

A66 Northern Trans-Pennine Project TR010062

3.8 Combined Modelling and Appraisal Report Appendix D - Stage 3 Transport Forecast Package

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Infrastructure Planning

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3.8 COMBINED MODELLING AND APPRAISAL REPORT – APPENDIX D TRANSPORT FORECAST PACKAGE

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1 Introduction

1.1 Project Overview

- 1.1.1 Highways England are currently undertaking the A66 Northern Trans-Pennine Route study. The study is looking at options to upgrade the A66 corridor between the M6 at Penrith and the A1(M) at Scotch Corner. The study is at Highways England Project Control Framework (PCF) Stage 3 Preliminary Design within the 'Development Phase'. The scope of the project is to dual the six sections of single carriageways along the A66 including improvements to the M6 J40 and A1(M) Scotch Corner junctions at each end of the route.
- 1.1.2 The Transport Model Package contains the analytic material created during the production of the base year transport model which will be used to underpin the Project's business case, design and operational and environmental assessments.
- 1.1.3 The A66 transport model (A66TM) was developed based on the North Regional Transport Model (NRTM) in PCF Stage 1, and further refined in PCF Stage 2. At PCF Stage 3, the opportunity has been taken to update the base year model from 2015 to 2019 with traffic counts collected from various sources and update the forecasts taking into account the most up to date available information.

1.2 Purpose of This Report

- 1.2.1 This Transport Model Forecasting Package describes the traffic forecasts using the Stage 3 A66 Transport Model to assess the Preferred Route option for the A66 corridor, covering model assumptions and forecast results.
- 1.2.2 The purpose of this report is to describe the A66TM Stage 3 traffic forecast modelling and set out the assumption on which the forecasts are based for the future year with and without the selected scheme scenarios.

1.3 Report Layout

- 1.3.1 The remaining sections of the report are set out as follows:
 - Chapter 2 Describing the Project and Objectives
 - Chapter 3 Summary of the Base Year Model
 - Chapter 4 Summary of the Previous Work
 - Chapter 5 Uncertainty Log, Forecast Years and Assumptions
 - Chapter 6 Reference Demand and Supply
 - Chapter 7 Equilibrium Demand Forecasts
 - Chapter 8 Assignment Results
 - Chapter 9 Sensitivity Tests
 - Chapter 10 Summary
- 1.3.2 The report is accompanied by the following appendices containing supporting information:



- Appendix A Development Uncertainty Log
- Appendix B Sectored VDM Impact
- Appendix C Core Scenario Design Year Forecast Flows
- Appendix D Core Scenario Forecast Flow Difference Plots by Period
- Appendix E Core Scenario Forecast Delay
- Appendix F Core Scenario Journey Time Profiles
- Appendix G Sensitivity Test Assignment Convergence
- Appendix H- Sensitivity Test Network Statistics
- Appendix I Sensitivity Test A66 Flow Tables
- Appendix J Sensitivity Test Journey Times



2 Project Outline and Objectives

2.1 Background

- 2.1.1 The Northern Trans-Pennine Routes (NTPR) Strategic Study was one of six strategic studies announced as part of the Department for Transport's (DfT's) first Roads Investment Strategy (RIS) in December 2014, and in March 2016 a Stage 0 initial report was published providing an evidence base of travel patterns and behaviour on the A66/A685 and A69 corridors.
- 2.1.2 The A66 is a key national and regional strategic route, linking the east and west of northern England across the Pennines, and is the best available option for traffic travelling between the south east of England and the west of Scotland. However, there is no complete dual carriageway along the A66 between the M6 junction 40 at Penrith and the A1(M) at Scotch Corner. The only existing east-west road of dual carriageway or motorway standard north of the M62 is the M8 in Scotland. This is a significant barrier to the movement of freight and the utilisation of the A66 route, which represents a major constraint to economic growth in the north of England. The strategic context of the route in northern England is shown in Figure 2-1.





Figure 2-1: A66 Strategic Context

- 2.1.3 Along the 50 mile stretch between the M6 at Penrith and the A1(M) at Scotch Corner, the A66 has been upgraded from single carriageway to dual carriageway in a number of stages since the 1970s. The most recent section to be dualled was the Temple Sowerby Bypass which opened to traffic in 2007. However, there are six remaining single carriageway sections, and an at-grade junction making the route slow, accident-prone and unreliable.
- 2.1.4 The Northern Powerhouse Independent Economic Review¹ identified the critical importance of improving connectivity across the North and the Northern Trans-Pennine Routes Study identified the A66 as the priority for investment. Upgrading the route is a UK National priority which forms a key part of the 'levelling-up' and Northern Powerhouse agendas, enabling better connectivity between North and South and increasing economic performance in the North.
- 2.1.5 The study area for PCF Stage 1 is illustrated in Figure 2-2 and stretches approximately 49.5 miles along the A66 between the M6 at Penrith and

¹ SQW Ltd The Northern Powerhouse Independent Economic Review Report 24 June 2016



the A1 at Scotch Corner. At Stage 1, the study looked specifically at upgrading the single carriageway sections along this route. There are currently six remaining sections that are single carriageway (approximately 28 miles).

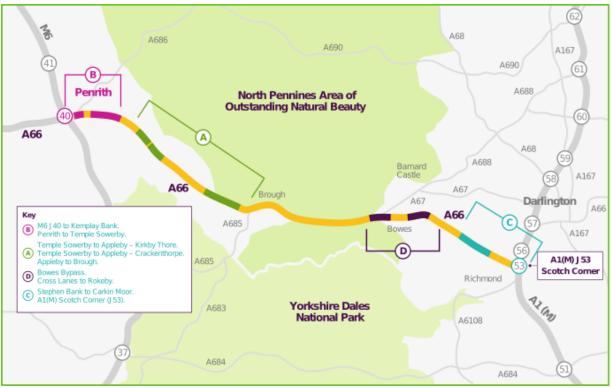


Figure 2-2: Stage 3 A66 Northern Trans-Pennine Scheme

- 2.1.6 During PCF Stages 1 and 2, using an enhanced version of the North Regional Transport Model (NRTM), traffic forecasting and economic appraisal was undertaken to determine the preferred route.
- 2.1.7 The PCF Stage 1 A66 Transport Model (A66TM) was developed to assess options along the A66 corridor and to inform the option identification process. The NRTM was used as a starting point, with key elements of the model structure retained and the networks, representation of demand, and validation all refined in the area of interest. At PCF Stage 2, the A66TM was further refined to improve assessment of the Project.
- 2.1.8 Project-specific data was collected to enhance the model, including a traffic survey programme along the A6 corridor between Penrith and A1(M) Scotch Corner during November and early December 2017. In addition to this additional traffic count data was recieved from Cumbria County Council.
- 2.1.9 At PCF Stage 3, the opportunity has been taken to update the base year model from 2015 to 2019 with data and traffic counts collected from various sources.



2.2 Project Objectives

- 2.2.1 The strategic objective of the study is to investigate the potential to create a new improved strategic corridor linking the A1(M) with the M6 by upgrading the A66 corridor and making other improvements along its length. Further aims and objectives are to improve strategic, regional and national connectivity, particularly for HGVs, considering a more attractive alternative route to the M62 for some east-west crossing movements, improving journey time reliability on the A66 and promoting economic growth.
- 2.2.2 Table 2-1 summarises the project objectives for the study.

Table 2-1 Project Objectives

Option	Description		
Economic Growth	Support the economic growth objectives of the Northern Powerhouse agenda		
	Improve national connectivity including freight		
	Improve access for tourism		
	Improve access for local services and jobs		
Transport	Improve road safety		
	Improve journey time reliability for road users		
	Improve and promote the A66 as a strategic connection for all traffic		
	Improve the resilience of the route to the impact of events such as incidents, roadworks and severe weather events		
	Seek to improve NMU provision along the route		
Community	Reduce the impact of the route on severance for local communities		
Environment	Minimise adverse impacts on the environment and where possible optimise environmental improvement opportunities		



3 Base Year Model

3.1 The A66 Transport Model

- 3.1.1 The A66 Transport Model (A66TM) is based on the Highways England's North Regional Transport Model (NRTM).
- 3.1.2 The RTM models have been developed for several purposes including the following:
 - Assessing programme level strategies across the regions.
 - Individual scheme appraisal at the early stages of scheme development, for example PCF Stage 0.
 - To provide a starting point for the development of detailed scheme specific models, where networks, volumetric counts and availability of travel demand data can reduce the traffic modelling programme.

3.2 Geographical Coverage

- 3.2.1 The modelling undertaken during Stage 0 provided a good understanding of the potential demand and reassignment impacts of an improved A66. Initial modelling of the full dualling of the A66 using the NRTM, provided an indication of the extent of reassignment and hence a basis for determining the geographical coverage of the network and the differing levels of network detail required.
- 3.2.2 The geographical extent of the network is based on the NRTM. At Stage 1, there was a need to refine the level of detail included in the network, with increased network definition along the A66 corridor where needed and reduced definition in areas remote from the Project.
- 3.2.3 The network inherited from NRTM includes area of simulation network, where detailed junction modelling is included, and buffer network, where the network representation is link based.
- 3.2.4 The extent of both the simulation area and buffer area were both retained from NRTM, however at Stage 1 the simulation area was further subdivided to include fully modelled, intermediate and external areas containing different levels of simulation coding. This reflected the need to enhance the network detail included in the NRTM, which as a strategic model does not include the appropriate level of network density or simulation coding required.
- 3.2.5 In Stage 3 the model's geographical extent included the same area as the PCF Stage 1 and 2 A66TM model, however the Transport Reliability Area (TRA) had been extended further north and south at either end of the A66 along the M6 and A1(M). This had been revised taking into account impacts from the Project identified within PCF Stage 2 forecasting. The TRA is shown in Figure 3-1.



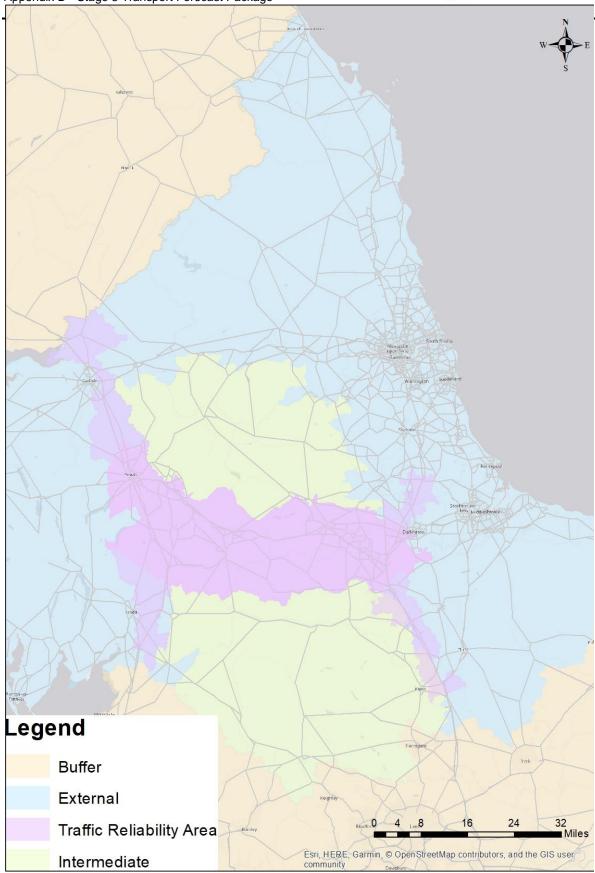


Figure 3-1 Stage 3 A66TM Modelled Area



3.3 Time Periods and Demand Segmentation

- 3.3.1 The time periods modelled represent an AM peak period hour (08:00-09:00), an average hour in the inter-peak (10:00-16:00), an average PM peak period hour (16:00-18:00) and an average hour in the off-peak (19:00-07:00).
- 3.3.2 The base year model represents an average March weekday in 2019. Vehicle class definitions are from the COBA manual, with OGV1 (Other Goods Vehicles 1) and OGV2 (Other goods Vehicles 2) combined together and referred to as HGVs, and the car user class split into Car Commute, Car Employers Business and Car Other trips to allow for variations in the perceived costs of travel between different journey purposes. LGVs have all been assumed to be employer's business trips, and other goods vehicles (OGV1 and OGV2) along with Passenger Service Vehicles (PSV) have been combined with HGVs. As the number of PSVs picked up in the manual counts were so low it was assumed they would have a negligible effect combined with the HGV movements.
- 3.3.3 The highway assignment model user classes are as follows:
 - User class 1 Car, Employers Business
 - User class 2 Car, Commute
 - User class 3 Car. Other
 - User class 4 Light Goods Vehicles
 - User class 5 Heavy Goods Vehicles
- 3.3.4 The demand model also includes the following rail purposes:
 - Rail Commuting
 - Rail Other
 - Rail Employers Business
 - (Goods vehicles are excluded from the demand model)

3.4 Modelling Software

- 3.4.1 Model composition and software is based on the NRTM and keeps the same structure of a highway SATURN supply model and a variable demand model system which uses a combination of the Department for Transport (DfT) Dynamic Integrated Assignment and DEmand Modelling (DIADEM) Variable Demand Modelling software and a bespoke graphical user interface (GUI) known as the Highways England Integrated Demand Interface (HEIDI).
- 3.4.2 SATURN operates as a static equilibrium highway assignment model which incorporates both simulation and assignment loops. The highway assignment model uses SATURN software version 11.4.07H.
- 3.4.3 DIADEM software is designed to enable practitioners to easily set up variable demand models. DIADEM provides a user-friendly method for setting up a multi-stage transport demand model and finding equilibrium between demand and supply, using the SATURN package as the supply model. The variable demand model uses the bespoke version of the software version developed specifically for Highways England.



3.4.4 HEIDI is a bespoke programme developed to assemble trip end data and to organise and implement forecast model runs. HEIDI invokes a DIADEM run which in turn invokes SATURN. HEIDI version 6.2h has been used for the A66 forecast model runs.

3.5 Stage 3 Updates

- 3.5.1 The following updates were undertaken to the demand data within PCF Stage 3:
 - During PCF Stage 3, the matrices have been updated from a base year of 2015 to a base year of 2019 and further refined to reflect further zone disaggregation.
 - The LGV matrix has been developed using 2019 Teletrac Navman data. The following steps were applied to the original TeletracNavman source data to create the initial LGV assignment matrices:
 - The HGV matrices have been updated. Prior freight matrices based in 2018 were provided by TfN based on data supplied by MDS Transmodal, provided in the A66TM zone system. These have been calibrated to observed 2019 data
- 3.5.1 The majority of the A66 model network remains unchanged from PCF Stage 2, however, several updates were required to develop the PCF Stage 3 model. These include:
 - additional coding to include RIS1 National Highways and local highway schemes built since 2015
 - additional coding in Penrith to better reflect route choice and improve the accuracy of traffic flows
 - additional coding north of Kirkby Thore
 - additional coding east of Scotch Corner between Middleton Tyas, Scorton and Croft-on-Tees to capture local traffic which could route via the Scotch Corner junction
 - additional coding and updated zone loadings to improve convergence in Durham, Middlesbrough and Carnforth.
- 3.5.2 The model has been calibrated and validated to 2019 count and journey time data.

3.6 Highway Assignment Technique and Generalised Costs

Assignment Procedures

- 3.6.1 The assignment procedure adopted for the highway model is based on an equilibrium assignment with multiple demand segments for an average hour in AM peak, interpeak and PM peak time periods.
- 3.6.2 The assignment technique uses Wardrop equilibrium assignment, achieved through the use of Franke-Wolfe user equilibrium algorithm in SATURN.
- 3.6.3 The assignment methodology includes the following:
 - Path-based algorithm;
 - Blocking back; and



 Each time period is modelled as a standalone model, no interaction with the previous time period (that is, no PASSQ from the previous time period).

Assignment Units

- 3.6.4 The assignment works across the multiple user classes with traffic flow measured in passenger car units (PCU) as defined below:
 - Car and LGV = 1 PCU/vehicle; and
 - HGV = 2.5 PCU/vehicle
- 3.6.5 This is consistent with the NRTM.

Generalised Costs

3.6.6 The generalised costs within the assignment model are essential as they affect traffic routing on the road network. They are applied in the following form:

Generalised Cost = Time + PPK/PPM*Distance + Toll

Where PPM is Pence per Minute, and PPK is Pence per Kilometer.

- 3.6.7 The user class HGV in the model is a mix of:
 - Other Goods Vehicles 1 (OGV1), including goods vehicles over 3.5 tonnes with two or three axles, and
 - Other Goods Vehicles 2 (OGV2), including all rigid vehicles with four or more axles and all articulated vehicles.
- 3.6.8 Consistent with the NRTM model a split of 40:60 (OGV1:OGV2) was assumed for the calculation of generalised costs (also includes HGV operator multiplier of 2.0)
- 3.6.9 An Excel workbook was provided by Highways England with source data which reflects the May 2021 v1.15 release of the TAG Databook. The opportunity was given to update the base model using the November 2021 v1.17 release but the decision was taken to keep the 2019 values from v1.15 of the TAG databook. This aligns with the methodology used in the NRTM development.
- 3.6.10 Table 3-1 and Table 3-2 show the PPM and PPK generalised cost parameters used, which are all in 2010 prices.

Table 3-1 Value of Time Costs 2019 Parameters - PPM

Element	User Class	AM Peak	Inter Peak	PM Peak
Car	Employers Business	30.92	31.68	31.36
	Commute	20.73	21.07	20.81
	Other	14.31	15.24	14.98
LGV		22.41	22.41	22.41
HGV		44.63	44.63	44.63



Table 3-2 Vehicle Operating Cost 2019 Parameters – PPK

Element	User Class	AM Peak	Inter Peak	PM Peak
Car	Employers Business	12.55	12.55	12.55
	Commute	6.14	6.14	6.14
	Other	6.14	6.14	6.14
LGV		13.75	13.75	13.75
HGV		42.15	42.15	42.15

3.6.11 Tolls have been coded for the Tyne Tunnel along the A19, East of Newcastle. These are summarised in

3.6.12 Table 3-3.

Table 3-3 Tyne Tunnel Tolls

Car - Business	Car – Commute	Car - Other	LGV	HGV
£1.22	£1.45	£1.45	£1.25	£2.44

- 3.6.13 These values are based on a 2019 toll price for cars and LGV's of £1.70 per vehicle and for HGV's £3.40, which were then converted into 2010 prices using the GDP deflator provided in the latest TAG Databook.
- 3.6.14 The costs used for the assignment are based on 2010 perceived prices (i.e. without taxation) and therefore, the toll charge for User Class 1 (employers' business) is lower than the cost for both commuting or other user class categories (UC2 and UC3). Additionally, toll charges for LGVs have been calculated using a weighted average of personal and freight trips based on Table A1.3.4 in the latest TAG Databook, giving a default proportional split of 12% for LGV personal and 88% for LGV freight.
- 3.6.15 It is noted that in 2019, all users of the Tyne Tunnel had the option to pre-pay toll fees at a discount of 10% to the advertised cash price. This has not been assessed in detail for the purpose of calculating assignment toll charges and is considered to have negligible impact on the assessment of the A66 Project.

3.7 Validation Results

- 3.7.1 The model validation process is summarised below as follows:
 - Trip matrix validation;
 - Link flow validation;
 - Journey time validation; and
 - Route choice validation.
- 3.7.2 The A66TM prior car matrices were created using the 2015 A66TM prior matrices which were then growthed using TEMPRO. The original 2015 A66TM prior matrices were developed using NRTM prior matrices. These were developed using model phone data (MPOD) with short distance trips being infilled synthetically and applying regional adjustment factors to a achieve satisfactory starting position. A summary of the matrix development process is shon in Figure 3-2.



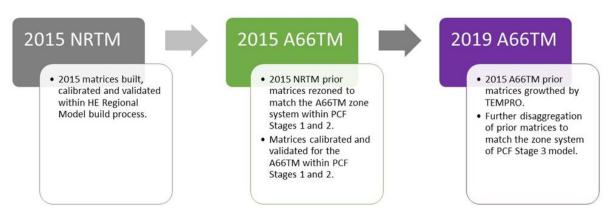


Figure 3-2: Matrix Development Process

- 3.7.3 LGV matrices were developed using 2019 TeletracNavman data. The main strengths of the Teletrac Navman dataset is that it provides LGV trip data at OD level, at a detailed spatial and temporal resolution. This allows the day-to-day variation in trip patterns to be observed.
- 3.7.4 Freight matrices were based on 2018 prior freight matrices provided by TfN. This was considered more desirable compared with the original NRTM freight matrices which were based on the DfT's Base Year Freight Matrices (BYFM), which provide road freight vehicle movements for a base year of 2006.
- 3.7.5 The steps undertaken to develop the car, LGV and HGV matrices are described in detail within the Transport Model Package²
- 3.7.6 Matrix estimation was applied to refine the trip estimates across the various screen line and ad-hoc count site locations. A final blended assignment was undertaken to ensure the changes due to matrix estimation were limited for long distance car trips which were considered to be the more robust element of the prior matrices. The blend consisted of a fully unconstrained and a constrained matrix estimation run as follows:
 - Fully unconstrained matrix estimation for all OD pairs across all vehicle types (30%); and
 - Constrained matrix estimation for cars with OD pairs frozen for skim distances greater than 20km. LGVs and HGVs remain unconstrained (70%).
- 3.7.7 The matrix validation results post matrix estimation are presented in Table 3-4, which shows the number (No.) and the percentage (%) of screen line sites meeting the validation criteria.

Table 3-4 Prior Matrix Validation (All Vehicles)

Performance Measure	AM Peak		Inter-Peak		PM Peak	
	No.	%	No.	%	No.	%
All screenlines (18) or cordons within 5% of observed flows	17	94%	17	94%	18	100%

² A66 Northern Trans-Pennine Stage 3 Transport Model Package. Document Ref: HE565627-AMY-GEN-S00-RP-TR-000010



Performance Measure	AM Peak		Inter-Peak		PM Peak	
	No.	%	No.	%	No.	%
All screenlines (18) or cordons within 10% of observed flows	17	94%	18	100%	18	100%
All screenlines (18) or cordons within GEH <4	17	94%	18	100%	18	100%
All screenlines (18) and cordons with GEH <7.5	18	100%	18	100%	18	100%

3.7.8 The calibrated link flow validation results are provided in Table 3-5.

Table 3-5 Link Flow Validation Summary - Calibrated Matrices (All Vehicles)

Performance Measure	AM Peak	Inter-Peak	PM Peak
All Links (494)			
- within GEH of 5.0	84%	89%	87%
- within GEH of 7.5	95%	97%	95%
- pass cal/val guidance link criterion	85%	85%	85%
By Calibration/Validation			
Calibration Counts (341)			
- within GEH of 5.0	89%	93%	91%
- within GEH of 7.5	96%	98%	96%
- pass cal/val guidance link criterion	85%	85%	85%
Validation Counts (153)			
- within GEH of 5.0	71%	81%	78%
- within GEH of 7.5	91%	93%	91%
- pass cal/val guidance link criterion	85%	85%	85%
By Road Type			
SRN link Counts (230)			
- within GEH of 5.0	84%	92%	88%
- within GEH of 7.5	96%	96%	95%
- pass cal/val guidance link criterion	85%	85%	85%
Non-SRN link Counts (264)			
- within GEH of 5.0	83%	87%	86%
- within GEH of 7.5	94%	97%	94%
- pass cal/val guidance link criterion	85%	85%	85%

3.7.9 The journey time results are presented in Table 3-6 which shows the number (No.) and the percentage (%) of routes meeting the validation criteria.



Table 3-6 Journey Time Validation Summary

Route Class	No. of	AM Peak		Inter Peak		PM Peak	
	Routes	No.	%	No.	%	No.	%
SRN	14	14	100%	14	100%	14	100%
Non-SRN	20	20	100%	20	100%	20	100%
Total	34	34	100%	34	100%	34	100%

3.7.10 In summary, the validation results demonstrate that the model performs well against TAG criteria.

3.8 Variable Demand Modelling (VDM)

- 3.8.1 TAG Unit M2 provides guidance on the need for variable demand modelling and the modelled approach was undertaken in accordance with this guidance. Given the scale of Recommended Preferred Route scheme, the estimated cost of options and evidence from PCF Stage 0 that variable demand modelling had an impact on benefits, there is a need to include the impacts of variable demand.
- 3.8.2 The variable demand modelling system developed for the A66TM is largely unchanged from that developed for the NRTM. Changes are limited to updating it and recalibrating it to reflect the enhanced A66TM networks and zonings systems and recalibrated demand. The reasoning behind the specification of the structure of the VDM are contained in the NRTM model development report and remain valid for the A66TM.
- 3.8.3 The key characteristics of the VDM are as follows:
 - Incremental pivot point approach
 - Pivot point between base and test
 - Home Based Production / Attraction
- 3.8.4 Non-Home-Based Origin / Destination
 - Goods Fixed
 - Special Generators Fixed
- 3.8.5 The VDM model applies to the entire modelled area (simulation and buffer area) and predicts the key traveller responses of:
 - Mode Choice (between Car Available Car Users and Rail);
 - Destination Choice (a change of origin and\or destination); and
 - Macro Time of Day Choice (MTOD) (a change of time period in which travel is made).
- 3.8.6 Public Transport supply and demand is represented as inter-urban rail travel only, it being considered the main competitor to car when the RTM's were developed. This assumption and its representation in the model have been retained for the A66TM. Further details are provided in Chapter 7.
- 3.8.7 A land use transport interaction model has not been used after taking into consideration the location of the Project, surrounding development,



current network conditions and the likely impacts with the Project in place.

3.8.8 The base model development and performance is described in more detail in the Stage 3 Transport Model Package Report.



4 Previous Work

4.1 Overview

- 4.1.1 The A66 Northern Trans-Pennine Project was one of six strategic studies announced as part of the DfT Road Investment Strategy: Investment Plan, December 2014.
- 4.1.2 The A66 is identified as a key national and regional strategic road link for east-west journeys in the north of England, carrying high levels of freight traffic, as well as being considered as an important route for tourism.
- 4.1.3 The previous modelling work is summarised below with more detail in the following sections:
 - Stage 0: Strategy, shaping and prioritisation Development of the NTRAM spreadsheet-based model and use of the NRTM to assess option on the A66 and A69, recommending that options on the A66 corridor be further progressed.
 - Stage 1: Option identification Use of the and enhanced version of the NRTM to assess two options along the A66 corridor, both involving dualling the A6 corridor single carriageway sections. The outcomes from the appraisal were presented into the interim Outline Business Case at the end of Stage 1.
 - Stage 2: Option Selection Use of the NRTM to select a preferred option. The outcomes from the appraisal were presented in the Outline Business Case at the end of Stage 2.

4.2 Stage 0 Forecasting

- 4.2.1 The NTPR Strategic Study commenced in September 2015. Throughout the study a Stakeholder Reference Group was engaged in the various stages of technical work. In March 2016, the Stage 1 Report was published providing a robust evidence base of travel patterns and behaviour in the A66/A685 and A69 corridors. The evidence was used to develop intervention specific objectives and establish a case for strategic intervention on each corridor.
- 4.2.2 Based on the need for intervention, a long list of potential interventions was developed to improve connectivity on the Trans-Pennine Routes. Through a sifting process a short list of options was produced to meet the agreed study specific objectives.
- 4.2.3 More detailed assessment and appraisal of interventions was undertaken including environmental assessments and wider economic impacts. Indicative order of magnitude Project costs were produced for the interventions.
- 4.2.4 The feasibility work undertaken by the study indicated that the initial strategic and economic cases were positive enough for interventions to be taken forward to the next stage of assessment.



- 4.2.5 As part of the Northern Trans-Pennine Routes Strategic Study the Northern Trans Pennine Routes Assessment Model (NTRAM) was developed. The NTRAM is a spreadsheet-based regression model using link-based speed flow relationships & generalised costs (CH2MHill Traffic Modelling Methodology July 2016) and was used to model the A69, A66 and A685 for different levels of flow and HGV usage3.
- 4.2.6 Once the North Regional Transport Model (NRTM) became available an updated Stage 0 assessment was undertaken. This assessment used the NRTM in its existing form and also used existing future year traffic forecasts. The results of this work are presented in the A66 Northern Trans Pennine Route Forecasting Report Stage 0 (October 2017).
- 4.2.7 The outcome from the study was a recommendation to take the options on the A66 corridor between the M6 Junction 40 at Penrith and the A1(M) at Scotch Corner forward to PCF Stage 1 Option Identification.

4.3 Stage 1 Forecasting

- 4.3.1 The Stage 1 A66 Transport Model (A66TM) was developed to assess options along the A66 corridor and to inform the option identification process. The NRTM was used as a starting point, with key elements of the model structure retained and the networks, representation of demand, and validation all refined in the area of interest. Model network and zone detail along the A66 corridor was enhanced to better reflect traffic movements and interaction in the Project location.
- 4.3.2 The outcome of the Stage 1 was the modelling and appraisal of the following two options identified to take forward into Stage 2:
 - Option 1 Shortest Route; and
 - Option 2 Longest Route.
- 4.3.3 Both options involved dualling of the A66 from M6 Junction 40 to the A1(M) at Scotch Corner, with grade separation of the A66/A6 Kemplay Bank junction. The Project appraisal results are shown below in Table 4-1. Seasonal Modelling, and a high super high growth scenario sensitivity tests were carried out using Option 1.

Table 4-1 Stage 1 Project Appraisal Results

Description Metr	Metric	Core Scenario		Seasonal Model	High Growth	Super High
		Option 1	Option 2	Model	Scenario	Growth Scenario
Excluding	TUBA Benefits	£807.00	£738.28	£750.36	£910.13	£960.38
Wider Impacts	Accident Benefits	£20.73	£23.76	£20.73	£20.73	£20.73
(Level 1 Benefits)	Environmental Benefits (GHG and Noise)	-£120.00	-£117.80	-£120.00	-£120.00	-£120.00
	Present value of Benefits (PVB)	£707.73	£644.24	£651.09	£810.86	£861.11



Description Metric Core Scenario Option 1 Option 2	Metric	Core Scenario		Seasonal Model	High	Super High
	Model	Growth Scenario	Growth Scenario			
	Present value of Cost (PVC)	£393.49	£418.66	£393.49	£393.49	£393.49
	Initial Benefit- Cost Ratio (BCR)	1.80	1.54	1.65	2.06	2.19
Including	Wider Impacts	£101.00	£94.00	N/A	N/A	N/A
Wider Impacts (Level 2 Benefits)	Present value of Benefits (PVB)	£808.73	£738.24	N/A	N/A	N/A
Delients)	Adjusted Benefit-Cost Ratio (BCR)	2.06	1.76	N/A	N/A	N/A

4.4 Stage 2 Forecasting

- 4.4.1 The A66 Transport Model has been updated at PCF Stage 2 to forecast the impacts of the Recommended Preferred Route along the A66 corridor between the A1 (M) Scotch Corner and M6 J40 as part of the A66 North Trans-Pennine Project. The A66 Transport Model is a network based Variable Demand Model using the SATURN assignment and DIADEM demand model software. There is detailed representation of the model network and zone system along the A66 corridor. The Stage 2 A66 Transport Model is an updated version of the Stage 1 model which was original derived from the Northern Regional Transport Model used for the Stage 0 assessment.
- 4.4.2 In terms of forecasting assumptions, the following updates were made at Stage 2:
 - Preparation of a revised uncertainty log using the latest information on developments and schemes along and in the near vicinity of the A66 corridor, and updated core scenario network infrastructure and demand assumption.
 - Revised forecast years taking account of the most up to date Project construction programme.
 - More detailed forecast networks including variation in road characteristic, speed restrictions and side roads.
 - Representation of the Stage 2 Preferred Route Project in the DS network.
 - Updated generalised cost parameters, reflecting the May 2019 TAG data book.
- 4.4.3 The stage 2 results are summarised in Table 4-2.



Table 4-2 Stage 2 Benefits

Description	Metric	Core Scenario
	Transport User Benefits (Travel Time, VOC and User Charge Savings)	673.47
	Construction Impacts	-12.23
	Accidents	28.70
	Wider Public Finances (Indirect Tax Revenue)	80.29
	Noise	-4.36
	Air Quality	-1.08
	Greenhouse gases	-141.28
	Present Value of Benefits (PVB)	623.51
	Present value of Cost (PVC)	477.49
	Initial Benefit Cost Ratio (BCR)	1.31
	Journey Time Reliability Benefits	179.35
	Wider Economic Benefits	63.00
	Present value of Benefits (PVB)	865.86
	Adjusted Benefit Cost Ratio (BCR)	1.81

- Note: 2010 prices and discounted to 2010 in £m.
- 4.4.4 The Stage 2 model forecast results appear sensible and provide a logical representation of the future year Project impacts. The changes made to the transport model at Stage2, and the changes to the Project being tested in the form of the Preferred Route, would not be expected to generate a significantly different set of forecast to Stage 1, and this is reflected in the Stage 2 results.



5 Forecast Years and Assumptions

5.1 Introduction

- 5.1.1 TAG Unit M4 Forecasting and Uncertainty provides guidance for forecasting the impact of transport projects including option testing and appraisal. In transport scheme appraisal, modelling is used to establish the difference between two forecasts, without scheme and with scheme scenarios. In order to do this an understanding of errors and associated uncertainty and what impact this may have on the analysis is required.
- 5.1.2 This section of the report describes the following aspects:
 - Model forecast years which will be used to forecast economic benefits.
 - Uncertainty log and core scenario input assumptions of developments and infrastructure schemes, and selection for the core scenario.

5.2 Forecast Years

- 5.2.1 The following forecast traffic model years have been defined based on information provided for Project construction and data availability for predicting future demand:
 - 2029 Project opening year
 - 2044 Project design year, 15 years post opening
 - 2051 additional model year
- 5.2.2 For economic appraisal TAG Unit M4 recommends that the final forecast years is as far into the future as possible. 2051 was chosen as this is the current horizon year to which DfT currently provide trip end forecasts.

