1 20000 - - - - - - - - - - - - -	Speed [n] 200 + 267 267 267 267 267 267 200 + 220 200 200 215 215 205 80 80 80 1	Dis Bet 9,000 61,111 74,167 74,167 74,167 74,167 74,167 74,167 61,111 61,111 55,556 59,722 59,722 22,222 22,222 22,222	tween [m] B 0,000 4818,364 1818,364 1818,364 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 4583,912 4583,912 1140,047 1319,830 0,000 540,123 139,830 0,000 540,123 139,850 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,818 0,182 3,906 0,000 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000 0,540 7,500 0,000 0,540 7,500 0,000 0,541 1,500 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 41,000 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 50,460 51,000 58,500 59,329 59,439 59,439 59,439 59,439 59,439 59,439 59,439 50,430 50,440 50,430 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,50	Between 7 0,000 2,333 0,000 9,989 3,725 0,000000	ntal 0,000 2,333 2,333 3,22 7,047 1,9,08 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,09 1,9,79 1,9,824 1,9,824 1,9,824 1,9,824 2,056 22,056 22,056	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] 2 3 4 4 4 5 5 8, 5 8, 6	Sections [km] 0 (5 2 9 14 1 2 5 7,4 2 3,5	[m] 5 2 3 4 1 2 3 3 5 5	0 + 5000 + + 10000 - 2000 - 2000 - - 7500 + + 3500 - +	Speed (mm)	Dist (%) Bet 0,000 61,111 74,167 74,167 73,611 73,611 73,611 55,556 61,111 61,111 55,556 59,722 22,222 22,222 22,222	ween [m] Be 0,000 4818,364 1816,364 3905,891 16094,109 0,000 0,000 0,000 13331,584 68,416 55,520 0,000 0,000 1343,488 8000,000 1343,488 0,000 0,000 1343,480 0,000 0,000 540,123 7500,000 540,123 7500,000 0,0000 0,0	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,068 0,067 0,000 1,943 8,000 1,943 8,000 1,943 8,000 0,000 0,540 0,320 0,000 0,540 0,000 0,540 0,550 0,000 0,000 0,000 0,540 0,550 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 39,057 39,057 39,057 39,057 41,000 49,000 50,460 50,450 50,5000 50,5000 50,5000 50,5000 50,5000 50,5000 50,500000000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,900 2,333 0,989 3,322 3,725 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 7,047 0,000 1,028 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 13,701 0,000 16,456 0,000 16,456 0,000 16,456 0,000 16,456 0,000 18,688 0,0000 18,688
acceleration Borâs Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km]	Sections [km] 0 5 25 25 41 49 51 53 53 62 62 33,5	[m] 0 5 20 0 16 8 2 7,5 3,5	[<i>km/h</i>] + 5000 + 20000 0 1 16000 + 2000 - 1 5000 + 2000 - 1 - 1 - - - - - - - - - - - - -	Speed [n] 200 + 267 267 267 267 267 267 200 + 220 200 200 215 215 205 80 80 80 1	Dis Bet 9,000 61,111 74,167 74,167 74,167 74,167 0,000 55,556 61,111 61,111 55,556 59,722 22,222 22,222	tween [m] B 0,000 4.818,364 181,636 3905,891 16094,109 0,000 0,000 0,000 0,000 0,000 0,000 0,000 11416,088 483,912 483,912 0,000 0,000 11416,088 4321,682 1140,047 319,830 0,000 540,020 540,020 7500,000 2560,764 11500,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 0,000 11,416 4,584 0,000 3,678 4,322 1,140 0,320 0,000 0,540 0,320 0,000 0,540 0,000 0,540 0,540 0,540 0,540 0,540 0,540 0,540 0,000 0,540 0,540 0,000 0,540 0,540 0,000 0,540 0,000 0,540 0,000 0,540 0,000 0,540 0,000 0,540 0,000 0,000 0,540 0,000 0,000 0,000 0,540 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 36,416 41,000 41,000 41,000 50,460 50,50,60 50,50 60,50 50,50 60,50 50,50 60,50 50,50,	Between 70 0,000 2,333 0,000 9,989 3,725 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 2,642 2,122 1,500 1,998 1,335 0,390 0,000000	ntal 0,000 2,333 2,333 3,322 7,047 10,320 11,811 11,811 11,812 11,930 11,070 17,070 17,070 17,070 17,070 17,070 17,070 17,070 17,070 17,070 17,070 17,070 19,793 19,824 19,824 22,056 22,056 22,056 22,056 23,215 15,215	acceleration Borås Bollebyg Landvetter Mölnlycke Korsvägen	Distance from Gothenburg [km] 2 3 4 4 4 5 5 8, 5 8, 6	Sections [km] 0 0 5 2 2 9 1 2 1 2 3,4 2 3,5 1,4	[m] 5 0 2 1 1 2 3 3 5 5 5	0 + 5000 + + 10000 - 2000 - 2000 - - 7500 + + 3500 - +	Speed (mm)	Dist (%) Bet 0,000 61,111 74,167 74,167 73,611 73,611 73,611 55,556 61,111 55,556 61,111 55,556 59,722 59,722 22,222	ween [m] Be 0,000 4818,364 1818,364 1818,363 3905,891 16094,109 0,000 0,000 0,000 13331,584 68,416 56,520 0,000 0,000 144,040 800,000 1440,047 319,830 0,000 829,262 109,975 0,000 829,262 109,975 0,000 0,000 2560,764 1500,000 0,000	0,000 4,818 0,182 3,906 16,094 0,000 0,000 13,932 0,068 0,057 0,000 1,943 8,000 1,140 0,320 0,000 0,540 0,000 0,540 0,540 0,540 0,000000	0,000 4,818 5,000 25,000 25,000 25,000 25,000 39,007 39,057 39,057 39,057 39,057 39,057 41,000 50,460 50,450 50,5000 50,5000 50,5000 50,5000 50,500000000	tween Total 0,000 0,000 2,333 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,000 2,333 0,725 7,047 0,000 7,047 0,000 7,047 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 10,288 0,000 13,201 0,335 13,611 0,000 13,701 0,000 13,701 0,000 13,701 0,000 16,456 0,000 16,456 0,000 16,456 0,000 16,456 0,000 18,688 0,000 18,688 0,000 18,688 0,000 18,688 0,000 18,688 0

K2020 - Local

Power Point presentation sent to Ylva Höglund from Jan Efraimsson [Jan.Efraimsson@vasttrafik.se] 16 February 2011

Title: Dubbelt upp! Lokala 2020 Author: Lillemor Bulukin Created: 2010-12-10



Appendix 4 - Graphic timetables

Graphic timetables:

1.	US1
2.	US2
3.	US3
4.	US4
5.	VT1 (US1-2)
6.	VT1 (US3)
7.	VT1 (US4)
8.	VT2 (US1-2)
9.	VT2 (US3)
10.	VT2 (US4)

Colour Key	
Orange:	High speed train without stop in Borås
Green:	High speed train with stop in Borås
Red:	Large regional train
Purple:	Coast-to-coast train
Blue:	Commuter train

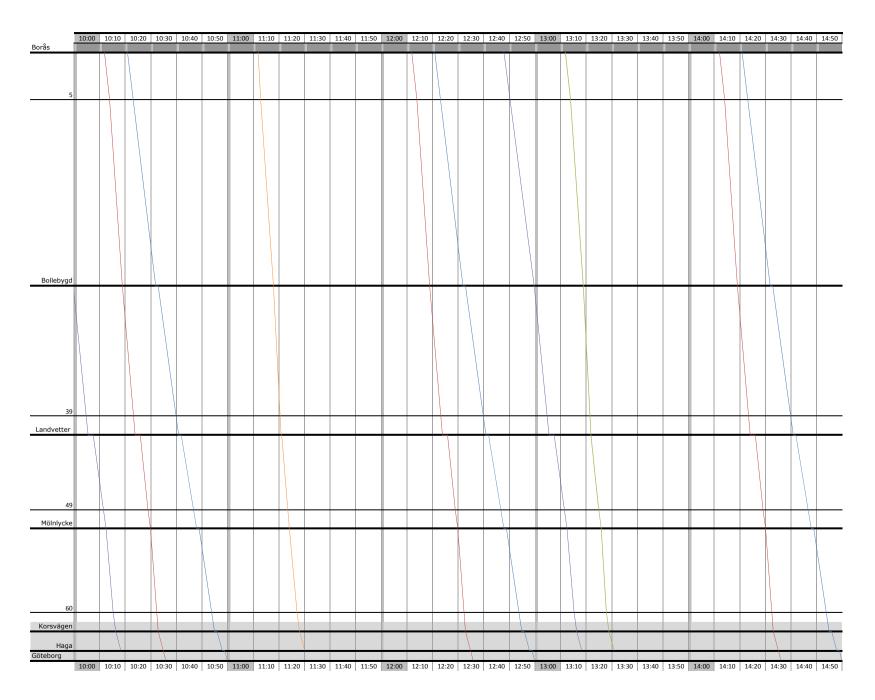
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Korsvägen				$\left \right $			$\left(\right)$	$\left(\right) \right)$	$\left[\right]$										
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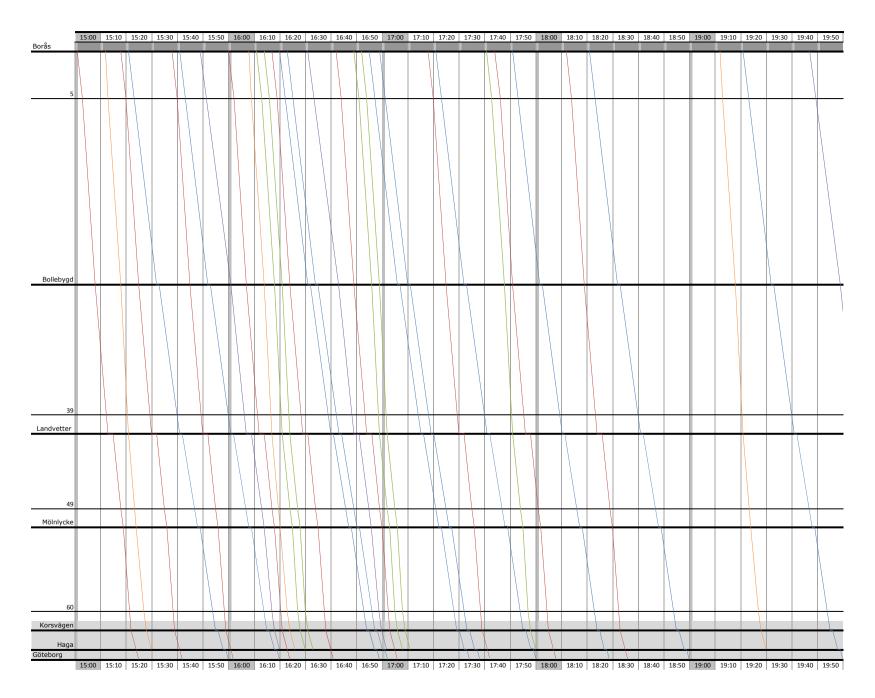
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Göteborg Haga		15:10	15:20	15:30	15:40	15:50	16:00	16:	10 16:2	0 16	:30	16:40	16:	50 :	17:00	17:1	0 17	:20	17:30	17:4	10 1	7:50	18:00	18:10	18:20	18:30	18:40	18:50	19:00	19:10	19:20	19:30	19:40	19:50
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Göteborg		20:10	20:20	20:30	20:40	20:50	21:00	21:10	21:20	21:30	21:40	21:50	22:00	22:10	22:20	22:30	22:40	22:50	23:00	23:10	23:20	23:30	23:40	23:50	00:00	00:10	00:20	00:30	00:40	00:50
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Borås	05:00	05:10	05:20	05:30	05:40	05:50	06:00	06:10	06:20	06:30	06:40	06:50	07:00	07:10	07:20	07:30	07:40	07:50	08:00	08:10	08:20	08:30	08:40	08:50	09:00	09:10	09:20	09:30	09:40	09:50
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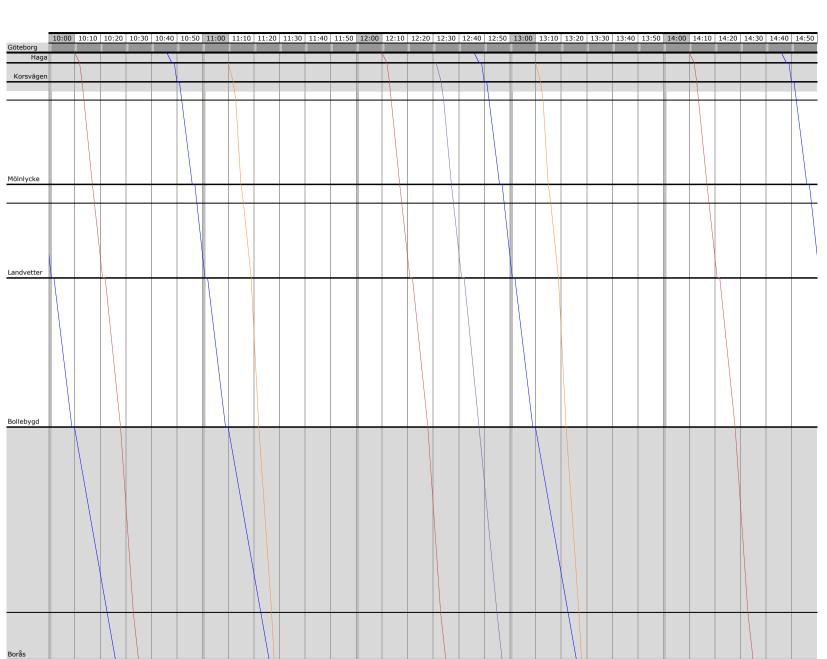
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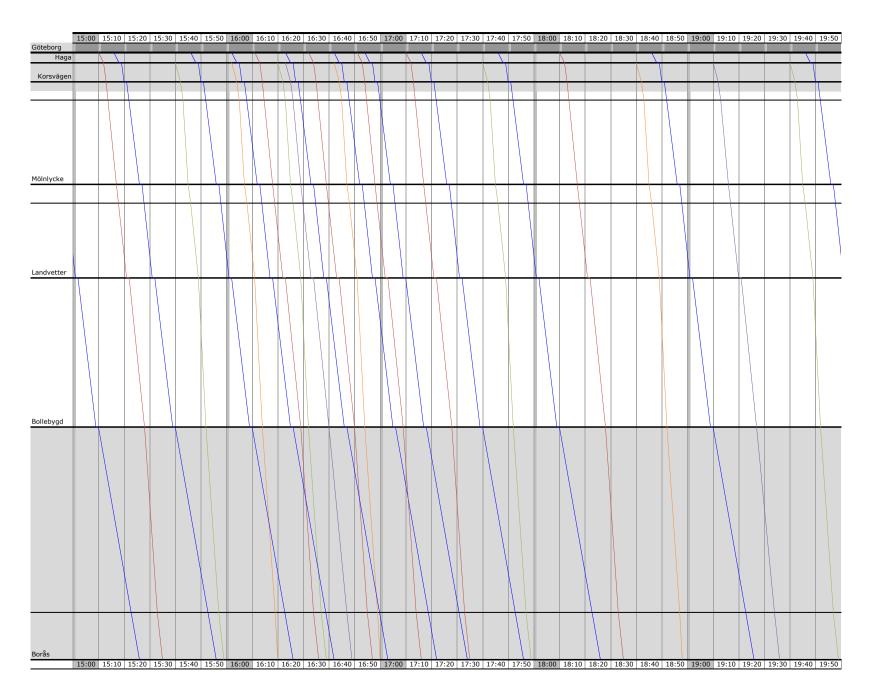
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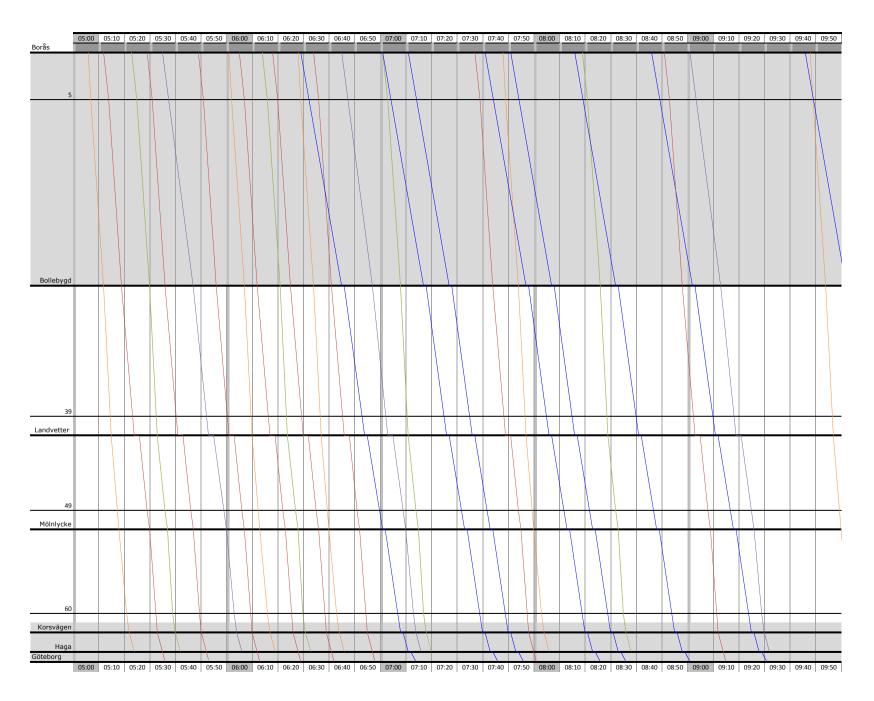


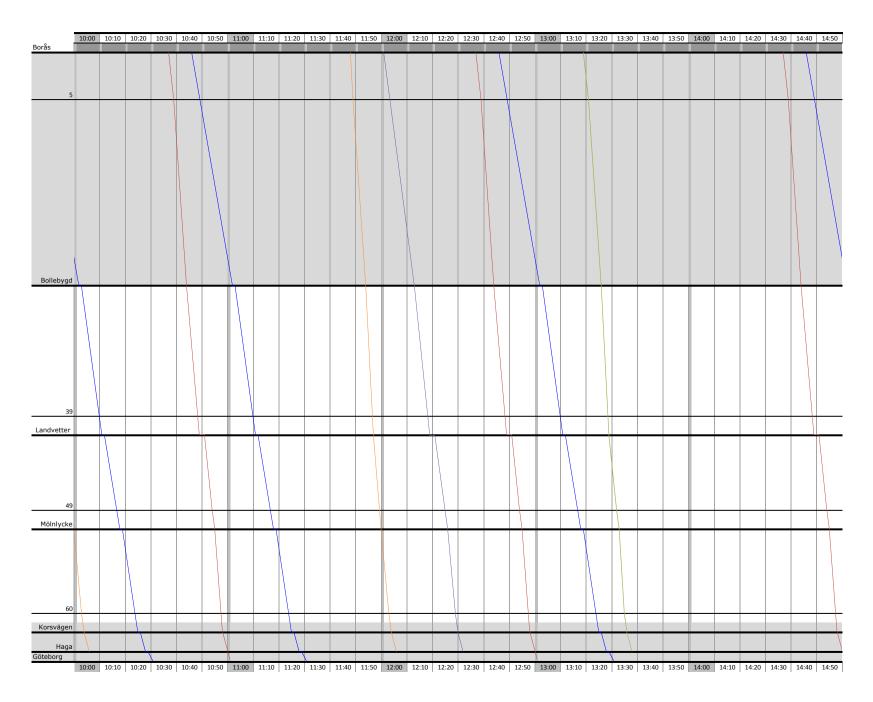
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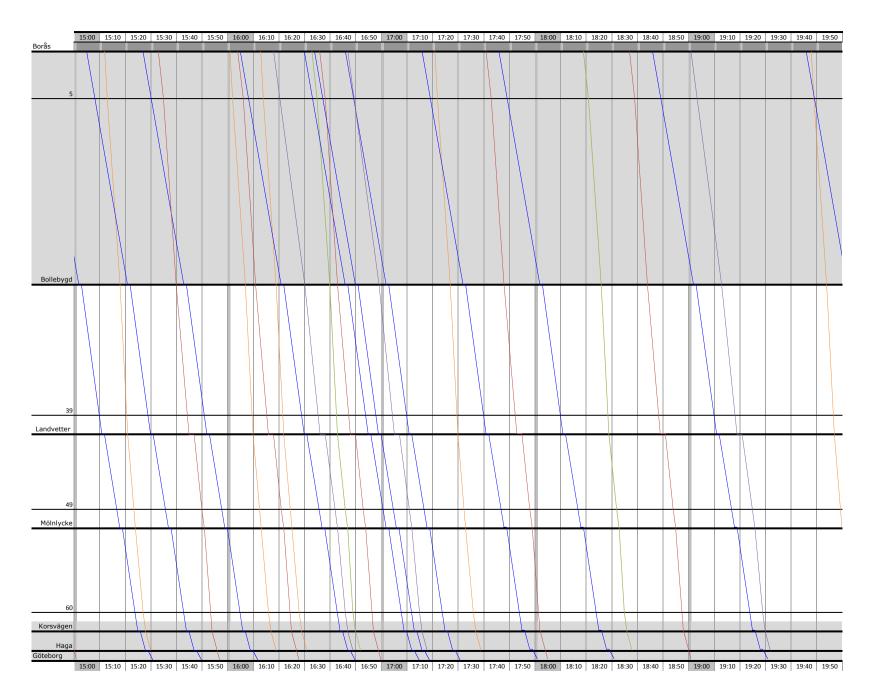


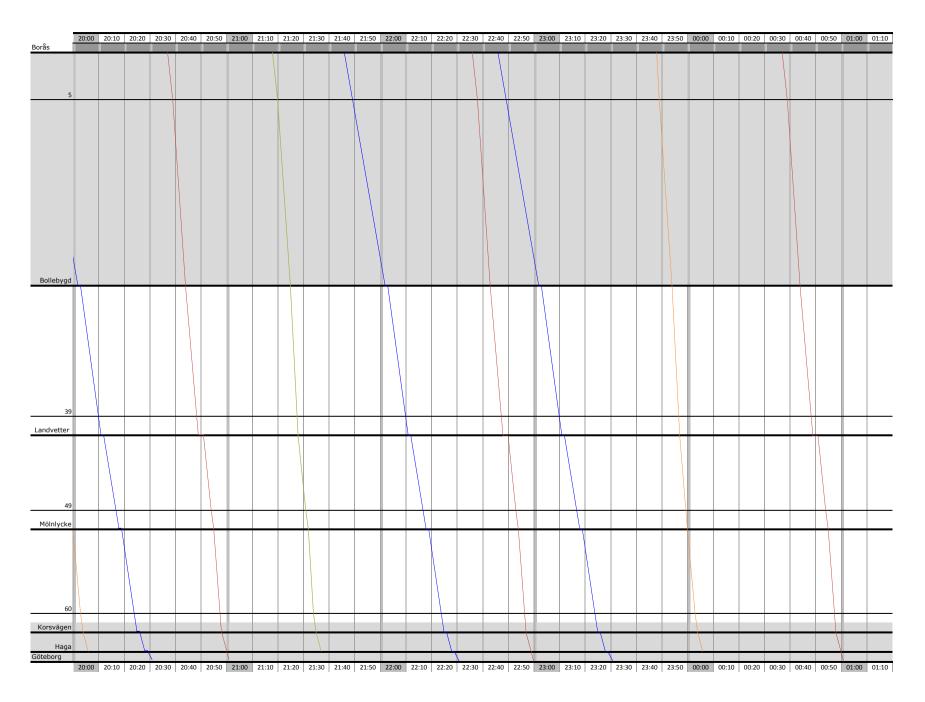
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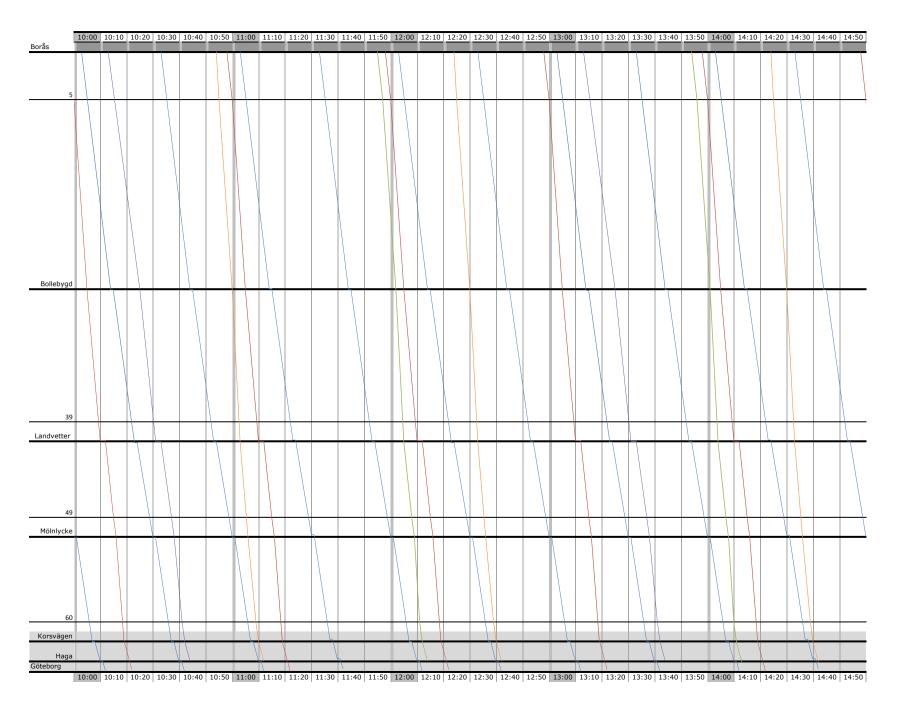
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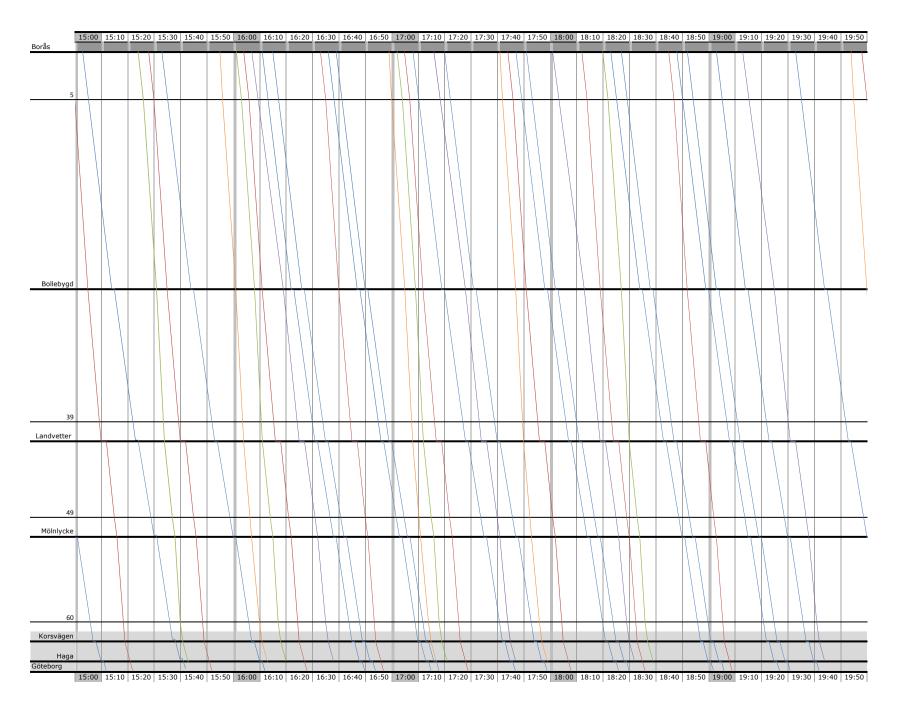
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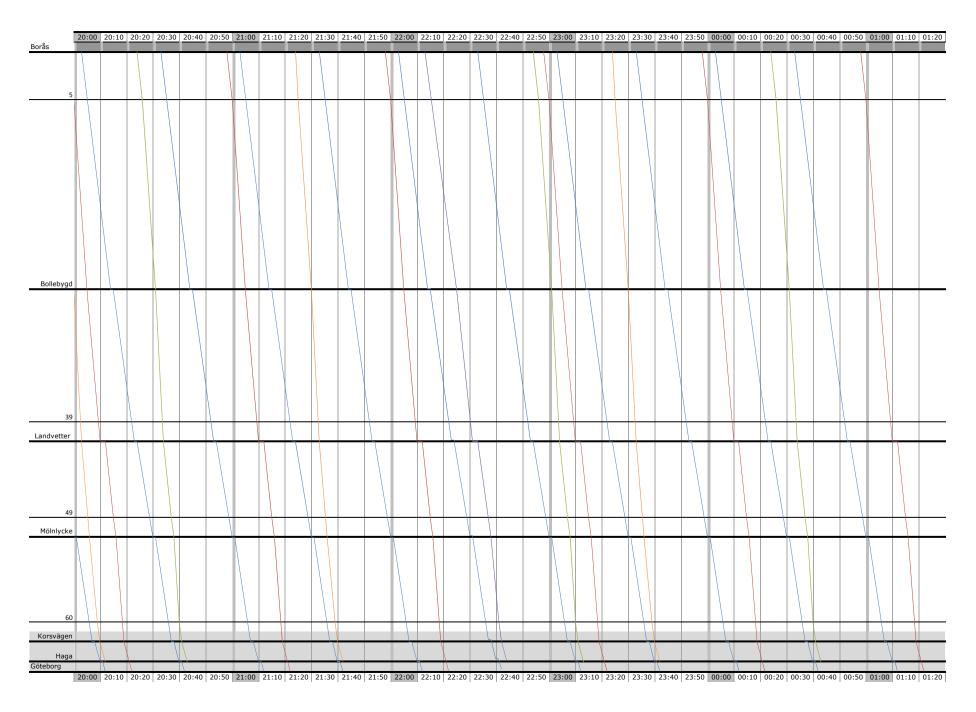
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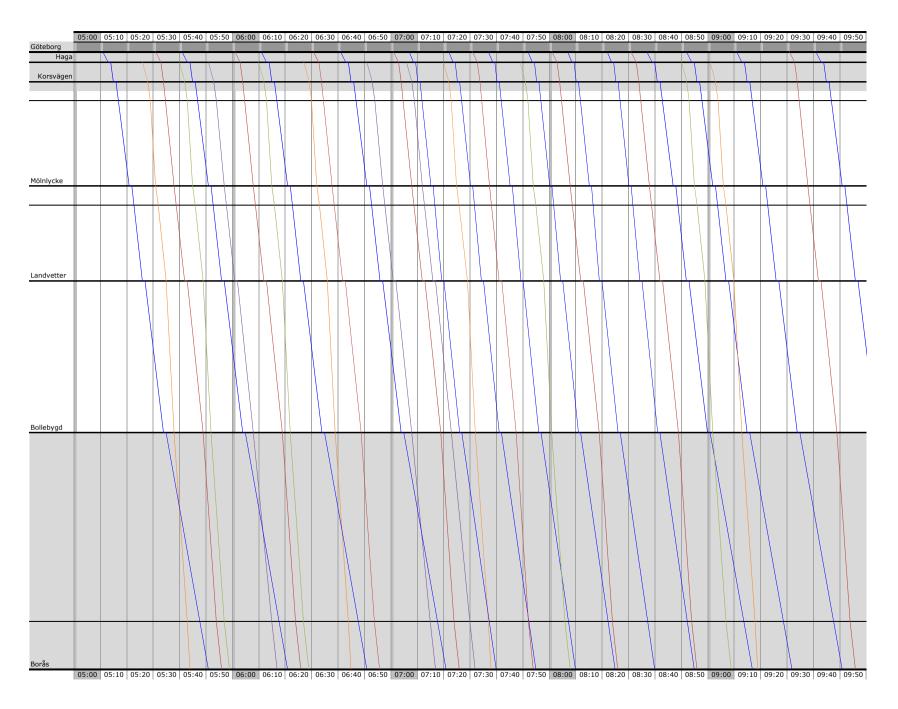
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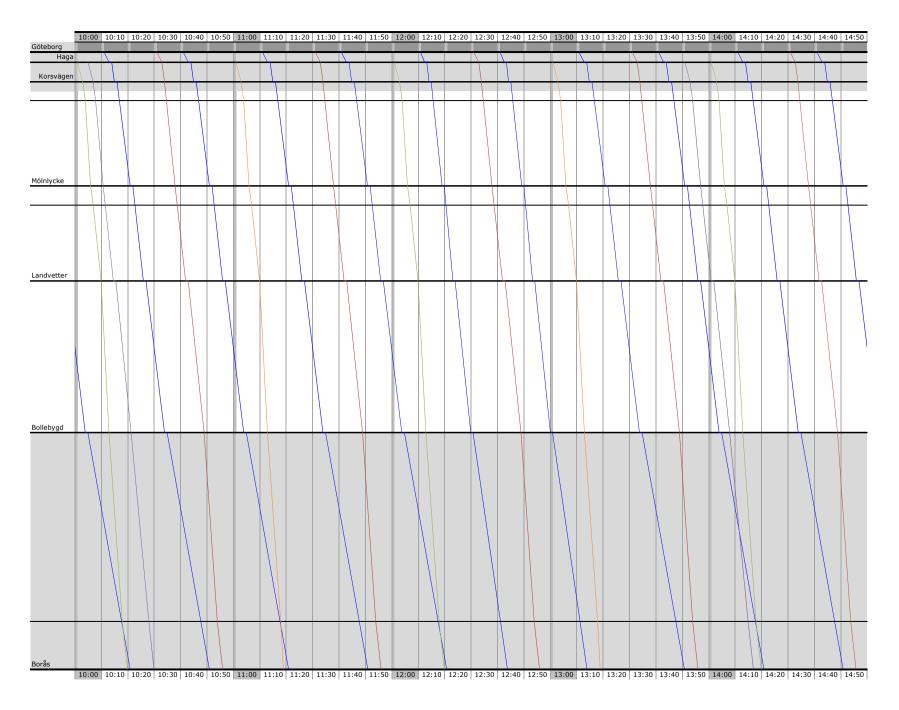
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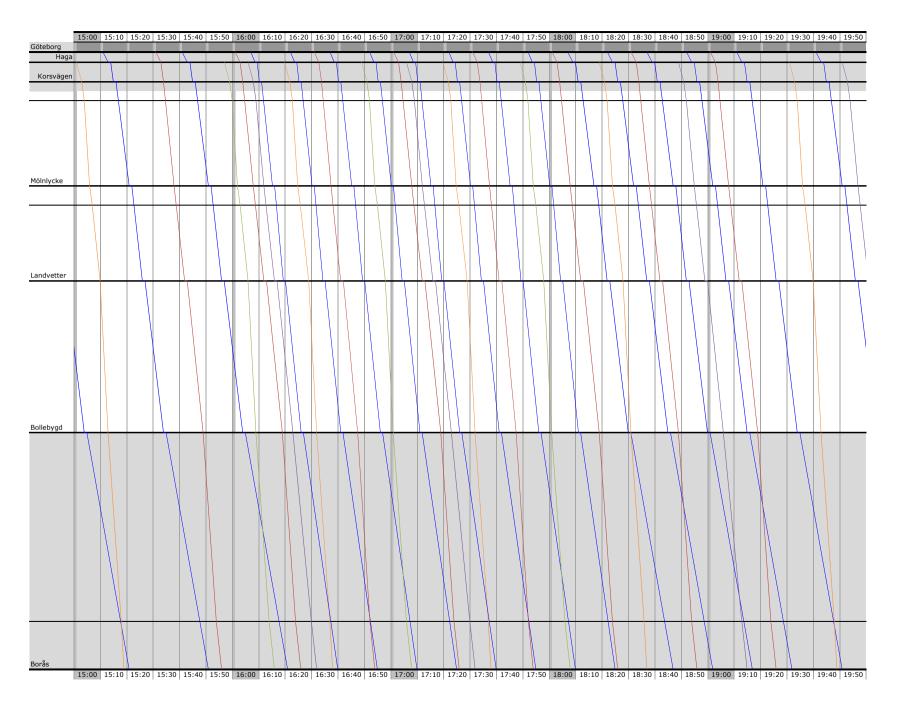