5.3 Uncertainty Log

- 5.3.1 An uncertainty log is required for transport model forecasting. The purpose of an uncertainty log is to record the central forecasting assumptions that underpin the core scenario, as well as uncertainty around those central assumptions. The uncertainty log should summarise all known uncertainties in the modelling and forecasting, listing each source of uncertainty together with the following information:
 - The core scenario assumptions, describing development and infrastructure assumptions for the Central Case.
 - The likelihood that the scheme or development will go ahead.
 - The range of assumptions around each input or parameter.
- 5.3.2 The initial data collection concentrated on interrogation of the planning portals to obtain submitted planning applications in all nearby Local Authority Districts for all live applications, applications approved in the last three years and potential developments up to local plan horizon years, or 2035 in the case of the TfN list of developments. Any built schemes along the A66 corridor since the 2019 were identified and also



included. Table 5-1 shows the information sources used to collect the uncertainty log data.

Table 5-1 Information Sources for Developments

Local Authority	Sources
Cumbria County Council	Strategic Economic Plan, Cumbria LEP Infrastructure Plan. Additional input from Eden District Council Local Plan, Carlisle District Local Plan, Allerdale District Local Plan, Copeland Borough Council Local Plan, Barrow in Furness Draft Local Plan
North Yorkshire County Council	Online planning portals, submitted planning applications, live and approved in the last three years. Additional input from Richmondshire District Council
Durham County Council	County Durham Plan – preferred options document, SHLAA
Darlington Borough Council	Darlington Employment Land Review, LDF Core Strategy, SHLAA
Hartlepool Council	Hartlepool Employment Land Review
Stockton Borough Council	Stockton Local Plan
Redcar and Cleveland Borough Council	South Tees Regeneration Masterplan
Middlesbrough Council	Middlesbrough Local Plan
Tees Valley Combined Authority	Strategic Infrastructure Plan
South Lakeland District Council	South Lakeland Local Plan
Gateshead Borough Council	Core Strategy and Urban Core Plan, Making Spaces for Growing Places
North Tyneside Council	North Tyneside Local Plan
Sunderland City Council	Sunderland Local Plan
Newcastle City Council	Core Strategy and Urban Core Plan, Newcastle Employment Land Review, SHLAA, Benwell Scotswood Area Action Plan
Transport for the North (TfN)	Draft Strategic Transport Plan, TfN Development Log

- 5.3.3 Updates were then applied using the latest information from the following sources:
 - Local Development Plans and Planning portals,
 - · Council and Highways England websites, and
 - TfN development and infrastructure interventions Logs.
- 5.3.4 To ensure accuracy the uncertainty log was issued to Cumbria County Council (incorporating feedback from the district councils within Cumbria), Durham County Council, North Yorkshire County Council, Richmondshire District Council and Tees Valley Combined Authority (representing the councils within the Tees Valley) for their review and to



- update with any additional strategic sites not yet included. Responses were received from all and updates incorporated as appropriate.
- 5.3.5 All development data was entered with details provided of the data source, development location, planning reference, size, planning status and predicted trip generation where available.
- 5.3.6 An estimation of the number of jobs at each development type was required so that development sites could be filtered by size when identifying sites for inclusion in the core scenario and for the subsequent calculation of trip generation during the demand modelling process. Information collected on employment sites recorded in the uncertainty log generally covered development type and development size, (based on floor space size), but not necessarily the number of jobs. Therefore, a consistent approach was applied across all employment sites based on the site area and employment type categories (shown in Table 5-2).

Table 5-2 Different Development Types from UK Planning Portal

Development Type	Description
A1	Shops
A2	Financial and Professions Services
A3	Restaurants and Cafes
A4	Drinking Establishments
A5	Hot Food Takeaways
B1	Business
B2	General Industrial
B8	Storage and Distribution
C1	Hotels
C2	Residential Institutions
C3	Dwelling houses
D1	Non-residential institutions
D2	Assembly and leisure

- 5.3.7 For each employment site job numbers were derived by taking the gross external area and converting to gross internal area, and then net floor area using factors developed from TRICs³ (Trip Rate Information Computer System) data. The net floor area per employment type was then used to calculate the total number of jobs of that type using data from the "Homes & Communities Agency Employment Density Guide 3rd Edition November 2015".
- 5.3.8 For developments within the Core Area (see 5.4.4 below), Transport Assessments were found and their trip generation data recorded to incorporate more accurate trip data.

³ http://www.trics.org/system.html



5.4 Core Scenario

- 5.4.1 The complete uncertainty log contains all the sites identified in the data collection process regardless of certainty level, geographical location or size. In selecting development sites for inclusion in the core scenario, filters were applied as follows:
 - Level of Certainty Filter applied in line with TAG (Near Certain or Reasonably Foreseeable).
 - Geographical Location Filters were applied to sites geographically
 to select those within the core boundary, noting that for development
 sites remote from the Project there would be little difference in traffic
 impact if these schemes were explicitly represented in the model or
 included as part of the overall TEMPRO growth.
 - Size of Development Similarly filters were applied based on the size
 of individual development and whether it was 'big enough', noting that
 for developments that did not generate much traffic there would be
 little difference in traffic impact if these schemes were explicitly
 represented in the model or included as part of the overall TEMPRO
 growth.
- In summary only those developments that were considered 'near certain' or 'more than likely', within the core area and considered 'big enough' were included in the future year modelling.
- 5.4.3 Table 5-3 shows how the likelihood classification of future inputs for infrastructure schemes and developments was determined.

Table 5-3 Classification of Future Inputs⁴

Probability of the Input	Status	Core Scenario Assumption
Near certain: The outcome will happen or there is a high probability that it will happen.	Intent announced by proponent to regulatory agencies. Approved development proposals. Projects under construction.	This should form part of the core scenario
More than likely: The outcome is likely to happen but there is some uncertainty.	Submission of planning or consent application imminent. Development application within the consent process.	This could form part of the core scenario
Reasonably foreseeable: The outcome may happen, but there is significant uncertainty	Identified within a development plan. Not directly associated with the transport strategy/scheme but may occur if the strategy/scheme is implemented. Development conditional upon the transport strategy/scheme proceeding. Or, a committed policy goal, subject to tests (for example of deliverability) whose outcomes are subject to significant uncertainty	These should be excluded from the core scenario but may form part of the alternative scenarios

⁴ TAG Unit M4 Forecasting and Uncertainty – Appendix A – Table A2



Probability of the Input	Status	Core Scenario Assumption
Hypothetical: There is considerable uncertainty whether the outcome will ever happen.	Conjecture based upon currently available information. Discussed on a conceptual basis. One of several possible inputs in an initial consultation process. Or a policy aspiration	These should be excluded from the core scenario but may form part of the alternative scenario

- 5.4.4 For selection of core scenario developments, a boundary was drawn up based on a combination of development density, Local Authority Districts and geographical proximity to the A66. The Core and Wider area can be described as:
 - Core area the A66 corridor largely including the south-west part of County Durham comprising Barnard Castle and the Borough of Darlington, Richmondshire District Council and the Eden District of Cumbria.
 - Wider area area outside of the core area (largely including Cumbria, County Durham, Northumberland and Local Authorities in Tyne & Wear and the Tees Valley).
- 5.4.5 Size criteria for developments based on number of households for residential developments or jobs for employment developments were established. In developing the criteria, consideration was given to the level of trip generation that might impact on the A66 corridor traffic, given that background trip end growth is contained within NTEM, which is used to account for traffic growth from smaller developments.
- 5.4.6 The size criteria for the inclusion of developments in the core scenario was based on the following thresholds:

Core area:

- over 200 jobs for employment sites
- over 100 dwellings for residential sites

Wider area:

- over 500 jobs for employment sites
- over 250 dwellings for residential sites

Developments

5.4.7 Figure 5-1 shows both the core scenario developments and other developments included in the uncertainty log, the core boundary. Those that are included within the Core Scenario are both large enough to be considered (see 5.4.6) and are likely enough to come forward (see 5.4.1). Figure 5-2 and Figure 5-3 show all core area employment and residential developments.



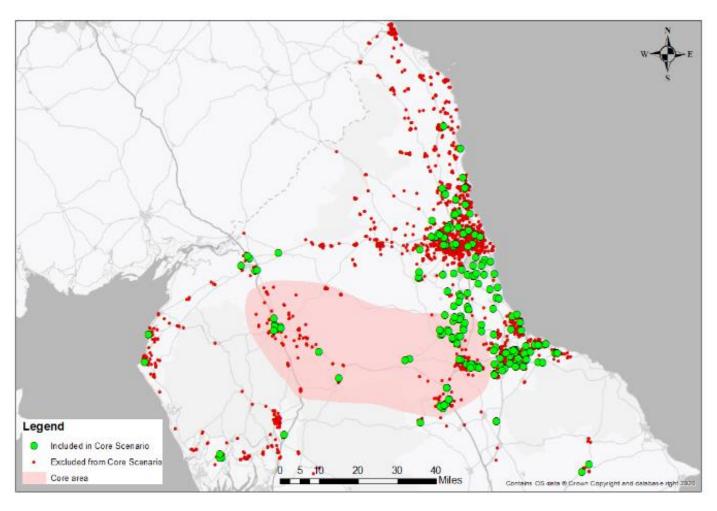


Figure 5-1: All Uncertainty Log Developments



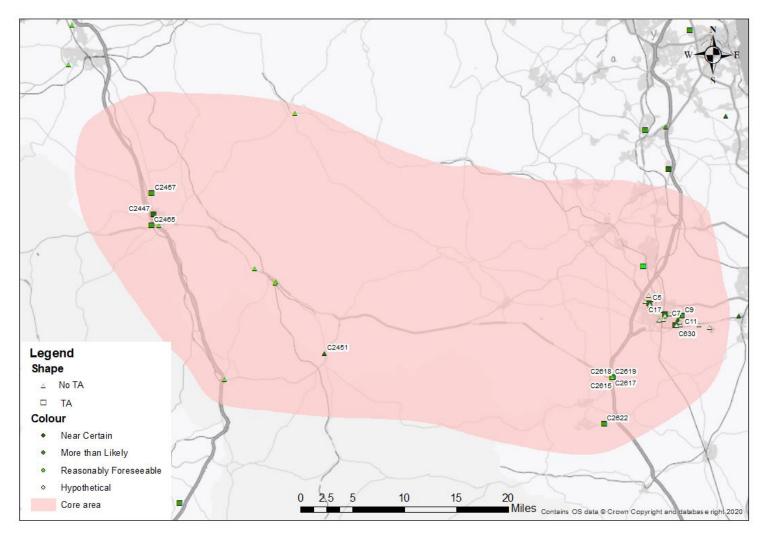


Figure 5-2: Core Area Employment Developments



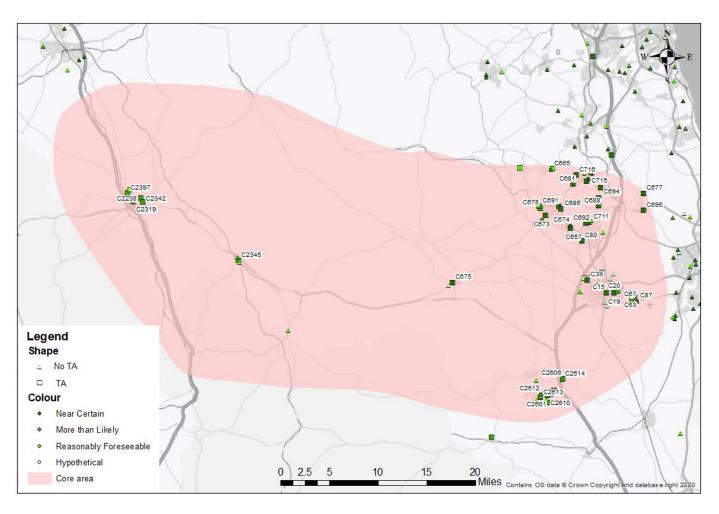


Figure 5-3: Core Area Residential Developments



- 5.4.8 The full list of all development sites in the uncertainty log is shown in **Appendix A Development Uncertainty Log**.
- 5.4.9 The following sites are of particular interest in terms of their size and location in the A66 corridor area, all of which are included in the core scenario:
 - A66 route:
 - C2615 Scotch Corner Designer Outlet 23,258m² GFA.
 - C2618 Scotch Corner Garden Centre 10,761m² GFA.
 - C2238 Residential Development at Carleton Fields, Carleton Heights, Penrith 505 houses.
 - North Penrith:
 - C2397 Residential Development at Raiselands Farm, Penrith 299 houses.
 - C2457– Eden 41 Business Park 420 estimated jobs.
 - · County Durham:
 - C716 Residential Development Whitworth Park 726 houses.
 - C686 Land South of Douglas Crescent houses 500 houses.
 - Catterick Garrison:
 - C69 DIO Catterick Service Family Accommodation (Breckenbrough Lane) – 155 houses.
 - C2631 Residential Development at Catterick Garrison 160 houses.
 - Darlington:
 - C630 Employment development at Ingenium Parc 1,536 estimated jobs.
 - C39 West Park Garden Village 1,200 houses.
 - C175 Lingfield Point 1140 estimated jobs.
- 5.4.10 The uncertainty log identifies a large area of residential development at Carleton, Penrith, and significant development anticipated in Darlington, as this is identified in the core scenario it indicates that it is not dependent on the A66 Project.



6 Reference Forecast Demand and Supply

6.1 National Trip End Model

- 6.1.1 The DfT NTEM (National Trip End Model) provides growth figures for trip origin and destination (or production/attraction⁵). The forecasts consider population, employment, housing, car ownership and trip rates.
- 6.1.2 Growth in demand is expressed by the number of trip ends providing an estimate of the total number of trips to or from a zone, split by trip purpose, mode and time period. Spatially they are disaggregated across an NTEM zoning system, covering the whole of Great Britain. NTEM zones for England and Wales are consistent with Middle Super Output Area (MSOAs), whilst for Scotland, NTEM zones are an aggregation of Data Zones (DZs).
- 6.1.3 NTEM v7.2 has been used for the Stage 3 model forecasting to calculate growth factors for both car and rail uses.
- 6.1.4 Table 6-1 to Table 6-6 show NTEM growth for the forecast model years by the following trip purposes:
 - Home-based work (HBW)
 - Home-based employer's business (HBEB)
 - Home-based other (HBO)
 - All Purposes
- 6.1.5 The tables show increases by Production (P) and Attraction (A).

Table 6-1: 2019 - 2029 NTEM v7.2 Car Trip Growth

Region	HBW		НВЕВ		НВО		All Purposes	
	Р	A	Р	A	Р	A	Р	A
North East	6.9%	6.9%	8.2%	8.2%	8.8%	8.8%	8.0%	8.0%
North West	6.2%	6.2%	7.1%	7.1%	8.5%	8.5%	7.5%	7.5%
Other Regions	5.8%	5.8%	6.9%	6.9%	10.9%	10.9%	8.8%	8.8%
All Regions	5.9%	5.9%	7.0%	7.0%	10.6%	10.6%	8.6%	8.6%

Table 6-2: 2019 - 2044 NTEM v7.2 Car Trip Growth

Region	HBW	/ HE		В НВС		НВО		All Purposes	
	Р	A	Р	A	Р	A	Р	A	
North East	17.0%	17.0%	20.3%	20.3%	21.5%	21.5%	19.6%	19.6%	
North West	15.2%	15.2%	17.6%	17.6%	20.6%	20.6%	18.3%	18.3%	
Other Regions	14.1%	14.1%	16.9%	16.9%	24.3%	24.3%	20.0%	20.0%	
All Regions	14.4%	14.4%	17.1%	17.1%	23.8%	23.8%	19.8%	19.8%	

⁵ Home-based trip ends are split by production (home) and attraction (the reason for travel). Across a suitably large geographical area, it is usually best to scale the attractions to match the productions, as the productions are based on the most relevant and reliable data (resident population) and the fit of production trip ends to planning assumptions is usually better.

Planning Inspectorate Scheme Reference: TR010062 Application Document Reference: TR010062/APP/3.8



Table 6-3: 2019 - 2051 NTEM v7.2 Car Trip Growth

Region	HBW		НВЕВ	HBEB HB		НВО		All Purposes	
	Р	A	Р	A	Р	A	Р	A	
North East	21.7%	21.7%	26.2%	26.2%	28.3%	28.3%	25.6%	25.6%	
North West	19.6%	19.6%	22.9%	22.9%	26.9%	26.9%	23.7%	23.7%	
Other Regions	18.2%	18.2%	22.0%	22.0%	30.1%	30.1%	25.1%	25.1%	
All Regions	18.5%	18.5%	22.3%	22.3%	29.6%	29.6%	24.9%	24.9%	

Table 6-4: 2019 - 2029 NTEM v7.2 Rail Trip Growth

Region	HBW		HBEB		НВО		All Purposes	
	Р	A	Р	A	Р	A	Р	A
North East	-0.9%	-0.9%	-2.6%	-2.6%	-4.4%	-4.4%	-2.2%	-2.2%
North West	-0.3%	-0.3%	-1.5%	-1.5%	-2.6%	-2.6%	-1.1%	-1.1%
Other Regions	3.1%	3.1%	3.0%	3.0%	4.3%	4.3%	3.6%	3.6%
All Regions	2.9%	2.9%	2.5%	2.5%	3.5%	3.5%	3.1%	3.1%

Table 6-5: 2019 - 2044 NTEM v7.2 Rail Trip Growth

Region	HBW		НВЕВ		НВО		All Purposes	
	Р	А	Р	А	Р	A	Р	A
North East	-1.1%	-1.1%	-3.1%	-3.1%	-6.1%	-6.1%	-2.6%	-2.6%
North West	-0.1%	-0.1%	-1.1%	-1.1%	-2.3%	-2.3%	-0.4%	-0.4%
Other Regions	6.4%	6.4%	7.1%	7.1%	9.6%	9.6%	7.7%	7.7%
All Regions	6.0%	6.0%	6.1%	6.1%	8.2%	8.2%	6.9%	6.9%

Table 6-6: 2019 - 2051 NTEM v7.2 Rail Trip Growth

Region	HBW		НВЕВ		НВО		All Purposes	
	Р	A	Р	A	Р	A	Р	A
North East	-1.1%	-1.1%	-2.6%	-2.6%	-5.7%	-5.7%	-2.1%	-2.1%
North West	0.1%	0.1%	-0.2%	-0.2%	-1.6%	-1.6%	0.3%	0.3%
Other Regions	7.6%	7.6%	9.1%	9.1%	10.9%	10.9%	9.0%	9.0%
All Regions	7.0%	7.0%	8.0%	8.0%	9.4%	9.4%	8.1%	8.1%

6.2 Goods Vehicles

6.2.1 Freight growth factors for goods vehicles are based on Road Traffic Forecasts (RTF) 2018 Scenario 1 which uses central projections of GDP, fuel price, and population. RTF data is provided on a five yearly basis from 2015 to 2050. Factors for the modelled years were calculated by interpolating the RTF data.



6.2.2 LGV and HGV growth from the RTF data used for forecasting are provided in Table 6-7 and Table 6-8.

Table 6-7: RTF Growth vs 2019 - LGVs

Region	2029	2044	2051
North East	12%	34%	42%
North West	11%	33%	41%
Yorkshire and Humber	15%	37%	45%
East Midlands	13%	35%	43%
Eastern England	11%	33%	41%
South East	12%	34%	42%
London	11%	33%	40%
South West	13%	36%	44%
West Midlands	12%	34%	42%
Wales	11%	34%	41%
All Regions	12%	34%	42%

Table 6-8: RTF Growth vs 2019 - HGVs

Region	2029	2044	2051
North East	-1%	3%	5%
North West	4%	13%	17%
Yorkshire and Humber	1%	4%	5%
East Midlands	-1%	2%	3%
Eastern England	0%	3%	5%
South East	4%	14%	19%
London	0%	2%	3%
South West	0%	5%	7%
West Midlands	0%	5%	7%
Wales	0%	3%	5%
All Regions	1%	7%	9%

6.2.3 Growth for Scotland was assumed the same as that for England and Wales in line with the assumption made withing the development of RTM2.

6.3 Ports and Airports

Ports

- 6.3.1 The following ports fall within the model simulation area:
 - Sunderland
 - Teesside
 - Tyneside



- 6.3.2 Minor ports also exist on the Cumbria coast, but are not considered significant for freight traffic due to their relatively low demand (DfT Port freight annual statistics).
- 6.3.3 For ports, the same DfT Road Traffic forecasts described for goods vehicles were used, which follows the approach taken in the NRTM for LGV and HGV port traffic. HGV growth from historic cargo trends using information within the DfT UK major ports data set was not used based on comments in the NRTM Forecasting Report implying limitations in the representation of Base model HGV port demand and also limitations in using forecasts based on historic trends rather than future economic conditions as incorporated in the DFT RTF18 forecasts.

Airports

- 6.3.4 TAG Unit M4 indicates that the NTEM dataset includes all trip end productions for surface access trips to airports but does not include surface travel for airline passengers.
- 6.3.5 The following two airports exist in the model simulation area:
 - Newcastle Airport; and
 - Durham Tees Valley Airport.
- 6.3.6 Newcastle is an international airport and modelled as an individual zone, whereas Durham Tees Valley is small scale operation which is included as part of another zone and therefore not modelled in detail.
- 6.3.7 For Newcastle airport the same approach taken in the A66 Transport Model at Stage 1 and 2, and the NRTM before that, has been applied by adding in airport passenger surface access trips to the demand matrices based on data from the DfT National Air Passenger Allocation Model (NAPALM).
- 6.3.8 Newcastle airport passenger growth factors from 2019 to each forecast model year are shown in Table 6-9.

Table 6-9: Newcastle Airport Passenger Growth Factors

Year	Growth Factor
2029	1.22
2044	1.57
2051	1.76

6.3.9 The airline passenger demand includes demand in the Car Employers Business and Car Other segments and uses corresponding demand model values of time in the forecasts.

6.4 Development Trips

- 6.4.1 Trips for developments selected to be explicitly represented in the model forecast demand have been included as follows:
 - Trip generation establish the number of trips produced or attracted to development sites based on quantum of households or jobs;



- Trip distribution distribute the development trips across the model zone system, based on existing distributions within the model; and
- Constraining to Balancing Areas controlling overall trip growth so that the development and background trips comply with NTEM growth forecasts. The NTEM control is applied using designated balancing areas.

Trip Generation

- 6.4.2 With the Uncertainty log providing numbers of dwellings and jobs per site, trip ends were established for each development as follows:
 - Car trip rates taken from NTEM v7.2, establishing trip rates per dwelling or job for each model demand segment.
 - Goods vehicles the proportion of goods vehicles per car trip end were calculated using the TRICS 7.6.2 database, selecting a comprehensive set of sites across England, Wales and Scotland to derive different proportions for the development types used in the uncertainty log. Proportions were calculated by comparing TRICS goods trips rates against the TRICS car trip rates.
- 6.4.3 With using the TRICS database for goods trips, very few, if any, sites existed with matching geographical and employment profiles as our developments. Therefore, data from the whole of England, Wales and Scotland was used to give a good sample of representative sites.
- 6.4.4 Employment sites from the uncertainty log were classified into the different TRICS employment type categories, with sites of a mixed nature being allocated across more than one employment type. Using TRICS data in this way provides a suitable representation of goods vehicle development trips in the absence of NTEM goods vehicle trip rates.
- 6.4.5 Rather than apply the goods trip rates directly to the uncertainly log developments, the proportion of goods trips to car trips was calculated and subsequently applied to the NTEM car trip rates. The proportion system was used due to the discrepancy in NTEM car trip rates to that of TRICS. Forecasting the goods trips as a proportion of car trips ensures the relative trip rates per land use type are respected whilst also retaining a proportionate ratio of trips between cars and goods vehicles.
- 6.4.6 Car trip rates used are summarised below in Table 6-10 for Local Authorities situated in the Core model area.

Table 6-10: Car vehicle trip rates from NTEM

Local	НВЕВ		HBW		НВО		NHBEB		NHBO	
Authority	Prod	Attr	Prod	Attr	Prod	Attr	Orig	Dest	Orig	Dest
			24	-hour tri	p rates	per job				
Cleveland	0.00	0.05	0.00	0.35	0.00	0.54	0.07	0.07	0.23	0.23
Durham	0.00	0.05	0.00	0.35	0.00	0.51	0.07	0.07	0.23	0.22



Local	HBEB		HBW		НВО		NHBEB		NHBO	
Authority	Prod	Attr	Prod	Attr	Prod	Attr	Orig	Dest	Orig	Dest
Cumbria	0.00	0.05	0.00	0.34	0.00	0.53	0.07	0.07	0.22	0.23
North Yorkshire	0.00	0.05	0.00	0.34	0.00	0.52	0.07	0.07	0.23	0.22
			24-h	our trip i	rates pe	r dwellin	ng			
Cleveland	0.05	0.00	0.33	0.00	0.60	0.09	0.00	0.00	0.00	0.00
Durham	0.05	0.00	0.36	0.00	0.62	0.09	0.00	0.00	0.00	0.00
Cumbria	0.06	0.00	0.38	0.00	0.68	0.09	0.00	0.00	0.00	0.00
North Yorkshire	0.06	0.00	0.40	0.00	0.71	0.10	0.00	0.00	0.00	0.00

6.4.7 The proportion of goods vehicles forecast per development type are shown below in Table 6-11 at a 24 hour level.

Table 6-11: Goods vehicle trip rate proportions calculated from TRICS

Local Authority	LGV	HGV
Office	5%	1%
Business Park	5%	1%
Industrial Unit	5%	1%
Industrial Estate	6%	1%
Warehousing	13%	9%
Hotels	23%	8%
Residential	40%	3%

In addition to trip rates being developed and applied, an extensive data collection exercise was undertaken to collate the Transport Assessments (TA) developed for each of the developments listed in the uncertainty log. Where available, forecast trip levels were generally only provided for the peak hours. Therefore, where TAs were available, NTEM trip rates for the respective developments were scaled to align with those forecast by the detailed assessments. The trips forecast for each development considered can be found in Table 11-2 in **Appendix A – Development Uncertainty Log**.



Trip Distribution

- 6.4.9 To distribute the generated trips, developments were assigned to model zones primarily based on their location. Where a site area covered multiple zones, a single zone was chosen based on land usage composition being most like the development. The distribution from these assigned zones was then used to distribute the trips using a SATURN based approach taking distribution proportions from the base matrix.
- 6.4.10 The Eden 41 Business Park and Scotch Corner Designer Outlet were deemed too large and close to the Project to load onto an existing zone, and without the supporting existing network connectivity. Two new zones were therefore created specifically for these developments. The trip distributions for these new zones were sourced from multiple nearby zones providing distribution compositions considered similar in land usage to the respective developments.
- 6.4.11 For the Scotch Corner Retail Park, trip distribution is based on multiple donor zones selected nearby to the site covering a mix of rural and urban locations, including Darlington town centre, to reflect the different trip patterns that would be expected at the site.

Balancing Areas

- Balancing areas were used to control background growth to a level which results in an overall growth, including the development trips, in line with NTEM. Balancing areas are collections of zones, in this case representing grouped District areas, where the demand will be constrained to an overall growth level for each forecast year.
- 6.4.13 The balancing areas used are shown in Figure 6-1.The 'External Model Areas' balancing area represents areas where there are no explicitly modelled developments.



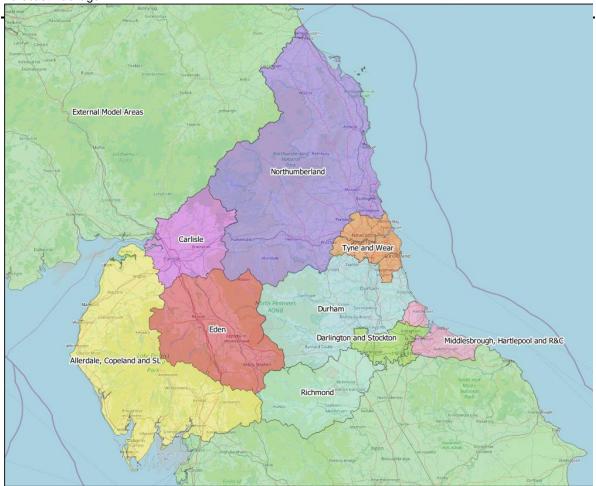


Figure 6-1: Balancing Areas

6.4.14 The balancing areas were used in HEIDI as part of its standard approach to forecast demand development process.

6.5 Combined Reference Forecast Demand

6.5.1 The reference forecast refers to the forecast demand growth factors being applied to the base demand but without taking account of changes in cost which are later included through VDM. These matrix totals are presented for Employer's Business (EB), Commute, Other, LGV and HGV user classes in Table 6-12, Table 6-13 and Table 6-14 below.

Table 6-12: Highway Reference Forecast Demand - AM Peak (pcu/hr)

Vehicle type/ purpose	2019 Base	2029 Ref	Growth %	2044 Ref	Growth %	2051 Ref	Growth %
EB	579,018	618,377	6.80%	675,028	16.58%	703,389	21.48%
Commute	3,302,016	3,500,883	6.02%	3,785,833	14.65%	3,924,863	18.86%
Other	1,646,480	1,815,335	10.26%	2,029,278	23.25%	2,125,006	29.06%
LGV	751,106	842,229	12.13%	1,009,005	34.34%	1,065,760	41.89%
HGV	284,138	283,591	-0.19%	294,772	3.74%	300,131	5.63%
Total	6,562,758	7,060,415	7.58%	7,793,917	18.76%	8,119,149	23.72%



Table 6-13: Highway Reference Forecast Demand - IP Peak (pcu/hr)

Vehicle type/ purpose	2019 Base	2029 Ref	Growth %	2044 Ref	Growth %	2051 Ref	Growth %
EB	508,367	542,564	6.73%	591,676	16.39%	616,210	21.21%
Commute	1,300,580	1,379,132	6.04%	1,491,595	14.69%	1,546,497	18.91%
Other	2,918,620	3,219,595	10.31%	3,599,782	23.34%	3,769,546	29.16%
LGV	561,879	630,230	12.16%	755,024	34.37%	797,483	41.93%
HGV	267,153	266,621	-0.20%	277,128	3.73%	282,166	5.62%
Total	5,556,599	6,038,142	8.67%	6,715,204	20.85%	7,011,902	26.19%

Table 6-14: Highway Reference Forecast Demand - PM Peak (pcu/hr)

Vehicle type/ purpose	2019 Base	2029 Ref	Growth %	2044 Ref	Growth %	2051 Ref	Growth %
EB	605,848	646,883	6.77%	705,853	16.51%	735,365	21.38%
Commute	2,716,123	2,880,057	6.04%	3,114,865	14.68%	3,229,375	18.90%
Other	3,225,905	3,561,127	10.39%	3,984,065	23.50%	4,172,809	29.35%
LGV	546,359	612,634	12.13%	733,940	34.33%	775,217	41.89%
HGV	199,293	198,917	-0.19%	206,783	3.76%	210,551	5.65%
Total	7,293,528	7,899,617	8.31%	8,745,506	19.91%	9,123,317	25.09%

6.5.2 Input and output model growth by vehicle type/ purpose for each forecast year is shown below in Table 6-15, comparing trip growth from NTEM or RTF (input trip growth) and the trip growth from the SATURN reference matrices (output trip growth), across the full model. The table shows the growth in the reference case matrices align with that in the respective forecast at a national level.

Table 6-15: Input and Model Vehicle Trip Growth

Vehicle type/	2029		2044		2051	
purpose	NTEM/ RTF	Model	NTEM/ RTF	Model	NTEM/ RTF	Model
Car – EB	6%	7%	15%	16%	20%	21%
Car – Commute	5%	6%	14%	15%	18%	19%
Car – Other	9%	10%	22%	23%	28%	29%
LGV	12%	12%	34%	34%	42%	42%
HGV	1%	0%	7%	4%	9%	6%

6.6 Dependent Development

6.6.1 Dependent development refers to new development that is dependent on the provision of a transport scheme and for which, with the new development but in the absence of the transport scheme, the existing transport network would not provide a reasonable level of service to existing and/or new users. This has the implication that the development would not be delivered in the absence of the transport scheme.



6.6.2 Based on the information listed in uncertainty log no dependant supply or land use developments were identified. Accordingly, dependency testing has not been undertaken.

6.7 Forecast Networks

Do Minimum Network

6.7.1 The Do Minimum (DM) forecast networks reflect the base 2019 year but with the addition of the following core scenario schemes from the uncertainty log, included in all forecast years.