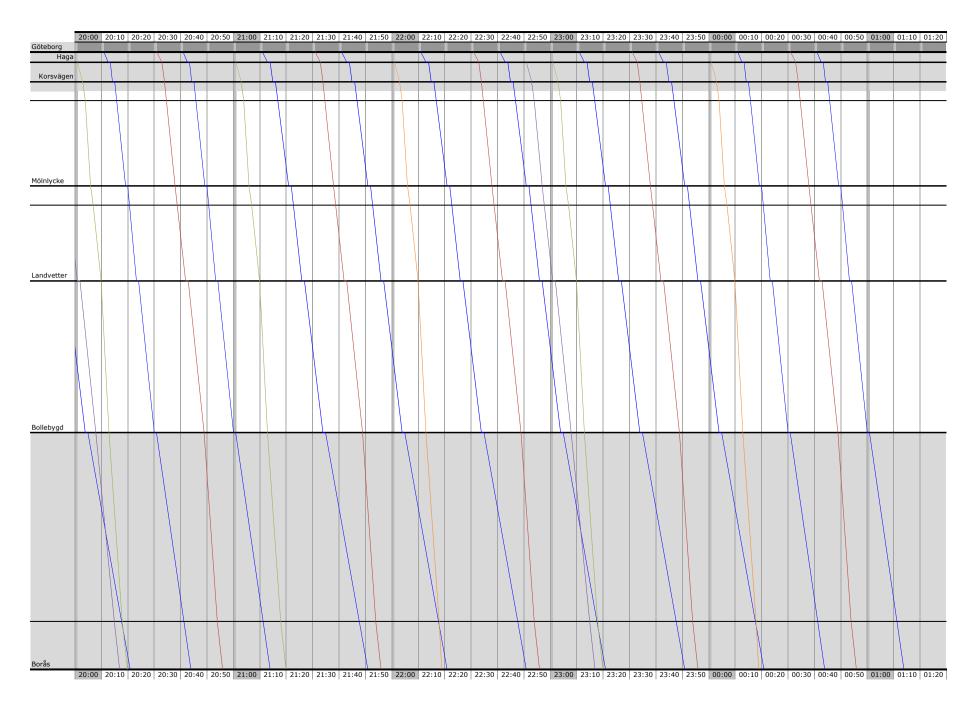


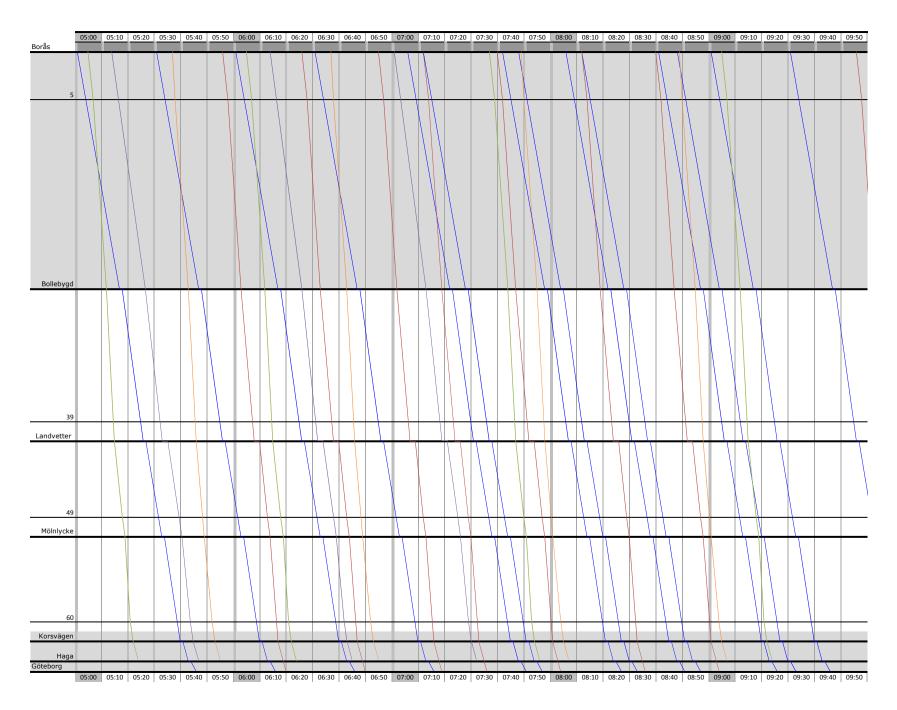


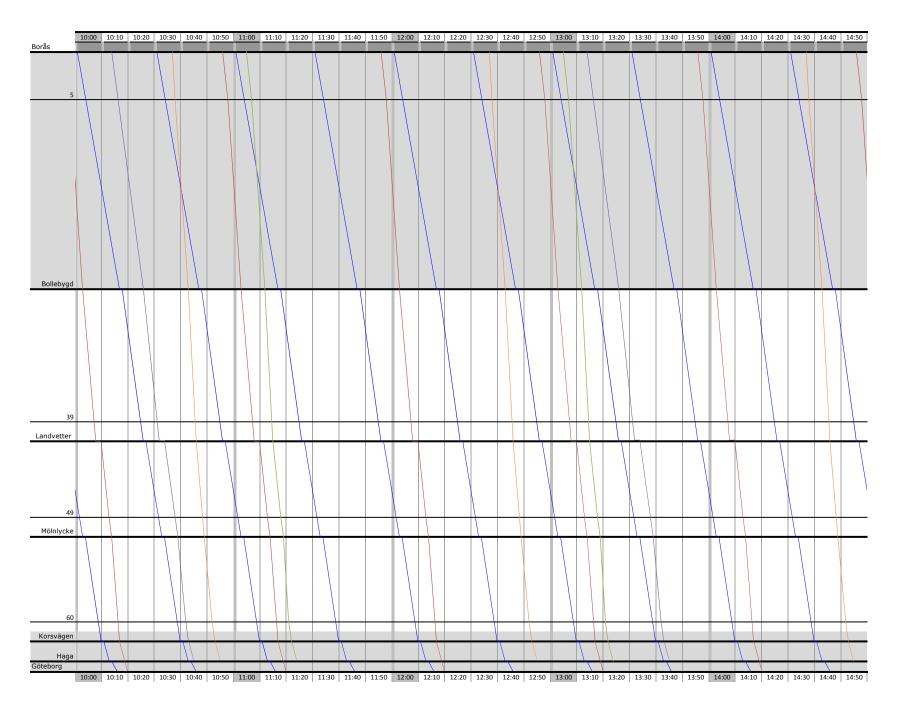


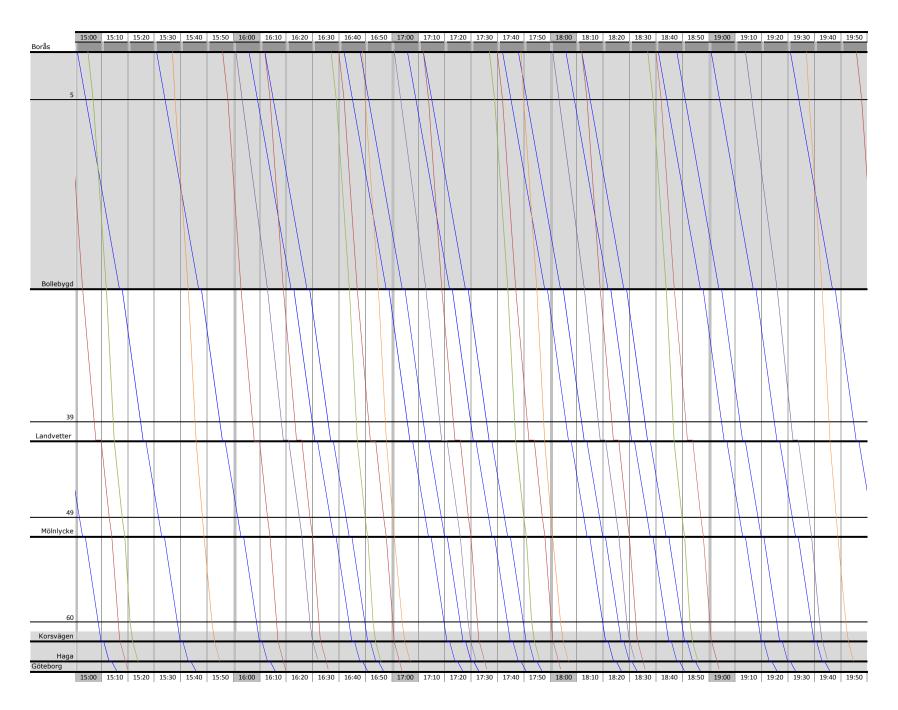


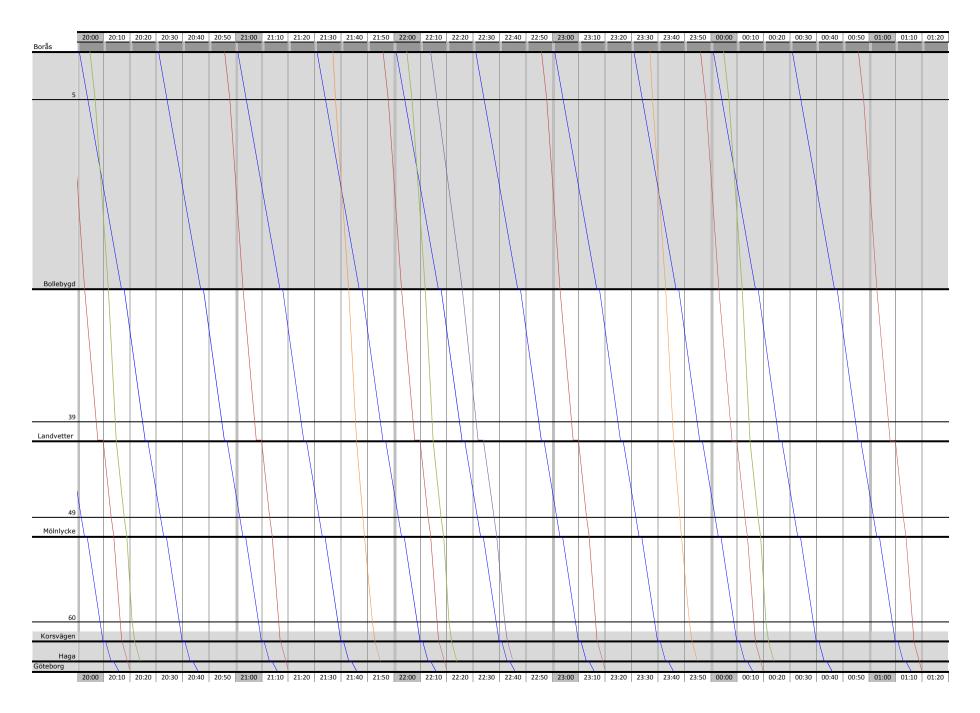










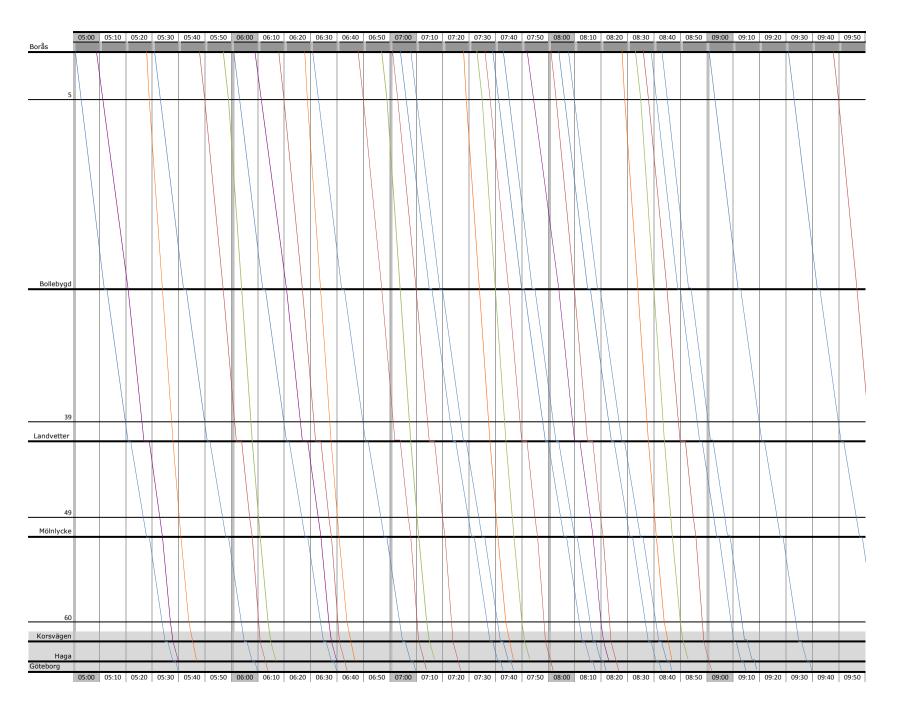


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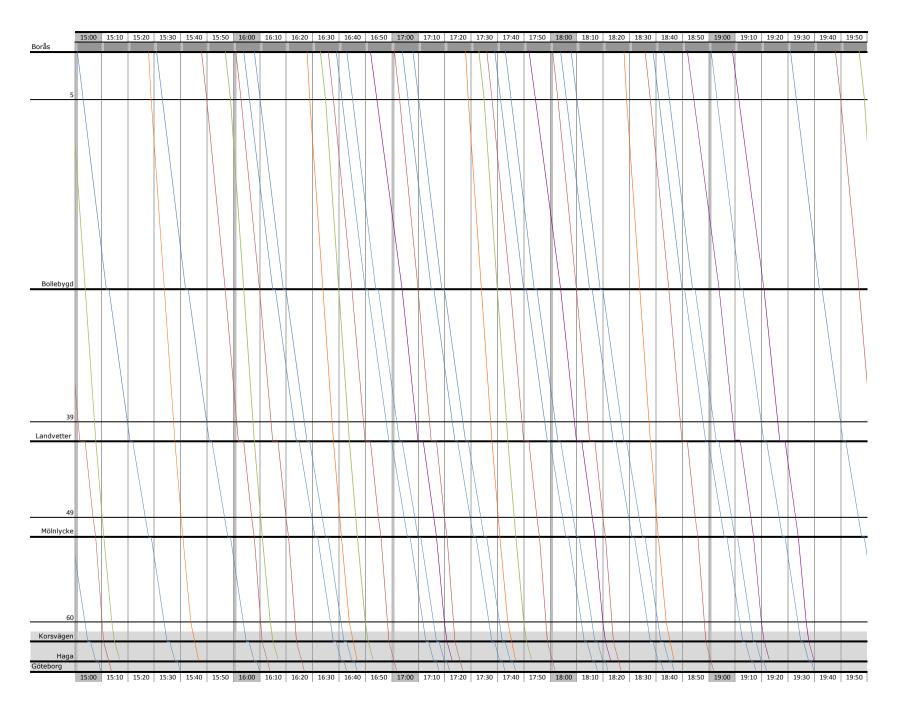
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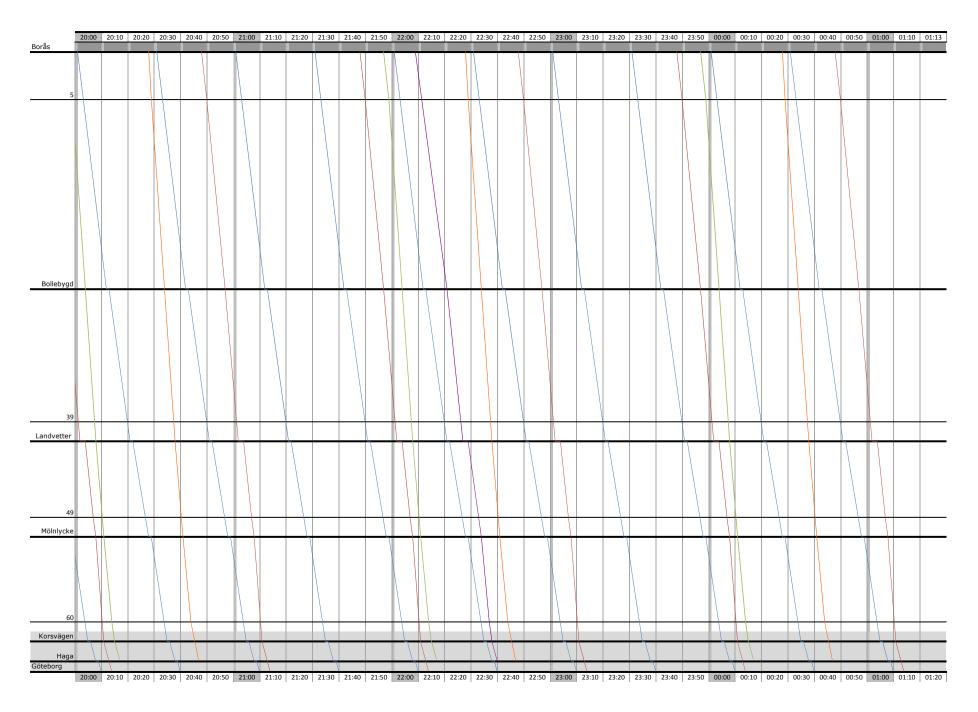
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From Göteborg to Borås

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From Borås to Göteborg

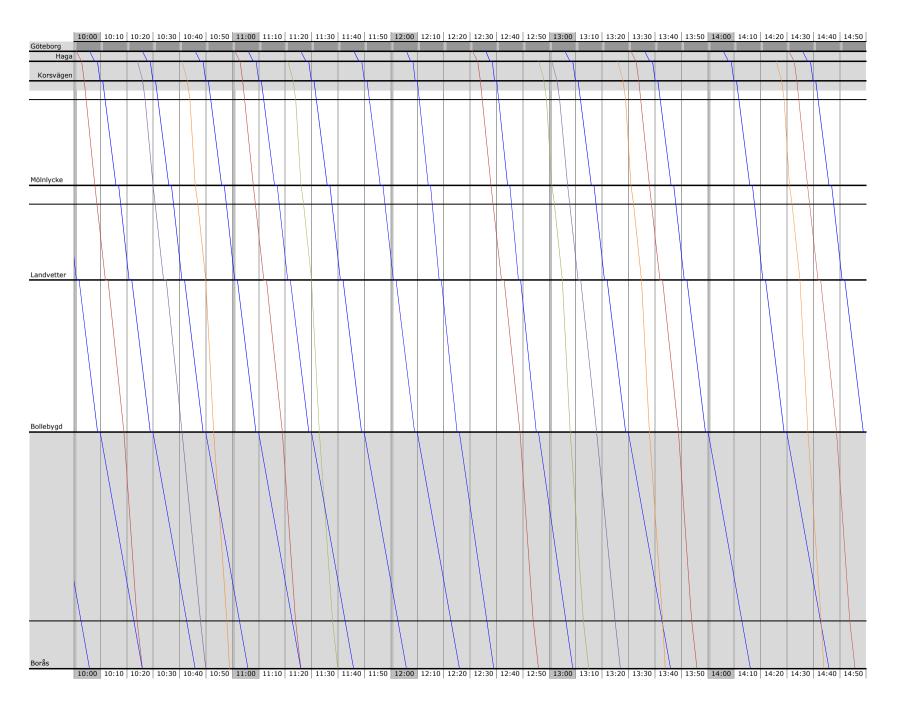
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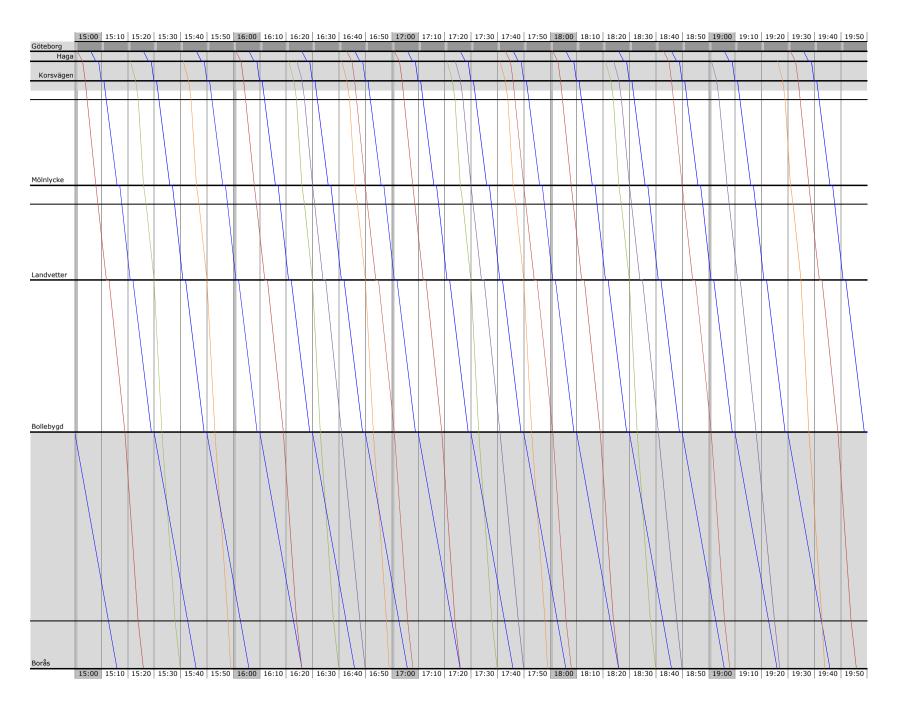
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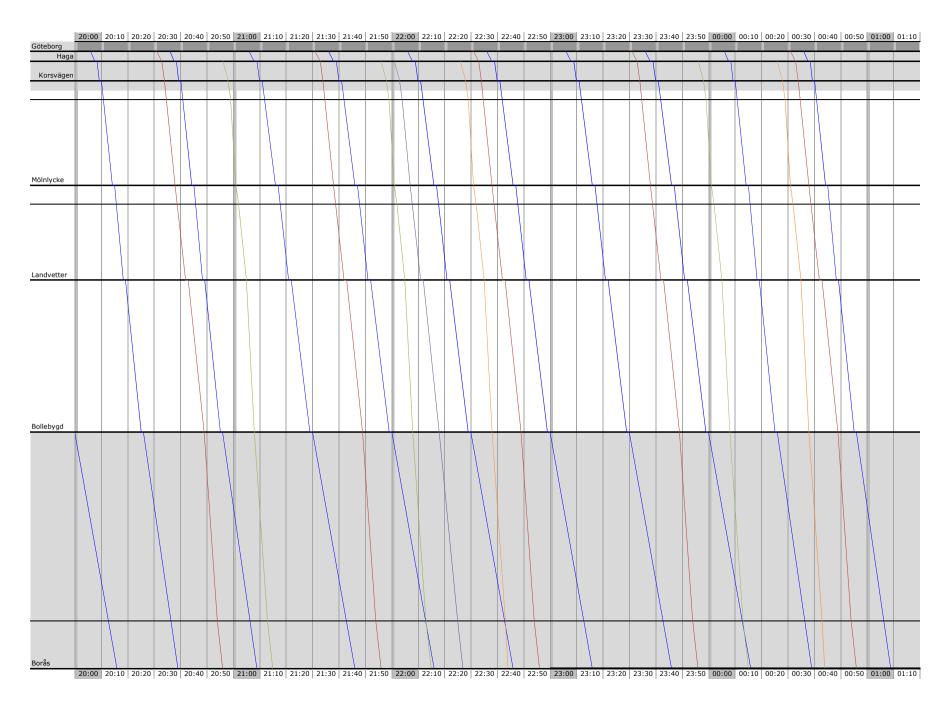
From Borås to Göteborg