Table 6-16: Schemes included in Forecast Models

	Scheme name	Description	Opening year
		RIS1 Highways England Schemes	
1	A19/A1058 Coast Road	Upgrade to fully grade separated three level interchange serving the A19 and A1058 Coast Road	2019 (April)
2	A19 Testos	Full grade separated junction with flyover for the A19	2021
3	A1 Northumberland	Alnwick to Ellingham and Morpeth to Felton dualling	2024
4	A1 Northumberland Mousen Bends	Dualling of 3-mile section between Belford and Adderstone incorporating the Mousen Bends	2028
5	A1 Scotswood	Widening within the existing highway boundary to three lanes between junctions	2022/23
6	A1 Birtley to Coal House	Improving 4 miles of the A1 by widening of the carriageway between junctions 65 (Birtley) and 67 (Coal House)	2024/25
7	A19 Norton Wynyard	Widening of the A19 between Norton and Wynyard in both directions from two to three lanes	2022
8	A19 Downhill Lane	Construction of a new bridge to the south of the existing A1290 bridge across the A19	2022
9	A69 Junction Upgrades	Grade separate Bridge End and Styford Roundabout at Hexham and Corbridge to make route between Newcastle and Hexham fully grade separated.	2022 (Hexham)
10	A19 Elwick Closures	Safety improvements on the A19. Gaps closed that previously allowed right turns at Elwick North, Elwick South and Dalton Piercy on the A19	2019 October
		Local Highway Schemes	
11	A167 Sunderland Bridge	A167/B6300 Sunderland Bridge Improvement. T-junction replaced with roundabout	2020
12	Carlisle Southern Link Road	New road connecting Junction 42 M6 with the A595 to the West. Route will include new junctions linking existing radial routes into Carlisle and the Garden Village	2024
13	Cumbria – Brigham Broughton	Upgrade to replace staggered junction at Broughton Brigham on A66 with a four-arm roundabout	2026
14	Northallerton Link Road	New link road and overbridge to join two new developments at Northallerton	2022



	Scheme name	Description	Opening year
15	Wallsend Road, Howdon	New signals at Wallsend Road/Howdon A19 junction	2020
16	Whitehouse Farm North Tyneside	Circulatory carriageway widening on the A188/A189 roundabout and new signalised crossing points	2022
17	South Tees Improvements	Improvements to South Tees site access points, Trunk Road, Dockside Road, Cargo Fleet Roundabout, Southern Cross Improvements Stainton Way/Dixons Bank, Stainton Way Western Extension, A19 Mandale Interchange and Mandale Roundabout, Longlands to Ladgate Lane, Eston Road Signals	2029 onwards

6.7.2 The location of the schemes are shown in the figure below.



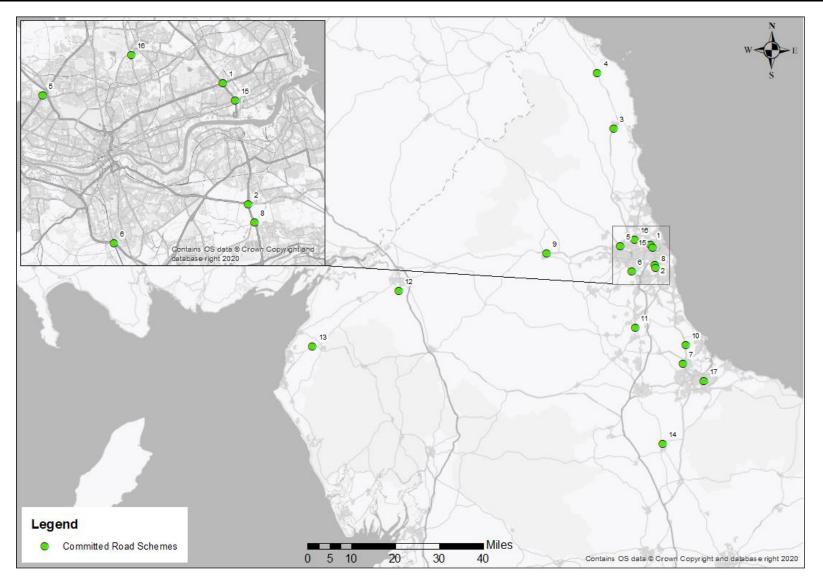


Figure 6-2: Committed Highway Schemes



Do Something Network

6.7.3 The Do Something (DS) network reflects the DS forecast network but with the addition of the A66 Northern Trans-Pennine Route Project Route which is divided into 9 sections, as shown in Table 6-17.

Table 6-17: A66 Corridor NTPP Assumptions

Scheme Number	A66 Corridor Location	Description
01	M6 Junction 40 Penrith	Three-lane circulatory and signalised flared four lane junction approaches
02	M6 Junction 40 to Kemplay Bank	Introduction of an Underpass at the Kemplay Bank Junction. Section between junction 40 and east of Kemplay reduced to 50mph
03	Penrith to Temple Sowerby (Center Parcs)	Online dualling between Penrith and Temple Sowerby.
04/05	Temple Sowerby to Appleby	Blue Option - Primarily offline dualling around Kirkby Thore and Crackenthorpe.
06	Appleby to Brough (Warcop)	Black-Blue-Black – A mix of both online and offline dualling between Appleby and Brough
07	Bowes Bypass	Online dualling with a new Bridge on the Bowes Bypass
08	Cross Lanes to Rokeby	Mostly online dualling between Boldron and Greta Bridge. Cross Lanes junction west of Moorhouse Lane and Rokeby junction west of Rokeby Park.
09	Stephen Bank to Carkin Moor (Layton)	A mix of online and offline dualling between Smallways and Forcett Lane. Westbound merge provided at Browson Bank
11	A1(M) Junction 53 Scotch Corner	Minor upgrades to junction

6.7.4 Table 6-18 below shows the two-way average route length between Scotch Corner and M6 J40 for the DM and DS networks.

Table 6-18: A66 Corridor NTPP Assumptions

Scenario	A66 Corridor distance (km)
Do Minimum	79.8
Do Something	80.2

- 6.7.5 The M6 J40 and Kemplay Bank junctions sit at the Penrith end of the A66 corridor, and the Scotch Corner junction at the A1(M) end.
- 6.7.6 The proposed design at Junction 40 shown in Figure 6-3 includes the following features:
 - A 3-lane circulatory carriageway with spiral markings on roundabout
 - Widening on all 5 approach arms to provide additional lanes and controlled under their own signal phase –this provides a better alignment on approaches; preserves the operation and use of the
 - current depot and emergency services accesses; maintains the active travel route on the western side of the junction by accommodating



controlled toucan crossings facilities; and reduces the land take and environmental impact at the junction.

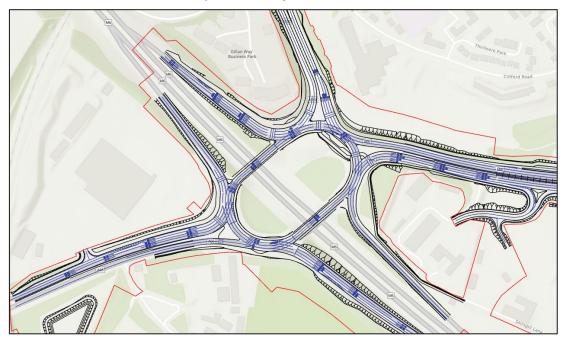


Figure 6-3: M6 Junction 40 scheme design

- 6.7.7 The proposal includes for conversion of the existing at grade roundabout at Kemplay junction shown in Figure 6-4 into a grade separated interchange with the A66 being placed in an underpass beneath the existing junction, removing between 35 to 50% of the traffic that would otherwise flow through the roundabout. Kemplay Bank will remain signalised with provision for pedestrians to cross through the centre of the junction. The design provides for:
 - single lane approaches on the A66 offslips; and
 - flared approaches on the remaining arms (A6 north and south) and the A689.



Figure 6-4: A6 / A66 Kemplay Bank scheme design



6.7.8 The proposal at Scotch Corner, shown in Figure 6-5, shows a minor improvement to the Middleton Tyas Arm, and a whitelining exercise to provide three circulatory carriageway lanes on the circulatory carriageway on the northern A1(M) overbridge. This junction was recently upgraded as part of the A1 between Leeming Bar and Barton scheme which was completed in August 2018.

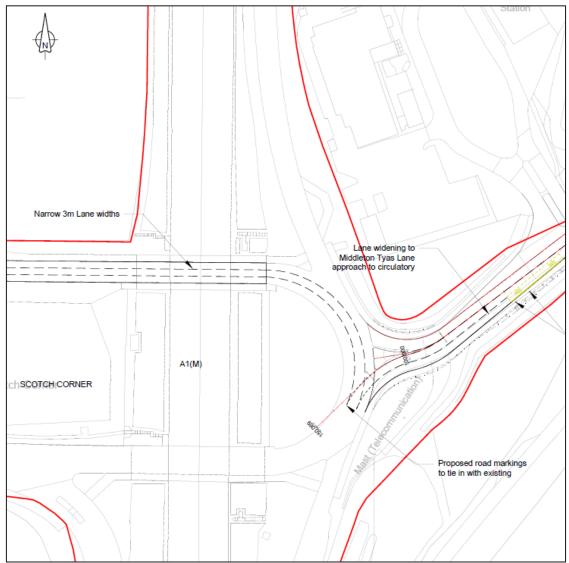


Figure 6-5: A1(M) Jnc 53 Scotch Corner scheme design



7 Equilibrium Forecast Demand

7.1 Reference Forecast Travel Costs

- 7.1.1 The VDM is an incremental pivot-point model which runs in DIADEM software. The pivot point from which all model forecasts are consistently prepared is from the base scenario. The base scenario has:
 - Travel demand identical to the calibrated base year
 - Public transport (rail) supply identical to the calibrated base year
 - Highway supply identical to the calibrated base year
- 7.1.2 The VDM model applies to the simulation and buffer area and predicts the responses of:
 - Mode choice
 - Destination choice
 - Macro time of day choice
- 7.1.3 VDM does not predict change in travel behaviour for:
 - · Heavy Goods vehicles
 - Light Goods vehicles
 - Passenger surface access to Newcastle Airport
- 7.1.4 Only Car available rail travel demand is included. Non-Car available demand that is captive to public transport has been excluded.

7.2 VDM Generalised Costs

7.2.1 The methodology for using generalised costs in the forecast models align with the NRTM development methodology. The growth between 2019 and future year generalised costs in the v1.17 November Databook has been applied to the 2019 v1.15 Databook values to calculate forecast VoT and VoC parameters for the forecast years 2029, 2044 and 2051.

Table 7-1: Value of Time Costs 2029 Parameters - PPM

Element	User Class	AM Peak	Inter Peak	PM Peak
	Employers Business	34.34	35.19	34.84
	Commute	23.03	23.41	23.11
	Other	15.89	16.93	16.64
		24.89	24.89	24.89
		49.78	49.78	49.78

Table 7-2: Vehicle Operating Cost 2029 Parameters - PPK

Element	User Class	AM Peak	Inter Peak	PM Peak
	Employers Business	10.97	10.97	10.97
	Commute	5.28	5.28	5.28
	Other	5.28	5.28	5.28
		13.20	13.20	13.20



Element	User Class	AM Peak	Inter Peak	PM Peak
		41.27	41.27	41.27

Table 7-3: Value of Time Costs 2044 Parameters – PPM

Element	User Class	AM Peak	Inter Peak	PM Peak
Car	Employers Business	42.34	43.39	42.95
	Commute	28.39	28.86	28.49
	Other	19.59	20.87	20.51
LGV		30.68	30.68	30.68
HGV		61.37	61.37	61.37

Table 7-4: Vehicle Operating Cost 2044 Parameters – PPK

Element	User Class	AM Peak	Inter Peak	PM Peak
	Employers Business	8.59	8.59	8.59
	Commute	4.01	4.01	4.01
	Other	4.01	4.01	4.01
		11.56	11.56	11.56
		38.81	38.81	38.81

Table 7-5: Value of Time Costs 2051 Parameters – PPM

Element	User Class	AM Peak	Inter Peak	PM Peak	
	Employers Business	46.34	47.48	47.01	
	Commute	31.08	31.58	31.18	
	Other	21.21	22.84	22.45	
		33.58	33.58	33.58	
		67.16	67.16	67.16	

Table 7-6: Vehicle Operating Cost 2051 Parameters – PPK

Element	User Class	AM Peak	Inter Peak	PM Peak
	Employers Business	8.31	8.31	8.31
	Commute	3.86	3.86	3.86
	Other	3.86	3.86	3.86
		11.13	11.13	11.13
		39.22	39.22	39.22



7.3 VDM Convergence Statistics

- 7.3.1 VDM convergence data for the DM and DS model runs are provided below in Table 7-7. The following convergence criteria are set, which have been carried across from Stage 2 and are consistent with NRTM:
 - Global GAP 0.1%
 - Sub-Area GAP 0.2%

Table 7-7: VDM convergence data

Scenario	Year	No. of Loops	Global GAP	Sub-Area GAP
	2029	4	0.03%	0.10%
	2044	5	0.01%	0.12%
	2051	6	0.01%	0.19%
	2029	4	0.02%	0.09%
	2044	5	0.02%	0.13%
	2051	6	0.01%	0.20%

7.3.2 The results show that the demand model converges across all scenarios within a satisfactory number of DIADEM loops. Reasonable run times were experienced across all runs.

7.4 Impacts of VDM

- 7.4.1 The forecast travel demand for all movements is shown in the tables below, showing change in demand through assumed trip growth and VDM response for the following scenarios:
 - Base;
 - Reference Forecast (pre-VDM) future year trip growth only (pre-VDM);
 - DM (post-VDM)

 reference demand with VDM impact based on DM supply changes
 - DS (post-VDM) reference demand with VDM impact based on DS supply changes
- 7.4.2 The changes summarise impacts by mode, time periods and purpose.
- 7.4.3 Table 7-8 provides a summary of forecast travel demand over 24 hours by mode for Car and PT (Rail).



Table 7-8: VDM Forecast Travel Demand by Mode

Mode	Year	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
	2029	76,664,726	83,068,932 (8.4%)	83,149,215 (0.1%)	83,149,236 (0.1%)
	2044		91,543,778 (19.4%)	91,741,219 (0.2%)	91,741,241 (0.2%)
	2051		95,471,427 (24.5%)	95,692,371 (0.2%)	95,692,398 (0.2%)
	2029	2,485,470	2,625,220 (5.6%)	2,521,978 (-3.9%)	2,521,952 (-3.9%)
	2044		2,814,507 (13.2%)	2,563,380 (-8.9%)	2,563,352 (-8.9%)
	2051		2,898,727 (16.6%)	2,617,584 (-9.7%)	2,617,551 (-9.7%)

- 7.4.4 These results by mode over 24 hours show that the growth in demand from base to reference forecast satisfactorily reflects the NTEM growth applied (as shown in Table 6-1 to Table 6-6). The scale of VDM impact in the DM versus the reference forecast shows absolute car demand increase of a similar scale to rail demand decrease, reflecting the mode shift in the future years as the balance between highway and rail travel cost changes
- 7.4.5 Table 7-9 shows the Car forecast travel demand by model time period.

Table 7-9: Forecast car demand by model time period

Year	Time Period	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
	AM	15,406,734	16,540,895 (7.4%)	16,553,547 (0.1%)	16,553,439 (0.1%)
	IP	28,389,318	30,873,474 (8.8%)	30,906,456 (0.1%)	30,906,924 (0.1%)
	PM	17,626,446	19,079,993 (8.2%)	19,092,863 (0.1%)	19,092,840 (0.1%)
	ОР	15,242,228	16,574,570 (8.7%)	16,596,349 (0.1%)	16,596,033 (0.1%)
	AM	15,406,734	18,089,367 (17.4%)	18,116,220 (0.1%)	18,116,123 (0.1%)
	IP	28,389,318	34,127,026 (20.2%)	34,206,511 (0.2%)	34,207,169 (0.2%)
	PM	17,626,446	21,009,270 (19.2%)	21,040,098 (0.1%)	21,039,973 (0.1%)
	ОР	15,242,228	18,318,115 (20.2%)	18,378,390 (0.3%)	18,377,976 (0.3%)
	AM	15,406,734	18,822,766 (22.2%)	18,853,909 (0.2%)	18,853,806 (0.2%)
	IP	28,389,318	35,623,806 (25.5%)	35,710,461 (0.2%)	35,711,211 (0.2%)
	PM	17,626,446	21,905,183 (24.3%)	21,936,383 (0.1%)	21,936,314 (0.1%)
	OP	15,242,228	19,119,672 (25.4%)	19,191,618 (0.4%)	19,191,068 (0.4%)



- 7.4.6 Across the time periods the VDM response from reference forecast to DM is slightly larger in the IP and OP, reflecting time period impacts and the small shift in Car demand from AM and PM to the less busy time periods. In the DS the demand totals are very similar to the DM as would be expected across a model of this size where demand represents the whole of mainland UK.
- 7.4.7 Table 7-10 shows the car forecast travel demand by trip purpose. Home and Non-home-based purposes are combined for the Business and Other purposes.

Table 7-10: Forecast car demand by trip purpose

Year	Time Period	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
	Business	7,964,169	8,501,585 (6.7%)	8,511,353 (0.1%)	8,511,363 (0.1%)
	Commute	28,451,102	30,167,155 (6.0%)	30,218,123 (0.2%)	30,218,130 (0.2%)
	Other	40,249,455	44,400,192 (10.3%)	44,419,739 (0.0%)	44,419,744 (0.0%)
	Business	7,964,169	9,273,926 (16.4%)	9,297,957 (0.3%)	9,297,969 (0.3%)
	Commute	28,451,102	32,625,713 (14.7%)	32,753,954 (0.4%)	32,753,959 (0.4%)
	Other	40,249,455	49,644,139 (23.3%)	49,689,308 (0.1%)	49,689,313 (0.1%)
	Business	7,964,169	9,659,947 (21.3%)	9,685,493 (0.3%)	9,685,506 (0.3%)
	Commute	28,451,102	33,825,513 (18.9%)	33,969,931 (0.4%)	33,969,938 (0.4%)
	Other	40,249,455	51,985,968 (29.2%)	52,036,947 (0.1%)	52,036,953 (0.1%)

- 7.4.8 The scale of demand growth from base to reference forecast scenario satisfactorily reflects the NTEM growth proportions presented earlier in Table 6-1 to Table 6-3.
- 7.4.9 Appendix B contains tables of sectored demand showing the Reference Case demand and the absolute and proportional change to the Do Minimum and Do Something. The appendix contains tables for all modelled years and journey purposes at a 24-hour level. The tables show that between the Reference Case and the Do Minimum Growth in demand in all years relative to the Base year for all car movements, apart from the intra sector movements, and movements between nearby sectors. This is indicative of a general re-distribution of trips with destination choice in the VDM. A general increase in longer distance movements cam also be seen, which is also indicative of a general redistribution of trips with destination choice in the VDM.
- 7.4.10 The appendix also contains a comparison of the Do Minimum and the Do Something. The Project can be seen to be increasing trips across the Pennines, for example between sectors in the west such as Eden and Carlisle and sectors in the east such as Durham and Darlington, Stockton and Hartlepool, generally at the expense of intra sector trips. This is the expected result of a Project that improves trans Pennine connectivity.



8 Assignment Results

8.1 Highway Assignment Model Convergence

8.1.1 TAG Unit M3.1 provides guidance on assignment model convergence and stability, which is set out below in Table 8-1, and has been used as the acceptability convergence criteria for the model.

Table 8-1: Convergence Criteria - TAG Unit M3.1

Measure	Criteria
Convergence Gap	Adopt TAG criteria 0.1%
Percentage of links with flow change (P)<1%	Adopt TAG criteria – 4 iterations >98%
Percentage of links with cost change (P2)<1%	Adopt TAG criteria – 4 iterations >98%

- 8.1.2 Highway assignment model convergence for each forecast scenario is presented in tables Table 8-2 to Table 8-7. Convergence has been assessed for the final four loops of the following scenarios:
 - DM 2029 (Table 8-2)
 - DM 2044 (Table 8-3)
 - DM 2051 (Table 8-4)
 - DS 2029 (Table 8-5)
 - DS 2044 (Table 8-6)
 - DS 2051 (Table 8-7)

Table 8-2: DM Convergence Statistics (2029)

AM Peak			Inter Peak			PM Peak		
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP
18	98.7	0.000	18	98.6	0.000	35	98.5	0.001
19	98.6	0.001	19	98.8	0.000	36	99.1	0.001
20	98.7	0.000	20	98.5	0.000	37	98.8	0.001
21	99.0	0.000	21	99.2	0.000	38	99.1	0.001

Table 8-3: DM Convergence Statistics (2044)

AM Peak			Inter Peak			PM Peak		
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP
29	98.7	0.001	25	98.7	0.000	28	98.8	0.002
30	98.6	0.001	26	98.8	0.000	29	98.8	0.001
31	98.8	0.001	27	98.9	0.000	30	98.9	0.001
32	98.5	0.001	28	98.9	0.000	31	98.6	0.001



Table 8-4: DM Convergence Statistics (2051)

AM Peak			Inter Peak			PM Peak		
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP
42	98.8	0.001	27	98.7	0.000	35	98.8	0.002
43	98.8	0.001	28	98.8	0.000	36	98.7	0.002
44	99	0.001	29	99	0.000	37	98.8	0.002
45	99.1	0.001	30	99.0	0.000	38	98.7	0.002

Table 8-5: DS Convergence Statistics (2029)

AM Peak			Inter Peak			PM Peak		
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP
19	98.5	0.000	18	98.8	0.000	29	98.6	0.001
20	98.8	0.000	19	98.5	0.000	30	98.9	0.001
21	98.8	0.001	20	99.1	0.000	31	98.8	0.002
22	98.7	0.000	21	98.9	0.000	32	98.7	0.001

Table 8-6: DS Convergence Statistics (2044)

AM Peak			Inter Pea	k		PM Peak		
Loop	% Flow	% GAP	Loop % Flow % GAP		% GAP	Loop	% Flow	% GAP
31	98.9	0.001	21	98.8	0.000	28	98.6	0.002
32	98.9	0.001	22	98.9	0.000	29	98.7	0.002
33	99.2	0.001	23	99.1	0.000	30	98.6	0.002
34	98.9	0.001	24	98.5	0.000	31	98.8	0.001

Table 8-7: DS Convergence Statistics (2051)

AM Peak			Inter Pea	k		PM Peak		
Loop	% Flow	% GAP	Loop % Flow % GAP		Loop	% Flow	% GAP	
46	98.8	0.001	26	98.6	0.001	34	98.6	0.003
47	99	0.001	27	98.8	0.000	35	98.7	0.002
48	98.6	0.001	28	28 98.7		36	98.8	0.002
49	99.1	0.001	29	99.0	0.000	37	98.7	0.002

8.1.3 The assignment convergence statistics provided in Table 8-2 to Table 8-7 show that all models converge within a reasonable number of iterations, such that the rate of improvement of the convergence statistics is uniform and does not slow significantly or bottom out as the stopping criterion are approached.

8.2 Forecast Network Performance

- 8.2.1 The network performance statistics are based on assigned traffic in the SATURN assignment model.
- 8.2.2 The tables below show the network statistic scenario values and differences between scenarios as follows:



- Table 8-8 Network Statistics, Values 2029
- Table 8-9 Network Statistics, Differences 2029
- Table 8-10 Network Statistics, Values 2044Table 8-11 Network Statistics, Differences – 2044
- Table 8-12 Network Statistics, Values 2051
- Table 8-13– Network Statistics, Differences 2051.

8.2.3 Values in the tables represent the following:

- Time Total Travel Time, pcu hours (000)
- Distance Total Distance Travelled, pcu kms (000)
- Speed Total Average Speed, kph
- Trips Total Trip, (pcu/hr)

Table 8-8: Network Statistics - Values 2029

Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
Reference	AM	1,845	128,636	70	1,657,070
Forecast	IP	1,291	93,093	72	1,248,207
	PM	1,768	123,303	70	1,671,213
DM Post VDM	AM	1,948	135,917	70	1,723,445
	IP	1,361	98,234	72	1,297,441
	PM	1,872	130,646	70	1,739,898
DS Post VDM	AM	1,948	135,952	70	1,723,432
	IP	1,361	98,286	72	1,297,536
	PM	1,872	130,701	70	1,739,929

Table 8-9: Network Statistics - comparisons between scenarios 2029

Scenario	Time Period	Time	Distance	Speed	Trips
Reference vs.	AM	144 (8%)	8,408 (7%)	-1 (-1%)	111,250 (7%)
Base	IP	102 (9%)	6,152 (7%)	-1 (-1%)	86,810 (7%)
	PM	139 (9%)	8,221 (7%)	-1 (-1%)	115,554 (7%)
DM Post VDM	AM	103 (6%)	7,281 (6%)	0 (0%)	66,374 (4%)
vs Reference	IP	70 (5%)	5,141 (6%)	0 (0%)	49,235 (4%)
	PM	104 (6%)	7,343 (6%)	0 (0%)	68,686 (4%)
DS Post VDM	AM	0 (0%)	35 (0%)	0 (0%)	-13 (0%)
vs DM Post VDM	IP	0 (0%)	52 (0%)	0 (0%)	94 (0%)
V DIVI	PM	0 (0%)	55 (0%)	0 (0%)	31 (0%)

Table 8-10: Network Statistics - Values 2044

Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
	AM	2,070	141,981	69	1,830,005



Scenario	Time Period	Time	Distance	Speed	Trips
Reference	IP	1,449	102,845	71	1,382,029
Forecast	PM	1,982	135,927	69	1,845,210
DM Post VDM	AM	2,348	161,311	69	2,004,630
	IP	1,641	116,577	71	1,513,876
	PM	2,263	155,486	69	2,026,913
DS Post VDM	AM	2,348	161,357	69	2,004,627
	IP	1,641	116,653	71	1,513,999
	PM	2,264	155,555	69	2,026,906

Table 8-11: Network Statistics - comparisons between scenarios 2044

Scenario	Time Period	Time	Distance	Speed	Trips	
Reference vs.	AM	369 (22%)	21,752 (18%)	-2 (-3%)	284,184 (18%)	
Base	IP	260 (22%)	15,903 (18%)	-2 (-3%)	220,632 (19%)	
	PM	353 (22%)	20,846 (18%)	-2 (-3%)	289,551 (19%)	
DM Post VDM	AM	279 (13%)	19,331 (14%)	0 (0%)	174,625 (10%)	
vs Reference	IP	192 (13%)	13,733 (13%)	0 (0%)	131,848 (10%)	
	PM	281 (14%)	19,559 (14%)	0 (0%)	181,703 (10%)	
DS Post VDM	AM	0 (0%)	46 (0%)	0 (0%)	-3 (0%)	
vs DM Post	IP	0 (0%)	76 (0%)	0 (0%)	123 (0%)	
VDM	PM	0 (0%)	69 (0%)	0 (0%)	-7 (0%)	

Table 8-12: Network Statistics - Values 2051

Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
Reference	AM	2,168	147,994	68	1,908,303
Forecast	IP	1,519	107,282	71	1,443,365
	PM	2,078	141,764	68	1,926,326
DM Post VDM	AM	2,490	170,241	68	2,108,685
	IP	1,742	123,151	71	1,595,396
	PM	2,403	164,265	68	2,134,907
DS Post VDM	AM	2,490	170,290	68	2,108,687
	IP	1,742	123,232	71	1,595,534
	PM	2,403	164,342	68	2,134,951

Table 8-13: Network Statistics – comparisons between scenarios 2051

Scenario	Time Period	Time	Distance	Speed	Trips
	AM	467 (27%)	27,765 (23%)	-2 (-3%)	362,482 (23%)
	IP	330 (28%)	20,341 (23%)	-3 (-3%)	281,968 (24%)
	PM	449 (28%)	26,682 (23%)	-2 (-3%)	370,667 (24%)
	AM	322 (15%)	22,247 (15%)	0 (0%)	200,382 (11%)
	IP	223 (15%)	15,868 (15%)	0 (0%)	152,031 (11%)



Scenario	Time Period	Time	Distance	Speed	Trips
	PM	325 (16%)	22,501 (16%)	0 (0%)	208,582 (11%)
	AM	0 (0%)	50 (0%)	0 (0%)	3 (0%)
	IP	0 (0%)	82 (0%)	0 (0%)	138 (0%)
	PM	0 (0%)	78 (0%)	0 (0%)	43 (0%)

8.2.4 The network performance statistics show that the main changes occur between the base and reference forecast, as a result of the assigned trip growth, and then to a lesser extent between reference forecast and DM as a result of the VDM response to change in costs. The differences between the DM and DS are minor in comparison, as would be expected considering the only model input change is the A66 Project network. This pattern is consistent across the time periods and years. Overall these results appear reasonable and generally consistent with those results achieved within Stage 2.

8.3 Forecast Traffic Flows

- 8.3.1 Forecast traffic flows for each forecast year are shown below for the A66 corridor, and mainline M6 either side of J40 and likewise for A1(M) Scotch Corner:
 - Table 8-14 12-Hour Traffic Flows (vehicles, two-way) 2029;
 - Table 8-15 12-Hour Traffic Flows (vehicles, two-way) 2044; and
 - Table 8-16 12-Hour Traffic Flows (vehicles, two-way) 2051.
- 8.3.2 A map showing the link locations where traffic flows have been extracted from the model is provided in Figure 8-1.
- 8.3.3 Detailed traffic flow diagrams showing AADT for the DM, DS and change from DS vs. DM for the Design Year, 2044 can be found in Appendix C Core Scenario Design Year Forecast Flows.



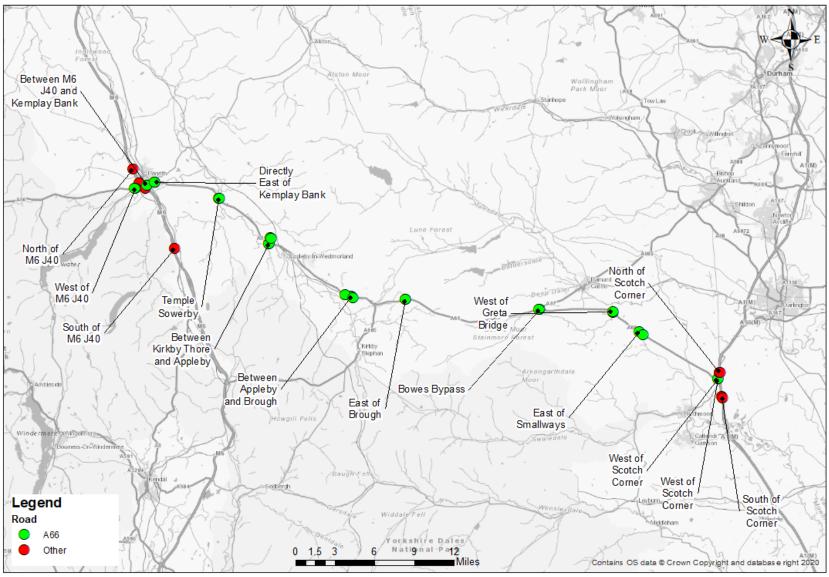


Figure 8-1:A66 Traffic Flow Locations



Table 8-14: 12-Hour Traffic Flows (vehicles, two-way) - 2029

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	DS Post VDM vs. DM Post VDM
	West of M6 J40	16,584	17,687	18,644	19,307	1,103 (7%)	957 (5%)	663 (4%)
	Between M6 J40 and Kemplay Bank	25,699	27,502	29,319	33,508	1,802 (7%)	1,818 (7%)	4,189 (14%)
	Directly East of Kemplay Bank	17,598	19,073	19,968	25,354	1,476 (8%)	894 (5%)	5,386 (27%)
	Temple Sowerby	14,459	15,589	16,459	22,590	1,130 (8%)	870 (6%)	6,131 (37%)
	Between Kirkby Thore and Appleby	15,629	16,767	17,693	20,889	1,138 (7%)	927 (6%)	3,196 (18%)
	Between Appleby and Brough	13,038	13,790	14,660	20,280	752 (6%)	871 (6%)	5,620 (38%)
	East of Brough	14,793	16,020	17,227	22,555	1,227 (8%)	1,207 (8%)	5,328 (31%)
	Bowes Bypass	12,701	14,119	15,075	20,697	1,418 (11%)	955 (7%)	5,623 (37%)
	West of Greta Bridge	15,422	17,004	18,094	24,111	1,582 (10%)	1,089 (6%)	6,018 (33%)
	East of Smallways	15,196	16,769	17,798	24,408	1,573 (10%)	1,029 (6%)	6,609 (37%)
	West of Scotch Corner	15,652	17,595	18,597	25,145	1,943 (12%)	1,002 (6%)	6,548 (35%)
	North of Scotch Corner	49,043	56,097	61,094	62,968	7,054 (14%)	4,998 (9%)	1,873 (3%)
	South of Scotch Corner	51,079	56,245	61,312	64,156	5,165 (10%)	5,068 (9%)	2,844 (5%)
	North of M6 J40	42,658	46,550	51,330	52,597	3,891 (9%)	4,781 (10%)	1,267 (2%)
	South of M6 J40	31,472	33,993	37,037	35,465	2,521 (8%)	3,043 (9%)	-1,572 (-4%)



Table 8-15: 12-Hour Traffic Flows (vehicles, two-way) - 2044

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	DS Post VDM vs. DM Post VDM
	West of M6 J40	16,584	19,499	21,972	23,001	2,915 (18%)	2,473 (13%)	1,030 (5%)
	Between M6 J40 and Kemplay Bank	25,699	29,610	33,367	38,319	3,911 (15%)	3,757 (13%)	4,952 (15%)
	Directly East of Kemplay Bank	17,598	20,973	22,903	29,910	3,375 (19%)	1,931 (9%)	7,007 (31%)
	Temple Sowerby	14,459	17,030	18,866	26,748	2,571 (18%)	1,836 (11%)	7,882 (42%)
	Between Kirkby Thore and Appleby	15,629	18,254	20,181	24,854	2,625 (17%)	1,927 (11%)	4,674 (23%)
	Between Appleby and Brough	13,038	15,105	16,979	24,164	2,067 (16%)	1,874 (12%)	7,185 (42%)
	East of Brough	14,793	17,945	20,958	27,822	3,152 (21%)	3,012 (17%)	6,865 (33%)
	Bowes Bypass	12,701	16,050	18,301	25,385	3,349 (26%)	2,251 (14%)	7,085 (39%)
	West of Greta Bridge	15,422	19,058	21,404	29,474	3,636 (24%)	2,346 (12%)	8,070 (38%)
	East of Smallways	15,196	18,752	20,553	29,776	3,556 (23%)	1,801 (10%)	9,223 (45%)
	West of Scotch Corner	15,652	19,814	22,014	30,252	4,162 (27%)	2,200 (11%)	8,239 (37%)
	North of Scotch Corner	49,043	62,382	73,079	75,069	13,338 (27%)	10,697 (17%)	1,991 (3%)
	South of Scotch Corner	51,079	62,531	73,604	76,407	11,451 (22%)	11,074 (18%)	2,803 (4%)
	North of M6 J40	42,658	52,165	62,613	64,520	9,507 (22%)	10,448 (20%)	1,906 (3%)
	South of M6 J40	31,472	38,474	46,266	45,006	7,001 (22%)	7,792 (20%)	-1,260 (-3%)



Table 8-16: 12-Hour Traffic Flows (vehicles, two-way) - 2051

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	DS Post VDM vs. DM Post VDM
	West of M6 J40	16,584	20,558	23,190	24,336	3,974 (24%)	2,631 (13%)	1,147 (5%)
	Between M6 J40 and Kemplay Bank	25,699	30,574	34,343	39,891	4,875 (19%)	3,768 (12%)	5,548 (16%)
	Directly East of Kemplay Bank	17,598	21,850	23,678	31,477	4,252 (24%)	1,828 (8%)	7,799 (33%)
	Temple Sowerby	14,459	17,652	19,431	28,108	3,193 (22%)	1,779 (10%)	8,677 (45%)
	Between Kirkby Thore and Appleby	15,629	18,918	20,839	26,160	3,289 (21%)	1,921 (10%)	5,321 (26%)
	Between Appleby and Brough	13,038	15,664	17,555	25,484	2,626 (20%)	1,891 (12%)	7,929 (45%)
	East of Brough	14,793	18,785	22,033	29,479	3,992 (27%)	3,248 (17%)	7,446 (34%)
	Bowes Bypass	12,701	16,822	19,218	26,902	4,120 (32%)	2,397 (14%)	7,684 (40%)
	West of Greta Bridge	15,422	19,812	22,386	31,246	4,390 (28%)	2,573 (13%)	8,861 (40%)
	East of Smallways	15,196	19,427	21,168	31,448	4,231 (28%)	1,741 (9%)	10,280 (49%)
	West of Scotch Corner	15,652	20,689	22,917	31,862	5,037 (32%)	2,229 (11%)	8,945 (39%)
	North of Scotch Corner	49,043	64,829	76,113	78,143	15,785 (32%)	11,284 (17%)	2,030 (3%)
	South of Scotch Corner	51,079	65,227	77,019	80,131	14,148 (28%)	11,792 (18%)	3,111 (4%)
	North of M6 J40	42,658	54,623	66,191	68,139	11,965 (28%)	11,568 (21%)	1,949 (3%)
	South of M6 J40	31,472	40,690	49,541	48,138	9,218 (29%)	8,850 (22%)	-1,403 (-3%)



8.3.4 The traffic flows above show the following:

- Traffic flows show similar patterns compared with Stage 2 results
- Reference Forecast growth is generally similar to NTEM background growth on the West side of the A66 corridor, but less so on the east side where it is slightly higher. Reference forecast growth along the A66 corridor is as follows:
 - **6%** 12% (2029)
 - **15% 27% (2044)**
 - **19% 32% (2051)**
- The impact of VDM on traffic flows on the A66 in the DM are significant with an increase in traffic compared to the reference forecast of:
 - **5%** 8% (2029)
 - **9**% 13% (2044)
 - 9% 17% (2051)
- This reflects the response to change in costs between base and future years, and the resulting impact of an increase in longer car journeys which use the A66 and other strategic roads.
- The DS vs. DM results show traffic flows increase by at least 30%-40% at most locations along the A66 with the Project in place due to re-routing and VDM response. Traffic growth on the A66 corridor due to the Project ranges between;
 - **14% 38% (2029)**
 - **15% 45% (2044)**
 - **16% 49% (2051)**
- The lowest percentage increases are associated with the section of A66 between M6 junction 40 and Kemplay Bank close to Penrith, where the base traffic flows are highest, with most other locations much closer to the higher end of the range between 30%-40%.
- 8.3.5 The following tables show traffic flows by vehicle types along the A66 corridor
 - Table 8-17 Vehicle Flows by Vehicle Type (Two-way) 2029
 - Table 8-18 Vehicle Flows by Vehicle Type (Two-way) 2044
 - Table 8-19 Vehicle Flows by Vehicle Type (Two-way) 2051
- 8.3.6 Lights represent cars and LGVs; and Heavies HGVs.