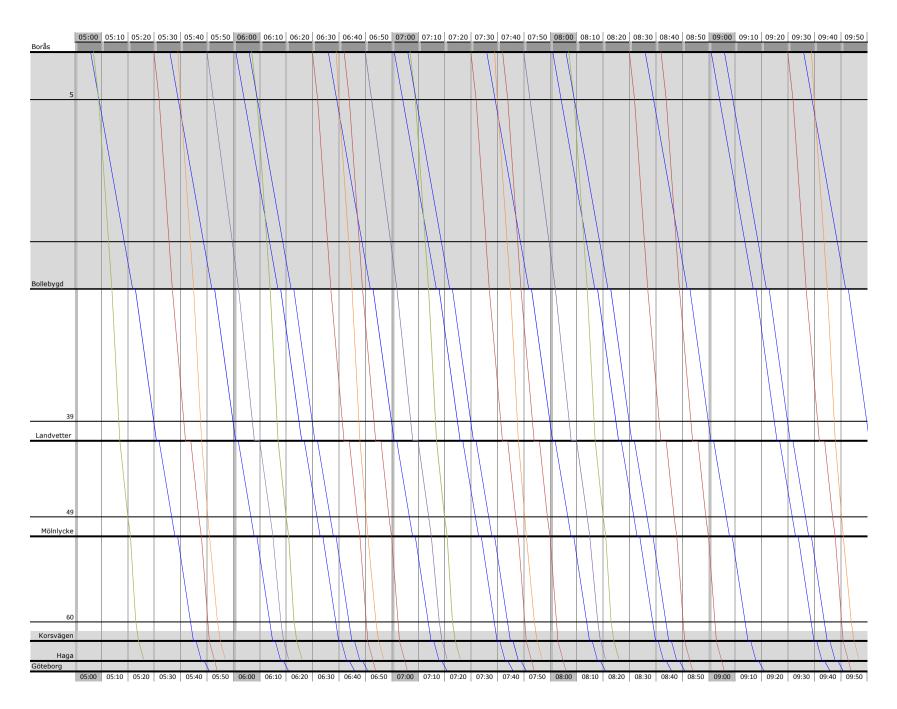
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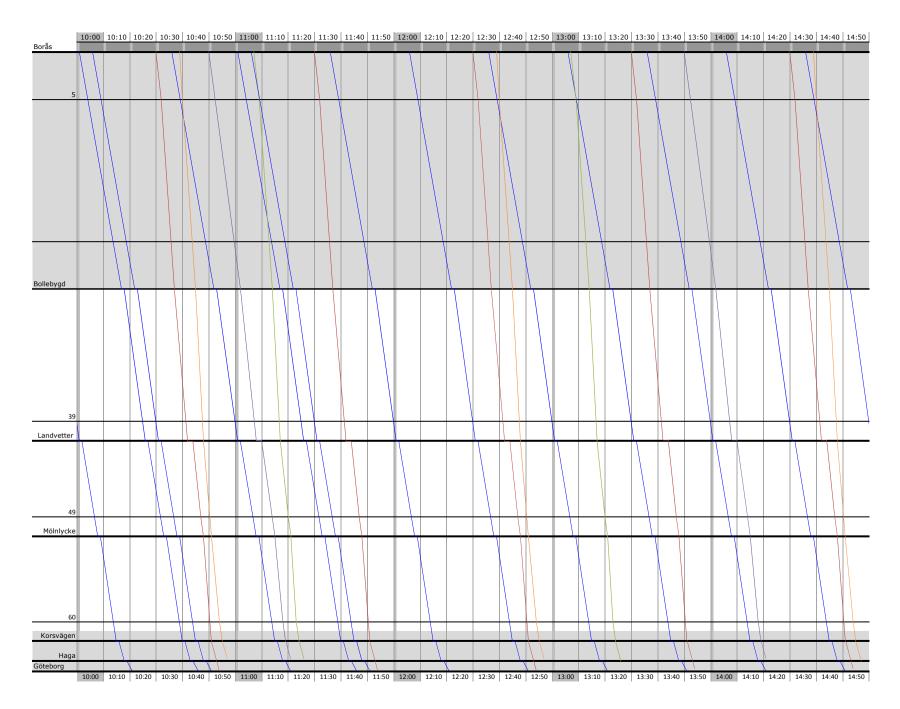
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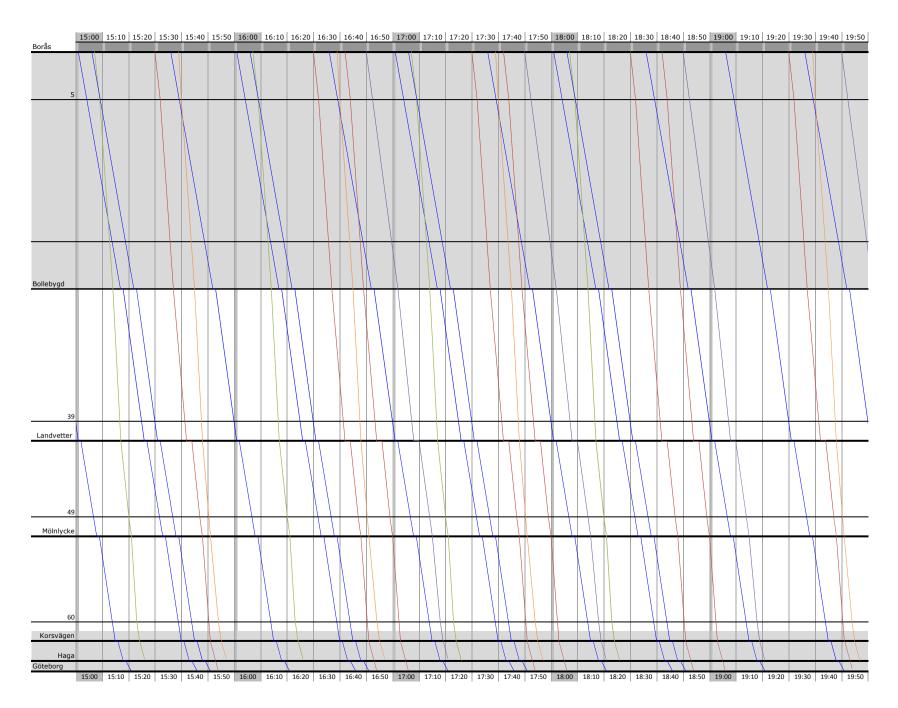


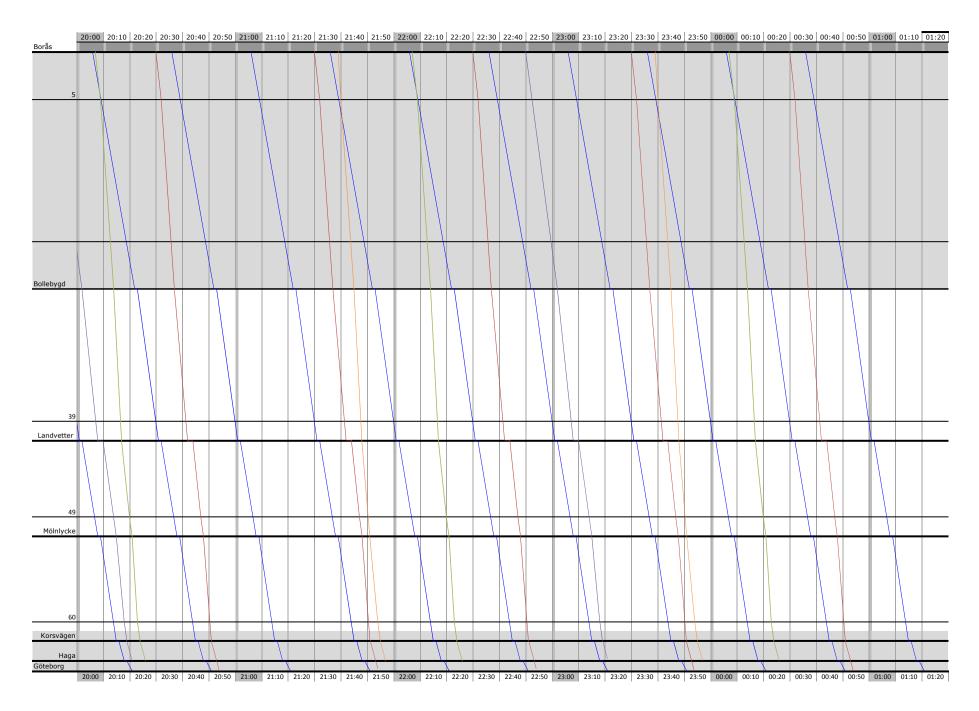










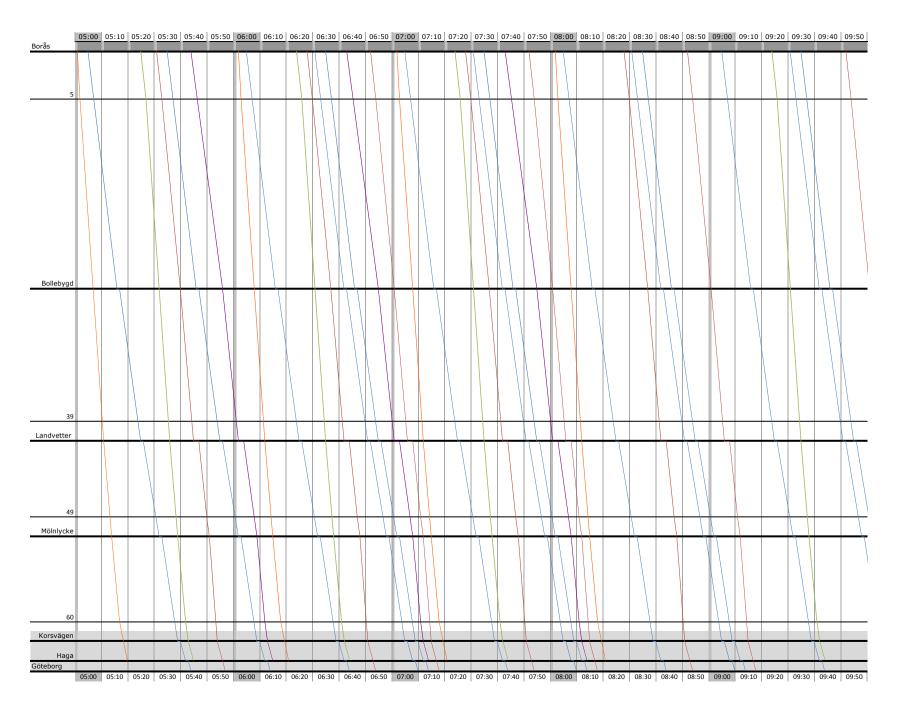


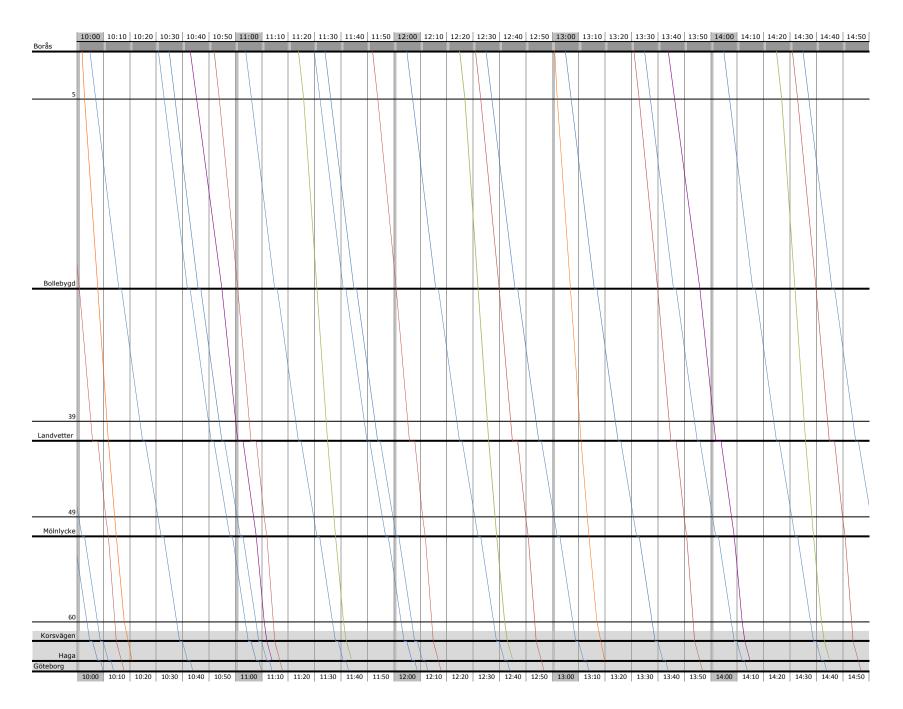
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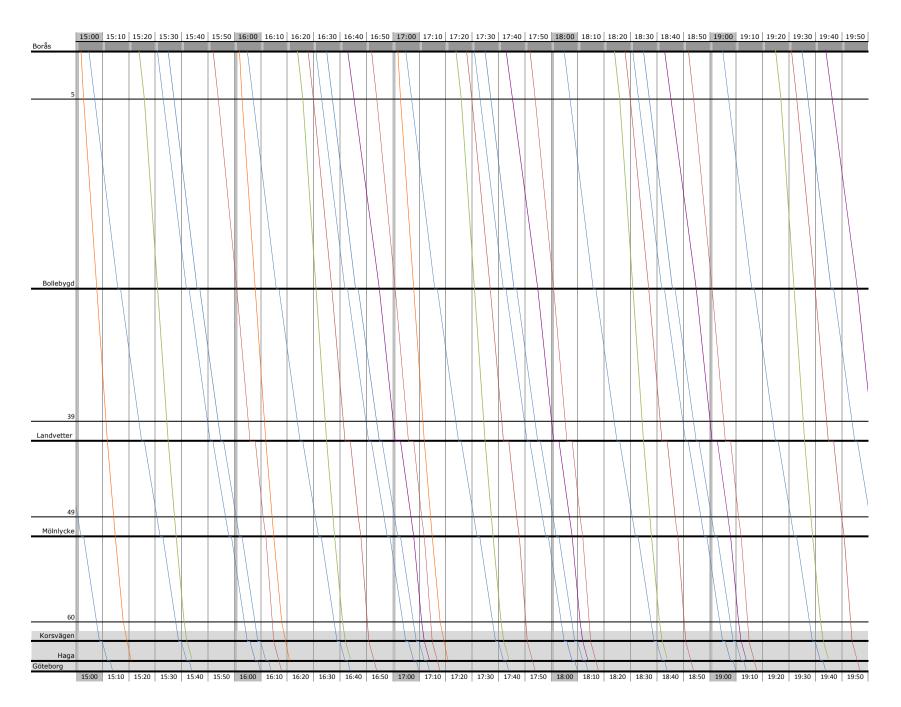
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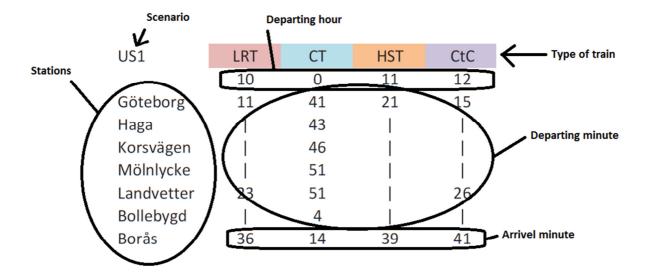


From Borås to Göteborg

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Korsväger	1																																						
Haga Göteborg			Ц																			7																	
	2	20:00	20:10	20	:20	20:30	20:40	20:	50	21:00	21:10	21:20	21:3	0 2	21:40	21:50	22:00	22:10	22:	20 2	22:30	22:40	22:50	23:00	23:10	23:2	0 2	3:30	23:40	23:50	00:00	00:1	0 00:	20 (00:30	00:40	00:50	01:00	01:10

Appendix 5 – Timetables (tables)

In this appendix are the timetables for all the scenarios. Are in tables and below is a key how you read the timetable.



Type of train:

- HST High speed train, orange is without stop in Borås and green is with.
- LRG Large regional train
- CtC Coast-to-coast
- CT Commuter train

LRT	0	52				4		17	ط	0	41	53	2	6	16	19	20
HST (Bs)	0	50	_					თ	ctc	0	37		57	_			ø
HST	0	47	_				_	ъ	LRT	0	34	_	48	_	_	_	58
С	0	29	31	34	39	39	52	2	HST (Bs)	0	31			_			50
HST (Bs)	0	29	_			_		48	LRT	0	23		37	_			47
LRT	0	20				32		45	HST (Bs)	0	20						39
ctc	0	15	_			26		41	LRT	0	12		26	_			36
LRT	0	6	_		_	21		34	HST (Bs)	0	6	_		_	_	_	28
HST (Bs)	0	9						25	HST	0	9			_			24
HST (Bs)	9	2						21	HST (Bs)	9	1	_					20
LRT	0	48	_		_	0	_	13	ctc	0	45	_	ŋ	_	_	_	16
HST	0	45	_					Ω	LRT	0	41		55	_			Ŋ
LRT	0	34				46		59	HST (Bs)	0	37			_			56
HST (Bs)	0	30	_				_	49	LRT	0	29	_	43	_	_	_	53
LRT	0	20	_		_	32	_	45	HST	0	25	_	_	_	_		43
ctc	ъ	15				26		41	LRT	ъ	15		29	_			39
US1		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ۍ ۲	0	41	43	46	51	51	4	14	ctc	0	48		∞				19
ctc	0	15	_	_		26	_	41	CT	0	21	33	42	49	56	59	0
HST (Bs)	6	2						21	HST (Bs)	6	12						31
C	0	41	43	46	51	51	4	14	C	0	51	ŝ	12	19	26	29	30
LRT	0	30	_			42	_	55	LRT	0	48		2	_			12
сŢ	8	17	19	22	27	27	40	50	сŢ	∞	21	33	42	49	56	59	0
С	0	53	55	58	ŝ	ŝ	16	26	С	0	56	∞	17	24	31	34	35
LRT	0	52	_	_		4		17	ن	0	51	ŝ	12	19	26	29	30
HST (Bs)	0	50	_					6	LRT	0	48		2				12
LRT	0	41	_			53	_	9	HST (Bs)	0	45			_			4
HST (Bs)	0	39	_	_	_	_	_	58	сŢ	0	26	38	47	54	Ч	4	ъ
C	0	22	24	27	32	32	45	55	С	0	21	33	42	49	56	59	0
HST (Bs)	0	22	_					41	HST (Bs)	0	17						36
IJ	0	ŋ	7	10	15	15	28	38	LRT	0	6		23	_	_		33
ե	0	1	ŝ	9	11	11	24	34	HST	0	9		_	_	_		24
HST (Bs)	7	1	_					20	HST (Bs)	7	1						20
US1		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ط ل	0	42	44	47	52	52	Ŋ	15	ctc	0	49		6	_			20
LRT	0	38				50		£	CT	0	41	53	2	6	16	19	20
ط ل	0	27	29	32	37	37	50	0	LRT	0	38		52	_			2
LRT	0	22	_	_	_	34		47	С	0	21	33	42	49	56	59	0
ctc	0	15	_	_	_	26		41	LRT	0	18		32	_	_		42
LRT	0	9				18		31	HST	0	12			_			30
HST	15	1						19	LRT	15	1		15				25
۲ ۲	0	41	43	46	51	51	4	14	Ъ	0	21	33	42	49	56	59	0
LRT	14	21				33		46	LRT	14	12		26				36
HST (Bs)	13	21	_			_		40	HST (Bs)	13	12			_			31
СŢ	0	41	43	46	51	51	4	14	ctc	0	48	_	∞	_	_	_	19
LRT	0	21	_			33		46	СŢ	0	21	33	42	49	56	59	0
ctc	12	15	_			26		41	LRT	12	12	_	26	_	_	_	36
HST	11	21	_			_		39	HST	11	12	_		_	_	_	30
ط ت	0	41	43	46	51	51	4	14	С	0	21	33	42	49	56	59	0
LRT	10	11				23		36	LRT	10	12		26				36
US1		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

5	0	21	23	26	31	31	14	54	HST (Bs)	0	1 1		_	_	_		0
					(,)	(,,	7	2,	HSH		7						
HST (Bs)	0	20	_	_	_	_	_	39	ს კ	0	21	33	42	49	56	59	0
LRT	17	11		_		23		36	LRT	17	18		32	_			42
С	0	52	54	57	2	2	15	25	С	0	59	11	20	27	34	37	38
CT	0	48	50	53	58	58	11	21	CT	0	55	7	16	23	30	33	34
ctc	0	48				59		14	HST (Bs)	0	52			_			11
LRT	0	43	_	_		55		∞	HST (Bs)	0	49			_	_		∞
HST (Bs)	0	41	_	_	_	_	_	0	LRT	0	42		56	_	_		9
HST (Bs)	0	38				_		57	ctc	0	31		51				2
LRT	0	28		_		40		53	Ե	0	23	35	44	51	58	1	2
С	0	18	20	23	28	28	41	51	С	0	20	32	41	48	55	58	59
сŢ	0	14	16	19	24	24	37	47	LRT	0	17		31	_			41
LRT	0	6		_		21		34	HST (Bs)	0	14			_			33
HST (Bs) HST (Bs)	0	7	_	_				26	HST (Bs) HST (Bs)	0	11			_	_		30
HST (Bs)	0	4						23	HST	0	8						26
HST	16	Ч	_	_	_	_	_	19	LRT	16	0		14	_	_		24
US1	•	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	21	_	_	_	33	_	46	LRT	0	12		26	_		_	36
Ъ	0	41	43	46	51	51	4	14	Ե	0	21	33	42	49	56	59	0
HST	23	21	_		_	_	_	39	HST	23	12	_	_	_	_		30
LRT	0	21	_	_	_	33	_	46	ctc	0	47	_	7	_	_		18
ctc	22	15	_		_	26	_	41	LRT	22	12		26	_			36
CT	0	41	43	46	51	51	4	14	CT	0	21	33	42	49	56	59	0
HST (Bs)	21	21						40	HST (Bs)	21	12						31
LRT	20	21	_		_	33	_	46	LRT	20	12	_	26	_	_		36
Ե	0	41	43	46	51	51	4	14	ctc	0	47	_	7	_	_		18
HST	0	21			_		_	39	СŢ	0	21	33	42	49	56	59	0
ctc	19	9	_		_	17	_	32	HST	19	12			_	_		30
ե	0	41	43	46	51	51	4	14	Ե	0	21	33	42	49	56	59	0
LRT	18	32	_		_	44	_	57	LRT	18	12		26	_	_		36
Ե	0	41	43	46	51	51	4	14	С	0	51	ŝ	12	19	26	29	30
LRT	0	34	_		_	46		59	LRT	0	44		58	_			8
US1		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST (Bs) 18 	37 — — —	CT 11 28 28 44 51 56 51
CT 6 0 1 1	11 11 24 34	HST (Bs) 4 1 23 23
CtC	12 27	Hz 1
HST 58	16 — — —	CtC 16 — — – 5 — 45
HST (Bs) 54 	13 — — —	LRT 56 66 6
CtC	55 10	HST (Bs) 39
CT 31 33 36	41 41 54	HST 36
HST 29	47	CT 11 28 37 54 51 56
16 LRT -	28 41	CtC 33 2 33
HST (Bs) 11 	30 — — —	HST (Bs) 4
CtC	12 27 27	H 1
HST 56 —	4	CtC 5 16
HST (Bs) 46 	— — — и	LRT 42 66 6
— — 33 CtC	- 44 59	HST 36
27 	39 52 —	CtC 32 - 12 CtC 43 32 43
CtC 5 11	32 47	HST (Bs) 5 4 1 2 23 23
US2 Göteborg Haga Korsvägen	Mölnlycke Landvetter Bollebygd Borås	Borås Bollebygd Landvetter Mölnlycke Korsvägen Haga Göteborg

ctc	0	21	_		_	32	_	47	LRT	0	42		56	_	_		9
ს ს	10	1	ŝ	9	11	11	24	34	HST (Bs)	0	39						58
HST	0	54			_			12	Ե	10	14	31	40	47	54	57	59
C	0	36	38	41	46	46	59	6	ctc	0	45		Ŋ	_			16
ctc	0	21		_	_	32	_	47	CT	0	14	31	40	47	54	57	59
CT	6	1	ŝ	9	11	11	24	34	HST	6	10						28
ctc	0	48			_	59	_	14	CT	0	49	9	15	22	29	32	34
J	0	36	38	41	46	46	59	6	ctc	0	45		ß	_			16
LRT		30	_		_	42	_	55	LRT		42	_	56	_	_		9
HST (Bs)		18	_		_	_	_	37	Ъ		17	34	43	50	57	0	2
Ċ	8	1	ŝ	9	11	11	24	34	HST (Bs)	∞	14						33
C		54	56	59	4	4	17	27	CT		53	10	19	26	33	36	38
HST		54						12	Ե		49	9	15	22	29	32	34
СŢ		36	38	41	46	46	59	6	ctc		45		ß	_			16
HST		36						54	HST		36						54
C		18	20	23	28	28	41	51	CT		15	32	41	48	55	58	0
US2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST	0	ß	_	_	_	_	_	23	5T (Bs)	0	4	_		_			23
HST (Bs)	16	1	_	_				20									
HST H	0	54	_	_				12	ctc	0	45		ŋ	_			16
сŢ	0	36	38	41	46	46	59	6	сŢ	0	29	46	55	2	6	12	14
ctc	0	21	_	_		32		47	С	0	14	31	40	47	54	57	59
с	15	1	£	9	11	11	24	34	HST	15	10			_			28
HST (Bs)	0	54	_	_	_	_		13	LRT	0	42		56	_	_		9
LRT	0	36	_	_	_	48		1	HST (Bs)	0	39			_	_		58
C	14	1	ß	9	11	11	24	34	CT	14	14	31	40	47	54	57	59
ctc	13	21	_	_	_	32	_	47	ctc	13	45		Ŋ	_	_		16
HST	0	54	_					12	ctc	0	45		ß	_			16
ctc	0	21	_	_		32		47	С	0	14	31	40	47	54	57	59
ե	12	1	ß	9	11	11	24	34	HST	12	10			_	_		28
ctc	11	21	_	_	_	32		47	ctc	0	45		Ŋ	_	_		16
HST (Bs)	0	54	_	_	_		_	13	Ե	11	14	31	40	47	54	57	59
LRT	0	36	_	_	_	48	_	1	ctc	0	45	_	Ŋ	_	_		16
US2	-	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	36	_			48		1	LRT	0	42		56	_	_		9
ctc	0	21	_			32		47	CT	0	14	31	40	47	54	57	59
С	18	1	ŝ	9	11	11	24	34	HST	18	10			_			28
HST (Bs)	0	54	_		_			13	CT	0	49	9	15	22	29	32	34
сŢ	0	36	38	41	46	46	59	თ	ctc	0	45		ß	_			16
ctc	0	21				32		47	HST (Bs)	0	39						58
СŢ	17	1	ŝ	9	11	11	24	34	CT	17	14	31	40	47	54	57	59
ե	0	51	53	56	1	1	14	24	Ъ	0	53	10	19	26	33	36	38
ctc	0	51	_			2		17	CT	0	49	9	15	22	29	32	34
Ե	0	40	42	45	50	50	ŝ	13	ctc	0	45		ß	_			16
HST	0	40	_		_	_		58	LRT	0	42		56	_			9
HST (Bs)	0	36	_					55	HST (Bs)	0	39						58
LRT	0	27	_	_	_	39	_	52	HST	0	36	_	_	_	_	_	54
СŢ	0	16	18	21	26	26	39	49	с	0	15	32	41	48	55	58	0
ctc	0	16	_			27	_	42	с	0	11	28	37	44	51	54	56
сı	0	Ŋ	7	10	15	15	28	38	ctc	0	7		27	_			38
US2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

CT	0	1	3	9	11	11	24	34	СT	0	14	31	40	47	54	57	59
HST (Bs)	0	54				_		13	ctc	0	45		ß				16
	23	21				32		47	HST (Bs)	23	39						58
ط ل	22	1	ŝ	9	11	11	24	34	+ 5	22	14	31	40	47	54	57	59
HST	0	54			_	_		12	ctc	0	45		ß	_			16
ctc	21	21				32		47	HST	21	10						28
LRT	0	36			_	48		1	ctc	0	45		ß	_			16
ctc	0	21				32		47	LRT	0	42		56				9
ط ل	20	1	ŝ	9	11	11	24	34	Ե	20	14	31	40	47	54	57	59
HST (Bs)	0	54			_	_	_	13	ctc	0	45	_	Ŋ	_			16
ctc	19	21		_	_	32		47	HST (Bs)	19	39		_	_			58
HST	0	54			_	_	_	12	ctc	0	45		ъ	_	_		16
US2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

۲ ۲	0	1	ŝ	9	11	11	24	41		с	0	1	18	27	34	41	44	46
HST	7	1				_		19		HST (Bs)	7	1	18					20
HST (Bs)	0	51						10		ctc	0	45		S				16
LRT	0	43	_			55		∞		LRT	0	34		48	_			58
CT	0	31	33	36	41	41	54	11		C	0	29	46	55	2	6	12	14
HST	0	31	_					49		HST	0	28						46
LRT	0	20				32		45		LRT	0	18		32				42
HST (Bs)	0	16					_	35		HST (Bs)	0	14	31					33
LRT	0	9	_			18	_	31		LRT	0	5		19				29
HST	9	1						19		HST	9	1						19
LRT	0	48	_		_	0	_	13		LRT	0	49	_	ŝ	_	_		13
HST	0	42	_	_	_	_	_	0		ctc	0	35		55	_		_	9
LRT	0	30	_			42	_	55		LRT	0	29		43		_		53
ctc	0	23				34		49		HST (Bs)	0	23	40					42
LRT	0	15	_			27		40		LRT	0	12		26				36
HST	ъ	6						27		HST	Ŋ	9						24
US3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	Notis			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	12	10	_		_	22		35		ctc	12	1		21	_			32
HST	11	10						28		HST	11	19						37
Ե	0	46	48	51	56	56	6	26		Ե	0	46	ŝ	12	19	26	29	31
LRT	10	10	_		_	22	_	35		LRT	10	37	_	51	_	_		1
С	0	46	48	51	56	56	6	26		HST	0	48						9
ctc	0	31	_		_	42	_	57		CT	0	46	ς	12	19	26	29	31
HST	6	10	_		_		_	28		ctc	6	Ч	_	21	_	_		32
Ե	0	46	48	51	56	56	6	26		LRT	0	51		5				15
HST (Bs)	0	40						59		C	0	46	ŝ	12	19	26	29	31
ե	0	16	18	21	26	26	39	56		HST (Bs)	0	19	36					38
LRT	8	10	_		_	22	_	35		CT	∞	16	33	42	49	56	59	1
С	0	46	48	51	56	56	6	26		сŢ	0	51	∞	17	24	31	34	36
HST (Bs)	0	46	_		_			Ŋ		HST	0	48			_			9
сŢ	0	31	33	36	41	41	54	11		СŢ	0	41	58	7	14	21	24	26
LRT	0	25	_		_	37	_	50		LRT	0	37	_	51	_	_		1
CT	0	16	18	21	26	26	39	56		CT	0	11	28	37	44	51	54	56
US3	•	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	Notis			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	32				44		57		HST (Bs)	0	33	50					52
CT	0	23	25	28	33	33	46	ſ		CT	0	30	47	56	ŝ	10	13	15
ctc	0	23	_	_		34	_	49		LRT	0	18		32	_			42
HST (Bs)	0	20	_					39		HST	0	13			_			31
LRT	0	11	_	_	_	23	_	36		сŢ	0	ъ	22	31	38	45	48	50
CT	0	2	4	7	12	12	25	42		LRT	0	4	_	18	_		_	28
HST	16	2	_	_	_	_	_	20		HST	16	Ч	_	_	_		_	19
ե	0	46	48	51	56	56	6	26		LRT	0	33	_	47				57
HST (Bs)	0	40						59		Ъ	0	27	44	53	0	7	10	12
Ե	0	16	18	21	26	26	39	56		HST	0	12	_		_	_	_	30
LRT	15	10	_			22	_	35		CT	15	S	22	31	38	45	48	50
С	0	46	48	51	56	56	6	26		C	0	46	ŝ	12	19	26	29	31
LRT	14	10	_	_		22	_	35		LRT	14	37	_	51	_	_	_	1
HST	13	10	_				_	28		HST (Bs)	13	19	36	_	_			38
Ъ	0	46	48	51	56	56	6	26		Ъ	0	46	ŝ	12	19	26	29	31
ctc	0	31	_			42		57		LRT	0	37		51				1
US3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	Notis			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST	21	10	_					28		HST (Bs)	21	18	35		_	_		37
LRT	20	10	_	_		22	_	35		LRT	20	37		51	_	_		Ч
ط ل	0	46	48	51	56	56	6	26		HST	0	48		_	_	_		9
HST (Bs)	0	40	_	_		_	_	59		CT	0	46	ŝ	12	19	26	29	31
ctc	19	10	_	_		21	_	36		ctc	19	1	_	21	_	_		32
сŢ	0	46	48	51	56	56	6	26		CT	0	46	ŝ	12	19	26	29	31
HST	0	40	_	_		_		58		LRT	0	37		51	_			7
LRT	18	10	_	_	_	22	_	35		HST (Bs)	18	19	36		_	_		38
С	0	46	48	51	56	56	6	26		С	0	46	ŝ	12	19	26	29	31
HST (Bs)	0	40	_	_				59		LRT	0	41		55	_			Ŋ
CT	0	16	18	21	26	26	39	56		HST	0	21		_	_	_		39
LRT	17	10	_	_		22		35		С	17	16	33	42	49	56	59	1
ط ل	0	54	56	59	4	4	17	34		ctc	0	47		7	_	_		18
LRT	0	51	_	_	_	ŝ		16		С	0	46	ŝ	12	19	26	29	31
٦ ل	0	42	44	47	52	52	Ŋ	22		LRT	0	36		50	_			0
HST	0	42	_	_	_		_	0		C	0	34	51	0	7	14	17	19
NS3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	Notis			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

CT	LRT	HST	Ъ	LRT
0	22	23	0	0
46	10	10	46	10
48			48	
51	_	_	51	_
56	_	_	56	_
56	22		56	22
6			6	_
26	35	28	26	35
С	LRT	С	HST	LRT
0	22	0	23	0
46	36	46	48	37
S		ŝ		_
12	50	12		51
19		19	_	_
26		26	_	_
29		29	_	_
31	0	31	9	1

JS4	HST (Bs)	LRT	HST (Bs)	LRT	ctc	LRT	HST	HST (Bs)	LRT	CT	LRT	HST	HST (Bs)	ctc	LRT	HST (Bs)
	ъ	0	0	0	0	0	9	0	0	0	0	0	0	0	0	7
Göteborg	7	12	25	30	40	47	1	9	6	15	26	38	42	46	50	1
		_		_		_	_		_	17		_	_		_	
Korsvägen		_		_			_		_	20					_	
Mölnlycke		_		_		_	_		_	25		_	_		_	
Landvetter		24		42	51	59	_		21	25	38	_	_	57	2	_
Bollebygd	_	_		_		_	_		_	38		_	_		_	_
Borås	27	39	45	57	9	14	20	26	36	48	53	57	7	12	17	21
	HST (Bs)	LRT	ctc	LRT	HST (Bs)	LRT	HST	HST (Bs)	LRT	С	ctc	LRT	HST	HST (Bs)	LRT	HST
	ъ	0	0	0	0	0	9	0	0	0	0	0	0	0	0	7
Borås	Ŋ	6	25	34	47	50	1	ß	6	17	25	34	44	47	50	1
Bollebygd	17	_		_	59	_		17	_	29		_	_	59	_	
-andvetter		25	45	50		9	_	_	25	38	45	50			9	
Mölnlycke		_		_		_	_	_	_	45	_	_	_		_	_
Korsvägen		_		_		_			_	52		_	_			
						_				55					_	
Göteborg	25	35	56	0	7	16	20	25	35	56	56	0	c	7	16	20

LRT	0	26	_		_	38		53	LRT	0	34		50	_	_		0
C	10	1	ŝ	9	11	11	24	34	С	10	17	29	38	45	52	55	56
HST (Bs)	0	49						6	HST (Bs)	0	47	59					7
ctc	0	16	_		_	27		42	ctc	0	25		45	_			56
ۍ ۲	6	1	ŝ	9	11	11	24	34	С	6	17	29	38	45	52	55	56
HST (Bs)	0	50	_		_	_		10	СT	0	57	6	18	25	32	35	36
ۍ ۲	0	26	28	31	36	36	49	59	HST (Bs)	0	47	59					7
LRT	0	13	_		_	25		40	LRT	0	34		50	_	_		0
ر	8	1	ŝ	9	11	11	24	34	cŢ	∞	17	29	38	45	52	55	56
Ъ	0	52	54	57	2	2	15	25	с	0	57	6	18	25	32	35	36
HST (Bs)	0	50	_		_	_		10	CT	0	53	ß	14	21	28	31	32
HST	0	45	_		_			4	HST (Bs)	0	47	59		_			7
Ъ	0	26	28	31	36	36	49	59	LRT	0	34		50	_			0
С	0	19	21	24	29	29	42	52	Ե	0	17	29	38	45	52	55	56
LRT	0	13	_		_	25		40	с	0	13	25	34	41	48	51	52
c	0	1	ŝ	9	11	11	24	34	HST (Bs)	0	5	17		_			25
US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ctc	0	11				22		37	С	0	13	25	34	41	48	51	52
LRT	0	9	_		_	18		33	LRT	0	6		25	_	_	_	35
HST (Bs)	0	4						24	HST (Bs)	0	Ŋ	17		_	_		25
HST	16	1	_			_		20	HST	16	1		_	_	_	_	20
ل ح	0	40	42	45	50	50	ŝ	13	HST (Bs)	0	47	59		_	_		7
HST (Bs)	0	36	_		_	_		56	LRT	0	34		50	_	_	_	0
LRT	0	26	_			38		53	ctc	0	25		45	_	_	_	56
ctc	0	16				27		42	Ъ	0	17	29	38	45	52	55	56
С	15	1	ŝ	9	11	11	24	34	Ե	15	13	25	34	41	48	51	52
LRT	0	26			_	38		53	LRT	0	34		50	_	_	_	0
С	14	1	ŝ	9	11	11	24	34	С	14	17	29	38	45	52	55	56
HST (Bs)	13	49						6	HST (Bs)	13	47	59					7
ctc	0	46	_	_	_	57	_	12	LRT	0	34	_	50	_	_	_	0
LRT	0	26				38		53	ctc	0	25		45				56
ل	12	1	ŝ	9	11	11	24	34	Ե	12	16	28	37	44	51	54	55
HST (Bs)	11	49						6	HST (Bs)	11	47	59					7
US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ctc	0	16			_	27	_	42	ctc	0	25		45	_			56
C	19	1	ŝ	9	11	11	24	34	CT	19	17	29	38	45	52	55	56
LRT	0	26	_	_	_	38	_	53	LRT	0	34		50	_			0
СŢ	18	1	ŝ	9	11	11	24	34	СŢ	18	17	29	38	45	52	55	56
С	0	31	33	36	41	41	54	4	С	0	57	6	18	25	32	35	36
LRT	0	26	_		_	38	_	53	HST	0	44		_	_			£
HST	0	21	_	_	_		_	40	LRT	0	34		50	_			0
Ե	17	1	ŝ	9	11	11	24	34	Ե	17	17	29	38	45	52	55	56
С	0	57	59	2	7	7	20	30	С	0	57	6	18	25	32	35	36
ե	0	53	55	58	ŝ	ŝ	16	26	Ե	0	53	ß	14	21	28	31	32
LRT	0	49				1		16	LRT	0	50		9				16
Ċ	0	38	40	43	48	48	1	11	HST (Bs)	0	47	59					7
LRT	0	34	_	_	_	46		1	HST	0	44			_	_		ε
HST	0	31	_		_	_	_	50	LRT	0	34		50	_	_		0
HST (Bs)	0	27						47	ctc	0	25		45				56
С	0	11	13	16	21	21	34	44	С	0	17	29	38	45	52	55	56
US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

US4	HST (Bs)	LRT	СŢ	HST (Bs)	ctc	LRT	Ե	HST (Bs)	LRT
	0	20	21	0	22	0	23	0	0
Göteborg	46	26	Ч	49	16	26	1	49	26
Haga			ŝ		_	_	ŝ		
Korsvägen			9		_	_	9		
Mölnlycke			11		_		11		
Landvetter		38	11		27	38	11		38
Bollebygd			24		_	_	24		
Borås	9	53	34	6	42	53	34	6	53
	HST (Bs)	LRT	5	HST (Bs)	ctc	LRT	Ь	HST (Bs)	LRT
	0	20	21	0	22	0	23	0	0
Borås	47	34	17	47	25	34	13	47	34
Bollebygd	59	_	29	59	_	_	25	59	_
Landvetter		50	38	_	45	50	34		50
Mölnlycke		_	45		_	_	41		
Korsvägen			52		_	_	48		
Haga			55		_	_	51		
Göteborg	7	0	56	7	56	0	52	7	0