Table 8-17: Vehicle Flows by Vehicle Type (two-way) 2029

Road	Location	Scenario	AM (veh/hr)		IP (veh/hr)		PM (veh/hr)	
			Lights	Heavies	Lights	Heavies	Lights	Heavies
A66	East of M6 J40	Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)
		DM	2,197 (84%)	421 (16%)	2,000 (83%)	407 (17%)	2,396 (87%)	361 (13%)
		DS	2,514 (85%)	438 (15%)	2,313 (84%)	425 (16%)	2,837 (88%)	386 (12%)
A66	East of Brough	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)
		DM	1,134 (81%)	267 (19%)	1,238 (81%)	283 (19%)	1,275 (82%)	278 (18%)
		DS	1,489 (84%)	290 (16%)	1,656 (85%)	299 (15%)	1,864 (86%)	300 (14%)
A66	West of Scotch	Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)
	Corner	DM	1,261 (82%)	273 (18%)	1,254 (80%)	321 (20%)	1,464 (83%)	308 (17%)
		DS	1,708 (85%)	297 (15%)	1,762 (84%)	337 (16%)	2,206 (87%)	331 (13%)

Table 8-18: Vehicle Flows by Vehicle Type (two-way) 2044

Road	Location	Scenario	AM (veh/hr)		IP (veh/hr)		PM (veh/hr)	
			Lights	Heavies	Lights	Heavies	Lights	Heavies
A66	East of M6 J40	Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)
		DM	2,524 (85%)	442 (15%)	2,331 (85%)	425 (15%)	2,740 (88%)	375 (12%)
		DS	2,925 (86%)	458 (14%)	2,699 (86%)	441 (14%)	3,263 (89%)	393 (11%)
A66	East of Brough	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)
		DM	1,416 (83%)	280 (17%)	1,547 (84%)	297 (16%)	1,618 (85%)	291 (15%)
		DS	1,882 (86%)	304 (14%)	2,107 (87%)	312 (13%)	2,349 (88%)	309 (12%)
A66	West of Scotch Corner	Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)
		DM	1,512 (84%)	290 (16%)	1,539 (82%)	338 (18%)	1,780 (85%)	304 (15%)
		DS	2,115 (87%)	315 (13%)	2,222 (86%)	354 (14%)	2,584 (88%)	337 (12%)



Table 8-19: Vehicle Flows by Vehicle Type (two-way) 2051

Road	Location	Scenario	AM (veh/hr)		IP (veh/hr)		PM (veh/hr)	
			Lights	Heavies	Lights	Heavies	Lights	Heavies
A66	East of M6 J40	Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)
		DM	2,596 (85%)	452 (15%)	2,407 (85%)	433 (15%)	2,831 (88%)	372 (12%)
		DS	3,098 (87%)	464 (13%)	2,794 (86%)	442 (14%)	3,436 (89%)	403 (11%)
A66	East of Brough	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)
		DM	1,499 (84%)	286 (16%)	1,636 (84%)	303 (16%)	1,705 (85%)	297 (15%)
		DS	2,027 (87%)	310 (13%)	2,235 (88%)	319 (12%)	2,498 (89%)	316 (11%)
A66	West of Scotch	Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)
	Corner	DM	1,597 (85%)	290 (15%)	1,612 (82%)	343 (18%)	1,851 (86%)	307 (14%)
		DS	2,271 (88%)	322 (12%)	2,352 (87%)	362 (13%)	2,695 (89%)	345 (11%)

- 8.3.7 The tables for light and heavy vehicles show the following:
 - A high proportion of Heavies along the A66 at Bowes Bypass and West of Scotch Corner (approx.20-25%).
 - A reduction in the proportion of Heavies in the future as RTF HGV growth is not forecast to be as significant as Car NTEM growth and RTF LGV growth. (Refer to Section 6.2 for RTF HGV & LGV growth).
 - A higher proportion of light vehicles in the DS compared to the DM due to assignment re-routing and HGV demand being fixed.
- 8.3.8 Difference plots showing the flow difference between the DM and the DS by time period and year for all vehicles are shown in **Appendix C – Core Scenario Forecast Flow Difference Plots by Period**.
- 8.3.9 Overall, the outputs above indicate a similar level of flow and differences across future year scenarios compared with the Stage 2 results.



8.4 Forecast Traffic Delay

- 8.4.1 Forecast traffic delays have been assessed on approaches to major junctions along the A66 including;
 - M6 Junction 40
 - Kemplay Bank
 - Scotch Corner
- 8.4.2 Delay information in this section relates to the base, DM 2044 and DS 2044 scenarios for AM, IP and PM peak periods. Whilst the delay information from the SATURN A66 traffic model provides an indication of operational performance, each junction has been assessed separately within VISSIM (microsimulation modelling software) which is considered more appropriate when focussing on a much smaller and localised area. Full information on these operational forecast models can be found separately within the 3.7 Transport Assessment Chapter 8.2 Major junction performance.

Junction 40

- The following figure and tables show the junction approaches and forecast delays on the M6 junction 40;
 - Figure 8-2 M6 Junction 40 approaches
 - Table 8-20 M6 Junction 40 AM Delays
 - Table 8-21 M6 Junction 40 IP Delays
 - Table 8-22 M6 Junction 40 PM Delays



Figure 8-2: Junction 40 approaches



Table 8-20: Delay (s) Junction 40 - AM

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A592	30	71	21	41 (139%)	-50 (-70%)
A66 East	18	20	21	2 (13%)	1 (5%)
M6 South	38	67	23	30 (79%)	-45 (-67%)
A66 West	24	58	22	34 (141%)	-36 (-62%)
M6 North	17	30	32	13 (76%)	2 (7%)

Table 8-21: Delay (s) Junction 40 - IP

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A592	24	62	14	38 (157%)	-48 (-77%)
A66 East	14	18	12	4 (31%)	-6 (-32%)
M6 South	42	96	26	54 (130%)	-69 (-72%)
A66 West	22	45	23	24 (109%)	-22 (-49%)
M6 North	15	19	31	3 (22%)	12 (66%)

Table 8-22: Delay (s) Junction 40 PM

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A592	28	106	15	78 (279%)	-91 (-86%)
A66 East	14	20	14	5 (37%)	-6 (-31%)
M6 South	47	133	27	86 (183%)	-106 (-80%)
A66 West	22	82	24	60 (271%)	-57 (-70%)
M6 North	16	19	43	4 (24%)	24 (125%)

8.4.4 Forecast delays at M6 Junction 40 are close to one minute for the design year DM scenario, particularly on the A592 and M6 South junction approaches where delays are in the region of two minutes during the PM peak period. Whilst the percentage change in delay between the base and DM is high on these approaches, the DS scenario reveals a reduction of 70-80% in delay from the DM. Delays on the A66 East and M6 North remain relatively low across the base, DM and Dosomething scenarios and are generally within 30 seconds. All forecast delays are comfortably within a minute on all approaches in all time periods for the DS scenario.



Kemplay Bank

- The following figure and tables show the junction approaches and forecast delays on Kemplay Bank;
 - Figure 8-3 Kemplay Bank approaches
 - Table 8-23 Kemplay Bank AM Delays
 - Table 8-24 Kemplay Bank IP Delays
 - Table 8-25 Kemplay Bank PM Delays

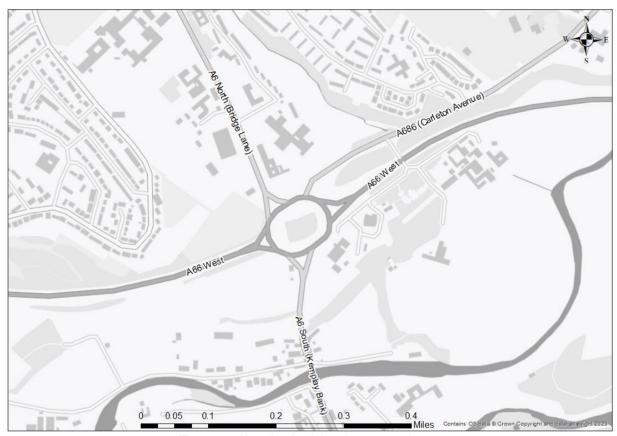


Figure 8-3: Kemplay Bank junction approaches

Table 8-23: Delay (s) Kemplay Bank - AM

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	61	97	29	36 (58%)	-68 (-70%)
A66 East	21	26	18	5 (23%)	-8 (-32%)
A6 South (Kemplay Bank)	20	20	21	0 (0%)	1 (6%)
A66 West	14	22	41	8 (57%)	19 (85%)
A6 North (Bridge Lane)	18	26	26	8 (42%)	0 (1%)

Table 8-24: Delay (s) Kemplay Bank - IP

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	44	60	29	16 (37%)	-31 (-51%)
A66 East	20	45	21	24 (118%)	-23 (-52%)
A6 South (Kemplay Bank)	24	31	31	8 (33%)	0 (-1%)



Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A66 West	11	14	16	4 (36%)	2 (13%)
A6 North (Bridge Lane)	18	25	26	7 (42%)	1 (2%)

Table 8-25: Delay (s) Kemplay Bank - PM

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	59	89	34	31 (53%)	-56 (-62%)
A66 East	21	63	22	42 (201%)	-40 (-64%)
A6 South (Kemplay Bank)	25	42	39	17 (68%)	-4 (-9%)
A66 West	11	15	17	4 (38%)	2 (12%)
A6 North (Bridge Lane)	19	28	28	9 (49%)	0 (0%)

8.4.6 Forecast delays at Kemplay Bank are generally within one minute on all approaches across AM, IP and PM periods during the design year. The highest delay is seen on the A686 (Carleton Avenue) which exceeds one minute in the DM scenario but this reduces to approximately 30 seconds across all time periods in the DS. The DS scenario shows a generous reduction in delay on the A686(Carleton Avenue) and A66 East compared with the DM. During the AM peak there is a small increase in delay between the DM and DS scenarios on the A66 West approach.



Scotch Corner

- 8.4.7 The following figure and tables show the junction approaches and forecast delays on Scotch Corner;
 - Figure 8-4 Scotch Corner approaches
 - Table 8-26 Scotch Corner AM Delays
 - Table 8-27 Scotch Corner IP Delays
 - Table 8-28: Delay (s) PM Scotch Corner- Scotch Corner PM Delays



Figure 8-4: Scotch Corner junction approaches

Table 8-26: Delay (s) Scotch Corner - AM

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A1(M) North	15	17	18	2 (10%)	1 (6%)
Middleton Tyas Ln	7	10	11	2 (32%)	1 (14%)
A1(M) South	21	22	23	1 (6%)	1 (5%)
A6108 (Barracks Bank)	19	21	20	1 (7%)	0 (0%)
A66	12	13	15	1 (7%)	1 (11%)
A6055	6	6	6	0 (4%)	0 (7%)

Table 8-27: Delay (s) Scotch Corner - IP

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A1(M) North	18	21	24	3 (17%)	3 (12%)
Middleton Tyas Ln	7	10	11	3 (38%)	1 (14%)
A1(M) South	14	15	16	1 (6%)	1 (5%)



Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A6108 (Barracks Bank)	15	16	16	1 (9%)	0 (0%)
A66	14	15	17	1 (8%)	2 (13%)
A6055	6	6	6	0 (5%)	0 (7%)

Table 8-28: Delay (s) PM Scotch Corner

Time Period	Base 2019	DM 2044	DS 2044	DM vs. Base	DS vs. DM
A1(M) North	19	24	26	5 (26%)	2 (8%)
Middleton Tyas Ln	8	13	14	5 (71%)	1 (8%)
A1(M) South	14	15	17	1 (7%)	2 (11%)
A6108 (Barracks Bank)	16	19	20	4 (23%)	0 (2%)
A66	14	16	18	1 (9%)	3 (18%)
A6055	6	6	7	1 (10%)	1 (13%)

- 8.4.8 Forecast delays at Scotch are low across all scenarios and time periods with only small increases between the DM vs. Base and DS vs. DM. All delays remain within 30 seconds for the design year DS scenario.
- 8.4.9 Forecast delays at these locations for all other modelled years are contained in **Appendix D Core Scenario Forecast Delay**

8.5 Forecast Journey Times

- 8.5.1 Journey times for the A66 corridor between Scotch Corner and M6 Junction 40 are shown below:
 - Table 8-29 A66 Corridor Journey times (mm:ss) 2029
 - Table 8-30 A66 Corridor Journey times (mm:ss) 2044
 - Table 8-31 A66 Corridor Journey times (mm:ss) 2051
- The routes capture delay through the Kemplay Bank junction and stop line delay on the approaches to the M6 J40 and Scotch Corner.

Table 8-29: A66 Corridor Journey Times (mm:ss) - 2029

Time Period	Direction	Base 2019	2029 DM	2029 DS	DM vs. Base	DS vs. DM
	A66 - Eastbound	53:20	54:36	44:47	01:16 (2%)	-09:49 (-18%)
	A66 - Westbound	54:11	55:25	45:04	01:14 (2%)	-10:21 (-19%)
	A66 - Eastbound	54:11	55:36	45:04	01:25 (3%)	-10:32 (-19%)
	A66 - Westbound	54:05	55:46	44:56	01:41 (3%)	-10:50 (-19%)
	A66 - Eastbound	54:49	56:22	45:12	01:33 (3%)	-11:10 (-20%)
	A66 - Westbound	54:26	56:04	45:20	01:38 (3%)	-10:44 (-19%)
	A66 - Eastbound	49:25	49:32	44:07	00:07 (0%)	-05:25 (-11%)
	A66 - Westbound	49:24	49:39	44:10	00:15 (0%)	-05:29 (-11%)



Table 8-30: A66 Corridor Journey Times (mm:ss) - 2044

Time Period	Direction	Base 2019	2044 DM	2044 DS	DM vs. Base	DS vs. DM
	A66 - Eastbound	53:20	56:34	45:11	03:13 (6%)	-11:23 (-20%)
	A66 - Westbound	54:11	57:29	45:26	03:17 (6%)	-12:02 (-21%)
	A66 - Eastbound	54:11	57:54	45:27	03:43 (7%)	-12:27 (-22%)
	A66 - Westbound	54:05	58:21	45:29	04:15 (8%)	-12:51 (-22%)
	A66 - Eastbound	54:49	58:58	45:45	04:09 (8%)	-13:13 (-22%)
	A66 - Westbound	54:26	58:49	45:55	04:23 (8%)	-12:54 (-22%)
	A66 - Eastbound	49:25	49:43	44:09	00:18 (1%)	-05:34 (-11%)
	A66 - Westbound	49:24	49:55	44:11	00:31 (1%)	-05:44 (-11%)

Table 8-31: A66 Corridor Journey Times (mm:ss) - 2051

Time Period	Direction	Base 2019	2051 DM	2051 DS	DM vs. Base	DS vs. DM
	A66 - Eastbound	53:20	57:07	45:20	03:46 (7%)	-11:46 (-21%)
	A66 - Westbound	54:11	58:22	45:39	04:11 (8%)	-12:43 (-22%)
	A66 - Eastbound	54:11	58:39	45:36	04:28 (8%)	-13:03 (-22%)
	A66 - Westbound	54:05	59:17	45:41	05:11 (10%)	-13:35 (-23%)
	A66 - Eastbound	54:49	59:55	45:56	05:06 (9%)	-13:58 (-23%)
	A66 - Westbound	54:26	59:55	46:10	05:30 (10%)	-13:45 (-23%)
	A66 - Eastbound	49:25	49:48	44:10	00:23 (1%)	-05:38 (-11%)
	A66 - Westbound	49:24	50:01	44:12	00:37 (1%)	-05:49 (-12%)

8.5.3 These results show the following:

- Journey time increases between the base and DM, with travel times increasing in the future years during AM/IP/PM as follows:
 - One to two minutes (2029)
 - Three to five minutes (2044)
 - Four to six minutes (2051)
- A journey time decrease between the DM and DS scenarios, with time saving increasing in the later forecast years. Time savings for AM/IP/PM are as follows:
 - 10 11 minutes (2029)
 - 11 13 minutes (2044)
 - 12 14 minutes (2051)
- 8.5.4 The travel times and scale of time saving with the Project in place is very similar to Stage 2 where journey time savings were in the order of 10 15 minutes.



9 Sensitivity Tests

9.1 Introduction

Demand Assumptions

- 9.1.1 The Core Scenario is based on the most unbiased and realistic set of assumptions that will form the central case, defined in TAG Unit M4 Forecasting and Uncertainty as follows:
 - NTEM growth in demand, at a suitable spatial area.
 - Sources of local uncertainty that are more likely to occur than not.
 - Appropriate modelling assumptions.
- 9.1.2 In addition to the core scenario, TAG requires that additional sensitivity tests be undertaken. Specifically, high and low growth scenarios are defined to assess whether the Project is still effective in reducing congestion in high demand scenarios and is still economically viable in low demand scenarios.
- 9.1.3 For highway demand at the national level within a 36 year horizon, the demand that is added to the core for the high scenario and removed from the core from the low scenario is described by the following⁶:

$$P = 15y^{1/2}$$

Where:

P = Proportion of base year demand

Y = Number of years from the base year

- 9.1.4 The high scenario adds a proportion of the base demand to that of the core scenario. For highway demand, the proportion is 2.5% multiplied by the square root of the number of years from the base year. Rail demand is adjusted in the same manner, using a proportion of 2.0% multiplied by the square root of the number of years from the base year. The Low scenario removes demand from the Core scenario by the same proportions of that added in the High for both highway and rail demand.
- 9.1.5 In addition to raising / lowering the core scenario, the level of certainty considered for developments from the uncertainty log is also adjusted. For the High scenario, developments which are "Reasonably Foreseeable" are modelled in addition to those already considered in the core scenario. For the low scenario, only developments which are considered "Near Certain" have been modelled.
- 9.1.6 Table 9-1 shows the base and reference forecast highway demand matrix totals.

Planning Inspectorate Scheme Reference: TR010062 Application Document Reference: TR010062/APP/3.8

⁶ See TAG Unit M4 Forecasting and Uncertainty Paragraph 4.2.2



Table 9-1: Sensitivity Test Reference Forecast Highway Demand Totals (24 hour, vehicles)

Year	Core	Low	Low % change from core	High	High % change from core
2029	83,068,932	77,008,105	-7%	89,129,812	7%
2044	91,543,778	81,960,689	-10%	101,126,869	10%
2051	95,471,427	84,629,399	-11%	106,313,456	11%

Network Assumptions

9.1.7 No supply side adjustments have been applied for the High or Low growth scenarios.



9.2 Equilibrium Forecast Demand

VDM Convergence Statistics

9.2.1 VDM convergence and run time data for the sensitivity test scenarios are shown below in Table 9-2 and Table 9-3 for the Low and High growth scenarios respectively.

Table 9-2: VDM Convergence and Run Time Data - Low Growth Scenario

Scenario	Year	No. of Loops	Global GAP	Sub-Area GAP
DM	2029	4	0.03%	0.10%
	2044	4	0.06%	0.16%
	2051	5	0.02%	0.13%
DS	2029	4	0.03%	0.12%
	2044	4	0.06%	0.20%
	2051	5	0.02%	0.12%

Table 9-3: VDM Convergence and Run Time Data - High Growth Scenario

Scenario	Year	No. of Loops	Global GAP	Sub-Area GAP
DM	2029	4	0.03%	0.12%
	2044	6	0.01%	0.18%
	2051	15	0.01%	0.35%
DS	2029	4	0.03%	0.11%
	2044	6	0.01%	0.17%
	2051	15	0.01%	0.36%

9.2.2 The results show that the demand model converges satisfactorily in the majority of cases, failing to converage on a sub-area level only in 2051 for the High scenario. It is believed this is due to the volume of growth on the network causing significant congestion within the model.

Impacts of VDM

- 9.2.3 The forecast travel demand for all movements is presented below, showing change in demand through assumed trip growth and VDM response.
- 9.2.4 The tables below summarise the demand impacts by mode, time period and purpose for the two sensitivity tests.
 - Table 9-4 demand by mode low growth scenario.
 - Table 9-5 demand by time period low growth scenario.
 - Table 9-6- demand by purpose low growth scenario.
 - Table 9-7- demand by mode high growth scenario.
 - Table 9-8- demand by time period high growth scenario.
 - Table 9-9

 demand by purpose high growth scenario.



Low Growth Demand Summaries

Table 9-4: VDM Forecast Travel Demand by Mode – Low Growth Scenario

Mode	Year	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
Car (vehicles)	2029	76,664,726	77,008,105 (0.4%)	77,083,497 (0.1%)	77,083,516 (0.1%)
	2044		81,960,689 (6.9%)	82,138,690 (0.2%)	82,138,711 (0.2%)
	2051		84,629,399 (10.4%)	84,827,476 (0.2%)	84,827,499 (0.2%)
PT Rail (passengers)	2029	2,485,470	2,468,026 (-0.7%)	2,371,040 (-3.9%)	2,371,018 (-3.9%)
	2044	2,565,960 (3.2%)		2,339,345 (-8.8%)	2,339,319 (-8.8%)
	2051		2,617,528 (5.3%)	2,365,188 (-9.6%)	2,365,160 (-9.6%)

Table 9-5: Table 9-9: VDM Forecast Car Travel Demand by Time Period – Low Growth Scenario

Year	Time Period	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS (DS vs. Ref %)
2029	AM	15,406,734	15,322,886 (-0.5%)	15,335,776 (0.1%)	15,335,711 (0.1%)
	IP	28,389,318	28,629,101 (0.8%)	28,660,852 (0.1%)	28,661,184 (0.1%)
	PM	17,626,446	17,686,552 (0.3%)	17,700,795 (0.1%)	17,700,784 (0.1%)
	OP	15,242,228	15,369,566 (0.8%)	15,386,074 (0.1%)	15,385,836 (0.1%)
2044	AM	15,406,734	16,163,525 (4.9%)	16,189,919 (0.2%)	16,189,856 (0.2%)
	IP	28,389,318	30,578,362 (7.7%)	30,652,145 (0.2%)	30,652,647 (0.2%)
	PM	17,626,446	18,805,965 (6.7%)	18,838,051 (0.2%)	18,838,003 (0.2%)
	OP	15,242,228	16,412,837 (7.7%)	16,458,575 (0.3%)	16,458,205 (0.3%)
2051	AM	15,406,734	16,643,925 (8.0%)	16,674,308 (0.2%)	16,674,281 (0.2%)
	IP	28,389,318	31,608,950 (11.3%)	31,690,067 (0.3%)	31,690,563 (0.3%)
	PM	17,626,446	19,412,428 (10.1%)	19,444,923 (0.2%)	19,444,893 (0.2%)
	OP	15,242,228	16,964,096 (11.3%)	17,018,178 (0.3%)	17,017,761 (0.3%)



Table 9-6: VDM Forecast Car Travel Demand by Purpose – Low Growth Scenario

Year	Time Period	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
2029	Business	7,964,169	7,871,962 (-1.2%)	7,881,163 (0.1%)	7,881,172 (0.1%)
	Commute	28,451,102	27,917,898 (-1.9%)	27,965,677 (0.2%)	27,965,683 (0.2%)
	Other	40,249,455	41,218,245 (2.4%)	41,236,657 (0.0%)	41,236,660 (0.0%)
2044	Business	7,964,169	8,278,405 (3.9%)	8,300,232 (0.3%)	8,300,242 (0.3%)
	Commute	28,451,102	29,069,325 (2.2%)	29,184,451 (0.4%)	29,184,456 (0.4%)
	Other	40,249,455	44,612,958 (10.8%)	44,654,007 (0.1%)	44,654,012 (0.1%)
2051	Business	7,964,169	8,533,644 (7.2%)	8,556,769 (0.3%)	8,556,780 (0.3%)
	Commute	28,451,102	29,801,919 (4.7%)	29,930,712 (0.4%)	29,930,718 (0.4%)
	Other 40,249,455		46,293,836 (15.0%)	46,339,995 (0.1%)	46,340,000 (0.1%)

High Growth Demand Summaries

Table 9-7: VDM Forecast Travel Demand by Mode – High Growth Scenario

Mode	Year	Base	Reference (Refvs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
Car (vehicles)	2029	76,664,726	89,129,812 (16.3%)	89,214,947 (0.1%)	89,214,970 (0.1%)
	2044		101,126,869 (31.9%)	101,342,767 (0.2%)	101,342,795 (0.2%)
	2051		106,313,456 (38.7%)	106,556,937 (0.2%)	106,556,966 (0.2%)
PT Rail (passengers)	2029	2,485,470	2,782,415 (11.9%)	2,521,978 (-9.4%)	2,521,952 (-9.4%)
	2044		3,063,054 (23.2%)	2,563,380 (-16.3%)	2,563,352 (-16.3%)
	2051		3,179,926 (27.9%)	2,617,584 (-17.7%)	2,617,551 (-17.7%)

Table 9-8: VDM Forecast Car Travel Demand by Time Period – High Growth Scenario

Year	Time Period	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
2029	AM	15,406,734	17,758,905 (15.3%)	17,771,036 (0.1%)	17,770,970 (0.1%)
	IP	28,389,318	33,117,846 (16.7%)	33,152,053 (0.1%)	33,152,532 (0.1%)



Year	Time Period	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
	PM	17,626,446	20,473,486 (16.2%)	20,484,274 (0.1%)	20,484,210 (0.1%)
	OP	15,242,228	17,779,575 (16.6%)	17,807,584 (0.2%)	17,807,257 (0.2%)
2044	AM	15,406,734	20,015,209 (29.2%)	20,041,839 (0.1%)	20,041,782 (0.1%)
	IP	28,389,318	37,675,691 (32.7%)	37,759,355 (0.2%)	37,760,037 (0.2%)
	PM	17,626,446	23,212,576 (31.7%)	23,241,190 (0.1%)	23,241,152 (0.1%)
	OP	15,242,228	20,223,393 (32.7%)	20,300,383 (0.4%)	20,299,824 (0.4%)
2051	AM	15,406,734	21,001,607 (36.3%)	21,032,838 (0.1%)	21,032,760 (0.1%)
	IP	28,389,318	39,638,662 (39.6%)	39,730,608 (0.2%)	39,731,430 (0.2%)
	PM	17,626,446	24,397,939 (38.4%)	24,424,873 (0.1%)	24,424,808 (0.1%)
	ОР	15,242,228	21,275,248 (39.6%)	21,368,618 (0.4%)	21,367,968 (0.4%)

Table 9-9: VDM Forecast Car Travel Demand by Purpose – High Growth Scenario

Year	Time Period	Base	Reference (Ref vs. Base %)	DM (DM vs. Ref %)	DS(DS vs. Ref %)
2029	Business	7,964,169	9,131,208 (14.7%)	9,141,535 (0.1%)	9,141,546 (0.1%)
	Commute	28,451,102	32,416,412 (13.9%)	32,470,546 (0.2%)	32,470,553 (0.2%)
	Other	40,249,455	47,582,191 (18.2%)	47,602,86 6 (0.0%)	47,602,871 (0.0%)
2044	Business	7,964,169	10,269,447 (28.9%)	10,295,5 59 (0.3%)	10,295,572 (0.3%)
	Commute	28,451,102	36,182,101 (27.2%)	36,322, 817 (0.4%)	36,322, 825 (0.4%)
	Other	40,249,455	54,675,321 (35.8%)	54,724,391 (0.1%)	54,724,3 98 (0.1%)
2051	Business	7,964,169	10,786,250 (35.4%)	10,814,173 (0.3%)	10,814,188 (0.3%)
	Commute	28,451,102	37,849,106 (33.0%)	38,008,929 (0.4%)	38,008,936 (0.4%)
	Other	40,249,455	57,678,100 (43.3%)	57,733,834 (0.1%)	57,733,842 (0.1%)

9.2.5 The results show that the Low growth scenario and High growth scenario demand increase between the base and reference forecast are consistent with the growth factors applied. Rail growth stays the same



- as the core scenario. The low growth scenario shows a more significant transfer of trips from railto car which seems logical.
- 9.2.6 By time period, the relative change in trips for the low growth scenario and high growth scenario between the base and reference forecast is the same across time periods, correctly reflecting the approach taken. The VDM responses in the IP and OP are more significant compared to the AM and PM which follows a similar pattern to the core scenario results presented earlier in this report. With the Project in place, the impact on demand is very similar to the core scenario.
- 9.2.7 The VDM demand impacts by trip purpose and the change between the DM and DS are comparable to the core scenario.

9.3 Assignment Results

Highway Assignment Model Convergence

9.3.1 The assignment convergence statistics for each forecasting scenario are presented in **Appendix F – Sensitivity Test Assignment Convergence**, showing the final four iterations/ loops. The results show that convergence is satisfactorily achieved across all scenarios.

Forecast Network Performance

- 9.3.2 The forecast network performance for each scenario is shown in **Appendix G Sensitivity Test Network Statistics**, showing the network statistics comparing Base, Reference Forecast (Per VDM), DM Post VDM and DS scenarios. These results are based on assigned traffic in the SATURN model.
- 9.3.3 The pattern of changes in the network statistics are similar to the core scenario results, presented earlier in this report, apart from the change from base to reference forecast which varies depending on low growth scenario or high growth scenario demand assumptions. The low growth scenario future year fixed speeds are very similar to the base, which is reflected in the results showing network speeds.

Forecast Traffic Flows

- 9.3.4 Base year 2015 and 2044 forecast traffic flows along the A66 corridor and mainline M6 either side of J40and likewise for the A1(M) Scotch Corner, for each sensitivity test, are shown in Table 9-10 and Table 9-11 respectively.
- 9.3.5 Flows for the other forecast years are shown in **Appendix H – Sensitivity Test A66 Flow Tables.**
- 9.3.6 A map showing the locations monitored is presented earlier in the report as Figure 8-1.
- 9.3.7 The results show that traffic flows along the A66 corridor are less in the low growth scenario and more in the high growth scenario. The relative traffic flow change between the DM and DS are comparable with the core scenario results (presented earlier in this report).



9.3.8 The Bowes bypass site represents a mid-point along the A66 corridor. In the low growth scenarios, traffic flows increase by 16% between the 2019 Base and 2044 Reference Case. A further 16% increase is shown between the 2044 Reference Case and DM Post VDM. With the Project in place, traffic flows increase a further 39% from the DM Post VDM to DS Post VDM model. In the high growth scenario, the equivalent growth is 37%, 11% and 39% respectively.