ե	0	9	∞	11	16	16	29	39	ctc	0	12		32	_	_		43
CT	0	1	ŝ	9	11	11	24	34	CT	0	4	16	25	32	39	42	43
ctc	7	1	_		_	12	_	27	HST	7	1		_	_	_	_	19
HST (Bs)	0	57						16	HST (Bs)	0	57						16
LRT	0	44	_		_	56	_	6	LRT	0	48		2	_	_	_	12
ط ل	0	31	33	36	41	41	54	4	С	0	29	41	50	57	4	7	∞
HST	0	30	_		_	_	_	48	LRT	0	25		39	_	_		49
LRT	0	18			_	30	_	43	ctc	0	13		33	_	_	_	44
۲	0	1	ŝ	9	11	11	24	34	сŢ	0	4	16	25	32	39	42	43
ctc	9	1			_	12		27	HST	9	1						19
HST (Bs)	0	57						16	HST (Bs)	0	57						16
LRT	0	44	_	_	_	56	_	6	LRT	0	48	_	2	_	_	_	12
ե	0	31	33	36	41	41	54	4	Ե	0	29	41	50	57	4	7	×
HST	0	30						48	ctc	0	24		44				55
ctc	0	16				27		42	Ъ	0	15	27	36	43	50	53	54
сŢ	ъ	1	ŝ	9	11	11	24	34	HST	ъ	11						29
V1 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

Ъ	0	31	33	36	41	41	54	4	С	0	33	45	54	Ч	∞	11	12
LRT	0	19				31		44	HST (Bs)	0	24						43
Ъ	6	Ч	ŝ	9	11	11	24	34	Ъ	6	ŝ	15	24	31	38	41	42
LRT	0	48	_	_	_	0		13	СŢ	0	59	11	20	27	34	37	38
С	0	36	38	41	46	46	59	6	СŢ	0	55	7	16	23	30	33	34
CT	0	31	33	36	41	41	54	4	LRT	0	51		ß	_		_	15
HST	0	30						48	С	0	33	45	54	1	∞	11	12
LRT	0	19				31		44	HST	0	30						48
с	0	9	8	11	16	16	29	39	LRT	0	22	_	36	_	_		46
ط ل	∞	Ч	ŝ	9	11	11	24	34	с	∞	4	16	25	32	39	42	43
HST (Bs)	0	57						16	CT	0	59	11	20	27	34	37	38
LRT	0	49		_	_	Ч		14	LRT	0	56	_	10	_		_	20
ե	0	36	38	41	46	46	59	6	Ե	0	38	50	59	9	13	16	17
CT	0	31	33	36	41	41	54	4	CT	0	34	46	55	2	6	12	13
HST	0	30	_	_	_			48	HST (Bs)	0	31		_	_	_	_	50
LRT	0	19			_	31		44	LRT	0	23		37	_	_	_	47
V1 US1-2	I	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ط ل	0	Ч	ŝ	9	11	11	24	34	ctc	0	13	_	33	_	_		44
ctc	13	1	_			12	_	27	CT	13	ŝ	15	24	31	38	41	42
HST (Bs)	0	57	_					16	LRT	0	58		12	_			22
C	0	31	33	36	41	41	54	4	C	0	33	45	54	Ч	∞	11	12
LRT	0	19	_			31	_	44	HST	0	24	_		_	_		42
СŢ	12	1	ŝ	9	11	11	24	34	СŢ	12	ŝ	15	24	31	38	41	42
HST	0	57	_			_	_	15	LRT	0	58	_	12	_	_		22
Ե	0	31	33	36	41	41	54	4	HST (Bs)	0	55						14
LRT	0	19	_			31	_	44	С	0	33	45	54	1	∞	11	12
С	11	1	ŝ	9	11	11	24	34	Ъ	11	ŝ	15	24	31	38	41	42
HST (Bs)	0	57	_					16	LRT	0	58		12	_			22
СŢ	0	31	33	36	41	41	54	4	HST	0	54	_		_	_		12
LRT	0	19	_			31	_	44	Ъ	0	33	45	54	Ч	∞	11	12
Ե	0	1	ŝ	9	11	11	24	34	ctc	0	13		33	_	_		44
ctc	10	1	_		_	12		27	с	10	ŝ	15	24	31	38	41	42
HST (Bs)	0	57						16	LRT	0	58		12				22
V1 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	19				31		44	С	0	11	23	32	39	46	49	50
сŢ	0	9	∞	11	16	16	29	39	ctc	0	7	_	27	_	_		38
Ե	0	1	ŝ	9	11	11	24	34	LRT	0	4		18	_			28
ctc	16	1			_	12		27	HST (Bs)	16	1			_			20
HST (Bs)	0	57						16	HST	0	55						13
С	0	31	33	36	41	41	54	4	С	0	33	45	54	1	∞	11	12
HST	0	30			_			48	LRT	0	28		42	_			52
LRT	0	19				31		44	HST (Bs)	0	24						43
IJ	15	1	ŝ	9	11	11	24	34	С	15	ŝ	15	24	31	38	41	42
HST (Bs)	0	57						16	LRT	0	58		12				22
с	0	31	33	36	41	41	54	4	сŢ	0	33	45	54	Ч	∞	11	12
LRT	0	19				31		44	HST	0	24						42
ե	14	1	ŝ	9	11	11	24	34	ن	14	ŝ	15	24	31	38	41	42
HST	0	57			_			15	LRT	0	58		12	_			22
Ե	0	31	33	36	41	41	54	4	HST (Bs)	0	54			_			13
LRT	0	19	_		_	31		44	СŢ	0	33	45	54	1	∞	11	12
V1 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

Ъ	0	7	ŝ	9	11	11	24	34	LRT	0	12		26	_			36
ctc	18	1				12		27	ctc	18	1		21				32
HST (Bs)	0	57						16	ن	0	51	ŝ	12	19	26	29	30
LRT	0	49				1		14	CT	0	47	59	∞	15	22	25	26
С	0	36	38	41	46	46	59	6	LRT	0	44		58	_			×
С	0	31	33	36	41	41	54	4	HST	0	41			_			59
HST	0	30			_			48	сŢ	0	20	32	41	48	55	58	59
LRT	0	19				31		44	ctc	0	16		36				47
٦ ۲	0	9	∞	11	16	16	29	39	С	0	∞	20	29	36	43	46	47
ե	0	1	ŝ	9	11	11	24	34	LRT	0	Ŋ		19				29
ctc	17	1	_			12		27	HST (Bs)	17	2			_	_		21
HST (Bs)	0	57	_			_		16	HST	0	59			_	_		17
LRT	0	49				1		14	Ե	0	39	51	0	7	14	17	18
CT	0	36	38	41	46	46	59	6	СŢ	0	36	48	57	4	11	14	15
ե	0	31	33	36	41	41	54	4	LRT	0	33		47				57
HST	0	30						48	Ե	0	15	27	36	43	50	53	54
V1 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ե	21	Ļ	ŝ	9	11	11	24	34	С	21	ŝ	15	24	31	38	41	42
HST	0	57	_		_	_		15	LRT	0	58	_	12	_	_	_	22
ե	0	31	33	36	41	41	54	4	Ъ	0	33	45	54	1	∞	11	12
LRT	0	19				31		44	HST (Bs)	0	24						43
С	20	1	ŝ	9	11	11	24	34	сŢ	20	ŝ	15	24	31	38	41	42
HST (Bs)	0	54						13	LRT	0	58		12				22
ე ე	0	31	33	36	41	41	54	4	HST	0	54						12
LRT	0	19	_	_	_	31	_	44	С	0	33	45	54	Ч	∞	11	12
С	0	1	S	9	11	11	24	34	ctc	0	13		33		_		44
ctc	19	1	_			12		27	Ъ	19	m	15	24	31	38	41	42
HST	0	57	_			_		15	CT	0	52	4	13	20	27	30	31
LRT	0	47				59		12	CT	0	48	0	6	16	23	26	27
ل ل	0	36	38	41	46	46	59	6	LRT	0	45	_	59		_	_	6
сı	0	31	33	36	41	41	54	4	С	0	27	39	48	55	2	Ŋ	9
LRT	0	19				31		44	ե	0	23	35	44	51	58	1	2
C	0	9	8	11	16	16	29	39	HST (Bs)	0	20						39
V1 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST	0	57	_			_	_	15	LRT	0	58	_	12	_	_		22
СŢ	0	31	33	36	41	41	54	4	СŢ	0	33	45	54	1	∞	11	12
LRT	0	19	_			31		44	HST (Bs)	0	24						43
C	0	2	4	7	12	12	25	35	СŢ	0	ŝ	15	24	31	38	41	42
HST (Bs)	0	57						16	LRT	0	58		12				22
5	0	31	33	36	41	41	54	4	Ե	0	33	45	54	1	∞	11	12
LRT	0	19	_	_	_	31	_	44	HST	0	24		_	_			42
С	23	1	ŝ	9	11	11	24	34	ن	23	ŝ	15	24	31	38	41	42
HST	0	57	_	_		_	_	15	LRT	0	58		12	_	_	_	22
Ե	0	31	33	36	41	41	54	4	HST (Bs)	0	54						13
LRT	0	19	_	_	_	31	_	44	CT	0	33	45	54	Ч	∞	11	12
С	0	Ч	ŝ	9	11	11	24	34	ctc	0	13		33	_			44
ctc	22	7	_	_	_	12	_	27	Ե	22	ŝ	15	24	31	38	41	42
HST (Bs)	0	57						16	LRT	0	58		12				22
ե	0	31	33	36	41	41	54	4	Ե	0	33	45	54	1	∞	11	12
LRT	0	19				31		44	HST	0	24		_	_			42
V1 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

٦ ل	0	7	6	12	17	17	30	47	LRT	0	12		26	_			36
ctc	0	9	_		_	17	_	32	CT	0	9	23	32	39	46	49	51
LRT	7	1			_	13	_	26	ctc	7	1		21	_			32
ctc	0	51				2		17	LRT	0	55		6				19
сŢ	0	41	43	46	51	51	4	21	HST	0	37			_			55
LRT	0	31	_		_	43	_	56	СŢ	0	31	48	57	4	11	14	16
HST	0	27	_	_	_	_	_	45	LRT	0	26	_	40	_	_	_	50
ط ل	0	11	13	16	21	21	34	51	ctc	0	14	_	34	_	_	_	45
HST (Bs)	0	10						29	HST (Bs)	0	ß	22					24
LRT	9	1		_	_	13	_	26	Ե	9	1	18	27	34	41	44	46
ctc	0	51			_	2		17	LRT	0	56		10	_			20
с	0	41	43	46	51	51	4	21	HST	0	37	_	_	_		_	55
HST (Bs)	0	40			_			59	Ե	0	31	48	57	4	11	14	16
LRT	0	31	_	_	_	43	_	56	ctc	0	14	_	34	_	_	_	45
HST	0	26						44	HST (Bs)	0	ß	22					24
с	ъ	11	13	16	21	21	34	51	С	ъ	1	18	27	34	41	44	46
V1 US3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	31	_			43		56	Ե	0	31	48	57	4	11	14	16
ر	0	10	12	15	20	20	33	50	HST (Bs)	0	ß	22					24
HST	6	1	_			_	_	19	Ъ	6	1	18	27	34	41	44	46
сŢ	0	52	54	57	2	2	15	32	HST	0	49						7
HST (Bs)	0	50	_			_	_	6	сŢ	0	48	ß	14	21	28	31	33
cŢ	0	37	39	42	47	47	0	17	CT	0	41	58	7	14	21	24	26
LRT	0	31	_			43	_	56	LRT	0	40		54		_		4
Ե	0	22	24	27	32	32	45	2	Ե	0	12	29	38	45	52	55	57
сŢ	0	7	6	12	17	17	30	47	LRT	0	12		26		_		36
LRT	8	1				13		26	ن	∞	9	23	32	39	46	49	51
CT	0	52	54	57	2	2	15	32	HST	0	49		_	_			7
HST (Bs)	0	49						∞	cŢ	0	48	ß	14	21	28	31	33
Ե	0	37	39	42	47	47	0	17	с	0	42	59	∞	15	22	25	27
LRT	0	31	_		_	43	_	56	LRT	0	40		54	_	_		4
Ե	0	22	24	27	32	32	45	2	HST (Bs)	0	37	54			_		56
HST	0	20	_		_	_	_	38	CT	0	12	29	38	45	52	55	57
V1 US3	•	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

С	0	11	13	16	21	21	34	51	HST (Bs)	0	ß	22		_			24
HST	13	1	_	_	_		_	19	С	13	1	18	27	34	41	44	46
٦ ل	0	41	43	46	51	51	4	21	LRT	0	56		10	_			20
LRT	0	31			_	43		56	HST	0	37			_			55
CT	0	11	13	16	21	21	34	51	C	0	31	48	57	4	11	14	16
HST (Bs)	12	1				_	_	20	CT	12	1	18	27	34	41	44	46
сŢ	0	41	43	46	51	51	4	21	LRT	0	56		10	_	_		20
LRT	0	31	_	_	_	43	_	56	ե	0	31	48	57	4	11	14	16
CT	0	11	13	16	21	21	34	51	HST (Bs)	0	Ŋ	22		_	_		24
HST	11	1	_	_	_	_	_	19	Ե	11	1	18	27	34	41	44	46
сŢ	0	41	43	46	51	51	4	21	LRT	0	56		10	_	_		20
LRT	0	31				43	_	56	HST	0	37			_			55
ت ا	0	11	13	16	21	21	34	51	Ե	0	31	48	57	4	11	14	16
ctc	0	ß	_	_	_	16	_	31	ctc	0	14		34	_	_		45
HST (Bs)	10	1						20	Ъ	10	1	18	27	34	41	44	46
СТ	0	41	43	46	51	51	4	21	LRT	0	56		10	_	_		20
V1 US3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST	0	20	_		_			38	Ъ	0	12	29	38	45	52	55	57
С	0	7	6	12	17	17	30	47	LRT	0	12		26	_	_		36
ctc	0	9			_	17		32	Ե	0	9	23	32	39	46	49	51
LRT	16	1		_	_	13		26	ctc	16	1		21	_			32
HST (Bs)	0	57			_			16	LRT	0	56		10	_			20
С	0	41	43	46	51	51	4	21	HST	0	37		_	_			55
LRT	0	31	_	_	_	43	_	56	CT	0	31	48	57	4	11	14	16
Ե	0	11	13	16	21	21	34	51	HST (Bs)	0	5	22					24
HST	15	1	_		_	_		19	CT	15	1	18	27	34	41	44	46
ե	0	41	43	46	51	51	4	21	LRT	0	56		10	_			20
LRT	0	31	_	_	_	43		56	HST	0	37		_	_	_		55
С	0	11	13	16	21	21	34	51	СŢ	0	31	48	57	4	11	14	16
HST (Bs)	14	1						20	ن	14	1	18	27	34	41	44	46
ctC	0	51	_	_	_	2		17	LRT	0	56	_	10	_	_		20
Ե	0	41	43	46	51	51	4	21	Ъ	0	31	48	57	4	11	14	16
LRT	0	31				43		56	ctc	0	14		34	_	_		45
V1 US3	1	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ե	0	7	6	12	17	17	30	47	С	0	9	23	32	39	46	49	51
LRT	18	Ч	_	_	_	13	_	26	ctc	18	Ч		21	_	_		32
٦ ل	0	52	54	57	2	2	15	32	HST	0	49	_	_	_		_	7
HST (Bs)	0	49	_		_	_	_	∞	CT	0	48	ъ	14	21	28	31	33
сŢ	0	37	39	42	47	47	0	17	CT	0	42	59	∞	15	22	25	27
LRT	0	31			_	43	_	56	LRT	0	40	_	54	_	_		4
ر ا	0	22	24	27	32	32	45	2	HST (Bs)	0	37	54					56
HST	0	20	_		_	_	_	38	ن	0	12	29	38	45	52	55	57
С	0	7	6	12	17	17	30	47	LRT	0	12		26	_			36
ctc	0	9			_	17		32	Ե	0	9	23	32	39	46	49	51
LRT	17	Ч		_	_	13	_	26	ctc	17	Ч		21	_		_	32
ۍ ۲	0	52	54	57	2	2	15	32	HST	0	49			_			7
HST (Bs)	0	49						∞	Ъ	0	48	ß	14	21	28	31	33
сŢ	0	37	39	42	47	47	0	17	СŢ	0	42	59	∞	15	22	25	27
LRT	0	31		_	_	43		56	LRT	0	40		54	_			4
ط ح	0	22	24	27	32	32	45	2	HST (Bs)	0	37	54			_		56
V1 US3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST (Bs)	21	1						20	Ъ	21	1	18	27	34	41	44	46
С	0	41	43	46	51	51	4	21	LRT	0	56	_	10	_	_	_	20
LRT	0	31	_	_	_	43		56	Ե	0	31	48	57	4	11	14	16
СŢ	0	11	13	16	21	21	34	51	HST (Bs)	0	Ŋ	22		_	_		24
HST (Bs)	20	1	_		_			20	СŢ	20	1	18	27	34	41	44	46
ctc	0	51				2		17	LRT	0	56		10				20
С	0	41	43	46	51	51	4	21	HST	0	37						55
HST	0	31	_		_			49	Ե	0	31	48	57	4	11	14	16
С	0	11	13	16	21	21	34	51	ctc	0	14		34	_	_		45
LRT	19	1			_	13		26	Ъ	19	1	18	27	34	41	44	46
С	0	52	54	57	2	2	15	32	CT	0	48	ъ	14	21	28	31	33
ctc	0	49	_	_	_	0		15	сŢ	0	41	58	7	14	21	24	26
ե	0	37	39	42	47	47	0	17	LRT	0	40		54	_	_		4
LRT	0	31	_	_	_	43		56	HST (Bs)	0	37	54		_	_	_	56
Ե	0	22	24	27	32	32	45	2	Ե	0	12	29	38	45	52	55	57
HST	0	19						37	LRT	0	12		26				36
V1 US3	•	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ط ل	0	41	43	46	51	51	4	21	LRT	0	57		11				21
LRT	0	31	_			43	_	56	СŢ	0	31	48	57	4	11	14	16
ե	0	11	13	16	21	21	34	51	HST (Bs)	0	5	22					24
HST	0	Ч	_			_	_	19	сŢ	0	Ч	18	27	34	41	44	46
CT	0	41	43	46	51	51	4	21	LRT	0	56		10	_	_		20
LRT	0	31	_		_	43	_	56	HST	0	37				_		55
ե	0	11	13	16	21	21	34	51	Ե	0	31	48	57	4	11	14	16
HST (Bs)	23	Ч	_				_	20	с	23	Ч	18	27	34	41	44	46
ctc	0	51	_			2	_	17	LRT	0	56		10	_			20
ե	0	41	43	46	51	51	4	21	ن	0	31	48	57	4	11	14	16
LRT	0	31	_			43		56	ctc	0	14		34				45
СŢ	0	11	13	16	21	21	34	51	HST (Bs)	0	ß	22					24
HST	22	Ч	_	_	_	_	_	19	с	22	Ч	18	27	34	41	44	46
СŢ	0	41	43	46	51	51	4	21	LRT	0	56		10	_	_		20
LRT	0	31	_			43		56	HST	0	37						55
C	0	11	13	16	21	21	34	51	CT	0	31	48	57	4	11	14	16
V1 US3	1	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

Ե	0	9	8	11	16	16	29	39	С	0	∞	20	29	36	43	46	47
сŢ	0	1	ŝ	9	11	11	24	34	СŢ	0	4	16	25	32	39	42	43
HST	7	Ч	_	_	_	_	_	20	LRT	7	Ч	_	17	_	_	_	27
ctc	0	51	_			2		17	HST (Bs)	0	57	6		_			17
LRT	0	45	_		_	57		12	LRT	0	48	_	4	_	_		14
С	0	31	33	36	41	41	54	4	сŢ	0	31	43	52	59	9	6	10
HST (Bs)	0	27	_					47	HST	0	28						47
LRT	0	15	_			27		42	LRT	0	18		34	_			44
с	0	1	ŝ	9	11	11	24	34	ctc	0	6		29				40
HST	9	1	_		_			20	Ъ	9	Ч	13	22	29	36	39	40
ctc	0	50				1		16	HST (Bs)	0	57	6					17
LRT	0	45	_		_	57		12	LRT	0	48	_	4		_	_	14
ե	0	31	33	36	41	41	54	4	Ե	0	31	43	52	59	9	6	10
HST (Bs)	0	27						47	HST	0	28						47
ե	0	1	ŝ	9	11	11	24	34	ctc	0	6		29	_			40
HST	ъ	Ч	_					20	сŢ	ъ	Ч	13	22	29	36	39	40
V1 US4	•	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

٦ ل	0	31	33	36	41	41	54	4	Ъ	0	31	43	52	59	9	6	10
CT	6	1	ŝ	9	11	11	24	34	CT	6	1	13	22	29	36	39	40
LRT	0	47				59		14	Ե	0	43	55	4	11	18	21	22
С	0	36	38	41	46	46	59	6	С	0	39	51	0	7	14	17	18
CT	0	31	33	36	41	41	54	4	LRT	0	36		52	_	_		2
HST (Bs)	0	31						51	HST (Bs)	0	33	45					53
LRT	0	17	_	_	_	29	_	44	HST	0	28	_	_	_	_	_	47
ۍ	0	9	∞	11	16	16	29	39	Ъ	0	∞	20	29	36	43	46	47
СŢ	0	1	ŝ	9	11	11	24	34	CT	0	4	16	25	32	39	42	43
HST	8	1			_			20	LRT	∞	1		17	_			27
LRT	0	47			_	59	_	14	ctc	0	52		12	_			23
С	0	36	38	41	46	46	59	6	C	0	43	55	4	11	18	21	22
Ъ	0	31	33	36	41	41	54	4	Ъ	0	39	51	0	7	14	17	18
HST (Bs)	0	31						51	LRT	0	36		52				2
ctc	0	22		_	_	33		48	HST (Bs)	0	33	45	_	_			53
LRT	0	17				29		44	HST	0	28						47
V1 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

Ъ	0	Ļ	ŝ	9	11	11	24	34	ctc	0	6		29	_	_		40
HST	13	1	_			_		20	С	13	1	13	22	29	36	39	40
LRT	0	45	_			57	_	12	HST (Bs)	0	57	6		_	_		17
IJ	0	31	33	36	41	41	54	4	LRT	0	48	_	4	_	_	_	14
HST (Bs)	0	27	_			_	_	47	CT	0	31	43	52	59	9	6	10
ե	12	1	ŝ	9	11	11	24	34	Ե	12	1	13	22	29	36	39	40
LRT	0	45	_			57	_	12	LRT	0	48		4	_			14
ե	0	31	33	36	41	41	54	4	Ե	0	31	43	52	59	9	6	10
сŢ	0	1	ŝ	9	11	11	24	34	HST	0	28						47
HST	11	Ч	_	_	_	_	_	20	С	11	Ч	13	22	29	36	39	40
ctc	0	50				1		16	HST (Bs)	0	57	6					17
LRT	0	45	_	_	_	57	_	12	LRT	0	48	_	4	_	_	_	14
ե	0	31	33	36	41	41	54	4	Ե	0	31	43	52	59	9	6	10
HST (Bs)	0	27						47	ctc	0	6		29				40
ե	10	1	ŝ	9	11	11	24	34	Ե	10	1	13	22	29	36	39	40
LRT	0	45	_			57		12	LRT	0	48		4				14
V1 US4	-	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	17	_		_	29		44	HST	0	28	_		_	_		47
СŢ	0	9	∞	11	16	16	29	39	СŢ	0	8	20	29	36	43	46	47
ۍ ۲	0	1	ŝ	9	11	11	24	34	Ե	0	4	16	25	32	39	42	43
HST	16	1	_		_	_		20	LRT	16	1	_	17	_	_		27
LRT	0	45	_		_	57		12	HST (Bs)	0	57	6		_	_		17
С	0	31	33	36	41	41	54	4	LRT	0	48		4	_			14
HST (Bs)	0	27		_	_			47	С	0	31	43	52	59	9	6	10
Ъ	0	Ч	ŝ	9	11	11	24	34	HST	0	28	_	_	_	_		47
HST	15	1			_			20	С	15	7	13	22	29	36	39	40
LRT	0	45				57		12	HST (Bs)	0	57	6					17
С	0	31	33	36	41	41	54	4	LRT	0	48		4	_			14
HST (Bs)	0	27						47	CT	0	31	43	52	59	9	6	10
С	14	1	ŝ	9	11	11	24	34	Ե	14	1	13	22	29	36	39	40
ctc	0	50	_		_	1		16	LRT	0	48		4	_	_		14
LRT	0	45	_		_	57		12	Ъ	0	31	43	52	59	9	6	10
ۍ ۲	0	31	33	36	41	41	54	4	HST	0	28			_			47
V1 US4	I	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

٦ ل	0	Ļ	ŝ	9	11	11	24	34	Ъ	0	4	16	25	32	39	42	43
HST	18	Ч	_					20	LRT	18	1		17	_			27
LRT	0	47				59		14	ctc	0	52		12				23
сŢ	0	36	38	41	46	46	59	6	СŢ	0	43	55	4	11	18	21	22
сŢ	0	31	33	36	41	41	54	4	сŢ	0	39	51	0	7	14	17	18
HST (Bs)	0	31						51	LRT	0	36		52				2
ctc	0	22	_		_	33		48	HST (Bs)	0	33	45	_	_			53
LRT	0	17	_			29		44	HST	0	28			_			47
ر ا	0	9	∞	11	16	16	29	39	С	0	∞	20	29	36	43	46	47
ط ل	0	1	ŝ	9	11	11	24	34	Ե	0	4	16	25	32	39	42	43
HST	17	1	_					20	LRT	17	1		17	_	_		27
LRT	0	47				59		14	ctc	0	52		12				23
ե	0	36	38	41	46	46	59	6	Ե	0	43	55	4	11	18	21	22
СŢ	0	31	33	36	41	41	54	4	CT	0	39	51	0	7	14	17	18
HST (Bs)	0	31						51	LRT	0	36		52				2
ctc	0	22	_		_	33		48	HST (Bs)	0	33	45		_			53
V1 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

٦ ۲	21	4	ŝ	9	11	11	24	34	പ	21	1	13	22	29	36	39	40
LRT	0	45			_	57		12	LRT	0	48		4	_			14
Ե	0	31	33	36	41	41	54	4	Ъ	0	31	43	52	59	9	6	10
СŢ	0	1	ŝ	9	11	11	24	34	HST	0	28						47
HST	20	1			_			20	С	20	1	13	22	29	36	39	40
ctc	0	50				1		16	HST (Bs)	0	57	6					17
LRT	0	45	_	_	_	57	_	12	LRT	0	48	_	4	_	_	_	14
Ъ	0	31	33	36	41	41	54	4	С	0	31	43	52	59	9	6	10
HST (Bs)	0	27	_					47	ctc	0	6		29		_		40
Ե	19	1	ŝ	9	11	11	24	34	Ե	19	1	13	22	29	36	39	40
LRT	0	47			_	59		14	ctc	0	52		12	_			23
сŢ	0	36	38	41	46	46	59	6	CT	0	43	55	4	11	18	21	22
ե	0	31	33	36	41	41	54	4	Ե	0	39	51	0	7	14	17	18
ctc	0	22			_	33		48	LRT	0	36		52	_			2
LRT	0	17			_	29		44	HST	0	28		_	_			47
ۍ ۲	0	7	6	12	17	17	30	40	С	0	∞	20	29	36	43	46	47
V1 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	45				57		12	LRT	0	48		4	_			14
СŢ	0	31	33	36	41	41	54	4	СT	0	31	43	52	59	9	6	10
ե	0	1	£	9	11	11	24	34	HST	0	28			_			47
HST	0	1	_			_		20	С	0	1	13	22	29	36	39	40
LRT	0	45	_			57		12	HST (Bs)	0	57	6		_			17
СŢ	0	31	33	36	41	41	54	4	LRT	0	48		4	_	_		14
HST (Bs)	0	27	_			_		47	CT	0	31	43	52	59	9	6	10
с	23	1	ß	9	11	11	24	34	С	23	1	13	22	29	36	39	40
ctc	0	50	_			1	_	16	LRT	0	48	_	4	_	_		14
LRT	0	45	_		_	57	_	12	С	0	31	43	52	59	9	6	10
С	0	31	33	36	41	41	54	4	HST	0	28			_			47
с	0	Ļ	ŝ	9	11	11	24	34	ctc	0	6		29	_			40
HST	22	1	_			_	_	20	С	22	1	13	22	29	36	39	40
LRT	0	45				57		12	HST (Bs)	0	57	6					17
С	0	31	33	36	41	41	54	4	LRT	0	48	_	4	_	_	_	14
HST (Bs)	0	27						47	сŢ	0	31	43	52	59	9	6	10
V1 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

5 0 0 0 0 0 0 6 10 10 10 21 31 40 40 1 1 12 1 1 1 1 40 40 1 1 12 1 1 1 1 40 40 1 1 15 1 1 1 1 1 40 40 1 1 20 32 43 1 1 45 1 45 1 1 20 32 43 47 56 58 13 26 13 29 43 47 56 58 13 26 1 1 1 22 6 31 52 56 1 1 13 13 1 1 50 1 1 1 1 1 1 1 13 1 1 56 31 52 56 1 1 1 1 1	V2 US1-2	HST (Bs)	Ъ	ctc	LRT	HST	CT	LRT	HST (Bs)	с	ctc	С	LRT	HST	ե	LRT	HST (Bs)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		ۍ ا	0	0	0	0	0	9	0	0	0	0	0	0	0	7	0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Göteborg	10	10	21	31	40	40	1	10	10	21	30	41	50	50	1	10
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Haga		12				42	_		12	_	32		_	52	_	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Korsvägen		15				45	_		15	_	35		_	55	_	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mölnlycke	_	20	_	_	_	50	_		20	_	40	_	_	0	_	
1 33 1 1 3 1 29 43 47 56 58 13 26 7 HST (Bs) LRT CT HST CC 7 26 5 0 0 0 0 0 6 1 1 13 1 1 52 26 31 52 56 1 1 13 1 1 52 26 31 52 56 1 13 13 1 1 43 1 1 1 13 1 1 13 22 1 40 52 1 16 22 26 23 26 23 23 1 1 52 1 16 22 23 26 23 26 23 26 23 26 23 26 23 26 23 26 23 26 23 26 23 26 23 26 23 23 26 23	Landvetter	_	20	32	43		50	13		20	32	40	53	_	0	13	
29 43 47 56 58 13 26 7 HST (Bs) LRT CT HST Ct 13 26 5 0 0 0 0 0 6 1 13 1 1 26 1 1 26 1 1 26 1 1 26 1 1 26 1 1 26 1 1 26 1 1 26 1 1 26 1 1 23 26 1 1 23 26 1 1 23 1 1 1 23 1 1 1 23 26 1 1 23 36 1 1 23 36 1 1 23 36 <t< td=""><td>Bollebygd</td><td>_</td><td>33</td><td></td><td></td><td></td><td>3</td><td>_</td><td></td><td>33</td><td>_</td><td>53</td><td>_</td><td>_</td><td>13</td><td>_</td><td></td></t<>	Bollebygd	_	33				3	_		33	_	53	_	_	13	_	
CT HST (Bs) LRT CT HST CtC CT 5 0 0 0 0 0 6 1 22 26 31 52 56 1 13 1 1 43 1 1 13 13 1 1 52 56 1 13 22 1 43 1 16 13 1 22 1 40 52 1 16 22 29 1 59 1 16 23 36 1 6 1 1 29 37 50 10 20 27 36 40 41 50 10 10 27	Borås	29	43	47	56	58	13	26	29	43	47	ŝ	9	∞	23	26	29
CT HST (Bs) LRT CT HST CtC CT 5 0 0 0 0 0 6 7 1 22 26 31 52 56 1 13 13 1 1 43 1 52 56 1 13 22 1 43 1 16 22 22 1 13 22 1 40 52 1 16 22 22 23 1 1 52 1 26 1 23 36 1 1 59 1 16 23 36 30 1 9 10 27 29 36 36 30 10 20 27 36 36 36 36																	
5 0 0 0 0 6 1 22 26 31 52 56 1 13 1 1 43 1 1 13 22 1 43 1 1 13 22 1 40 52 1 16 22 22 1 10 52 1 16 22 36 1 1 59 1 1 29 33 1 1 6 1 1 29 39 1 9 10 27 36 40 20 10 10 27 30		CT	HST (Bs)	LRT	ե	HST	ctc	ե	HST (Bs)	LRT	CT	HST	LRT	ctc	ե	Ċ	HST (Bs)
1 22 26 31 52 56 1 13 1 1 43 1 1 13 22 1 40 52 1 16 22 29 1 1 59 1 16 22 36 1 1 6 1 1 36 39 1 9 1 9 36 36 40 41 50 10 10 27 40		ъ	0	0	0	0	0	9	0	0	0	0	0	0	0	7	0
13 43 13 22 40 52 16 22 29 59 29 36 6 29 39 9 1 36 40 41 50 10 10 27 40	Borås	1	22	26	31	52	56	1	21	24	27	48	51	54	58	1	21
22 40 52 16 22 29 59 29 36 6 29 39 9 1 36 40 41 50 10 10 27 40	Bollebygd	13			43		_	13		_	39	_	_	_	10	13	
29 59 1 29 36 6 36 39 9 39 40 41 50 10 10 27 40	Landvetter	22	_	40	52	_	16	22		38	48	_	ß	14	19	22	
36 1 1 6 1 1 36 39 1 1 9 1 1 39 40 41 50 10 10 27 40	Mölnlycke	29	_		59		_	29		_	55	_		_	26	29	
39 9 39 40 41 50 10 10 27 40	Korsvägen	36			9		_	36			2			_	33	36	
40 41 50 10 10 27 40	Haga	39			6			39			ß			_	36	39	
)	Göteborg	40	41	50	10	10	27	40	40	48	9	9	15	25	37	40	40

LRT	0	41	_			53	_	9	LRT	0	51		ß	_	_		15
СŢ	0	30	32	35	40	40	53	£	СŢ	0	27	39	48	55	2	S	9
٦ ل	0	10	12	15	20	20	33	43	HST (Bs)	0	21			_	_	_	40
HST (Bs)	6	10	_			_	_	29	СŢ	6	1	13	22	29	36	39	40
СŢ	0	50	52	55	0	0	13	23	CT	0	58	10	19	26	33	36	37
HST	0	50	_				_	8	LRT	0	51		ß	_	_		15
LRT	0	41	_			53	_	9	HST	0	48			_	_		9
Ե	0	30	32	35	40	40	53	£	Ъ	0	27	39	48	55	2	ß	9
сŢ	0	10	12	15	20	20	33	43	LRT	0	24		38	_	_		48
LRT	8	1				13		26	Ъ	∞	1	13	22	29	36	39	40
CT	0	50	52	55	0	0	13	23	СŢ	0	58	10	19	26	33	36	37
HST	0	50	_			_	_	8	ctc	0	54		14	_	_	_	25
LRT	0	41	_			53		9	LRT	0	51		ß	_			15
٦ ۲	0	30	32	35	40	40	53	ε	HST	0	48			_			9
ctc	0	21				32		47	Ե	0	27	39	48	55	2	5	9
С	0	10	12	15	20	20	33	43	LRT	0	24		38				48
V2 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ۍ ۲	0	40	42	45	50	50	ŝ	13	HST	0	52			_			10
HST	0	40			_			58	Ե	0	31	43	52	59	9	6	10
LRT	0	31	_	_	_	43	_	56	LRT	0	26		40	_	_		50
СŢ	12	10	12	15	20	20	33	43	СŢ	12	1	13	22	29	36	39	40
Ъ	0	50	52	55	0	0	13	23	С	0	58	10	19	26	33	36	37
LRT	0	41				53		9	LRT	0	51		ß	_			15
C	0	30	32	35	40	40	53	ſ	С	0	27	39	48	55	2	IJ	9
Ե	0	10	12	15	20	20	33	43	HST (Bs)	0	21		_	_			40
HST (Bs)	11	10						29	Ե	11	1	13	22	29	36	39	40
ե	0	50	52	55	0	0	13	23	Ե	0	58	10	19	26	33	36	37
HST	0	50			_			∞	ctc	0	54		14	_			25
LRT	0	41			_	53	_	9	HST	0	48			_			9
ե	0	30	32	35	40	40	53	ß	Ե	0	27	39	48	55	2	5	9
ctc	0	21		_	_	32	_	47	LRT	0	24		38	_			48
ե	10	10	12	15	20	20	33	43	Ե	10	1	13	22	29	36	39	40
С	0	50	52	55	0	0	13	23	С	0	58	10	19	26	33	36	37
V2 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	16	1	_			13		26	Ъ	16	1	13	22	29	36	39	40
сŢ	0	50	52	55	0	0	13	23	CT	0	58	10	19	26	33	36	37
HST	0	50	_	_	_	_	_	∞	LRT	0	51	_	ß	_	_		15
сŢ	0	30	32	35	40	40	53	ŝ	HST	0	48			_			9
С	0	10	12	15	20	20	33	43	сŢ	0	27	39	48	55	2	ß	9
HST (Bs)	0	10				_		29	HST (Bs)	0	21						40
LRT	15	1	_	_	_	13		26	сŢ	15	1	13	22	29	36	39	40
٦ ل	0	40	42	45	50	50	ŝ	13	HST	0	52						10
HST	0	40	_	_	_	_		58	СТ	0	31	43	52	59	9	6	10
LRT	0	31			_	43		56	LRT	0	26	_	40				50
С	14	10	12	15	20	20	33	43	СT	14	Ч	13	22	29	36	39	40
сŢ	0	40	42	45	50	50	ŝ	13	ctc	0	56	_	16				27
LRT	0	31	_	_	_	43	_	56	С	0	31	43	52	59	9	6	10
ctc	0	21	_	_	_	32	_	47	LRT	0	26		40				50
ل ل	0	10	12	15	20	20	33	43	HST (Bs)	0	22	_	_		_		41
HST (Bs)	13	10						29	CT	13	1	13	22	29	36	39	40
V2 US1-2	•	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	18	1				13		26	с	18	1	13	22	29	36	39	40
сŢ	0	50	52	55	0	0	13	23	CT	0	58	10	19	26	33	36	37
HST	0	50	_					8	ctc	0	54		14				25
LRT	0	41	_			53		9	LRT	0	51		ß				15
С	0	30	32	35	40	40	53	£	HST	0	48						9
ctc	0	21	_	_	_	32		47	С	0	27	39	48	55	2	5	9
C	0	10	12	15	20	20	33	43	LRT	0	24		38	_	_		48
HST (Bs)	0	10						29	HST (Bs)	0	21						40
LRT	17	1	_	_	_	13		26	CT	17	1	13	22	29	36	39	40
Ъ	0	50	52	55	0	0	13	23	С	0	58	10	19	26	33	36	37
HST	0	50	_	_	_			∞	ctc	0	54		14	_			25
LRT	0	41	_	_	_	53		9	LRT	0	51		ß	_	_		15
ե	0	30	32	35	40	40	53	ŝ	HST	0	48			_			9
ctc	0	21	_	_	_	32		47	С	0	27	39	48	55	2	ß	9
ե	0	10	12	15	20	20	33	43	LRT	0	24		38	_	_		48
HST (Bs)	0	10						29	HST (Bs)	0	21						40
V2 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