Table 9-10: 12-Hour Traffic Flows (vehicles, two-way) – 2044 – Low Growth Scenario

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	DS Post VDM vs. DM Post VDM
	West of M6 J40	16,584	17,439	19,958	20,746	855 (5%)	2,519 (14%)	787 (4%)
	Between M6 J40 and Kemplay Bank	25,699	27,190	31,045	35,534	1,490 (6%)	3,855 (14%)	4,489 (14%)
	Directly East of Kemplay Bank	17,598	19,062	21,253	27,746	1,464 (8%)	2,190 (11%)	6,493 (31%)
	Temple Sowerby	14,459	15,743	17,702	24,932	1,285 (9%)	1,958 (12%)	7,231 (41%)
	Between Kirkby Thore and Appleby	15,629	16,665	18,814	23,140	1,036 (7%)	2,149 (13%)	4,326 (23%)
	Between Appleby and Brough	13,038	13,839	15,828	22,483	801 (6%)	1,989 (14%)	6,655 (42%)
	East of Brough	14,793	16,447	19,460	26,014	1,654 (11%)	3,013 (18%)	6,554 (34%)
	Bowes Bypass	12,701	14,746	17,083	23,779	2,045 (16%)	2,337 (16%)	6,696 (39%)
	West of Greta Bridge	15,422	17,507	20,053	27,469	2,085 (14%)	2,546 (15%)	7,416 (37%)
	East of Smallways	15,196	17,308	19,692	27,849	2,111 (14%)	2,384 (14%)	8,158 (41%)
	West of Scotch Corner	15,652	18,238	20,676	28,521	2,587 (17%)	2,438 (13%)	7,844 (38%)
	North of Scotch Corner	49,043	56,558	68,329	70,435	7,514 (15%)	11,772 (21%)	2,105 (3%)
	South of Scotch Corner	51,079	56,574	67,988	71,178	5,495 (11%)	11,414 (20%)	3,190 (5%)
	North of M6 J40	42,658	46,784	57,179	58,753	4,126 (10%)	10,396 (22%)	1,574 (3%)
	South of M6 J40	31,472	33,812	41,261	39,532	2,340 (7%)	7,449 (22%)	-1,730 (-4%)



Table 9-11: 12-Hour Traffic Flows (vehicles, two-way) – 2044 – High Growth Scenario

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	DS Post VDM vs. DM Post VDM
A66	West of M6 J40	16,584	21,685	23,693	25,056	5,101 (31%)	2,008 (9%)	1,363 (6%)
A66	Between M6 J40 and Kemplay Bank	25,699	31,918	34,944	40,789	6,219 (24%)	3,026 (9%)	5,845 (17%)
A66	Directly East of Kemplay Bank	17,598	22,874	24,228	32,083	5,276 (30%)	1,354 (6%)	7,855 (32%)
A66	Temple Sowerby	14,459	18,271	19,572	28,436	3,813 (26%)	1,300 (7%)	8,864 (45%)
A66	Between Kirkby Thore and Appleby	15,629	19,711	21,194	26,476	4,082 (26%)	1,483 (8%)	5,282 (25%)
A66	Between Appleby and Brough	13,038	16,277	17,746	25,738	3,239 (25%)	1,469 (9%)	7,992 (45%)
A66	East of Brough	14,793	19,580	22,257	29,429	4,787 (32%)	2,677 (14%)	7,172 (32%)
A66	Bowes Bypass	12,701	17,416	19,326	26,889	4,715 (37%)	1,910 (11%)	7,563 (39%)
A66	West of Greta Bridge	15,422	20,545	22,650	31,375	5,123 (33%)	2,105 (10%)	8,724 (39%)
A66	East of Smallways	15,196	19,836	21,153	31,462	4,640 (31%)	1,316 (7%)	10,310 (49%)
A66	West of Scotch Corner	15,652	21,354	22,940	31,780	5,703 (36%)	1,586 (7%)	8,840 (39%)
A1(M)	North of Scotch Corner	49,043	67,678	76,845	78,758	18,634 (38%)	9,167 (14%)	1,913 (2%)
A1(M)	South of Scotch Corner	51,079	68,443	78,566	81,307	17,363 (34%)	10,123 (15%)	2,742 (3%)
M6	North of M6 J40	42,658	57,695	68,101	69,938	15,037 (35%)	10,406 (18%)	1,837 (3%)
M6	South of M6 J40	31,472	43,203	51,177	50,020	11,731 (37%)	7,973 (18%)	-1,156 (-2%)



9.3.10 Traffic flows by vehicle type along the A66 corridor are shown below in Table 9-12 and Table 9-13 respectively.

Table 9-12: Vehicle Flows by Vehicle Type (Two-way) - 2044 - Low Growth Scenario

Road	Location	Scenario	AM (veh/	M (veh/ hr) IP (veh/ hr)		r)	PM (veh/ hr)	
	West of M6 J40	Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)
		DM	2,346 (86%)	392 (14%)	2,181 (85%)	381 (15%)	2,591 (89%)	335 (11%)
		DS	2,676 (87%)	403 (13%)	2,522 (87%)	393 (13%)	3,086 (90%)	358 (10%)
	Bowes Bypass	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)
		DM	1,316 (84%)	249 (16%)	1,451 (84%)	267 (16%)	1,514 (85%)	258 (15%)
		DS	1,741 (87%)	268 (13%)	1,998 (88%)	279 (12%)	2,208 (89%)	279 (11%)
	West of Scotch	Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)
	Corner	DM	1,421 (85%)	255 (15%)	1,464 (83%)	302 (17%)	1,685 (86%)	285 (14%)
		DS	1,971 (88%)	277 (12%)	2,107 (87%)	315 (13%)	2,508 (89%)	304 (11%)

Table 9-13: Vehicle Flows by Vehicle Type (Two-way) – 2044 – High Growth Scenario

Road	Location	Scenario	AM (veh/	AM (veh/ hr)		IP (veh/ hr)		PM (veh/ hr)	
	West of M6 J40	Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)	
		DM	2,642 (84%)	486 (16%)	2,429 (84%)	468 (16%)	2,813 (87%)	403 (13%)	
		DS	3,119 (86%)	502 (14%)	2,846 (86%)	483 (14%)	3,461 (89%)	442 (11%)	
	Bowes Bypass	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)	
		DM	1,498 (83%)	311 (17%)	1,632 (83%)	330 (17%)	1,689 (84%)	323 (16%)	
		DS	1,995 (86%)	333 (14%)	2,223 (87%)	343 (13%)	2,436 (88%)	344 (12%)	
	West of Scotch	Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)	
	Corner	DM	1,608 (84%)	298 (16%)	1,597 (81%)	364 (19%)	1,803 (85%)	329 (15%)	
		DS	2,246 (87%)	345 (13%)	2,322 (86%)	389 (14%)	2,649 (88%)	367 (12%)	

9.3.11 The Light and Heavy vehicle proportions shown are similar to the Core Scenario proportions.



Forecast Journey Times

9.3.12 Journey times on the A66 corridor between Scotch Corner and M6 J40 are shown in Table 9-14 and Table 9-15. Results for other years are presented in **Appendix J – Sensitivity Test Journey Time Tables.**

Table 9-14: A66 Corridor Journey times (mm:ss) - 2044 - Low Growth Scenario

Time Period	Direction	Base 2019	DM	DS	DM vs. Base	DS vs. DM
	A66 - Eastbound	53:20	55:08	44:56	01:47 (3%)	-10:12 (-18%)
	A66 - Westbound	54:11	55:56	45:12	01:45 (3%)	-10:45 (-19%)
	A66 - Eastbound	54:11	56:28	45:19	02:17 (4%)	-11:09 (-20%)
	A66 - Westbound	54:05	56:46	45:11	02:40 (5%)	-11:35 (-20%)
	A66 - Eastbound	54:49	57:24	45:28	02:35 (5%)	-11:56 (-21%)
	A66 - Westbound	54:26	56:54	45:37	02:29 (5%)	-11:17 (-20%)
	A66 - Eastbound	49:25	49:33	44:08	00:09 (0%)	-05:25 (-11%)
	A66 - Westbound	49:24	49:45	44:10	00:20 (1%)	-05:34 (-11%)

Table 9-15: A66 Corridor Journey times (mm:ss) - 2044 - High Growth Scenario

Time Period	Direction	Base 2019	DM	DS	DM vs. Base	DS vs. DM
	A66 - Eastbound	53:20	57:35	45:22	04:15 (8%)	-12:13 (-21%)
	A66 - Westbound	54:11	59:27	45:46	05:16 (10%)	-13:41 (-23%)
	A66 - Eastbound	54:11	59:26	45:42	05:15 (10%)	-13:44 (-23%)
	A66 - Westbound	54:05	01:00:09	45:45	06:04 (11%)	-14:24 (-24%)
	A66 - Eastbound	54:49	01:00:39	45:55	05:50 (11%)	-14:44 (-24%)
	A66 - Westbound	54:26	01:01:11	46:19	06:45 (12%)	-14:51 (-24%)
	A66 - Eastbound	49:25	49:53	44:10	00:28 (1%)	-05:43 (-11%)
	A66 - Westbound	49:24	50:06	44:12	00:41 (1%)	-05:54 (-12%)

- 9.3.13 The DM and DS journey times for the Low Growth Scenario and High Growth Scenario logically sit either side of the Core Scenario forecasts, with slightly less of a time saving in the Low Growth Scenario and slightly more in the High Growth Scenario, with time savings of 10-12 minutes and 12-15 minutes for the Low Growth Scenario and High Growth Scenario, respectively.
- 9.3.14 Journey time difference tables across all years are shown in **Appendix I** Sensitivity Test Journey Times



10 Summary

10.1 Approach

- 10.1.1 The A66 Transport Model has been updated at PCF Stage 3 to forecast the impacts of the Preferred Route along the A66 corridor between the A1 (M) Scotch Corner and M6 J40 as part of the A66 Trans Pennine project. The A66 model is a network based variable Demand Model using SATURN assignment and DIADEM demand model software. There is detailed representation of the model network and zone system along the A66 corridor and local network. The Stage 3 A66 Transport Model is an updated version of the Stage 2 model which was original derived from the Northern Regional Transport Model used for the Stage 0 assessment.
- The future model years are 2029 (Project opening year), 2044 (design year) and 2051 (final model year) all pivoting off the 2019 base model year for VDM.
- 10.1.3 The A66 Transport Model revalidation and updates made at Stage 3 are described in the Transport Model Package report:
 - HE565627-AMY-GEN-S00-RP-TR-000010
- 10.1.4 In terms of forecasting assumptions, the following have been updated at Stage 3:
 - Preparation of a revised Uncertainty Log using the latest information on developments and schemes along and in the near vicinity of the A66 corridor, and updated Core Scenario network infrastructure and demand assumptions;
 - Revised forecast years taking account of the most up to date Project construction programme;
 - More detailed forecast networks including variation in road characteristic and speed restrictions, side roads and additional network detail particularly in Penrith;
 - Representation of the Stage 3 Preferred Route Project in the DS network; and
 - Updated generalised cost parameters, reflecting the latest TAG data book (v1.15 and v1.17).
- 10.1.5 The following forecasting assumptions have been retained from the Stage 2 modelling:
 - Background growth assumptions using NTEM version 7.2, and goods vehicle growth based on RTF 2018 is unchanged from the methodology used at Stage 2; and
 - Enhanced network and zone detail added to the A66 corridor area at Stage 3 to improve the representation inherited from the NRTM, including enhanced definition in Penrith.
- 10.1.6 Low Growth Scenario and High Growth Scenario sensitivity tests have been run following the approach detailed in TAG Unit M4-1.



10.2 Results

- The model results are presented in Chapters 7 and 8 for the demand and highway assignment impacts and are summarised below:
- 10.2.2 Demand summary impacts:
 - Demand model convergence is achieved within the set criteria for all model runs across scenarios and future years.
 - Overall, the demand summary results are reasonable. The demand summary tables presented show that the impacts with the Project in place are generally quite subtle, which makes sense considering the Project and movements which would be expected to benefit in the context of modelled demand set covering the whole of mainland UK.
 - The DS demand summaries shows highest percentage increase between sectors representing long distance movements between Scotland and Yorkshire, and East and West of the Pennines, which seems logical.
- 10.2.3 Highway assignment impacts concerning model convergence and network statistics have been examined.
 - Model convergence criteria satisfactorily achieved across all model scenarios and years.
 - There is generally an intuitive pattern of network statistics, in terms of total network travel time and distance changes, change in average speed and total assigned trips. Changes between the DM and DS statistics are relatively minor, as would be expected.
- 10.2.4 Highway assignment impacts in terms of change in DM and DS flows and travel times:
 - The trends in flow differences across the scenarios is similar in all three forecast years, with highest change occurring on the A66 where the Project is located, and smaller changes elsewhere.
 - The flow difference plots clearly show a pattern of long-distance strategic trips travelling from South East to North West of the model simulation area, re-routing to use the A66 corridor.
 - The forecast journey time results predict travel time savings of 11-13 minutes in the design year with the Project in place; with increased travel time savings in 2051 as would be expected.
- 10.2.5 The Low Growth Scenario and High Growth Scenario sensitivity test results show the impact on the forecasts when the assumptions are changed to reflect upper and lower traffic growth estimates. The results show that to a certain extent the VDM responds to adjust the demand a little closer to the Core Scenario. Overall the impact on traffic flow patterns and delays is moderate, and the scale of change in terms of Project travel time saving along the A66 corridor in 2044 is plus or minus 1-2 minutesfor the Low Growth Scenario and High Growth Scenario, respectively.
- 10.2.6 In summary, the model forecast results presented appear reasonable and provide a logical representation of the future year Project impacts.



11 Abbreviations

11.1.1 The table below sets out the abbreviations for terms used in this document.

Table 11-1: Abbreviations

Term	Definition
AADT	Annual Average Daily Traffic
AAWT	Annual Average Weekly Traffic
ADMS	Advanced Dispersion Modelling System
AEP	Annual Exceedance Probability
AGI	Above Ground Installation
AGS	Amenity Green Space
AHA	Agricultural Holdings Act
AHLV	Area of High Landscape Value
ALARP	As low as reasonably practicable
ALC	Agricultural Land Classification
AM	Ante meridiem (morning)
AMAA	Ancient Monuments and Archaeological Areas Act 1979
ANPR	Automatic Number Plate Recognition
AOD	Above Ordnance Datum
AONB	Area of Outstanding Natural Beauty
APIS	Air Pollution Information System
AQ	Air Quality
AQMA	Air Quality Management Area
AQS	Air Quality Strategy
ARN	Affected Road Network
ASNW	Ancient Semi Natural Woodland
ASR	Annual Status Report
ATI	Ancient Tree Inventory
AW	Ancient Woodland
BAP	Biodiversity Action Plan
BBS	Breeding Bird Survey
BCT	Bat Conservation Trust
BEIS	Department for Business, Energy & Industrial Strategy
Bgl	Below ground level
BGS	British Geological Survey
BMCL	Bat Mitigation Class License
BMV	Best and Most Versatile
BNL	Basic Noise Level
BoQ	Bill of Quantities
P ₀ CC	Birds of Conservation Concern
BoCC	
ВРМ	Best Practicable Means



BSI British Standards Institute BTO British Trust for Ornithology CAA Civil Aviation Authority CBC Common Bird Census CCC Cumbria County Council CCTV Closed Circuit Television CDE Construction, Demolition and Excavation CDM Construction Design and Management CEDA Centre for Environmental Data Analysis CEH Centre for Ecology and Hydrology CEnv Chartered Institute of Ecology and Environmental Management CIFA Chartered Institution of Water and Environmental Management CKD Combined Kerb and Drainage CKDU Combined Kerb and Drainage CKDU Combined Kerb and Drainage CKDU Combined Kerb and Drainage Units CL:AIRE Contaminated Land: Applications in Real Environments CMLI Chartered Members of the Landscape Institute CMRA Coal Mining Risk Assessment CO2 Carbon Dioxide, commonly closely related to the global climate change phenomenon ComMA Combined Modelling and Appraisal COPA Control of Pollution Act 1974 CROW Countryside and Rights of Ways Act 2000 CRTN Calculation of Road Traffic Noise CTMP Construction Traffic Management Plan dB Decibels DBA Desk Based Assessment DCC Durham County Council DCMS Department for Culture, Media and Sport DCO Development Consent Order Defra Department for Environment, Food and Rural Affairs DIT Department for Environment, Food and Rural Affairs DIT Department for Transport DM Do Minimum DMRB Design Manual for Roads and Bridges DS Do Something DTM Digital Terrain Model DWP Diffuse Water Pollution	Term	Definition
BTO British Trust for Ornithology CAA Civil Aviation Authority CBC Common Bird Census CCC Cumbria County Council CCTV Closed Circuit Television CDE Construction, Demolition and Excavation CDM Construction Design and Management CEDA Centre for Environmental Data Analysis CEH Centre for Ecology and Hydrology CEnv Chartered Environmentalist CIEEM Chartered Institute of Ecology and Environmental Management CIFA Chartered Institute for Archaeologists CIRIA Construction Industry Research and Information Association CIWEM Chartered Institution of Water and Environmental Management CKD Combined Kerb and Drainage CKDU Combined Kerb and Drainage Units CL:AIRE Contaminated Land: Applications in Real Environments CMLI Chartered Members of the Landscape Institute CMRA Coal Mining Risk Assessment CO2 Carbon Dioxide, commonly closely related to the global climate change phenomenon COMMA Combined Modelling and Appraisal COPA Control of Pollution Act 1974 CROW Countryside and Rights of Ways Act 2000 CRTN Calculation of Road Traffic Noise CTMP Construction Traffic Management Plan dB Decibels DBA Desk Based Assessment DCC Durham County Council DCMS Department for Culture, Media and Sport DCC Durham County Council DCMS Department for Environment, Food and Rural Affairs DfT Department for Environment, Food and Rural Affairs DfT Department for Fonds and Bridges DS Do Something DTM Digital Terrain Model DWP Diffuse Water Pollution		
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DTM Digital Terrain Model DWP Diffuse Water Pollution	DMRB	Design Manual for Roads and Bridges
DWP Diffuse Water Pollution	DS	Do Something
DWP Diffuse Water Pollution	DTM	Digital Terrain Model
EAR Environmental Assessment Report	DWP	
	EAR	Environmental Assessment Report
EC European Commission		
ECoW Ecological Clerk of Work		



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Term	Definition
EDC	Eden District Council
ЕНО	Environmental Health Officer
EIA	Environmental Impact Assessment
ELC	European Landscape Convention
EMF	Electric and Magnetic Fields
EMP	Environmental Management Plan
EMS	Environmental Management System
END	Environmental Noise Directive
EPDs	Environmental Product Declarations
EPS	European Protected Species
EQR	Ecological Quality Ratio
EQS	Environmental Quality Standard
ERIC	Environmental Records Information Centre
ERS	Expose Riverine Sediment
ES	Environmental Statement
EU	European Union
EZI	Ecological Zone of Influence
FBT	Farm Business Tenancy
FRA	Flood Risk Assessment
FRAP	Flood Risk Activities Permit
FRGS	Fellowship of the Royal Geographical Society
GA	General Arrangement
GAC	Generic Assessment Criteria
GCN	Great crested newt
GCSE	General Certificate of Secondary Education
GHG	Greenhouse Gas
GI	Ground Investigation
GIR	Ground Investigation Report
GIS	Geographical Information Systems
GLVIA	Guidelines for Landscape and Visual Impact Assessment
GPP	Guidance for Pollution Prevention
ha	Hectares
HADDMS	Highways Agency Drainage Data Management System
HAPMS	Highways England Pavement Management System
HAWRAT	Highways Agency Water Risk Assessment Tool
HDV	Heavy Duty Vehicle
HEDBA	Historic Environment Desk Based Assessment
HEMP	Handover Environmental Management Plan
HER	Historic Environment Record
HGV	Heavy Goods Vehicle
HLC	Historic Landscape Characterisation
HLT	Historic Landscape Type
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Term	Definition
НМ	Her Majesty's
HP	High Pressure
HPGM	High Pressure Gas Main
HPI	Habitats of Principal Importance
HRA	Habitats Regulation Assessment
HRA	Hot Rolled Asphalt
HS	Health & Safety
HSE	Health and Safety Executive
HSI	Habitat Suitability Index
HS2	High Speed Rail
HE GDMS	Highways Agency Geotechnical Data Management System
IAN	Interim Advice Note
IAQM	Institute of Air Quality Management
ICE	Institute of Chartered Engineers
ICG	Internal Condition Grade
ICM	Integrated Catchment Modelling
ICNIRP	International Commission on Non-Ionizing Radiation Protection
IEMA	Institute of Environmental Management and Assessment
ILM	Incremental Launching Method
IMD	Indices of Multiple Deprivation
IUCN	International Union for the Conservation of Nature
JNCC	Joint Nature Conservation Committee
JSNA	Joint Strategic Needs Assessment
Kg	Kilogram
kgCO ₂ e	Kilogram of carbon dioxide equivalent
Km	Kilometre
KPI	Key Performance Indicators
kTCO ₂ e	Kilo-tonne of carbon dioxide equivalent
KV	Kilovolt
LAQM	Local Air Quality Management
LBAP	Local Biodiversity Action Plan
LCA	Landscape Character Area
LCT	Landscape Character Type
LED	Light Emitting Diode
LFRMS	Local Flood Risk Management Strategy
LiDAR	Light Detection and Ranging
LLCA	Local Landscape Character Area
LLFA	Lead Local Flood Authority
LMP	Landscape Mitigation Masterplan
LNR	Local Nature Reserve
LNS	Low Noise Surface
LOAEL	Lowest Observed Adverse Effect Level



Term	Definition
LoD	Limits of Deviation
LP	Low Pressure
LPA	Local Planning Authority
LRM	Local Relief Model
LSOA	Lower-layer Super Output Area
LTP	Local Transport Plan
LTTE6	The Long-Term Trends for projecting annual mean NO2 and NOX concentrations at the roadside, including the impact of Euro 6 and Euro VI emissions standards
LVIA	Landscape and Visual Impact Assessment
LWS	Local Wildlife Site
MA	Master of Arts
MAD	Major Accidents and Disasters
MAGIC	Multi Agency Geographic Information for the Countryside
MCHW	Manual of Contract Documents for Highway Works
MCIEEM	Member of CIEEM
MCIWEM	Member of CIWEM
MHCLG	Ministry of Housing, Communities and Local Government
MICE	Member of Institute of Chartered Engineers
MIOA	Member of the Institute of Acoustics
MMP	Material Management Plan
MoD	Ministry of Defence
MP	Medium Pressure
MRSS	Maintenance and Repair Strategy Statement
MSP	Maintenance Service Provider
Mt	Million Tonnes
MW	Megawatt
N/A	Not Applicable
NBN	National Biodiversity Network
NCA	National Character Area
NHL	National Heritage List
NIA	Noise Important Area
NIR	Noise Insulation Regulations 1975
NMR	National Monument Record
NMP	National Mapping Programme
NNR	National Nature Reserve
NO	Nitrogen Oxide
NO2	Nitrogen Dioxide
NOEL	No Observed Effect Level
NOx	Oxides of Nitrogen
NPPF	National Planning Policy Framework
NPS	National Policy Statement
NPS NN	National Policy Statement for National Networks



Term	Definition
NRMM	Non-Road Mobile Machinery
NRPB	National Radiological Protection Board
NSIP	Nationally Significant Infrastructure Project
NTCC	National Traffic Control Centre
NTS	Non-Technical Summary
NVC	National Vegetation Classification
NVMP	Noise and Vibration Management Plan
NVQ	National Vocational Qualification
NYCC	North Yorkshire County Council
OD	Ordnance Datum
ONS	Office for National Statistics
os	Ordnance Survey
PAWS	Plantations on Ancient Woodland Sites
PCBs	Polychlorinated Biphenyls
PCF	Project Control Framework
PCM	Pollution Climate Mapping
PDR	Project Design Report
PEA	Preliminary Ecological Appraisal
PEIR	Preliminary Environmental Information Report
PIEMA	Practitioner in IEMA
PINS	Planning Inspectorate
PM	Post meridian (afternoon)
PM	Particulate Matter
PM10	Particulate matter with an aerodynamic diameter of less than 10 micrometres.
PM2.5	Particulate matter with an aerodynamic diameter of less than 2.5 micrometres.
PMA	Private Means of Access
PNL	Prevailing Noise Levels
PPE	Personal Protective Equipment
PPG	Planning Practice Guidance
PPGs	Pollution Prevention Guidelines
PPV	Peak Particle Velocity
PRA	Preliminary Risk Assessment
PRoW	Public Right of Way
PSSR	Preliminary Sources Study Report
PSV	Polished Stone Values
PSYM	Predictive System for Multimetrics
PWM	Precautionary Working Method
PWMS	Precautionary Working Method Statement
R&D	Research and Development
RAMS	Risk Assessments and Method Statements
RBMP	River Basin Management Plan
RDC	Richmondshire District Council



Term	Definition
REAC	Register of Environmental Actions and Commitments
RHS	River Habitat Survey
RIGS	Regionally Important Geological Site
RIS	Road Investment Strategy
RNL	Relevant Noise Level
RPA	Root Protection Area
RPE	Respiratory Protective Equipment
RSE	Road Safety Engineers
RWSC	Routine and Winter Service Code
SAC	Special Area of Conservation
SEE	Suitably experienced ecologist
SFAR	Strategic Flood Risk Assessment
SGAR	Stage Gate Assessment Review
SLR	Single Lens Reflex
SM	Scheduled Monument
SMS	Soil Management Strategy
SRN	Strategic Road Network
SNCI	Site of Nature Conservation Importance
SNRHW	Stable Non-Reactive Hazardous Waste
SOAEL	Significant Observed Adverse Effect Level
SoCC	Statement of Community Consultation
SoCG	Statement of Common Ground
SOP	Standard Operating Procedure
SPA	Special Protection Area
SPD	Supplementary Planning Documents
SPHN	Statutory Plant Health Notice
SPI	Species of Principal Importance
SPZ	Source Protection Zone
SRG	Stakeholder Reference Group
SSSI	Site of Special Scientific Interest
SuDS	Sustainable Drainage System
SWMP	Site Waste Management Plan
t	tonnes
TA	Transport Assessment
TAG	Transport and Analysis Guidance
TCPO	The Town and Country Planning (Development Management Procedure) (England) Order 2015
TM	Traffic Management
TMP	Traffic Management Plan
TMU	Traffic Monitoring Unit
TPO	Tree Protection Order
TRA	Traffic Reliability Area



Term	Definition
TSCS	Thin Surface Course System
TTMP	Traffic and Transport Management Plan
TVCB	Temporary Vertical Concrete Barrier
UK	United Kingdom
UV	Ultraviolet
UXO	Unexploded Ordnance
VES	Visual Effects Schedules
VLR	Variable Lighting Regime
VOL	Volatile Organic Compound
VRS	Vehicle Restraint System
WCA	Wildlife and Countryside Act 1981
WCC	Woodland Carbon Code
WCH	Walking, Cycling and Horse Riding / Walkers, Cyclists and Horse Riders
WCHAR	Walking, Cycling and Horse Riding Assessment and Review
WFD	Water Framework Directive
WHO	World Health Organisation
WRAP	Waste and Resources Action Programme
WSI	Written Scheme of Investigation
Zol	Zone of Influence
ZTV	Zone of Theoretical Visibility
ZVI	Zone of Visual Influence



A Development Uncertainty Log

A66 Northern Trans-Pennine Project 3.8 Combined Modelling and Appraisal Report Appendix D - Stage 3 Transport Forecast Package



A.1 All Developments - Uncertainty Log



rupID	Author	SiteNm	X	Y Dev	Land Use	NetArea	TotDwell	2029	2039	2044	2051	Uncertainty	Big	Core	TA
													Enough	Wide	
		_													
1	Teesvalley	Heighington Lane North	426464	522445 Emp	B2/B8	26970	0	26970		26970		Reasonably Foreseeable		1 C	
2	Teesvalley	Faverdale Reserve Site	427318	518008 Emp	B2/B8	36000	0	7200	14400	14400		Hypothetical		1 C	
3	Teesvalley	Morton Palms (Alderman Best Way)	432282	513463 Emp	B1	50400	0	18144	28224	30240		Hypothetical		1 C	
4	Teesvalley	Faverdale East Business Park (St Modwens)	428060	517347 Emp	B2/B8	100000	0	25000	35000	35000		Hypothetical		1 C	
5	Teesvalley	Faverdale Industrial Area (Argon)	427448	516721 Emp	B2/B8	6305	0	6305	6305	6305		Near Certain		1 C	+
6	Teesvalley	Faverdale Industrial Area (Remainder)	427486	516576 Emp	B2/B8	25968	0	6856	8569	8569		Hypothetical		1 C	
7	Teesvalley	Yarm Road Industrial Area	431902	514355 Emp	B2/B8	59295	0	59295	59295	59295		Near Certain		1 C	
8	Teesvalley	Yarm Road South Extension	431639	513329 Emp	B2/B8	132192	0	43623	43623	43623		Hypothetical		1 C	
9	Teesvalley	Yarm Road North (Dean and Chapter)	432417	514839 Emp	B2/B8	127000	0	25400	50800	50800		Near Certain		1 C	\bot
	Teesvalley	Yarm Road North (Dean and Chapter)	432417	514839 Emp	A3	2500	0	2500	2500	2500		More than Likely		1 C	
12	Teesvalley	McMullen Road West	430662	515204 Emp	B2/B8	40600	0	36540	40600	40600		Hypothetical		1 C	
	Teesvalley	Central Park (vacant land only)	429810	514838 Emp	B1	28000	0	22736	28000	28000		Hypothetical		1 C	
	Teesvalley	Central Park	429816	514727 Res	C3	0	359	359	359	359		Near Certain		1 C	
	Teesvalley	Central Park South (Business Startup Center)	429596	514358 Emp	B1	3199	0	3199	3199	3199		Hypothetical		1 C	
	Teesvalley	Central Park (Local Centre)	429880	515075 Emp	A1	1700	0	1700	1700	1700		Near Certain		1 C	
	Teesvalley	Durham Tees Valley Airport	436740	513100 Emp	B2/B8	101250	0	94365		101250		Hypothetical		1 C	
	Teesvalley	Lingfield Point Phase 1	431131	514771 Res	C3House	0	273	273	273	273		Near Certain		1 C	
	Teesvalley	Lingfield Point (ex Phase 1)	431715	515017 Res	C3	0	331	268	331	331		More than Likely		1 C	
21	Teesvalley	Lingfield Point	431715	515017 Emp	B1	13666	0	9566	13666	13666	13666	More than Likely		1 C	
22	Teesvalley	Lingfield Point	431715	515017 Emp	A1	2700	0	2700	2700	2700	2700	More than Likely		1 C	
25	Teesvalley	Geneva Lane/Geneva Bakery	429565	513278 Res	C3	0	216	216	216	216	216	Hypothetical		1 C	
26	Teesvalley	Former Corus site, Whessoe Road	428545	516693 Res	C3	0	250	220	250	250		Hypothetical		1 C	
33	,	North West Urban Fringe (West Park Garden Village)	426240	517131 Res	C3	0	1200	516	1116	1176		Hypothetical		1 C	
	Teesvalley	Eastern Urban Fringe, Great Burdon	432223	515914 Res	C3	0	1250	200	700	750	750	Hypothetical		1 C	
35	Teesvalley	Hopetown Park	428603	515861 Res	C3	0	110	110	110	110	110	Hypothetical		1 C	
37	Teesvalley	Feethams / Beaumont Street	428866	514271 Emp	B1	3000	0	3000	3000	3000	3000	Hypothetical		1 C	
39	Teesvalley	West Park	426690	516860 Res	C3House	0	213	202	213	213	213	Near Certain		1 C	
41	Teesvalley	Feethams East (former bus depot)	429045	514255 Emp	A4	3135	0	3135	3135	3135		Hypothetical		1 C	
42	Teesvalley	Feethams East (former bus depot)	429045	514255 Emp	D2Cinema	3526	0	3526	3526	3526	3526	Hypothetical		1 C	
60	Teesvalley	Albert Road Retail Park	429125	515676 Emp	A1	1737	0	1737	1737	1737	1737	Hypothetical		1 C	
61	Teesvalley	Albert Road Retail Park	429125	515676 Emp	A1Food	2177	0	2177	2177	2177	2177	Hypothetical		1 C	
62	Teesvalley	Land to the South of Burtree Lane	428603	518037 Res	C3	0	380	267	380	380	380	Hypothetical		1 C	
63	Teesvalley	Land off Sadberge Road, Middleton St George, Darlington	434469	514151 Res	C3House	0	234	0	0	0	0	Near Certain		1 C	
64	Teesvalley	Elm Tree Farm	430480	517084 Res	C3	0	150	0	0	0	0	Hypothetical		1 C	
67	Teesvalley	High Stell/Gendon Gardens, Middleton St.George	434106	513628 Res	C3	0	198	0	0	0	0	More than Likely		1 C	
68	Teesvalley	Land north of Coniscliffe Road (Southern Coniscliffe Park)	425472	514970 Res	C3	0	535	0	0	0	0	Reasonably Foreseeable		1 C	
80	Teesvalley	School Aycliffe West	425840	523342 Res	C3House	0	101	101	101	101	101	Near Certain		1 C	
81	Teesvalley	Land at Berrymead Farm / Land North of White Horse Pub	429102	518165 Res	C3	0	370	0	0	0	0	Reasonably Foreseeable		1 C	\top
82	Teesvalley	Land South of Neasham Road	429920	512631 Res	C3	0	700	0	0	0	0	Hypothetical		1 C	\top
85	Teesvalley	Maxgate Farm, Station Road, Middlton st George	434020	514041 Res	C3	0	260	0	260	260	260	Hypothetical		1 C	
87	Teesvalley	Land Off Yarm Road South of Railway Line, MSG (High Scrogg Farm)	434928	513365 Res	C3	0	330	0	330	330		Near Certain		1 C	
89	Teesvalley	Middleton St George, New School	435105	513465 Emp	B2/B8	40938	0	8188	0	0		Hypothetical		1 C	
	Teesvalley	Land at Coniscliffe Grange South, Staindrop Road	425576	514991 Res	C3	0	985	0	788	985		Reasonably Foreseeable		1 C	
	Teesvalley	John Fowler Way, West Park	426793	517085 Emp	A1Food	1820	0	1820	1820	1820		Hypothetical		1 C	
	Teesvalley	Land to the South of Woodlands Hospital (Dunelm)	432140	513889 Emp	A1	3670	0	3670	3670	3670		Hypothetical		1 C	\top
	Teesvalley	Skerningham Masterplan	430940	517925 Res	C3	0	4500	1260	2160	2790		Hypothetical		1 C	\top
	Teesvalley	Greater Faverdale Masterplan (Burtree Garden Village)	427317	518006 Res	C3	0	2000	0	0	0	0	Hypothetical		1 C	+
	Teesvalley	South of Maritime Avenue	451665	532266 Res	C3	1 0	400	0	160	200	200	Near Certain		1 W	+
	Teesvalley	Mayfair	452182	528728 Res	C3House	1 0	261	261	261	261		Near Certain		1 W	+
	Teesvalley	Upper Warren	448481	534644 Res	C3House	1 0	500	475	500	500		Near Certain		1 W	+
	Teesvalley	Britmag	450399	535359 Res	C3House	1 0	479	456	479	479		Near Certain		1 W	+
	Teesvalley	South West Extension (Claxton)	448020	529184 Res	C3 C3	1 0	1260	882	1260	1260		Near Certain		1 W	+
		, ,				1 0			$\overline{}$						+-
168	Teesvalley	High Tunstall	447783	532560 Res	C3	0	1200	768	1200	1200	1200	Hypothetical	1	1 W	_