٦ ل	21	10	12	15	20	20	33	43	сı	21	Ч	13	22	29	36	39	40
CT	0	40	42	45	50	50	ŝ	13	СŢ	0	31	43	52	59	9	6	10
LRT	0	31	_	_		43	_	56	LRT	0	26		40	_			50
С	0	10	12	15	20	20	33	43	HST (Bs)	0	22			_			41
HST (Bs)	20	10	_					29	СŢ	20	1	13	22	29	36	39	40
С	0	40	42	45	50	50	ŝ	13	ctc	0	56		16	_			27
LRT	0	31	_			43		56	HST	0	52			_			10
ctc	0	21	_	_		32	_	47	Ъ	0	31	43	52	59	9	6	10
CT	19	10	12	15	20	20	33	43	LRT	0	26		40	_	_		50
ط ل	0	50	52	55	0	0	13	23	ن	19	1	13	22	29	36	39	40
HST	0	50	_	_		_	_	8	СŢ	0	58	10	19	26	33	36	37
LRT	0	41	_		_	53	_	9	ctc	0	54		14	_	_		25
ե	0	30	32	35	40	40	53	ŝ	LRT	0	51		ß	_			15
ctc	0	21	_	_	_	32	_	47	С	0	27	39	48	55	2	Ŋ	9
Ե	0	10	12	15	20	20	33	43	LRT	0	24		38	_			48
HST (Bs)	0	10	_				_	29	HST (Bs)	0	21			_	_		40
V2 US1-2		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ط ل	0	40	42	45	50	50	ŝ	13	Ъ	0	31	43	52	59	9	6	10
LRT	0	31				43		56	LRT	0	26		40				50
ե	0	10	12	15	20	20	33	43	HST (Bs)	0	22						41
HST (Bs)	0	10	_	_			_	29	CT	0	1	13	22	29	36	39	40
CT	0	40	42	45	50	50	ŝ	13	HST	0	52	_					10
HST	0	40			_	_		58	СŢ	0	31	43	52	59	9	6	10
LRT	0	31			_	43		56	LRT	0	26		40	_			50
ե	23	10	12	15	20	20	33	43	Ե	23	1	13	22	29	36	39	40
с	0	40	42	45	50	50	ŝ	13	ctc	0	56		16				27
LRT	0	31			_	43		56	ե	0	31	43	52	59	9	6	10
ctc	0	21				32		47	LRT	0	26		40				50
С	0	10	12	15	20	20	33	43	HST (Bs)	0	22						41
HST (Bs)	22	10			_			29	Ե	22	1	13	22	29	36	39	40
сŢ	0	40	42	45	50	50	ŝ	13	HST	0	52		_	_	_		10
HST	0	40						58	Ե	0	31	43	52	59	9	6	10
LRT	0	31				43		56	LRT	0	26		40				50
V2 US1-2	-	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ե	0	9	8	11	16	16	29	46	с	0	9	23	32	39	46	49	51
LRT	7	1	_			13		26	CT	7	1	18	27	34	41	44	46
ۍ ۲	0	46	48	51	56	56	6	26	ctc	0	50		10				21
LRT	0	43				55		∞	LRT	0	42		56				9
HST	0	41	_				_	59	HST	0	39						57
СŢ	0	26	28	31	36	36	49	9	CT	0	36	53	2	6	16	19	21
ctc	0	24				35		50	LRT	0	30		44				54
HST (Bs)	0	21						40	HST (Bs)	0	7	24					26
С	0	9	8	11	16	16	29	46	сŢ	0	9	23	32	39	46	49	51
LRT	9	7	_		_	13	_	26	Ե	9	1	18	27	34	41	44	46
HST (Bs)	0	56	_			_	_	15	ctc	0	50		10		_		21
С	0	36	38	41	46	46	59	16	HST	0	39			_	_		57
LRT	0	31	_			43	_	56	С	0	36	53	2	6	16	19	21
HST	0	26	_				_	44	LRT	0	30		44				54
ت ل	0	9	∞	11	16	16	29	46	HST (Bs)	0	7	24					26
ctc	ъ	Ļ	_		_	12		27	сŢ	ъ	9	23	32	39	46	49	51
V2 US3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

с	0	26	28	31	36	36	49	9	с	0	36	53	2	6	16	19	21
HST (Bs)	0	21			_			40	LRT	0	30		44	_			54
Ъ	0	9	∞	11	16	16	29	46	С	0	9	23	32	39	46	49	51
LRT	6	Ч				13		26	сŢ	6	Ч	18	27	34	41	44	46
СŢ	0	46	48	51	56	56	6	26	LRT	0	42		56	_	_		9
LRT	0	43				55		∞	С	0	36	53	2	6	16	19	21
HST	0	41						59	LRT	0	30		44				54
Ъ	0	26	28	31	36	36	49	9	HST (Bs)	0	7	24					26
СŢ	0	9	∞	11	16	16	29	46	СŢ	0	9	23	32	39	46	49	51
LRT	∞	1				13		26	С	∞	1	18	27	34	41	44	46
СŢ	0	46	48	51	56	56	6	26	ctc	0	50		10	_	_	_	21
LRT	0	43	_			55		∞	LRT	0	42		56	_		_	9
HST	0	41						59	HST	0	39						57
ط حا	0	26	28	31	36	36	49	9	сŢ	0	36	53	2	6	16	19	21
ctc	0	24			_	35		50	LRT	0	30	_	44	_	_	_	54
HST (Bs)	0	21						40	HST (Bs)	0	7	24					26
V2 US3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST (Bs)	0	56						15	HST	0	39						57
CT	0	36	38	41	46	46	59	16	CT	0	36	53	2	6	16	19	21
LRT	0	31	_			43		56	LRT	0	30		44	_	_		54
CT	12	9	8	11	16	16	29	46	СT	12	9	23	32	39	46	49	51
сŢ	0	46	48	51	56	56	6	26	CT	0	36	53	2	6	16	19	21
СŢ	0	26	28	31	36	36	49	9	LRT	0	30		44	_	_	_	54
HST (Bs)	0	21						40	HST (Bs)	0	7	24					26
Ե	0	9	8	11	16	16	29	46	С	0	9	23	32	39	46	49	51
LRT	11	Ч	_		_	13		26	CT	11	1	18	27	34	41	44	46
Ե	0	46	48	51	56	56	6	26	ctc	0	50		10	_			21
HST	0	41	_					59	HST	0	39			_			57
С	0	26	28	31	36	36	49	9	СŢ	0	36	53	2	6	16	19	21
ctc	0	24	_			35		50	LRT	0	30		44	_			54
С	0	9	∞	11	16	16	29	46	С	0	9	23	32	39	46	49	51
LRT	10	Ļ	_		_	13		26	Ъ	10	Ч	18	27	34	41	44	46
ს კ	0	46	48	51	56	56	6	26	HST	0	39			_			57
V2 US3	•	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	16	Ļ	_		_	13	_	26	с	16	Ч	18	27	34	41	44	46
с	0	46	48	51	56	56	6	26	HST	0	39			_			57
HST	0	41	_		_	_	_	59	сJ	0	36	53	2	6	16	19	21
C	0	26	28	31	36	36	49	9	LRT	0	30	_	44	_	_	_	54
HST (Bs)	0	21			_			40	HST (Bs)	0	7	24		_			26
С	0	9	∞	11	16	16	29	46	С	0	9	23	32	39	46	49	51
LRT	15	1				13		26	СŢ	15	1	18	27	34	41	44	46
ե	0	36	38	41	46	46	59	16	HST	0	39		_	_			57
LRT	0	31	_		_	43	_	56	С	0	36	53	2	6	16	19	21
HST (Bs)	0	26						45	LRT	0	30		44				54
C	14	9	∞	11	16	16	29	46	С	14	9	23	32	39	46	49	51
C	0	36	38	41	46	46	59	16	ctc	0	50		10				21
LRT	0	31				43		56	Ъ	0	36	53	2	6	16	19	21
HST	0	26	_		_	_	_	44	LRT	0	30		44	_	_	_	54
Ե	0	9	8	11	16	16	29	46	HST (Bs)	0	7	24					26
ctc	13	1	_		_	12	_	27	CT	13	9	23	32	39	46	49	51
V2 US3	1	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	18	1				13		26	с	18	1	18	27	34	41	44	46
сŢ	0	46	48	51	56	56	6	26	ctc	0	50	_	10	_	_	_	21
LRT	0	43				55		∞	LRT	0	42		56				9
HST	0	41		_	_	_		59	HST	0	39			_			57
С	0	26	28	31	36	36	49	9	сŢ	0	36	53	2	6	16	19	21
ctc	0	24	_	_	_	35	_	50	LRT	0	30	_	44	_	_	_	54
HST (Bs)	0	21			_			40	HST (Bs)	0	7	24	_	_			26
Ե	0	26	28	31	36	36	49	9	Ե	0	9	23	32	39	46	49	51
LRT	17	Ļ			_	13		26	сŢ	17	Ч	18	27	34	41	44	46
ե	0	46	48	51	56	56	6	26	ctc	0	50		10	_			21
LRT	0	43			_	55		∞	LRT	0	42		56	_			9
HST	0	41	_	_	_	_	_	59	HST	0	39	_		_	_	_	57
ե	0	26	28	31	36	36	49	9	Ե	0	36	53	2	6	16	19	21
ctc	0	24	_	_	_	35	_	50	LRT	0	30	_	44	_	_	_	54
HST (Bs)	0	21						40	HST (Bs)	0	7	24					26
С	0	9	∞	11	16	16	29	46	сŢ	0	9	23	32	39	46	49	51
V2 US3		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ط ل	21	9	∞	11	16	16	29	46	Ե	21	9	23	32	39	46	49	51
HST (Bs)	0	56			_			15	CT	0	36	53	2	6	16	19	21
Ъ	0	36	38	41	46	46	59	16	LRT	0	30	_	44	_	_	_	54
LRT	0	31				43		56	HST (Bs)	0	7	24					26
с	20	9	∞	11	16	16	29	46	ст	20	9	23	32	39	46	49	51
сŢ	0	36	38	41	46	46	59	16	ctc	0	50		10				21
LRT	0	31				43		56	HST	0	39						57
HST	0	26						44	Ե	0	36	53	2	6	16	19	21
CT	0	9	∞	11	16	16	29	46	LRT	0	30	_	44				54
ctc	19	1			_	12		27	Ե	19	9	23	32	39	46	49	51
с	0	46	48	51	56	56	6	26	ctc	0	52		12				23
LRT	0	43	_		_	55		8	LRT	0	42		56	_			9
٦ ۲	0	26	28	31	36	36	49	9	Ե	0	36	53	2	6	16	19	21
ctc	0	24	_		_	35		50	LRT	0	30		44		_		54
HST (Bs)	0	21						40	HST (Bs)	0	7	24					26
сŢ	0	9	∞	11	16	16	29	46	CT	0	9	23	32	39	46	49	51
V2 US3	I	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ե	0	36	38	41	46	46	59	16	പ	0	36	53	2	6	16	19	21
LRT	0	31				43		56	LRT	0	30		44	_			54
HST	0	26						44	HST (Bs)	0	7	24					26
C	0	9	∞	11	16	16	29	46	СŢ	0	9	23	32	39	46	49	51
HST (Bs)	0	56						15	HST	0	39						57
сŢ	0	36	38	41	46	46	59	16	СŢ	0	36	53	2	6	16	19	21
LRT	0	31	_		_	43		56	LRT	0	30		44	_	_		54
С	23	9	8	11	16	16	29	46	Ъ	23	9	23	32	39	46	49	51
CT	0	36	38	41	46	46	59	16	ctc	0	50		10	_	_		21
LRT	0	31	_			43	_	56	ե	0	36	53	2	6	16	19	21
HST	0	26	_					44	LRT	0	30		44	_	_		54
Ъ	0	9	8	11	16	16	29	46	HST (Bs)	0	7	24		_	_		26
ctc	22	Ч	_	_	_	12	_	27	Ե	22	9	23	32	39	46	49	51
HST (Bs)	0	56	_					15	HST	0	39			_	_		57
с	0	36	38	41	46	46	59	16	Ъ	0	36	53	2	6	16	19	21
LRT	0	31	_			43	_	56	LRT	0	30		44	_	_		54
V2 US3	_	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

ط ل	0	1	ŝ	9	11	11	24	34		Ե	0	5	17	26	33	40	43	44
HST (Bs)	7	1						21		HST	7	2						21
LRT	0	51	_		_	ŝ		18		LRT	0	52	_	∞	_			18
СŢ	0	41	43	46	51	51	4	14		ctc	0	43	_	ŝ	_	_		14
ctc	0	41	_		_	52		7		сŢ	0	35	47	56	ŝ	10	13	14
HST	0	38	_		_	_		57		CT	0	31	43	52	59	9	6	10
c	0	21	23	26	31	31	44	54		LRT	0	28		44	_			54
LRT	0	11	_			23		38		HST (Bs)	0	24	36		_			44
c	0	1	ŝ	9	11	11	24	34		СТ	0	ß	17	26	33	40	43	44
HST (Bs)	9	1						21		HST	9	2						21
LRT	0	51	_		_	ŝ		18		ctc	0	44	_	4	_	_		15
HST	0	48	_					7		сŢ	0	35	47	56	ŝ	10	13	14
ե	0	31	33	36	41	41	54	4		LRT	0	31		47				57
HST (Bs)	0	28	_					48		HST (Bs)	0	25	37		_	_		45
ctc	0	15				26		41		Ե	0	5	17	26	33	40	43	44
CT	ъ	Ч	ŝ	9	11	11	24	34		HST	ъ	Ч			_			20
V2 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	0			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

Ե	0	21	23	26	31	31	44	54			С	0	35	47	56	ŝ	10	13	14
LRT	0	11	_	_		23		38			С	0	31	43	52	59	9	6	10
ե	0	1	S	9	11	11	24	34			HST (Bs)	0	24	36					44
HST (Bs)	6	1	_	_	_			21			С	6	ß	17	26	33	40	43	44
LRT	0	51	_	_	_	ŝ		18			LRT	0	52		∞				18
CT	0	41	43	46	51	51	4	14			C	0	35	47	56	ŝ	10	13	14
HST	0	38	_	_	_	_	_	57			CT	0	31	43	52	59	9	6	10
Ե	0	21	23	26	31	31	44	54			LRT	0	28		44				54
LRT	0	11	_	_	_	23	_	38			С	0	ß	17	26	33	40	43	44
Ե	∞	Ļ	ŝ	9	11	11	24	34			HST	∞	2	_	_	_		_	21
LRT	0	51	_	_	_	ŝ		18			LRT	0	52		∞				18
с	0	41	43	46	51	51	4	14			ctc	0	43		ŝ	_			14
ctc	0	41				52		7			Ե	0	35	47	56	ŝ	10	13	14
HST	0	38	_	_	_			57			CT	0	31	43	52	59	9	6	10
ل ل	0	21	23	26	31	31	44	54			LRT	0	28		44		_		54
LRT	0	11				23		38			HST (Bs)	0	24	36					44
V2 US4	•	Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	c	D			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	51	_	_	_	ŝ		18		Ъ	0	35	47	56	S	10	13	14
C	0	31	33	36	41	41	54	4		LRT	0	31		47	_			57
HST (Bs)	0	28						48		HST (Bs)	0	25	37					45
5	12	1	ŝ	9	11	11	24	34		С	12	ß	17	26	33	40	43	44
С	0	41	43	46	51	51	4	14		LRT	0	52	_	8	_	_		18
сŢ	0	21	23	26	31	31	44	54		CT	0	34	46	55	2	6	12	13
LRT	0	11	_	_	_	23	_	38		CT	0	30	42	51	58	Ŋ	∞	6
ե	0	1	ŝ	9	11	11	24	34		HST (Bs)	0	24	36					44
HST (Bs)	11	Ч	_		_			21		C	11	4	16	25	32	39	42	43
ե	0	41	43	46	51	51	4	14		LRT	0	52		∞	_			18
ctc	0	41	_		_	52		7		ctc	0	43		ŝ	_	_		14
HST	0	38	_		_			57		С	0	35	47	56	ŝ	10	13	14
Ъ	0	21	23	26	31	31	44	54		Ъ	0	31	43	52	59	9	6	10
LRT	0	11	_	_	_	23		38		C	0	Ŋ	17	26	33	40	43	44
ե	10	1	ŝ	9	11	11	24	34		HST	10	2			_			21
сŢ	0	41	43	46	51	51	4	14		LRT	0	52		∞	_			18
V2 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	 0			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST (Bs)	16	1						21		HST	16	2						21
сŢ	0	41	43	46	51	51	4	14		LRT	0	52		8	_	_	_	18
HST	0	38	_	_	_	_	_	57		С	0	35	47	56	ŝ	10	13	14
CT	0	21	23	26	31	31	44	54		CT	0	31	43	52	59	9	6	10
LRT	0	11	_	_	_	23	_	38		HST (Bs)	0	24	36	_	_	_	_	44
СŢ	0	1	ŝ	9	11	11	24	34		СŢ	0	ß	17	26	33	40	43	44
HST (Bs)	15	1						21		HST	15	2						21
LRT	0	51	_	_	_	ŝ	_	18		С	0	35	47	56	ŝ	10	13	14
ե	0	31	33	36	41	41	54	4		LRT	0	31		47	_	_		57
HST (Bs)	0	28						48		HST (Bs)	0	25	37					45
СŢ	14	1	ŝ	9	11	11	24	34		ст	14	5	17	26	33	40	43	44
LRT	0	51	_	_	_	ŝ		18		ctc	0	44		4	_			15
HST	0	48	_	_	_	_		7		Ե	0	35	47	56	ŝ	10	13	14
СŢ	0	31	33	36	41	41	54	4		LRT	0	31		47	_			57
ctc	0	15				26		41		Ե	0	5	17	26	33	40	43	44
С	13	1	ŝ	9	11	11	24	34		HST	13	1						20
V2 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	0			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

HST (Bs)	18	1						21		С	18	5	17	26	33	40	43	44
LRT	0	51				ŝ		18		LRT	0	52		∞	_			18
Ъ	0	41	43	46	51	51	4	14		ctc	0	43		ŝ				14
ctc	0	41				52		7		сŢ	0	35	47	56	ŝ	10	13	14
HST	0	38						57		CT	0	31	43	52	59	9	6	10
CT	0	21	23	26	31	31	44	54		LRT	0	28	_	44	_	_	_	54
LRT	0	11				23		38		HST (Bs)	0	24	36					44
ե	0	Ч	ŝ	9	11	11	24	34		С	0	ß	17	26	33	40	43	44
HST (Bs)	17	1	_					21		HST	17	2			_	_		21
LRT	0	51	_	_	_	ŝ		18		LRT	0	52	_	8	_	_	_	18
c	0	41	43	46	51	51	4	14		ctc	0	43		ŝ				14
ctc	0	41				52		7		CT	0	35	47	56	ŝ	10	13	14
HST	0	38				_		57		Ъ	0	31	43	52	59	9	6	10
СŢ	0	21	23	26	31	31	44	54		LRT	0	28	_	44	_	_	_	54
LRT	0	11				23		38		HST (Bs)	0	24	36					44
CT	0	Ч	ŝ	9	11	11	24	34		СT	0	ß	17	26	33	40	43	44
V2 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	0			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

۲ ۲	21	Ч	ŝ	9	11	11	24	34		С	21	Ŋ	17	26	33	40	43	44
LRT	0	51	_		_	ŝ	_	18		сŢ	0	35	47	56	ŝ	10	13	14
HST	0	48						7		LRT	0	31		47	_			57
СŢ	0	31	33	36	41	41	54	4		CT	0	5	17	26	33	40	43	44
сŢ	20	1	ŝ	9	11	11	24	34		HST	20	1			_			20
LRT	0	51				ŝ		18		ctc	0	44		4				15
CT	0	31	33	36	41	41	54	4		CT	0	35	47	56	ŝ	10	13	14
HST (Bs)	0	28						48		LRT	0	31		47				57
ctc	0	15	_		_	26	_	41		HST (Bs)	0	25	37	_	_		_	45
٦ ۲	19	Ч	ŝ	9	11	11	24	34		С	19	Ŋ	17	26	33	40	43	44
LRT	0	51	_		_	ŝ		18		LRT	0	52		∞	_		_	18
С	0	41	43	46	51	51	4	14		ctc	0	43		ŝ	_		_	14
ctc	0	41	_		_	52		7		Ե	0	35	47	56	ŝ	10	13	14
сŢ	0	21	23	26	31	31	44	54		СТ	0	31	43	52	59	9	6	10
LRT	0	11	_			23	_	38		LRT	0	28		44	_	_		54
c	0	1	ŝ	9	11	11	24	34		HST (Bs)	0	24	36					44
V2 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	0			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg

LRT	0	51	_	_	_	ŝ		18			Ե	0	35	47	56	£	10	13	14
HST	0	48	_				_	7			LRT	0	31		47		_		57
ط ح	0	31	33	36	41	41	54	4			Ե	0	ß	17	26	33	40	43	44
Ç	0	1	S	9	11	11	24	34			HST	0	1	_	_	_	_	_	20
LRT	0	51	_	_	_	ŝ	_	18			C	0	35	47	56	£	10	13	14
СŢ	0	31	33	36	41	41	54	4			LRT	0	31	_	47	_	_	_	57
HST (Bs)	0	28	_	_	_			48			HST (Bs)	0	25	37		_		_	45
Ե	23	1	£	9	11	11	24	34			Ե	23	ß	17	26	33	40	43	44
LRT	0	51	_	_	_	ŝ	_	18			ctc	0	44		4	_	_	_	15
HST	0	48	_	_	_	_	_	7			Ъ	0	35	47	56	£	10	13	14
С	0	31	33	36	41	41	54	4			LRT	0	31		47	_	_	_	57
ctc	0	15	_			26		41			CT	0	ß	17	26	33	40	43	44
ե	22	Ч	£	9	11	11	24	34			HST	22	Ч		_	_	_	_	20
LRT	0	51	_			ŝ		18			CT	0	35	47	56	ß	10	13	14
С	0	31	33	36	41	41	54	4			LRT	0	31		47	_	_	_	57
HST (Bs)	0	28						48			HST (Bs)	0	25	37		_			45
V2 US4		Göteborg	Haga	Korsvägen	Mölnlycke	Landvetter	Bollebygd	Borås	c	D			Borås	Bollebygd	Landvetter	Mölnlycke	Korsvägen	Haga	Göteborg