ArupID	Author	SiteNm	X	Y	Dev	Land Use	NetArea T	otDwell	2029	2039	2044	2051	Uncertainty	Big Enough	Core Wide	TA
		lus			-	les.										
	Teesvalley	Wynyard Park North	442766	527920		C3House	0	400		400	400		Hypothetical		1 W	+
	Teesvalley	Acklam Gardens (Central Whinney Banks)	447657	51827	_	C3House	0	304		304	304		Near Certain		1 W	+
	Teesvalley	Police HQ, Ladgate Lane	450467	515759	-	B1	11621	467	422	0	467		Hypothetical		1 W	+
	Teesvalley	Ladgate Woods (Police HQ site)	450367	515736		C3House	0	467		467	467		Near Certain		1 W	+
	Teesvalley	Grey Towers Village Brackenhoe East	453221	51388		C3House	0	453		453	453		Near Certain		1 W	+
	Teesvalley Teesvalley		451047 450319	51740		C3House	13802	350	-	350	350		Near Certain Near Certain		1 W 1 W	+
	Teesvalley	Snow centre Middlehaven - office	449685	520890 520989		D2 B1	68000	0	13802 14960	13802 47600	13802 51000		Hypothetical		1 W	+
	Teesvalley	Middlehaven - retail	449685	520989	<u> </u>	A1	3150	0	3150	3150	3150		Hypothetical		1 W	+
	Teesvalley	Gresham	449000	51966	-	C3House	2130	273		3130	2120		Hypothetical		1 W	+
	Teesvalley	Gresham	449000	51966		C3Flat	0	450		450	450		Hypothetical		1 W	+
	Teesvalley	Stainsby (Stainsby Hall Farm/Stainsby Hill Farm)	447189	51589		C3House	0	850		850	850		Hypothetical		1 W	+
	Teesvalley	Stainsby (Stainsby Hair Farm) Stainsby Hiir Farm) Stainsby (Brookfield Woods/Brookland Park)	447448	515199		C3House	0	299		299	299		Near Certain		1 W	+
	Teesvalley	Hemlington Grange (Elderwood Park phases 1-4 and Ashwood Park phase 1	450251	51398	_	C3House	0	655	-	655	655		Near Certain		1 W	+
	Teesvalley	Hemlington Grange (cuterwood rank phases 1—rank Ashwood rank phase 1)	449876	51400		C3House	0	575	-	575	575		More than Likely		1 W	+
	Teesvalley	Newham Hall Farm	451650	513626	_	C3House	0	1100		1049	1100		Hypothetical		1 W	+-
	Teesvalley	Tees AMP	448078	52028		B2/B8	23865	0	23865	23865	23865		Near Certain		1 W	+
	Teesvalley	Cargo Fleet West	450960	52032	_	A1	3500	0		3500	3500		Hypothetical		1 W	+
	Teesvalley	University Building One - Southfield Road	449429	51970		D1College	5800	0	5800	5800	5800		Hypothetical		1 W	+
	Teesvalley	Centre North East	449553	52045	_	C3Flat	0	300		0	0	0	Near Certain		1 W	+-
	Teesvalley	1-29 Station Street	449381	52070	_	B2/B8	9159	0	0	0	0	0	Old Use		1 W	+-
	Teesvalley	1-29 Station Street	449381	52070	_	C3Flat	0	337		337	337		Near Certain		1 W	+
	Teesvalley	Centre Square	449754	52023	_	B1	19466	0	19466	19466	19466		Near Certain		1 W	+-
	Teesvalley	Stainton Vale Farm	447226	51471		C3House	0	740	-	740	740	740	Hypothetical		1 W	+-
	Teesvalley	Grove Hill (excluding Bishopton Road)	449742	518009		C3House	0	270		270	270		Hypothetical		1 W	+
	Teesvalley	Cornell Quarter, Woodlands Road	449727	51976	L Res	C3Flat	0	300	300	300	300	300	Near Certain		1 W	\top
	Teesvalley	BoHo X office	449524	520932	2 Emp	B1	8611	0	8611	8611	8611	8611	Reasonably Foreseeable		1 W	1
331	Teesvalley	Denmark Street Car Park	449045	520430	Emp	D1College	5629	0	5629	5629	5629	5629	Near Certain		1 W	\top
336	Teesvalley	Low Grange Farm	454176	52044	Res	C3	0	1250	338	713	750	750	Near Certain		1 W	\top
339	Teesvalley	Church Hill, Skelton (A+B)	466065	51947	Res	C3	0	267	267	267	267	267	Near Certain		1 W	\top
340	Teesvalley	Greenfield Extenson South of Marske	462476	523068	Res	C3House	0	1000	500	960	1000	1000	More than Likely		1 W	\top
342	Teesvalley	Kirkleatham Business Park	459045	52261	7 Emp	B1	25000	0	17000	20000	20000	20000	Hypothetical		1 W	\top
343	Teesvalley	Kirkleatham Business Park	459045	52261	7 Emp	B2/B8	24000	0	0	0	0	0	Near Certain		1 W	
346	Teesvalley	Skelton Industrial Estate Extension (Housing part)	466929	51959	Res	C3	0	400	288	400	400	400	Near Certain		1 W	\top
351	Teesvalley	Skelton Industrial Estate Extension	467169	51960	2 Emp	A1	3482	0	3482	3482	3482	3482	Near Certain		1 W	
373	Teesvalley	High Farm, Teesville	453520	51934	Res	C3House	0	294		294	294	294	Near Certain		1 W	
	Teesvalley	The Closes, Redcar. Havelock Park	459830	522790		C3	0	342	342	342	342	342	Near Certain		1 W	
	Teesvalley	Mannion Park, Grangetown	456000	520000	_	B1	11500	0	0	0	0		More than Likely		1 W	
	Teesvalley	Longbank Farm, Ormesby	454065	51653	7 Res	C3	0	320		320	320	320	More than Likely		1 W	
	Teesvalley	Galley Hill Farm, Guisborough	459168	515710		C3House	0	326		326	326		Near Certain		1 W	
	Teesvalley	Land at North East of Wilton International Site	457893	52287		B2/B8	87181	0	87181	87181	87181		Near Certain		1 W	
409	Teesvalley	West of Kirkleatham Lane	459227	522954		C3House	0	550		528	550	550	More than Likely		1 W	
412	Teesvalley	Cleveland Gate, Guisborough (Employment)	461131	515539		A1Food	5730	0	5730	5730	5730		Near Certain		1 W	
	Teesvalley	Kilton Lane, Brotton	469290	519350		C3	0	270		270	270		Hypothetical		1 W	
	Teesvalley	Land north of Woodcock Wood and West of Flatts Lane	454392	51693		C3House	0	400		400	400		More than Likely		1 W	
	Teesvalley	Former Visqueen Site	443586	51729		C3	0	450		450	450		Near Certain		1 W	
	Teesvalley	Allens West	441320	51488		B2/B8	38500	0	19712	77	0		Old Use		1 W	
	Teesvalley	Allens West	441320	51488		C3House	0	845	-	843	845		Near Certain		1 W	
	Teesvalley	The Rings	444037	51415		C3	0	480	-	480	480		Near Certain		1 W	
	Teesvalley	Little Maltby Farm, Low Lane	445444	513009		C3House	0	1155		1155	1155		Near Certain		1 W	
	Teesvalley	Summerville Farm	441674	52199		C3House	0	340	340	340	340		Near Certain		1 W	
	Teesvalley	Pipe Mill (Corus), Portrack Lane	446014	51959		B2/B8	22500	0		0	0		Old Use		1 W	
485	Teesvalley	Pipe Mill (Corus), Portrack Lane	446012	519804	1 Emp	B1	11613	0	11613	11613	11613	11613	Near Certain		1 W	



					Dev	Land Use	NetArea 1	Totowell	2029	2039	2044	2051	Uncertainty	Big Enough	Core Wide	TA
486	Teesvalley	Corus Pipe Mill	446014	519599	Res	C3	0	322		322	322	322	Near Certain		1 W	\Box
495	Teesvalley	Morley Carr Farm	441242	510999	Res	C3	0	350	350	350	350	350	Near Certain		1 W	
498	Teesvalley	Tall Trees	441127	510502		C3House	0	288		288	288	288	Near Certain		1 W	
	Teesvalley	Victoria Park (Estate)	444698	519524	Res	C3Flat	0	254		0	0		Old Use		1 W	
	Teesvalley	Queens Park North	444581	520249	Res	C3House	0	400		400	400	400	Old Use		1 W	
525	Teesvalley	Land off Grangefield Road (Thompsons Scrap Yard/Millfield)	443730	519156	Res	C3House	0	600	386	600	600	600	Reasonably Foreseeable		1 W	
	Teesvalley	Tees Marshalling Yard	446291	519192		C3	0	1100		0	0	0	Reasonably Foreseeable		1 W	
541	Teesvalley	Tithebarn Land	440995	520646	Res	C3House	0	340		0	0	0	Near Certain		1 W	
543	Teesvalley	Land at Wynyard Village (Wynyard Village Western Extension)Phase F	440808	527194		C3House	0	279		0	0	0	More than Likely		1 W	
550	Teesvalley	Wynyard Park	443733	527380	Res	C3House	0	400		0	0	0	Reasonably Foreseeable		1 W	
	Teesvalley	Land West Of Yarm Lea	440792	510847		C3House	0	495		0	0		Reasonably Foreseeable		1 W	
614	Teesvalley	Mount Leven Farm, Leven Bank Farm, Yarm	444266	512241	L Res	C3House	0	332		332	332	332	Near Certain		1 W	
625	Teesvalley	Hardwick Redevelopment	441894	521448	Res	C3	0	635	635	635	635	635	Hypothetical		1 W	
630	Teesvalley	Ingenium Parc	431480	513392		B2/B8	100000	0	83000	100000	100000		Near Certain		1 C	
631	Teesvalley	South Industrial Zone	454239	522313	-	B2/B8	174000	0	174000	174000	174000	174000	More than Likely		1 W	
632	Teesvalley	Lackenby	455341	521552	2 Emp	B2/B8	93000	0	93000	93000	93000	93000	Reasonably Foreseeable		1 W	
633	Teesvalley	Dorman Point	454715	521428	Emp	B2/B8	140000	0	140000	140000	140000	140000	Reasonably Foreseeable		1 W	
634	Teesvalley	The Foundry	456224	525186	Emp	B2/B8	464000	0	464000	464000	464000	464000	Reasonably Foreseeable		1 W	
635	Teesvalley	Steel House	457747	524269	Emp	B1	15794	0	15794	15794	15794	15794	Reasonably Foreseeable		1 W	
636	Teesvalley	Long Acres	457543	524644	1 Emp	B2/B8	186000	0	186000	186000	186000	186000	Reasonably Foreseeable		1 W	
637	Durham	INTEGRA61	430430	537494	1 Emp	B2	170859	3781	139763	170944	170944	170944	Near Certain		1 W	
642	Durham	Aykley Heads	426775	543543	Emp	B1a	12260	6000	6130	12260	12260	12260	More than Likely		1 W	T
646	Durham	Jade Park	439290	545779	Emp	B2/B8	14458	Unknown	0	0	0	0	Near Certain		1 W	
647	Durham	Former LG Phillips site	429989	544063	Emp	B2/B8	21073	Unknown	0	0	0	0	More than Likely		1 W	
651	Durham	Black & Decker (Durham Gate)	427481	534508	Res	C3	507	507	289	289	289	289	Near Certain		1 C	
653	Durham	Bracks Farm	421945	529083	Res	C3	300	300	201	201	201	201	Near Certain		1 C	
654	Durham	British Oxygen Co Vigo Lane	427565	553797	7 Res	C3	233	233	157	157	157	157	Near Certain		1 C	
656	Durham	Copelaw	429274	524849	Res	C3	600	600		770	1400	1400	Reasonably Foreseeable		1 C	
657	Durham	Dale Farm Land at Dale Road	423856	525404	Res	C3	340	340	125	275	340	340	Near Certain		1 C	1
658	Durham	Electrolux	426558	533164	Res	C3	425	425	-	425	425	425	Near Certain		1 C	
661	Durham	Former Cape Asbestos Works Durham Road (The Grange)	430194	538614	Res	C3	360	360		74	74		Near Certain		1 W	
662	Durham	Former Cemex Site	419252	526777	7 Res	C3	100	100	-	99	99	99	More than Likely		1 C	1
665	Durham	Former Riding Carpets Site	420735	535193	Res	C3	213	213		58	58		Near Certain		1 C	+-
666	Durham	Former Tudhoe Grange Upper School, St Charles Road	426227	534579		C3	110	110		110	110	110	Reasonably Foreseeable		1 C	1
	Durham	Genesis Site Berry Edge South	410025	550481		C3	482	482		421	421		Near Certain		1 W	1
	Durham	High Riggs (land adj Darlington Road)	406242	517233		C3	107	107		49	49		Near Certain		1 C	+-
	Durham	High West Road	415495	535356		C3	250	250		250	250		Reasonably Foreseeable		1 C	+
	Durham	Integra 61 Land South Of Bowburn & West Of The A688	430652	537491		C3	270	270		270	270		Near Certain		1 W	+-
	Durham	Lambton Park	430164	551743		C3	400	400		400	400		Near Certain		1 W	+-
	Durham	LAND AT AND TO WEST OF K HARTWALL LTD BUTCHERS RACE GREEN LANE	427275	534601		C3	108	108		57	57		Near Certain		1 C	+-
	Durham	Land at Former Catkin Way	419749	527554		C3	101	101		101	101		Near Certain		1 C	+-
	Durham	Land at Spout Lane	423941	525850		C3	278	278		98	98		Near Certain		1 C	+
	Durham	Land At The East Of Deerbolt HMYOI And North Of Bowes Road	404430	516449		C3	162	162		149	149		Near Certain		1 C	+
	Durham	Land At The Former Sedgefield Community Hospital Salters Lane	435973	531141		C3	100	100		100	100		Near Certain		1 C	+
	Durham	Land At The North Of Woodhouses Farm And South Of Etherley Moor Wigds	-	528709		C3	234	234		234	234		More than Likely		1 C	+
	Durham	Land at Woodham College	427432	526759		C3	100	100		100	100		Reasonably Foreseeable	1	1 C	+-
	Durham	Land North of Durham Road	424324	532717		C3	300	300		300	300		Near Certain		1 C	+
	Durham	Land north of West Chilton Terrace	428582	530391		C3	135	135		135	135		Near Certain		1 C	+
	Durham	Land rear of Newfield Terrace Newfield Farm	424535	552447		C3	274	274		28	28		Near Certain		1 W	+
	Durham	Land South Of A182SeahamCounty Durham	442527	546569		C3	1500	1500		840	1500		Near Certain		1 W	+
	Durham	Land South of A1825eanamcounty Durnam Land South of Douglas Crescent	422350	52861		C3	500	500		500	500		Near Certain		1 C	+
		Land to East of Ash Drive	422350	535326		C3	200	200	=	200	200		Reasonably Foreseeable		1 C	+
68/	Durham Durham	Land to East of Ash Drive Land To The East Of Clare Lodge And Durham Road	420969	529119		C3	194	194		115	115		Near Certain		1 C	+



ArupID	Author	SiteNm	X	Y	Dev	Land Use	NetArea To	tDwell	2029	2039	2044	2051 Uncertainty	Big Enough	Core Wide	TA
691	Durham	Land To The North Of Etherley Moor	418752	52909	1 Rec	C3	150	150	150	150	150	150 More than Likely		100	$\overline{}$
	Durham	Land To The North Of Middridge Road	426481	52624		C3	256	256	87	87	87	87 Near Certain		1 C	+
	Durham	Land To The South East Of Stewart Drive	440623	53789		C3	250	250	175	250	250	250 Near Certain		1 W	+
	Durham	Land To The South Of 100 To 106 Dean Road	428904	53205		C3	161	161	161	161	161	161 Near Certain		1 C	+
	Durham	Land To The South Of Eden Drive	435962	52836		C3	277	277	212	212	212	212 Near Certain	_	1 C	+
	Durham	Land to the South of Eeen brive Land to the South of Fenwick Way (Berry Edge Central)	410037	55084		C3	319	319	101	101	101	101 Near Certain	_	1 W	+-
	Durham	Land To The South Of Wallnook Lane And East Of Recreation Ground	421932	54491		C3	400	400	210	348	348	348 Near Certain	-	1 W	+-
	Durham	Land West of Browney Lane	424639	53894		C3	292	292	111	111	111	111 Near Certain	_	1 W	+-
	Durham	Laurel Drive	412541	55124		C3	292	290	155	290	290	290 Reasonably Foreseeable	.	1 W	+
	Durham	Low Hills	441928	54229		C3	900	900	210	390	900	900 Near Certain	-	1 W	+
	Durham	Middles Farm	420119	55168		C3	296	296	113	113	113	113 Near Certain		1 W	+
														1 W	+
	Durham	Milburngate House	427242 426613	54279		C3	303	303	303	303	303	303 More than Likely	+	1 W	+
	Durham	Mount Oswald		54069		C3	291	291 390	147 150	147 330	147	147 Near Certain 390 More than Likely	-		+
	Durham	North East Industrial Estate	442972	54198		C3	390				390			1 W	+-
	Durham	Seaham Colliery	441017	54980		C3	335	335	160	335	335	335 Reasonably Foreseeable		1 C	+
	Durham	Sherburn Road	429806	54223		C3	420	420	200	420	420	420 Reasonably Foreseeable	-	1 W	+
	Durham	Shotley Bridge Hospital	410271	55298		C3	280	280	73	73	73	73 Near Certain		1 W	+
	Durham	Site O - Cobblers Hall	427110	52643		C3	175	175	25	25	25	25 Near Certain		1 C	+
	Durham	Sniperley Park	425851	54415		C3	1700	1700	740	1700	1700	1700 Reasonably Foreseeable		1 W	+
	Durham	Thorn Lighting	426827	53356	_	C3	403	403	150	150	150	150 Near Certain		1 C	+
	Durham	Whitworth Park (All Phases)	424806	53420	_	C3	726	726	259	259	259	259 Near Certain		1 C	+
	Durham	Land To The West Of Startforth Park	403812	51606		C3	210	210	0	0	0	0 Hypothetical		1 C	—
	Northumberland	Ellington (land at), Ellington	428156	59169		C3	14	392	335	385	385	385 Near Certain		1 W	
	Northumberland	Land at South West Newsham, Blyth	430072	57890		C3	13	275	205	300	300	300 Reasonably Foreseeable		1 W	
	Northumberland	Land at South West Sector (Bellway), Cramlington	424630	57635		C3	78	1600	700	767	767	767 Near Certain		1 W	
	Northumberland	Land at West Blyth (accessed from Chase Farm), Blyth	429235	58068		C3	22	726	254	254	254	254 Near Certain		1 W	
	Northumberland	Land east of Allerburn Lea, Alnwick	419958	61324		C3	13	270	120	220	270	270 Reasonably Foreseeable		1 W	
961	Northumberland	Land East Of Wansbeck General Hospital, Ashington	429404	58775		C3	28	600	460	600	600	600 Near Certain		1 W	
	Northumberland	Land north of Scotland Gate, Choppington	425593	58459		C3	15	327	150	327	327	327 Reasonably Foreseeable		1 W	
980	Northumberland	Land North of Station Road (Bellway), Cramlington	426021	57741	9 Res	C3	16	481	302	302	302	302 Near Certain		1 W	
997	Northumberland	Land S of Dandsfield Square, Amble	427202	60368	6 Res	C3	10	272	272	272	272	272 Near Certain		1 W	
1035	Northumberland	Land to the East, Featherstone Grove, Bedlington	425218	58275	6 Res	C3	4	500	500	500	500	500 Near Certain		1 W	
	Northumberland	New Hartley Area 1, Land to the East of Seaburn Avenue, New Hartley	431087	57694		C3	9	285	285	285	285	285 Near Certain		1 W	
1137	Northumberland	Police HQ, Smallburn, Ponteland	415429	57403	5 Res	C3	14	253	253	253	253	253 Near Certain		1 W	
1145	Northumberland	Prudhoe Hospital Site, Prudhoe	410552	56219	6 Res	C3	29	404	400	400	400	400 Near Certain		1 W	
1163	Northumberland	Seaton Vale, Land at Summerhouse Lane, Ashington	429030	58747	9 Res	C3	23	704	265	265	265	265 Near Certain		1 W	
1178	Northumberland	South West Sector Application Site (Barratt), Cramlington	424987	57660	7 Res	C3	22	715	150	362	362	362 Near Certain		1 W	
1180	Northumberland	South-East of Coquet High School, Amble	426098	60338	9 Res	C3	22	500	150	450	500	500 Reasonably Foreseeable		1 W	
1190	Northumberland	St Georges Hospital, Morpeth	420307	58681	3 Res	C3	20	375	292	292	292	292 Near Certain		1 W	
	Northumberland	St. George's Hospital (land north), Morpeth	419780	58729		C3	42	875	270	570	720	870 Near Certain		1 W	
	Northumberland	Stobhill (land at), Morpeth	421124	58477	9 Res	C3	17	438	317	317	317	317 Near Certain		1 W	
	Northumberland	Vald Birn UK Ltd, C403 South View to Unity Terrace, Cambois	430231	58474	_	C3	8	323	150	323	323	323 Reasonably Foreseeable		1 W	\top
	Northumberland	Windy Edge, Alnwick	420158	61300		C3	13	270	200	270	270	270 Near Certain		1 W	\top
	Tyne and Wear	BAE Systems	426738	55602		C3	11	300	300	300	300	300 Reasonably Foreseeable		1 W	\top
	Tyne and Wear	Bedewell Industrial Estate and Disused Playing Fields	432136	56446		C3	10	335	292	292	292	292 More than Likely		1 W	\top
	Tyne and Wear	Dunston Hill	422641	56067		C3	18	352	352	352	352	352 Reasonably Foreseeable		1 W	\top
	Tyne and Wear	Exemplar Neughbourhood	426012	56286		C3	41	1000	500	1000	1000	1000 Reasonably Foreseeable	_	1 W	\top
	Tyne and Wear	Land at Chuter Ede Education Centre (excluding Brydon Court)	435899	56296		C3	8	280	200	280	280	280 Reasonably Foreseeable	_	1 W	+-
	Tyne and Wear	Land at Holborn	435831	56654		C3	5	365	365	365	365	365 Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Land to North of Town End Farm	434513	55988		C3	22	400	325	400	400	400 Reasonably Foreseeable	_	1 W	+
	Tyne and Wear	MetroGreen - Dunston W	422503	56260		C3	20	480	240	480	480	480 Reasonably Foreseeable		1 W	+
	Tyne and Wear	MetroGreen - South	421884	56240		C3	19	289	40	289	289	289 Reasonably Foreseeable		1 W	+-
	Tyne and Wear		425119	56353		C3	13	270	270	270	270	270 Reasonably Foreseeable		1 W	+
1527	ryne and wear	Pipewellgate	425119	20353	o nes	C3	1	2/0	2/0	2/0	2/0	270 Reasonably Poreseeable		T AA	



ArupID	Author	SiteNm	X Y	Dev	Land Use	NetArea	TotDwell	2029	2039	2044	2051	Uncertainty	Big	Core	TA
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1535	Tyne and Wear	Ryton	415362	563641 Res	C3	32	550	550	550	550	550	Reasonably Foreseeable	T	1 W	$\overline{}$
	Tyne and Wear	Site of former Siemans and Narec Clothier Laboritories	430421	563532 Res	C3	10	334		334			More than Likely		1 W	+
	Tyne and Wear	South Shields Community School - Brinkburn Campus	437513	566018 Res	C3	8	272	272	272		272	Reasonably Foreseeable		1 W	
1588	Tyne and Wear	Eastgate House, Manors Central Business Park Argyle Street	425380	564372 Res	C3	0	75	303	303	303	303	Reasonably Foreseeable		1 W	\top
1658	Tyne and Wear	Cement works and scrap yard, Pottery Lane East	424589	563513 Res	C3	0	283	120	220	270	283	More than Likely		1 W	
1659	Tyne and Wear	Cuthbert House, Pilgrim Street	425209	564119 Res	C3	0	321	321	321	321	321	More than Likely		1 W	
	Tyne and Wear	St James Metro Station	424385	564459 Res	C3	0	328		328	328	328	Reasonably Foreseeable		1 W	
1671	Tyne and Wear	Newburn Riverside	417924	564252 Res	C3	30	1000	475	875	875	875	Reasonably Foreseeable		1 W	
1673	Tyne and Wear	Former Redewood School, Etal Lane	420500	567198 Res	C3	7	253	120	220	253		More than Likely		1 W	
1687	Tyne and Wear	Scotswood Development Area (Phase 1)	420936	563890 Res	C3	12	362		220	270	320	More than Likely		1 W	
	Tyne and Wear	Scotswood Development Area Phase 2, Scotswood	420352	564020 Res	C3	30	1368		1358	1358		More than Likely		1 W	
	Tyne and Wear	2 Saint James Boulevard, Newcastle	424279	564341 Res	C3	0	230		350	350	350	More than Likely		1 W	
	Tyne and Wear	Newcastle Technopole, Kings Manor	425330	564431 Res	C3	0	162		535			More than Likely		1 W	
	Tyne and Wear	Calder Industrial Materials, Skinnerburn Road	424187	563144 Res	C3	5	700		700	700		Reasonably Foreseeable		1 W	
	Tyne and Wear	Lower Callerton SLR	417143	567336 Res	C3	30	900		760			More than Likely		1 W	\bot
	Tyne and Wear	Hazlerigg SLR	422755	572174 Res	C3	20	455		375		375	More than Likely		1 W	+
	Tyne and Wear	NGP Cell C	423202	571205 Res	C3	11	393	_	220			More than Likely		1 W	+
	Tyne and Wear	Newcastle Great Park Cell A	421879	571326 Res	C3	36			1060	1060		More than Likely		1 W	+
	Tyne and Wear	Newcastle Great Park Cell D	421833	570547 Res	C3	27	600		384	384	384	More than Likely		1 W	+
	Tyne and Wear	Throckley North SLR Phases 3-5	415130	567424 Res	C3	16	412		412	412		More than Likely		1 W	+
	Tyne and Wear	Upper Callerton SLR	419500	568888 Res	C3	46	1200	_	1085	1085		Reasonably Foreseeable		1 W	+
	Tyne and Wear	NGP West SLR	421173	570570 Res	C3	38	1000	560	960	960		Reasonably Foreseeable		1 W	+
	Tyne and Wear	Middle Callerton West	418031	568624 Res	C3	26	513		493	493		More than Likely	_	1 W	+
	Tyne and Wear	Middle Calleton East	418642	568171 Res	C3	17	600		570			More than Likely		1 W	+
	Tyne and Wear	North Tyne Industrial Estate, Whitley Road, Benton	429262	569626 Res	C3	22	495		480	495		Reasonably Foreseeable		1 W	+
	Tyne and Wear	West Chirton South, Norham Road, North Shields	433218	568302 Res	C3	29	399		399			More than Likely		1 W	+
	Tyne and Wear	Whitehouse Farm, West Moor	426405	571288 Res	C3	32	427	369	369	369		More than Likely		1 W	+
	Tyne and Wear	Station Road West, Wallsend (inc East Benton Farm)	428708	568765 Res	C3	31	593		588	588		More than Likely		1 W	+
	Tyne and Wear	Station Road East, Wallsend	428474	568765 Res	C3	29	650		488			More than Likely		1 W	+
	Tyne and Wear Tyne and Wear	Smith's Dock, North Shields	435464	567500 Res	C3	11	701		701	701		More than Likely		1 W	+
	Tyne and Wear	Scaffold Hill Farm, Holystone	430609 429518	569997 Res 570788 Res	C3	23	460		288	288		More than Likely		1 W	+
	Tyne and Wear	Killingworth Moor (strategic site)	432760		C3	192	2000		2000	2000		Reasonably Foreseeable		1 W 1 W	+-
	Tyne and Wear	Murton (strategic site) Balliol East, Benton Road, Longbenton	426988	570883 Res 570027 Res	C3	243 23	3300 583		3000 583	3000 583		Reasonably Foreseeable Reasonably Foreseeable		1 W	+
		Tynemouth Golf Course, Tynemouth	435825	569693 Res	C3	36			320			Reasonably Foreseeable		1 W	+
	Tyne and Wear Tyne and Wear	Baltic Business Quarter	426105	563533 Emp	A1 - Retail, B			51200				Reasonably Foreseeable		1 W	+
	Tyne and Wear	Bede Industrial Estate	434755	564781 Emp	B1 - Busines		Λ	12000				Reasonably Foreseeable		1 W	+
	Tyne and Wear	Boldon Business Park	434071	561372 Emp	B1 - Busines		31595					Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Former Hawthorne Leslie Shipyard, Hebburn	431340	564884 Emp	B2 - General		21393	12000	25000			Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Gateshead Quays	425650	563738 Emp	A1 - Retail, A		NUII	61400				Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Green Business Park, Hebburn / Jarrow Staithes	431340	564884 Emp	B2 - General		7500		37500			Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Jackson Street	425591	563045 Emp	A1 - Retail, A			3400	3400			Reasonably Foreseeable		1 W	+
	Tyne and Wear	Land bounded by Chaytor Street, Ellison Place, the Metro Line and Berkley V	433022	565611 Emp	B2 - General		16667	40002	83337	100004		Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Land east of Luke's Lane, Monkton Fell	431521	562663 Emp	B1 - Business		10007	9300	9300	9300		Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Monkton Business Park	431521	562663 Emp	B1 - Business	_	1000		25000			Reasonably Foreseeable		1 W	+
	Tyne and Wear	Old Town Hall Area	425478	563387 Emp	A1 - Retail, A			7600	7600	7600		Reasonably Foreseeable	_	1 W	+
	Tyne and Wear	Port of Tyne	434407	565563 Emp	B1 - Busines		18226					Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Simonside Industrial Estate	434953	564256 Emp	B1 - Busines		10220	12000	16700			Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Wardley Colliery	430503	562010 Emp	B2 - General		43357					Reasonably Foreseeable		1 W	+-
	Tyne and Wear	Shiremoor West	430567	571127 Emp	B1 - Busines		75557	9335	9335			Reasonably Foreseeable		1 W	+-
	Tyne and Wear	A19 Corridor Killingworth Moor	430047	570986 Emp	B1 - Business		0	141665				Reasonably Foreseeable		1 W	+-
$\overline{}$	Tyne and Wear	Balliol Business Park East	426909	570022 Emp	B1 - Busines		0	210750			_	Reasonably Foreseeable		1 W	+
2064				37 VVZ Z JEIIID	DE DUSINES!			1 210/30	£ 10/30	£10/30	£10/30	measonably ForeSeeable		-1**	1



ArupID	Author	SiteNm	X	Y Dev	Land Use	NetArea	TotDwell	2029	2039	2044	2051	Uncertainty	Big	Core	TA
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2066	Tyne and Wear	Weetslade East A	426135	572377 Emp	B1 - Business	14000		11665	11665	11665	11665	Reasonably Foreseeable	т.	ιw	$\overline{}$
	Tyne and Wear	Whitehill Point	434415	566488 Emp	B1 - Business		0	9415	9415	9415		Reasonably Foreseeable		ı w	+
	Tyne and Wear	Esso	434048	566816 Emp	B1 - Business		0	173750	173750	$\overline{}$		Reasonably Foreseeable		w	+
	Tyne and Wear	Weetslade	425770	571869 Emp	B1 - Business		0	265500	265500	$\overline{}$		Reasonably Foreseeable		w	+
	Tyne and Wear	Swan Hunters	430278	565949 Emp	B1 - Business		0	9415	9415	9415		Reasonably Foreseeable		w	+
2081	Tyne and Wear	Thermal Syndicate	429736	565646 Emp	B1 - Business	20400	0	17000	17000	17000	17000	Reasonably Foreseeable		w	
2082	Tyne and Wear	Hadrian Road South	431087	566426 Emp	B1 - Business	11500	0	9585	9585	9585	9585	Reasonably Foreseeable	1	w	1
2111	Tyne and Wear	Chapelgarth Site	437082	551888 Res	C3	750	750	563	750	750	750	Near Certain		w	\top
2128	Tyne and Wear	Former Groves Site, Woodbine Terrace, Pallion	437149	558004 Res	C3	720	720	390	720	720	720	More than Likely	1	L W	
2129	Tyne and Wear	Former Lambton Cokeworks Site (Elba Park)	432091	551337 Res	C3	359	359	359	359	359	359	Near Certain	1	L W	
2133	Tyne and Wear	Heritage Green - Rear of Bee Hive Pub, Coaley Lane	432936	551187 Res	C3	277	277	288	288	288	288	Near Certain	1	L W	
2136	Tyne and Wear	High Ford Estate, Flodden Road	436519	556678 Res	C3	285	285	285	285	285	285	Near Certain	1	L W	
2145	Tyne and Wear	Land at North Road	434606	548134 Res	C3	300	300	300	300	300	300	Near Certain	1	L W	
2148	Tyne and Wear	Land north of Burdon Lane	439668	556967 Res	C3	955	955	395	785	785	785	Reasonably Foreseeable	1	L W	
2155	Tyne and Wear	Phases 2-6, Chester Road	435769	555458 Res	C3	500	500	238	418	418	418	Near Certain	1	L W	
2156	Tyne and Wear	Philadelphia Complex	433660	552393 Res	C3	500	500	309	459	459	459	More than Likely		L W	
2161	Tyne and Wear	Ryhope and Cherry Knowle Hospital	439668	556967 Res	C3	800	800	533	773	773	773	Near Certain		L W	
2166	Tyne and Wear	Stadium Village, Sheepfolds North	439668	556967 Res	C3	265			265	265	265	Hypothetical		L W	
2172	Tyne and Wear	Teal Farm North	432426	555603 Res	C3	566	566		566	566	566	Near Certain	1	L W	
2179	Tyne and Wear	Willow Farm land to south, Ryhope (North)	441111	552143 Res	C3	450	450	335	450	450	450	More than Likely		L W	
2180	Tyne and Wear	International Advanced Manufacturing Park	433633	559032 Emp	B1 - Business	0	0	391875	391875	391875	391875	More than Likely		W	
2183	Richmondshire	Duchess of Kent Barracks	419054	497678 Res	C3	6	122		122	122	122	Reasonably Foreseeable		L C	
	Richmondshire	Former Colburn Pipeworks site (Phase 2)	420650	498040 Res	C3	6	201	-	171	171		Near Certain		L C	
	Richmondshire	Harley Hill	419957	497195 Res	C3	50		-	420	570		Reasonably Foreseeable		L C	
	Richmondshire	Land W of Scotton Road	418311	497098 Res	C3	7	126		126	-		Reasonably Foreseeable		L C	
	Richmondshire	Windfall Allowance Sites 3 & Under	418326	500334 Res	C3	9	195		194	194		Reasonably Foreseeable		С	
	Ryedale	Agri-Business Park and Business Technology Park, Eden House Road, Malton	480011	473790 Emp	mixed use	3750	3750	-	3750	3750		Near Certain		ı c	
	Ryedale	Malton Enterprise park	477227	470517 Emp	B1,B2,B8	5109		-	5109	5109		Near Certain		С	+
	Cumbria	Station Road, Appleby	368815	520860 Res	C3	0	101		101	101		More than Likely		l C	+
	Cumbria	Carleton Heights, Penrith	352961	530449 Res	C3	18		-	560	560		More than Likely		L C	+
	Cumbria	Croftlands East	328786	476254 Res	C3	16			330	330		More than Likely		W	
	Cumbria	Land at Southend Road/Castle Hill Road, Penrith	351617	529814 Res	C3	5	161	-	161	161		More than Likely		L C	
	Cumbria	Land Behind Cross Croft, Appleby	369215	519848 Res	C3	5	115		115	115		Reasonably Foreseeable		L C	
	Cumbria	Land off Carleton Road, Penrith	353267	529748 Res	C3	8	149		149			More than Likely		C	
	Cumbria	Land off Cross Croft/Back Lane, Appleby	369007	520122 Res	C3	5	142		142	-		More than Likely		C	+
	Cumbria	Land to west of Faraday Road, Kirby Stephen	377300	508591 Res	C3	5	128		128	128		Reasonably Foreseeable		L C	
	Cumbria	Nook Farm (Croftlands West)	328153	476293 Res	C3	16			330	330		Near Certain		L W	+
	Cumbria	Raiselands, Penrith	350723	531226 Res	C3	8	229		229			More than Likely		L C	+
	Cumbria	Salkeld Road/Fairhill, Penrith	351093	531838 Res	C3	11	250		250			Reasonably Foreseeable		L C	+
	Cumbria	Brough Main Street	366289	522193 EMP	NULL	15000	0	12000	13000			Reasonably Foreseeable		L C	+
	Cumbria	Cross Croft Industrial estate	369594	520099 EMP	NULL D1 Decisions	25600	7760	12000	23600	$\overline{}$		Reasonably Foreseeable		L C	+
	Cumbria	East of Burton Road	352657	489835 EMP	B1 - Business		7762		38812	46574		Reasonably Foreseeable		L W	+
	Cumbria	Gilwilly Industrial Estate Extension	350624	530574 EMP	B1 - Business		14179	-		$\overline{}$		Near certain		L C	+
	Cumbria	Kirkby Stephen Business Park	377113	509078 EMP	NULL D1 Duringer	33300	0.500	12000	25000	30000		Near certain		L C	+
	Cumbria	Land Adjacent to Bridge End Business Park	349449	481616 EMP	B1 - Business		9582		47912	57494		Reasonably Foreseeable		W	+
	Cumbria	Land adjacent to Croppers Paper Mill	350830	495961 EMP	B1 - Business		0.007	10000	10000	10000		Reasonably Foreseeable		L W	+
	Cumbria	Land adjacent to Mainline Business Park	351565	481635 EMP	B2 - General		9607		48037	57644		Reasonably Foreseeable		w	+
	Cumbria	Land at Elmsfield Park	351908	480068 EMP	B2 - General		0167	12000	25000	28400		Reasonably Foreseeable		w	+
	Cumbria	Land at Junction of A6 and B5035 (Eden 41)	350337	533776 EMP	B1 - Business		9167		45837	55004		More than Likely		L C	+
	Cumbria	Land at Lightburn Road	328004	477898 EMP	A1 - Retail, B		3779	-	18899	22678		Near certain		l W	+
	Cumbria	Land at Milnthorpe Road	351981	478748 EMP	B1 - Business		0	12000	23800	23800		Reasonably Foreseeable			+
	Cumbria	Land North of Gatebeck Lane, A Gatebeck	354614	485834 EMP	B2 - General		6434	12000	25000	29300		More than Likely		w	+
2461	Cumbria	Land North of Meadowbank Business Park	352244	494882 EMP	B1 - Business	51500	6131	14712	30651	36782	42913	Reasonably Foreseeable	1	W	



ArupID	Author	SiteNm	X Y	Dev	Land Use	NetArea	TotDwell	2029	2039	2044	2051	Uncertainty	Big Enough	Core Wide	TA
2462	Cumbria	Land on Sandside Road and Quarry Lane, Storth	348082	481017 EMP	NULL	30108	0	12000	25000	28108	28108	Reasonably Foreseeable		1 W	
2465	Cumbria	Land Southwest of Mile Lane	350262	528809 EMP	B1 - Business	39000	2000	12000	25000	30000	35000	More than Likely		1 C	
2468	Cumbria	Old Tebay Depot	361598	504966 EMP	NULL	14200	0	12000	12200	12200	12200	Reasonably Foreseeable		1 C	
2469	Cumbria	Scroggs Wood	350962	490566 EMP	B1 - Business	112000	13333	31998	66663	79996	93329	Reasonably Foreseeable		1 W	
2471	Cumbria	Skelgillside Workshops	372516	546248 EMP	NULL	13100	0	11100	11100	11100	11100	Reasonably Foreseeable		1 C	
2472	Cumbria	Skirsgill	351466	528869 EMP	NULL	32900	0	12000	25000	30000	30900	Reasonably Foreseeable		1 C	
2474	Cumbria	The Old Creamery	369521	519971 EMP	NULL	19800	0	12000	17800	17800	17800	Reasonably Foreseeable		1 C	
2479	Cumbria	Former Corus Steel Works	298769	527179 R	c3	324	0	324	324	324	324	Near Certain		1 W	
2487	Cumbria	Land at Oldside, Wokington	299487	529839 NR	B2	10	0	41440	41440	41440	41440	Reasonably Foreseeable		1 W	
2488	Cumbria	Land North of Branthwaite Road, Lillyhall	302580	525558 NR	B2	18	0	70040	70040	70040		Reasonably Foreseeable		1 W	
	Cumbria	Land north of the Port of Workington	299304	530030 NR	B2	9	0	37360	37360	37360	37360	Reasonably Foreseeable	_	1 W	
	Cumbria	Land off Hallwood Road, Lillyhall	301441	525129 NR	B8	10	0	47850	47850	47850		Reasonably Foreseeable		1 W	
	Cumbria	Land off Joesph Noble Road, Lillyhall	302638	525273 NR	B2	2	0	9520	9520	9520		Reasonably Foreseeable		1 W	+
2493	Cumbria	Land off Jubilee Road, Lillyhall	301718	525536 NR	B8	10	0	49600	49600	49600		Reasonably Foreseeable		1 W	+
	Cumbria	Whitecroft, Maryport	303045	535300 R	ß	300	300	265	265	265		Reasonably Foreseeable		1 W	+
2525	Cumbria	Land at Edgehill Park (part former Marchon Car Park), Whitehaven	297089	515672 Resident		335	335	335	335	335		More than Likely		1 W	+
	Cumbria	North of former Marchon Site, Whitehaven	296576	516096 Resident		532	532	532	532	532		Reasonably Foreseeable		1 W	+-
	Cumbria	Red Lonning and Harras Moor Stage 3, Whitehaven	298254	517948 Resident		370	370	370	370	370		Reasonably Foreseeable		1 W	+-
	Cumbria	Brunthill	338013	559841 Emp	B1	370000	370000	370000	370000	370000		Reasonably Foreseeable		1 W	+-
	Cumbria	Kingmoor Park Harker Estate	339012	560812 Res	c3	311	311	311	311	311		Reasonably Foreseeable		1 W	+
		Land at Newhouse Farm, south-east of Orton Road	336868	555483 Res	3	539	539	539	539	539		More than Likely		1 W	+
	Cumbria	,								$\overline{}$		-		1 W	+
2563	Cumbria Cumbria	Land between Carleton Road and Cumwhinton Road	342750 343587	553339 Res 553778 Res	ය	400 347	400 347	400 347	400 347	400 347		Near certain Near certain		1 W	+
		Land north of Carleton Clinic, east of Cumwhinton Drive	$\overline{}$							$\overline{}$				_	+
	Cumbria	Land off Windsor Way	340300	558476 Res	3	415	415	415	415	415		Near certain		1 W	+
	Cumbria	Land south of Carlisle Road	352335	560724 Res	ß	260	260	260	260	260		Near certain		1 W	+
	Cumbria	Land to the south east of junction 44	339556	559604 Res	c3	290	290	290	290	290		Near certain		1 W	+
	Cumbria	South West Morton	337496	553701 Emp	B1	80000	80000	80000	80000	80000		Reasonably Foreseeable		1 W	—
	Cumbria	St Cuthbert's Garden Village	340889	551554 Res	3	10325	10325	3500	8500	10325		Reasonably Foreseeable		1 W	+
2587	Hambleton	NM5A & D - North Northallerton Area, West of Northallerton - Middlesbrou	442091	491502 Res	c3	472	472	460	472	472		More than Likely		1 W	
	Hambleton	NM5C - North Northallerton Area, East of Stokesley Road, Northallerton	442091	491502 Res	c3	645	645	235	645	645		Reasonably Foreseeable		1 W	
	Hambleton	TM2A - South West Thirsk Area, West of Topcliffe Road, Sowerby	442091	491502 Res	c3	489	489	300	489	489	489	Near Certain		1 W	
	Hambleton	Winton Road, Northallerton	442091	491502 Res	c3	435	435	35	435	435		Reasonably Foreseeable		1 W	
2599	Richmondshire	Breckenbrough – Catterick SFA	420044	496662 Res	C3	170	170	170	170	170	170	More than Likely		1 C	
	Richmondshire	Brough St Giles, Catterick	421340	498519 Res	C3	289	289	289	289	289		More than Likely		1 C	
	Richmondshire	Chartermark Way, Colburn	420154	497807 Res	C3	0	_	0	0	0		More than Likely		1 C	
	Richmondshire	Colburndale Phase 2	420539	498125 Res	C3	250	250	250	250	250		More than Likely		1 C	
2604	Richmondshire	Cookson Way, Brough With St Giles	421181	498693 Res	C3	145		145	145	145	145	More than Likely		1 C	
2605	Richmondshire	Cookson Way, Brough with St Giles - Site 128	421340	498519 Res	C3	289	289	289	289	289	289	More than Likely		1 C	
2606	Richmondshire	Gatherley Road	422590	500555 Res	C3	250	250	250	250	250	250	More than Likely		1 C	
	Richmondshire	Land At Arras Lines And Sour Beck	420047	497846 Res	C3	130	130	130	130	130	130	Near Certain		1 C	
	Richmondshire	Land At Hill Top Farm, Leyburn	410819	490948 Res	C3	127	127	127	127	127	127	More than Likely		1 C	
2612	Richmondshire	Land to North west of Brewary House, Byng Road, Catterick Garrison	418978	498014 Res	C3	125		125	125	125	125	More than Likely		1 C	
2613	Richmondshire	Le Cateau – Catterick SFA	418937	497441 Res	C3	170	170	150	170	170	170	More than Likely		1 C	
	Richmondshire	North of Caxton Close	422497	500452 Res	C3	124	124	124	124	124		More than Likely		1 C	
	Richmondshire	Scotch Corner - Designer Outlet Centre	421690	505299 Emp	A1	23258		23258	23258	23258		More than Likely		1 C	\top
	Richmondshire	Scotch Corner Designer Village Outlet – Phase 3 – Pre-App details Awaited	421690	505299 Emp	A1	5000	5000	5000	5000	5000		Reasonably Foreseeable		1 C	\top
	Richmondshire	Scotch Corner Interchange – Triangular area of land Adjacent VOSA weighbr	$\overline{}$	505299 Emp	B2	0	0	0	0	0		More than Likely		1 C	\top
	Richmondshire	Scotch Corner Phase 2 - Proposed Garden Centre	421690	505299 Emp	A1	10761	10761	10761	10761	10761		More than Likely		1 C	+
	Richmondshire	Scotch Corner Services – Redevelopment incl Drive Thru	421690	505299 Emp	A1	5000	5000	5000	5000	5000		More than Likely		1 C	+-
	Richmondshire	Woodlands Ave, Colburn – Drive Thru Coffee Shop and Class A Units	420421	498151 Emp	A1	5000	5000	5000	5000	5000		More than Likely		1 C	+



A.2 Development Trip Generation

Table 11-2: Development Trip Generation

ID	Area	Site Name	Land Use	Net Area GFA m ²	Total Units	O AM	D AM	O PM	D PM	O IP	D IP
5	Tees Valley	Faverdale Industrial Area (Argon)	B2/B8	6305	0	10	25	29	6	13	12
7	Tees Valley	Yarm Road Industrial Area	B2/B8	59295	0	40	171	152	61	96	91
9	Tees Valley	Yarm Road North (Dean and Chapter)	B2/B8	12700 0	0	222	741	725	329	365	347
11	Tees Valley	Yarm Road North (Dean and Chapter)	A3	2500	0	19	22	17	27	15	15
15	Tees Valley	Central Park	C3	0	359	136	36	80	136	58	62
17	Tees Valley	Central Park (Local Centre)	A1	1700	0	87	623	517	104	241	229
19	Tees Valley	Lingfield Point Phase 1	C3	0	273	608	166	388	660	271	293
20	Tees Valley	Lingfield Point (ex Phase 1)	C3	0	331	135	36	86	147	60	65
21	Tees Valley	Lingfield Point	B1	13666	0	103	927	770	144	352	334
22	Tees Valley	Lingfield Point	A1	2700	0	0	0	10	29	7	7
39	Tees Valley	West Park	C3	0	213	524	192	287	482	221	238
63	Tees Valley	Land off Sadberge Road, Middleton St George, Darlington	C3	0	234	148	35	48	141	55	60



ID	Area	Site Name	Land Use	Net Area GFA m ²	Total Units	O AM	D AM	O PM	D PM	O IP	D IP
67	Tees Valley	High Stell/Gendon Gardens, Middleton St.George	C3	0	198	110	55	55	102	48	52
80	Tees Valley	School Aycliffe West	C3	0	101	58	9	23	44	20	22
87	Tees Valley	Land Off Yarm Road South of Railway Line, MSG (High Scrogg Farm)	C3	0	330	43	6	16	42	20	21
630	Tees Valley	Ingenium Parc	B2/B8	10000 0	0	265	459	433	208	247	235
651	Durham	Black & Decker (Durham Gate)	C3	507	507	70	9	25	68	32	34
653	Durham	Bracks Farm	C3	300	300	123	47	71	116	53	57
654	Durham	British Oxygen Co Vigo Lane	C3	233	233	87	33	42	76	35	38
657	Durham	Dale Farm Land at Dale Road	C3	340	340	199	35	67	118	62	67
658	Durham	Electrolux	C3	425	425	212	105	140	198	97	104
662	Durham	Former Cemex Site	C3	100	100	14	2	5	13	6	7
665	Durham	Former Riding Carpets Site	C3	213	213	29	4	11	29	13	14
668	Durham	High Riggs (land adj Darlington Road)	C3	107	107	54	20	37	53	24	26
672	Durham	Land at and to west of k hartwall ltd butchers race green lane industrial estate	C3	108	108	80	18	29	62	28	30



ID	Area	Site Name	Land Use	Net Area GFA m ²	Total Units	O AM	D AM	O PM	D PM	O IP	D IP
673	Durham	Land at Former Catkin Way	C3	101	101	65	23	26	47	24	26
674	Durham	Land at Spout Lane	C3	278	278	38	5	14	37	18	19
675	Durham	Land At The East Of Deerbolt HMYOI And North Of Bowes Road	C3	162	162	67	24	32	51	26	28
677	Durham	Land At The Former Sedgefield Community Hospital Salters Lane	C3	100	100	40	15	22	35	17	18
678	Durham	Land At The North Of Woodhouses Farm And South Of Etherley Moor Wigdan Walls Road	C3	234	234	152	55	60	101	55	59
681	Durham	Land North of Durham Road	C3	300	300	201	45	72	156	70	76
682	Durham	Land north of West Chilton Terrace	C3	135	135	131	242	204	105	101	109
686	Durham	Land South of Douglas Crescent	C3	500	500	272	84	152	262	114	123
688	Durham	Land To The East Of Clare Lodge And Durham Road	C3	194	194	89	23	40	76	34	36
691	Durham	Land To The North Of Etherley Moor	C3	150	150	96	35	38	64	35	37
692	Durham	Land To The North Of Middridge Road	C3	256	256	113	43	63	107	48	52
694	Durham	Land To The South Of 100 To 106 Dean Road	C3	161	161	72	27	40	68	31	33



ID	Area	Site Name	Land Use	Net Area GFA m ²	Total Units	O AM	D AM	O PM	D PM	O IP	D IP
695	Durham	Land To The South Of Eden Drive	C3	277	277	114	42	61	105	48	51
711	Durham	Site O - Cobblers Hall	C3	175	175	24	3	9	23	11	12
715	Durham	Thorn Lighting	C3	403	403	56	7	20	54	25	27
716	Durham	Whitworth Park (All Phases)	C3	726	726	344	75	219	219	127	137
2186	Richmond shire	Former Colburn Pipeworks site (Phase 2)	C3	6	201	225	262	304	272	158	170
2217	Ryedale	Agri-Business Park and Business Technology Park, Eden House Road, Malton	Mixed use	3750	3750	158	227	285	169	152	144
2221	Ryedale	Malton Enterprise park	Mixed use	5109	5109	22	87	62	13	33	32
2225	Cumbria	Station Road, Appleby	C3	100	100	36	5	13	34	16	18
2238	Cumbria	Carleton Heights, Penrith	C3	18	560	39	116	111	53	48	51
2319	Cumbria	Land at Southend Road/Castle Hill Road, Penrith	C3	5	161	149	225	421	392	179	191
2342	Cumbria	Land off Carleton Road, Penrith	C3	8	149	65	19	36	59	27	29
2345	Cumbria	Land off Cross Croft/Back Lane, Appleby	C3	5	142	63	24	35	59	27	29
2397	Cumbria	Raiselands, Penrith	C3	8	229	108	35	55	101	45	48
2447	Cumbria	Gilwilly Industrial Estate Extension	Mixed use	11910 0	14179	0	6	4	5	3	3



ID	Area	Site Name	Land Use	Net Area GFA m ²	Total Units	O AM	D AM	O PM	D PM	O IP	D IP
2451	Cumbria	Kirkby Stephen Business Park	Mixed use	33300	0	31	136	123	50	77	74
2457	Cumbria	Land at junction of A6 and B5035 (Eden 41)	Mixed use	77000	9167	64	81	80	20	45	43
2465	Cumbria	Land Southwest of Mile Lane	Mixed use	39000	2000	8	48	43	6	19	18
2599	Richmond shire	Breckenbrough – Catterick SFA	C3	170	170	58	20	33	53	25	26
2600	Richmond shire	Brough St Giles, Catterick	C3	289	289	86	37	31	78	35	37
2601	Richmond shire	Chartermark Way, Colburn	C3	0	0	0	0	0	0	0	0
2602	Richmond shire	Colburndale Phase 2	C3	250	250	225	262	304	272	158	170
2604	Richmond shire	Cookson Way, Brough with St Giles	C3	145	145	54	23	20	49	22	23
2605	Richmond shire	Cookson Way, Brough with St Giles - Site 128	C3	289	289	86	37	31	78	35	37
2606	Richmond shire	Gatherley Road	C3	250	250	143	43	48	125	53	57
2610	Richmond shire	Land At Arras Lines and Sour Beck	C3	130	130	52	17	0	0	10	11
2611	Richmond shire	Land At Hill Top Farm, Leyburn	С3	127	127	54	18	20	45	20	22
2612	Richmond shire	Land to North west of Brewary House, Byng Road, Catterick Garrison	C3	125	125	19	3	7	19	9	10
2613	Richmond shire	Le Cateau – Catterick SFA	С3	170	170	64	22	36	58	27	29



ID	Area	Site Name	Land Use	Net Area GFA m ²	Total Units	O AM	D AM	O PM	D PM	O IP	D IP
2614	Richmond shire	North of Caxton Close	C3	124	124	19	3	7	19	9	9
2615	Richmond shire	Scotch Corner - Designer Outlet Centre	A1	23258	23258	12	21	268	459	138	131
2617	Richmond shire	Scotch Corner Interchange – Triangular area of land Adjacent VOSA weighbridge	B2	0	0	0	0	0	0	0	0
2618	Richmond shire	Scotch Corner Phase 2 - Proposed Garden Centre	A1	10761	10761	1	52	295	193	98	93
2619	Richmond shire	Scotch Corner Services - Redevelopment incl Drive Thru	A1	5000	5000	49	49	51	49	36	34
2622	Richmond shire	Woodlands Ave, Colburn – Drive Thru Coffee Shop and Class A Units	A1	5000	5000	18	21	30	29	18	17

A66 Northern Trans-Pennine Project 3.8 Combined Modelling and Appraisal Report Appendix D - Stage 3 Transport Forecast Package



B Sectored VDM Impact



Reference C	ase - 2029 -	·UC1													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	11628	1277	906	1078	69	88	17	153	54	24	86	77	5490	308	21255
2	1265 941	8555 1142	1114 2066	1417 511	96 185	140	18 31	90	51	29 89	25 119	33	1231	511 766	14577 8947
3 4	1100	1446	469	7796	635	127 663	19	272 179	114 55	12	26	66 23	2518 1182	1613	15216
5	70	93	190	690	15266	8894	456	1386	328	171	171	109	1249	2171	31245
6	88	145	129	681	9143	49304	5623	6088	2198	1072	509	475	3831	694	79980
7	19	18	33	19	489	5356	11712	2800	688	382	147	175	900	69	22807
8	172	101	313	189	1392	5967	2761	16240	3907	1628	704	559	3974	184	38092
9	50 23	46 26	103 86	52 12	304	1914 1121	629 399	3378 1464	14473	5296	476	897 1547	3678 3590	98	31394
10 11	110	28	136	25	175 153	514	173	636	5088 493	15252 330	278 1824	388	1616	52 70	29114 6497
12	78	31	63	22	111	477	186	555	1100	1912	382	5201	7818	46	17982
13	7178	1553	3428	1740	1543	4910	1179	5161	3899	3958	2383	8792	7427433	8742	7481897
14	527	706	1304	2153	3732	1173	102	309	170	73	134	87	9111	683000	702582
Total	23250	15168	10342	16386	33295	80648	23305	38711	32618	30226	7263	18430	7473621	698322	8501585
DM - 2029 -	UC1														
-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	11168	1352	944	1171	75	96	19	161	58	26	90	84	5730	326	21300
2	1347	8142	1173	1496	105	155	19	97	55	30	27	36	1327	538	14546
3 4	977 1203	1179 1521	1841 497	534 7243	193 674	136 726	33 21	283 194	119 61	93 13	122 28	69 25	2646 1307	791 1695	9014 15207
5	76	101	199	729	14778	9024	512	1481	357	191	185	119	1352	2266	31369
6	98	162	140	755	9526	47313	5623	6394	2447	1198	584	524	4238	778	79783
7	20	20	36	21	563	5398	11249	2806	759	433	167	194	995	78	22740
8	186	110	333	206	1489	6140	2702	15346	3976	1765	742	609	4306	200	38110
9	54	50	110 91	58	329	2098	675 448	3452	13682 4958	5199	481	973	4074 3947	107 57	31341
10 11	24 117	27 30	142	13 27	197 163	1257 555	184	1600 655	4938	14507 345	298 1647	1632 397	1711	74	29058 6526
12	85	34	66	24	121	514	199	590	1134	1952	386	4755	8160	49	18069
13	7608	1687	3686	1956	1686	5402	1296	3600	4232	4290	2563	9307	7432244	9555	7491114
14	571	737	1385	2261	3965	1311	116	340	189	81	144	96	9991	681990	703176
Total	23533	15152	10643	16494	33864	80126	23096	38998	32505	30123	7466	18819	7482030	698505	8511353
Difference															
Difference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-460	75	38	93	5	8	1	9	4	2	3	7	240	19	45
1 2	-460 81	75 -414	38 59	93 79	5 8	8 15	1 2	9 7	4	2 2	3 2	7 3	240 96	19 27	45 -31
1 2 3	-460 81 36	75 -414 37	38 59 -225	93 79 22	5 8 7	8 15 9	1 2 2	9 7 11	4 4 5	2 2 4	3 2 4	7 3 3	240 96 128	19 27 25	45 -31 67
1 2 3 4	-460 81	75 -414	38 59	93 79	5 8	8 15	1 2	9 7	4	2 2	3 2	7 3	240 96	19 27	45 -31
1 2 3	-460 81 36 102	75 -414 37 75	38 59 -225 27	93 79 22 -553	5 8 7 39	8 15 9 63	1 2 2 2	9 7 11 15	4 4 5 6	2 2 4 1	3 2 4 2	7 3 3 2	240 96 128 125	19 27 25 83	45 -31 67 -9
1 2 3 4 5 6	-460 81 36 102 6	75 -414 37 75 8 17	38 59 -225 27 8	93 79 22 -553 39	5 8 7 39 -488	8 15 9 63 130	1 2 2 2 2 56	9 7 11 15 94	4 4 5 6 29	2 2 4 1 20	3 2 4 2 14	7 3 3 2 10	240 96 128 125 103	19 27 25 83 95 84 9	45 -31 67 -9 124
1 2 3 4 5 6 7 8	-460 81 36 102 6 9 2	75 -414 37 75 8 17 2	38 59 -225 27 8 11 3	93 79 22 -553 39 74 2	5 8 7 39 -488 383 74 97	8 15 9 63 130 -1991 43 173	1 2 2 2 36 0 -463 -59	9 7 11 15 94 306 6	4 4 5 6 29 249 71 68	2 4 1 20 127 51	3 2 4 2 14 75 21 38	7 3 3 2 10 49 18 50	240 96 128 125 103 407 95 332	19 27 25 83 95 84 9	45 -31 67 -9 124 -198 -66 19
1 2 3 4 5 6 7 8	-460 81 36 102 6 9 2 14	75 -414 37 75 8 17 2 9	38 59 -225 27 8 11 3 20	93 79 22 -553 39 74 2 17	5 8 7 39 -488 383 74 97 25	8 15 9 63 130 -1991 43 173 183	1 2 2 2 56 0 -463 -59	9 7 11 15 94 306 6 -895 74	4 4 5 6 29 249 71 68 -792	2 4 1 20 127 51 138 -96	3 2 4 2 14 75 21 38 6	7 3 3 2 10 49 18 50 75	240 96 128 125 103 407 95 332 396	19 27 25 83 95 84 9	45 -31 67 -9 124 -198 -66 19
1 2 3 4 5 6 7 8 9	-460 81 36 102 6 9 2 14 4	75 -414 37 75 8 17 2 9	38 59 -225 27 8 11 3 20 7	93 79 22 -553 39 74 2 17 5	5 8 7 39 -488 383 74 97 25	8 15 9 63 130 -1991 43 173 183 136	1 2 2 2 56 0 -463 -59 47	9 7 11 15 94 306 6 -895 74 136	4 4 5 6 29 249 71 68 -792	2 4 1 20 127 51 138 -96	3 2 4 2 14 75 21 38 6	7 3 3 2 10 49 18 50 75 85	240 96 128 125 103 407 95 332 396 357	19 27 25 83 95 84 9 17 9	45 -31 67 -9 124 -198 -66 19 -53
1 2 3 4 5 6 7 8	-460 81 36 102 6 9 2 14	75 -414 37 75 8 17 2 9	38 59 -225 27 8 11 3 20	93 79 22 -553 39 74 2 17	5 8 7 39 -488 383 74 97 25	8 15 9 63 130 -1991 43 173 183	1 2 2 2 56 0 -463 -59	9 7 11 15 94 306 6 -895 74	4 4 5 6 29 249 71 68 -792	2 4 1 20 127 51 138 -96	3 2 4 2 14 75 21 38 6	7 3 3 2 10 49 18 50 75	240 96 128 125 103 407 95 332 396	19 27 25 83 95 84 9	45 -31 67 -9 124 -198 -66 19
1 2 3 4 5 6 7 8 9	-460 81 36 102 6 9 2 14 4 2 6	75 -414 37 75 8 17 2 9 3	38 59 -225 27 8 11 3 20 7	93 79 22 -553 39 74 2 17 5	5 8 7 39 -488 383 74 97 25 22	8 15 9 63 130 -1991 43 173 183 136 42	1 2 2 2 2 36 0 -463 -59 47 49	9 7 11 15 94 306 6 -895 74 136	4 4 5 6 29 249 71 68 -792 -130	2 2 4 1 20 127 51 138 -96 -745	3 2 4 2 14 75 21 38 6 20	7 3 2 10 49 18 50 75 85	240 96 128 125 103 407 95 332 396 357 95	19 27 25 83 95 84 9 17 9	45 -31 67 -9 124 -198 -66 19 -53 -56 29
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1 2 3 4 5 6 7 8 9 10 11 12 13	-460 81 36 102 6 9 2 14 4 2 6 7	75 -414 37 75 8 17 2 9 3 2 2 2	38 59 -225 27 8 11 3 20 7 5 6 3	93 79 22 -553 39 74 2 17 5 1 2 2	5 8 7 39 -488 383 74 97 25 22 10 10	8 15 9 63 130 -1991 43 173 183 136 42 38 492	1 2 2 2 56 0 -463 -59 47 49 11 13	9 7 11 15 94 306 6 -895 74 136 19 34	4 4 5 6 29 249 71 68 -792 -130 -14 34	2 2 4 1 20 127 51 138 -96 -745 16 40 332	3 2 4 2 14 75 21 38 6 20 -177 4 180	7 3 3 2 10 49 18 50 75 85 9	240 96 128 125 103 407 95 332 396 357 95 343 4811	19 27 25 83 95 84 9 17 9 5 4 3	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86
1 2 3 4 5 6 7 8 9 10 11 12 13	-460 81 36 102 6 9 2 14 4 2 6 7 430 44 283	75 -414 37 75 8 17 2 9 3 2 2 2 2	38 59 -225 27 8 11 3 20 7 5 6 3 259 81	93 79 22 -553 39 74 2 17 5 1 2 2 217 108	5 8 7 39 -488 383 74 97 25 22 10 10 144 232	8 15 9 63 130 -1991 43 173 183 42 38 492 138	1 2 2 2 56 0 -463 -59 47 49 11 13 117	9 7 11 15 94 306 6 -895 74 136 19 34	4 4 5 6 29 249 71 68 -792 -130 -14 34 333	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8	3 2 4 2 14 75 21 38 6 20 -177 4 180	7 3 3 2 10 49 18 50 75 85 9 -447 516	240 96 128 125 103 407 95 332 396 357 95 343 4811 880	19 27 25 83 95 84 9 17 9 5 4 3 814	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-460 81 36 102 6 9 2 14 4 2 6 7 430 44 283	75 -414 37 75 8 17 2 9 3 2 2 2 2	38 59 -225 27 8 11 3 20 7 5 6 3 259 81	93 79 22 -553 39 74 2 17 5 1 2 2 217 108	5 8 7 39 -488 383 74 97 25 22 10 10 144 232	8 15 9 63 130 -1991 43 173 183 42 38 492 138	1 2 2 2 56 0 -463 -59 47 49 11 13 117	9 7 11 15 94 306 6 -895 74 136 19 34	4 4 5 6 29 249 71 68 -792 -130 -14 34 333	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8	3 2 4 2 14 75 21 38 6 20 -177 4 180	7 3 3 2 10 49 18 50 75 85 9 -447 516	240 96 128 125 103 407 95 332 396 357 95 343 4811 880	19 27 25 83 95 84 9 17 9 5 4 3 814	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-460 81 36 102 6 9 2 14 4 2 6 7 430 44 283	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16	38 59 -225 27 8 11 3 20 7 5 6 6 3 259 81 301	93 79 22 -553 39 74 2 17 5 1 2 2 2217 108 108	5 8 7 39 -488 383 74 97 25 22 10 10 10 144 232 569	8 15 9 63 130 -1991 43 173 183 136 42 138 452 138 -522	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287	4 4 5 6 29 249 71 130 -14 333 19 -113	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203	7 3 3 2 10 49 18 50 75 85 9 -447 516 9 389	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408	19 27 25 83 395 84 9 9 17 9 5 4 3 814 -1010 183	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac	-460 81 36 102 6 9 2 14 4 2 6 7 7 430 283	75 -414 37 75 8 17 2 9 3 2 2 2 2 134 30 -16	38 59 -225 27 8 11 3 20 7 5 6 3 259 81 301	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108	5 8 7 39 488 383 74 97 25 22 10 10 10 144 232 569	8 15 9 63 130 -1991 43 173 183 136 42 38 492 138 -522	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287	4 4 5 6 29 249 71 68 -792 -130 -14 34 33 19 -113	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203	7 3 3 2 10 49 18 30 75 85 9 -447 516 9 389	240 96 128 125 103 407 95 336 396 357 95 343 4811 880 8408	19 27 25 83 95 84 9 17 9 5 4 3 814 -1010 183	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-460 81 36 102 6 6 9 2 14 4 2 6 7 430 44 283	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16	38 59 -225 27 8 11 3 20 7 5 6 3 259 8 3 259 301	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108	5 8 7 39 488 383 74 97 25 22 10 10 10 144 232 569	8 15 9 63 130 -1991 43 173 185 42 38 492 138 -522	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209	9 7 11 13 94 306 6 -895 74 136 19 34 439 31 287	4 4 5 6 29 249 71 68 -792 -130 -14 34 333 19 -113	2 2 4 1 20 127 51 138 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203	7 3 3 2 10 49 18 50 75 85 9 -447 316 9 389	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408	19 27 25 83 95 84 9 17 9 5 4 3 814 -1010 183	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 9768 Total 1.00 1.00
1 2 3 4 5 6 6 7 8 9 100 111 12 13 14 Total Growth Fact	-460 81 36 102 6 9 2 14 4 2 6 7 430 44 283 tor 1 0.96 1.06 1.04 1.09	75 -414 37 75 8 17 2 9 3 2 2 134 30 -16	38 59 -225 27 8 11 3 20 7 5 6 3 259 81 301	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108	5 8 7 39 488 383 74 97 25 10 10 144 232 569 5 1.08 1.08 1.04	8 15 9 63 130 -1991 43 173 183 42 38 492 138 -522	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209	9 7 11 13 94 306 6 -895 74 136 19 34 439 31 287	4 4 5 6 6 29 249 71 68 -792 -130 -14 34 333 19 -113	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203	7 3 3 2 10 49 18 50 75 85 9 -447 516 9 389	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408 13 1.04 1.05 1.05 1.11	19 27 25 83 95 84 9 17 9 5 4 3 814 -1010 183 14 1.06 1.05 1.03 1.05	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768 Total 1.000 1.010 1.000
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-460 81 36 102 6 6 9 2 14 4 2 6 7 430 44 283	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16	38 59 -225 27 8 11 3 20 7 5 6 3 259 8 3 259 301	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108	5 8 7 39 488 383 74 97 25 22 10 10 10 144 232 569	8 15 9 63 130 -1991 43 173 185 42 38 492 138 -522	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209	9 7 11 13 94 306 6 -895 74 136 19 34 439 31 287	4 4 5 6 29 249 71 68 -792 -130 -14 34 333 19 -113	2 2 4 1 20 127 51 138 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203	7 3 3 2 10 49 18 50 75 85 9 -447 316 9 389	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408	19 27 25 83 95 84 9 17 9 5 4 3 814 -1010 183	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 9768 Total 1.00 1.00
1 2 3 4 5 6 6 7 8 9 100 111 122 13 14 Total Growth Fact	-460 81 36 102 6 9 2 14 4 2 6 6 7 430 44 283 tor 1 0.96 1.06 1.09 1.09	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16 2 1.06 0.95 1.03 1.05 1.08	38 59 -225 27 8 11 3 20 7 5 6 3 259 81 301	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108	5 8 7 39 -488 383 74 97 25 22 10 10 144 232 569 5 1.08 1.08 1.04 0.97	8 15 9 63 130 -1991 43 173 183 136 42 138 492 138 -522 6 1.09 1.11 1.00 1.01	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209	9 7 11 15 94 306 6 -895 74 136 19 31 287	4 4 5 6 29 249 71 68 7-792 -130 -14 333 19 -113	2 2 4 1 1 20 127 51 138 -96 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203	7 3 3 2 2 10 49 18 50 75 85 9 -447 516 9 389 1.09 1.08 1.04 1.11	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408 13 1.04 1.08 1.05 1.11 1.08	19 27 25 83 395 84 9 17 9 5 4 3 814 -1010 183 1.05 1.05 1.03 1.05 1.04	45 -31 67 -9 124 -198 -66 19 -53 -56 29 9216 594 9768 Total 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total	-460 81 36 102 6 9 2 14 4 2 6 7 430 44 283 tor 1 0.96 1.06 1.04 1.09 1.11	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16	38 59 -225 27 8 11 3 20 7 5 6 6 3 259 81 301 3 1.04 1.05 0.89 1.05 1.04 1.05 0.89 1.04 1.05 1.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108	5 8 7 39 -488 383 74 97 25 22 10 10 10 42 232 569 5 1.08 1.08 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04	8 15 9 63 130 -1991 43 173 183 136 42 38 492 138 -522 6 1.09 1.11 1.07 1.10 1.01 0.96	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287	4 4 5 6 29 249 71 68 -792 -130 -14 333 19 -113	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 203 203	7 3 3 2 10 49 18 50 75 85 9 -447 516 9 389 12 1.09 1.08 1.04 1.11 1.09 1.10	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408	19 27 25 83 395 84 9 9 17 9 5 4 4 33 814 -1010 183 1.06 1.05 1.03 1.05 1.04 1.12	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 100 111 12 13 14 Total Growth Fact	-460 81 36 102 5 9 2 14 4 2 5 7 430 44 283 tor 1 0.96 1.06 1.09 1.09 1.11 1.10 1.08 1.08	75 -414 37 75 8 17 2 9 3 2 2 134 30 -16 2 1.06 0.95 1.03 1.05 1.08 1.12 1.11 1.09 1.07	38 59 -225 27 8 11 3 20 7 5 6 3 259 81 301 3 1.04 1.05 0.89 1.06 1.06	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108 109 1.06 1.04 0.93 1.06 1.11 1.10 1.09 1.10	5 8 7 39 -488 383 74 97 25 22 10 10 144 232 569 5 1.08 1.08 1.04 1.06 0.97 1.04	8 15 9 63 130 -1991 43 173 183 136 42 138 -522 6 1.09 1.11 1.07 1.01 0.96 1.03 1.10	1 2 2 2 56 0 -463 -59 11 13 117 14 -209 7 1.09 1.09 1.09 1.09 1.12 1.00 0.98 1.07	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287 8 1.06 1.07 1.04 1.09 1.07 1.05 1.00 0.94 1.02	4 4 5 6 29 249 71 68 792 -130 -14 333 19 -113 9 1.07 1.07 1.07 1.01 1.11 1.09 1.11 1.10 1.02 0.95	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103 10 1.07 1.07 1.07 1.09 1.11 1.12 1.12 1.13 0.98	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203 11 1.04 1.06 1.03 1.09 1.08 1.15 1.14 1.05	7 3 3 2 2 10 49 18 50 75 85 9 -447 516 9 389 1.08 1.08 1.11 1.09 1.10 1.11 1.09 1.10	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408 13 1.04 1.08 1.05 1.11 1.08 1.08	19 27 25 83 395 84 9 17 9 5 4 3 814 -1010 183 1.05 1.05 1.05 1.04 1.12 1.14 1.09 1.09 1.09	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact Growth Fact	-460 81 36 102 6 9 2 14 4 2 6 6 7 430 44 283 tor 1 0.96 1.06 1.09 1.11 1.10 1.08 1.08 1.07	75 -414 37 75 8 17 2 9 3 2 2 2 2 134 30 -16 2 1.06 0.95 1.03 1.05 1.08 1.12 1.11 1.09 1.07	38 59 -225 27 8 11 3 20 7 5 6 6 3 259 81 301 3 1.04 1.05 0.89 1.06 1.09 1.09 1.09	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108 109 1.06 1.04 0.93 1.06 1.11 1.10 1.09	5 8 7 39 -488 383 74 97 25 22 10 10 10 144 232 569 5 1.08 1.08 1.04 1.05 1.04 1.15 1.08 1.10 1.09 1.00 1.00 1.00 1.00 1.00 1.00	8 15 9 63 130 -1991 43 173 183 136 42 138 492 138 -522 6 1.09 1.11 1.07 1.01 0.96 1.01 1.03	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209 7 1.09 1.09 1.06 1.09 1.12 1.00 0.96 0.96	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287 8 1.06 1.07 1.04 1.09 1.07 1.05 1.00 0.94 1.02 1.09	4 4 5 6 29 249 71 68 -792 -130 -14 343 19 -113 -113 -113 -111 1.07 1.07 1.07 1.11 1.09 1.11 1.09 5 0.97	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103 10 1.07 1.07 1.04 1.12 1.13 1.08 0.98 0.95	3 2 4 2 14 75 21 38 6 20 -177 4 180 203 203 211 1.04 1.06 1.03 1.09 1.08 1.15 1.14 1.01 1.07	7 3 3 2 10 49 18 50 75 85 9 -447 516 9 389 12 1.09 1.08 1.04 1.11 1.09 1.10 1.11 1.09 1.08 1.06	240 96 128 125 103 407 95 332 396 397 95 343 4811 880 8408 13 1.04 1.08 1.05 1.11 1.08 1.11 1.08 1.11 1.08 1.11 1.08	19 27 25 83 395 84 9 9 17 9 5 4 4 33 814 -1010 183 1.06 1.05 1.03 1.05 1.04 1.12 1.14 1.09 1.09 1.10	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 594 9768 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 2 2 3 4 4 5 6 6 7 8 9 10 11 1 2 1 3 1 4 1 5 6 6 7 7 8 8 9 10 11	-460 81 36 102 6 9 2 14 4 2 6 7 430 44 283 tor 1 0.96 1.04 1.09 1.09 1.11 1.10 1.08 1.08 1.08	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16 2 1.06 0.95 1.03 1.05 1.08 1.12 1.11 1.09 1.07 1.06	38 59 -225 27 8 11 3 20 7 5 6 3 3 259 81 301 3 1.04 1.05 0.89 1.06 1.04 1.09 1.06 1.	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108 109 1.06 1.04 0.93 1.06 1.04 0.93 1.09 1.10 1	5 8 7 39 488 383 74 97 25 100 100 144 232 569 5 1.08 1.04 1.06 0.97 1.04 1.15 1.07 1.08 1.12 1.06	8 15 9 63 130 -1991 43 173 183 136 42 38 492 138 -522 6 1.09 1.11 1.07 1.10 1.01 1.03 1.10 1.03 1.10 1.03 1.10 1.03	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209 7 1.09 1.06 1.09 1.12 1.00 0.96 0.98 1.07	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287 8 1.06 1.07 1.04 1.09 1.07 1.05 1.00 0.94 1.02 1.09 1.03	4 4 5 6 29 249 71 68 -792 -130 -14 34 33 19 -113 -113 -111 1.07 1.07 1.07 1.05 1.11 1.09 1.11 1.10 1.02 0.97	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203 203 11 1.04 1.06 1.03 1.09 1.08 1.15 1.14 1.05 1.07 0.90	7 3 3 2 10 49 18 30 7 7 516 9 389 389 12 1.09 1.08 1.04 1.11 1.09 1.10 1.11 1.09 1.08 1.06 1.06	240 96 128 127 103 407 95 332 396 357 95 343 4811 880 8408 13 1.04 1.08 1.05 1.11 1.08 1.11 1.10 1.08 1.11 1.10 1.08	19 27 25 83 395 844 9 9 17 7 9 9 5 4 3 8144 -1010 183 1.05 1.05 1.04 1.12 1.14 1.09 1.09 1.00 1.05	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-460 81 36 102 6 9 2 14 4 2 6 7 430 44 283 tor 1 0.96 1.04 1.09 1.09 1.09 1.11 1.10 1.08 1.08 1.07 1.06 1.07	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16	38 59 -225 27 8 11 3 20 7 5 6 3 259 81 301 301 301 301 301 301 301 30	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108	5 8 7 7 39 488 383 74 97 25 10 10 10 14 4 232 569 5 1.08 1.04 1.06 0.97 1.04 1.15 1.07 1.08 1.12 1.06 1.09	8 15 9 63 130 -1991 43 173 135 42 38 492 138 -522 100 1.07 1.10 1.07 1.10 1.03 1.10 1.03 1.10 1.08	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209 7 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287 8 1.06 1.07 1.04 1.09 1.07 1.05 1.00 0.94 1.02 1.09 1.03 1.06	4 4 5 6 29 249 71 68 -792 -130 -14 34 333 19 -113 -111 1.07 1.07 1.05 1.11 1.10 1.02 0.97 0.97 1.03	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103 10 1.07 1.07 1.04 1.09 1.11 1.12 1.13 1.08 0.98 0.98 0.98 0.98 0.98 0.98 0.98 0	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203 211 1.04 1.06 1.03 1.09 1.08 1.15 1.14 1.05 1.01	7 3 3 2 10 49 18 50 75 85 9 -447 516 9 389 1.08 1.04 1.11 1.09 1.10 1.11 1.09 1.08 1.08 1.04 1.11	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408 13 1.04 1.08 1.05 1.11 1.08 1.11 1.08 1.11 1.08 1.11 1.08 1.11 1.08 1.11 1.00 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00	19 27 25 83 395 84 9 17 9 5 4 3 814 -1010 183 1.05 1.05 1.04 1.12 1.14 1.09 1.09 1.09 1.05 1.07	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 2 2 3 4 4 5 6 6 7 8 9 10 11 1 2 1 3 1 4 1 5 6 6 7 7 8 8 9 10 11	-460 81 36 102 6 9 2 14 4 2 6 7 430 44 283 tor 1 0.96 1.04 1.09 1.09 1.11 1.10 1.08 1.08 1.08	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16 2 1.06 0.95 1.03 1.05 1.08 1.12 1.11 1.09 1.07 1.06	38 59 -225 27 8 11 3 20 7 5 6 3 3 259 81 301 3 1.04 1.05 0.89 1.06 1.04 1.09 1.06 1.	93 79 22 -553 39 74 2 17 5 1 2 2 217 108 108 109 1.06 1.04 0.93 1.06 1.04 0.93 1.09 1.10 1	5 8 7 39 488 383 74 97 25 100 100 144 232 569 5 1.08 1.04 1.06 0.97 1.04 1.15 1.07 1.08 1.12 1.06	8 15 9 63 130 -1991 43 173 183 136 42 38 492 138 -522 6 1.09 1.11 1.07 1.10 1.01 1.03 1.10 1.03 1.10 1.03	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209 7 1.09 1.06 1.09 1.12 1.00 0.96 0.98 1.07	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287 8 1.06 1.07 1.04 1.09 1.07 1.05 1.00 0.94 1.02 1.09 1.03	4 4 5 6 29 249 71 68 -792 -130 -14 34 33 19 -113 -113 -111 1.07 1.07 1.07 1.05 1.11 1.09 1.11 1.10 1.02 0.97	2 2 4 1 20 127 51 138 -96 -745 16 40 332 8 -103	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203 203 11 1.04 1.06 1.03 1.09 1.08 1.15 1.14 1.05 1.07 0.90	7 3 3 2 10 49 18 30 7 7 516 9 389 389 12 1.09 1.08 1.04 1.11 1.09 1.10 1.11 1.09 1.08 1.06 1.06	240 96 128 127 103 407 95 332 396 357 95 343 4811 880 8408 13 1.04 1.08 1.05 1.11 1.08 1.11 1.10 1.08 1.11 1.10 1.08	19 27 25 83 395 844 9 9 17 7 9 9 5 4 3 8144 -1010 183 1.05 1.05 1.04 1.12 1.14 1.09 1.09 1.00 1.05	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total	-460 81 36 102 5 9 2 14 4 2 5 7 430 44 283 tor 1 0.96 1.06 1.09 1.09 1.11 1.10 1.08 1.08 1.07 1.08	75 -414 37 75 8 17 2 9 3 2 2 2 134 30 -16 2 1.06 0.95 1.03 1.05 1.08 1.12 1.11 1.09 1.07 1.07 1.09 1.07 1.09 1.07 1.09	38 59 -225 27 8 11 3 20 7 5 6 3 259 81 301 3 1.04 1.05 0.89 1.06 1.04 1.09 1.09 1.06 1.06 1.06 1.04 1.04	93 79 22 -553 9 74 2 17 5 1 2 2 217 108 108 109 1.06 1.04 0.93 1.06 1.11 1.10 1.09 1.10 1.09 1.10 1.09 1.10 1.09 1.10 1.09 1.10 1.09 1.10 1.09 1.09	5 8 7 39 -488 383 74 97 25 22 10 10 144 232 569 5 1.08 1.08 1.04 1.06 0.97 1.04 1.10 1.07 1.07 1.08 1.12 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	8 15 9 63 130 -1991 43 173 183 136 42 138 -522 6 1.09 1.11 1.07 1.01 0.96 1.03 1.10 1.12 1.08 1.10 1.08	1 2 2 2 56 0 -463 -59 47 49 11 13 117 14 -209 7 1.09 1.09 1.09 1.09 1.12 1.00 0.98 1.07 1.12 1.07 1.12	9 7 11 15 94 306 6 -895 74 136 19 34 439 31 287 8 1.06 1.07 1.04 1.09 1.07 1.05 1.00 0.94 1.02 1.09 1.03	4 4 5 6 29 249 71 68 792 -130 -14 333 19 -113 9 1.07 1.07 1.07 1.05 1.11 1.09 1.11 1.10 1.02 0.95 0.97 0.97	2 2 4 1 1 20 127 51 138 -96 -745 16 40 332 8 -103 10 1.07 1.07 1.07 1.04 1.09 1.11 1.12 1.12 1.13 0.98 0.98 0.95 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	3 2 4 2 14 75 21 38 6 20 -177 4 180 10 203 11 1.04 1.06 1.03 1.09 1.08 1.15 1.10 1.01 1.05 1.01 1.07 0.09 1.01 1.01 1.01 1.01 1.01 1.01 1.01	7 3 3 2 10 49 18 50 75 85 9 389 12 1.09 1.08 1.04 1.11 1.09 1.10 1.11 1.09 1.08 1.06 1.02 0.91 1.06	240 96 128 125 103 407 95 332 396 357 95 343 4811 880 8408 13 1.04 1.08 1.11 1.08 1.11 1.10 1.11 1.08 1.04 1.08 1.04 1.08 1.04 1.08 1.04 1.06	19 27 25 83 395 84 9 9 17 9 5 4 3 814 -1010 183 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	45 -31 67 -9 124 -198 -66 19 -53 -56 29 86 9216 594 9768 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0



Reference C	ase - 2029	- UC2													
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2	2321 2198	91836 2471	2471 23171	5180 6339	42 509	49 113	9 40	42 336	19 47	11 29	5 21	17 14	157 335	238 106	102394 35727
4	702	5180	6339	66347	965	138	10	51	8	10	21	2	115	1260	81129
5	20	42	509	965	109865	47709	949	2783	229	80	37	35	158	2336	165718
6	31	49	113	138	47709	397112	33070	22493	2083	725	124	146	410	71	504275
7	7	9	40	10	949	33070	114787	24131	1911	402	52	63	102	6	175539
8	67	42	336	51	2783	22493	24131	160260	23705	2896	1639	663	360	17	239442
9 10	14 17	19 11	47 29	10	229 80	2083 725	1911 402	23705 2896	127591 39937	39937 151034	4721 454	3888 7076	337 413	12	204504 203086
11	20		21	2	37	124	52	1639	4721	454	15091	2409	543	3	25120
12	40	17	14	2	35	146	63	663	3888	7076	2409	43243	8085	8	65688
13	6434	157	335	115	158	410	102	360	337	413	543		5707808	602	25725858
14	27	238	106	1260	2336	71	6	17	12	2	3	8	602	2534448	2539137
Total	99536	102394	35727	81129	165718	504275	175539	239442	204504	203086	25120	65688 2	5725858	2539137	30167155
DM - 2029 -						_									
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1 2	86621 2575	2575 90725	2371 2585	848 5870	25 50	40 63	11	77 50	17 22	20 13	21	50 20	6898 187	32 260	99603 102436
3	2371	2585	21701	7379	541	130	45	359	53	31	23	15	385	116	35734
4	848	5870	7379	64235	1055	164	12	62	10	12	3	3	150	1349	81151
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6	40	63	130	164	49058	392873	34290	23648	2381	858	141	171	504	89	504410
7 8	8 77	11 50	45 359	12 62	1199 3063	34290 23648	112748 24420	24420 157212	2101 24402	461 3233	58 1759	71 738	123 430	8 21	175556 239473
9	17	22	53	10	281	2381	2101	24402	125232	40525	4926	4209	400	14	204575
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14 Total	99603	260 102436	116 35734	1349 81151	2471 165778	504410	175556	239473	204575	203165	25125	10	747 5774713	2535562 2540686	2540686 30218123
Difference															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	1 -1018	255	3 173	146	5	6	7	8	9	10	11	12 10	13 463	14	Total 66
1 2															
2	-1018 255 173	255 -1111 115	173 115 -1470	146 690 1040	5 9 31	9 14 17	2 2 6	10 8 23	3 3 5	3 2 2	2 1 3	10 3 2	463 31 50	5 22 10	66 42 7
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2 3 4 5	-1018 255 173 146	255 -1111 115 690	173 115 -1470 1040 31	146 690 1040 -2112 91	5 9 31 91 -2214	9 14 17 26 1349	2 2 6 2 250	10 8 23 10 280	3 5 2 52	3 2 2 2 23	2 1 3 0 6	10 3 2 1 8	463 31 50 35 37	5 22 10 88 135	66 42 7 22 61
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2 3 4 5 6 7 8 9 10 11	-1018 255 173 146 5 9 2 10 3 3 2	255 -1111 115 690 9 14 2 8 3 2	173 115 -1470 1040 31 17 6 23 5 2	146 690 1040 -2112 91 26 2 10 2 2 0	5 9 31 91 -2214 1349 250 280 52 23 6	9 14 17 26 1349 -4239 1220 1155 298 133 18 25	2 6 2 250 1220 -2039 289 190 58 6	10 8 23 10 280 1155 289 -3048 698 337 120 76	3 3 5 2 52 298 190 698 -2359 588 205 321	3 2 2 2 2 23 133 58 337 588 -1490 41 308	2 1 3 0 6 18 6 120 205 41 -612	10 3 2 1 8 25 9 76 321 308 140	463 31 50 35 37 94 21 70 63 72 77	5 22 10 88 135 18 2 3 3 0 1	66 42 7 22 61 135 17 31 71 79 5
2 3 4 5 6 7 8 9 10 11 12 13	-1018 255 173 146 5 9 2 10 3 3 2 10 463	255 -1111 115 690 9 14 2 8 3 2 1	173 115 -1470 1040 31 17 6 23 5 2 3 2	146 690 1040 -2112 91 26 2 10 2 2 0 1	5 9 31 91 -2214 1349 250 280 52 23 6 8 37	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94	2 2 6 2 250 1220 -2039 289 190 58 6 9 21	10 8 23 10 280 1155 289 -3048 698 337 120 76 70	3 3 5 2 52 298 190 698 -2359 588 205 321 63	3 2 2 2 23 133 58 337 588 -1490 41 308 72	2 1 3 0 6 18 6 120 205 41 -612 140	10 3 2 1 8 25 9 76 321 308 140 -1519	463 31 50 35 37 94 21 70 63 72 77 644 47053	5 222 100 888 135 18 2 3 3 0 1 1 2	66 42 7 22 61 135 17 31 71 79 5
2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 5	255 -1111 1115 690 9 14 2 8 3 2 1 3 31 22	173 115 -1470 1040 31 17 6 23 5 2 3 2 50	146 690 1040 -2112 91 26 2 10 2 2 0 11 35	5 9 31 91 -2214 1349 250 280 52 23 6 8 37	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94	2 2 6 2 250 1220 -2039 289 190 58 6 9 21	10 8 23 10 280 1155 289 -3048 698 337 120 76 70	3 3 5 2 52 298 190 698 -2359 588 205 321 63	3 2 2 2 23 133 58 387 588 -1490 41 308 72 0	2 1 3 0 6 18 6 120 205 41 -612 140 77	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2	463 31 50 35 37 94 21 70 63 72 77 644 47053	5 22 10 88 135 18 2 3 3 0 0 1 2 146	66 42 7 22 61 135 17 31 71 79 5 29 48854 1549
2 3 4 5 6 7 8 9 10 11 12 13	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 5	255 -1111 1115 690 9 14 2 8 3 2 1 3 31 22	173 115 -1470 1040 31 17 6 23 5 2 3 2 50	146 690 1040 -2112 91 26 2 10 2 2 0 11 35	5 9 31 91 -2214 1349 250 280 52 23 6 8 37	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94	2 2 6 2 250 1220 -2039 289 190 58 6 9 21	10 8 23 10 280 1155 289 -3048 698 337 120 76 70	3 3 5 2 52 298 190 698 -2359 588 205 321 63	3 2 2 2 23 133 58 387 588 -1490 41 308 72 0	2 1 3 0 6 18 6 120 205 41 -612 140 77	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2	463 31 50 35 37 94 21 70 63 72 77 644 47053	5 22 10 88 135 18 2 3 3 0 0 1 2 146	66 42 7 22 61 135 17 31 71 79 5 29 48854 1549
2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1018 255 173 146 9 2 10 3 3 2 10 463 5 66	255 -1111 115 690 14 2 8 8 3 2 1 1 3 3 1 22 42	173 115 1470 1040 31 17 6 23 5 2 3 2 50 10 7	146 690 1040 -2112 91 26 2 10 2 2 0 1 35 88 22	5 9 31 91 -2214 1349 250 280 52 23 6 8 8 37 135 61	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18	2 2 6 2 250 1220 -2039 289 190 58 6 9 21 17	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 31	3 3 5 2 2 298 199 698 -2359 388 205 321 63 3 71	3 2 2 2 23 133 58 337 58 -1490 41 308 72 0	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 1 8 25 9 76 321 308 140 -1519 644 2 29	463 31 50 35 37 94 21 70 63 72 77 644 47053 146 48854	3 22 10 88 135 18 2 3 3 0 1 1 2 146 1114 1549	66 42 7 22 61 135 17 31 71 17 5 5 29 48854 1549 50968
2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 666	255 -1111 115 690 14 2 8 3 2 1 1 3 3 1 22 42	173 115 -1470 1040 31 17 6 23 5 2 3 2 50 10 7	146 690 1040 -2112 91 26 2 10 2 2 2 0 1 1 35 88 22	5 9 31 91 -2214 1349 250 280 52 23 6 8 8 37 135 61	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 135 135	2 2 6 2 250 1220 -2039 289 190 58 6 9 21 17	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 31	3 3 5 2 298 190 698 -2359 588 205 321 63 3 71	3 2 2 2 3 133 58 337 588 -1490 41 308 72 0 79	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 1 8 25 9 76 321 308 140 -1519 644 2 29	463 31 50 35 37 94 21 70 63 72 77 644 47053 146 48854	3 22 10 88 135 18 2 3 3 0 1 1 2 146 1114 1549	66 42 7 22 61 135 17 31 71 79 5 29 48854 1549 50968
2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 666	255 -1111 115 690 9 14 2 8 3 3 2 1 3 31 22 42	173 115 -1470 1040 31 17 6 23 5 2 3 2 50 10 7	146 690 1040 -2112 91 26 2 10 2 2 2 0 1 35 88 22	5 9 31 91 -2214 1349 250 280 52 23 6 8 37 135 61	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135	2 2 6 2 250 1220 -2039 289 190 58 6 9 21 2 17	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 31	3 3 5 2 298 190 698 -2359 588 205 321 63 3 71	3 2 2 2 3 133 58 337 58 -1490 41 308 72 0 79	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 8 23 9 76 321 308 140 -1519 644 2 29 12 1.25 1.18 1.12	463 31 50 35 37 94 21 70 63 72 77 644 4703 14854	3 22 10 88 135 18 2 3 3 3 0 1 1 2 146 1114 1549 14 1.18 1.09 1.09	66 42 7 22 61 135 17 31 71 79 5 29 48854 1549 50968
2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 666 tor 1 0.99 1.11 1.08 1.21	255 -1111 115 690 9 14 2 8 3 2 1 3 31 22 42 2 111 0.99 1.05 1.13	173 115 -1470 1040 31 17 6 23 5 2 3 2 50 10 7	146 690 1040 -2112 91 26 2 2 0 1 35 88 22 2	5 9 31 91 -2214 1349 250 280 52 23 6 8 37 135 61	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135	2 2 6 2 250 1220 -2039 289 190 58 6 9 21 2 17	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 31	3 3 5 2 298 190 698 -2359 588 205 321 63 3 71	3 2 2 2 2 3 133 58 337 58 337 58 41 308 72 0 79	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2 29 12 1.25 1.12 1.25	463 31 50 35 37 94 21 70 63 72 77 644 47053 146 48854	5 22 10 88 135 15 2 3 3 0 0 1 1 2 146 1114 1549 14 1.18 1.09 1.09	66 42 7 22 61 115 17 31 71 79 5 29 48854 1549 50968 Total 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 666	255 -1111 115 690 9 14 2 8 3 3 2 1 3 31 22 42	173 115 -1470 1040 31 17 6 23 5 2 3 2 50 10 7	146 690 1040 -2112 91 26 2 10 2 2 2 0 1 35 88 22	5 9 31 91 -2214 1349 250 280 52 23 6 8 37 135 61	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135	2 2 6 2 250 1220 -2039 289 190 58 6 9 21 2 17	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 31	3 3 5 2 298 190 698 -2359 588 205 321 63 3 71	3 2 2 2 3 133 58 337 58 -1490 41 308 72 0 79	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 8 23 9 76 321 308 140 -1519 644 2 29 12 1.25 1.18 1.12	463 31 50 35 37 94 21 70 63 72 77 644 4703 14854	3 22 10 88 135 18 2 3 3 3 0 1 1 2 146 1114 1549 14 1.18 1.09 1.09	66 42 7 22 61 135 17 31 71 79 5 5 29 48854 1549 50968 Total 1.00 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total 2 3 4 5	-1018 255 173 146 5 9 2 100 3 3 2 100 463 5 666 tor 1 0.99 1.11 1.08 1.21 1.23	255 -1111 115	173 115 1470 1040 31 17 6 23 2 3 2 5 50 10 7	146 690 1040 -2112 91 26 2 10 0 1 35 88 22 4 121 113 116 0.97 1.09	5 9 31 91 -2214 1349 250 280 52 23 6 8 37 135 61 52 1.23 1.21 1.06 1.09 0.98	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135	2 2 6 2 2 250 1220 -2039 289 190 58 6 9 21 2 17	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 31	3 3 5 2 2 298 1990 698 -2359 588 205 321 63 3 71	3 2 2 2 3 133 58 337 588 -1490 41 308 72 0 79	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2 29 12 1.25 1.18 1.12 1.25 1.24	463 31 50 35 37 94 21 70 63 72 77 644 47053 146 48854	3 22 10 88 135 18 2 3 3 0 1 1 2 146 1114 1549 1.09 1.09 1.07 1.06	66 42 7 22 61 135 17 31 71 79 5 5 29 48854 1549 50968 Total 1.00 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 666 tor 1 0.99 1.11 1.08 1.21 1.23 1.27 1.23 1.15	255 -1111 115 690 9 14 2 8 3 3 2 1 3 31 22 42 2 111 0.99 1.05 1.13 1.21 1.28 1.24 1.20	173 115 -1470 1040 31 17 6 23 5 2 3 2 50 10 7 7	146 690 1040 -2112 91 26 2 2 0 1 35 88 22 4 121 113 1.16 0.97 1.09 119 121 121	5 9 31 91 -2214 1349 250 280 52 23 6 8 37 135 61	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135	2 2 6 6 2 250 1220 -2039 289 190 58 6 9 21 2 2 17 7 1.23 1.24 1.15 1.21 1.26 1.04 0.98 1.01	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 3 1 1.15 1.20 1.07 1.20 1.10 1.05 1.01	3 3 5 2 298 190 698 -2359 588 205 321 63 3 71 118 118 112 123 122 114 110	3 2 2 2 3 133 58 337 58 -1490 41 308 72 0 79 10 1.19 1.16 1.07 1.24 1.29 1.15	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 8 23 9 76 321 308 140 -1519 644 2 29 12 1.25 1.18 1.12 1.25 1.24 1.14 1.11	463 31 50 35 37 94 21 70 644 4703 106 48854 13 1.07 1.20 1.15 1.30 1.23 1.23 1.23	3 22 10 88 135 18 2 3 3 3 0 11 2 146 1114 1549 1.09 1.09 1.07 1.06 1.26 1.29 1.20	66 42 7 22 61 135 17 31 71 79 5 29 48854 1549 50968 Total 1.00 1.00 1.00 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total 2 3 4 5 6 7 8	-1018 255 173 146 5 9 2 100 463 3 3 2 10 463 5 666 tor 1 1.21 1.23 1.27 1.23 1.15 1.18	255 -1111 115 690 14 2 8 8 3 2 1 3 31 22 42 2 111 0.99 1.05 1.13 1.21 1.28 1.24 1.20 1.18	173 115 1470 1040 31 17 6 23 2 2 3 0 10 7 3 1.08 1.05 0.94 1.15 1.15 1.15 1.15	146 690 1040 -2112 91 26 2 100 0 1 35 88 22 4 121 113 116 0.97 1.09 119 120 123	5 9 31 191 -2214 1349 250 280 52 23 6 8 8 37 135 61 1.23 1.21 1.06 1.09 0.98 1.03 1.26 1.10 1.22	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135	2 2 6 2 2 200 1220 -2039 190 58 6 9 21 2 17 7 1.23 1.24 1.121 1.26 1.04 0.98 1.01	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 31 1.15 1.20 1.05 1.05 1.05	3 3 5 2 2 98 190 698 -2359 588 205 321 63 3 71 9 1.18 1.18 1.12 1.23 1.22 1.14 1.10 0.098	3 2 2 2 3 133 58 337 588 -1490 41 308 72 0 79 1.16 1.07 1.24 1.29 1.18 1.12 1.12	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2 29 125 1.18 1.12 1.25 1.24 1.17 1.11 1.08	463 31 50 35 37 94 21 70 63 72 77 644 47053 146 48854 13 1.07 1.20 1.13 1.23 1.23 1.23 1.20 1.19	14 1.18 1.09 1.06 1.26 1.100 1.00 1.00 1.26 1.29 1.20 1.20	66 42 7 22 61 135 17 31 71 79 5 5 29 48854 1549 50968 Total 1.00 1.00 1.00 1.00 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total 2 3 4 5 6 7 8	-1018 255 173 146 5 9 2 10 463 5 666 tor 1 0.99 1.11 1.08 1.27 1.23 1.15 1.18 1.19	255 -1111 115 -59 14 2 8 3 2 1 3 31 22 42	173 115 1470 1040 31 17 6 23 3 2 5 50 10 7 3 1.08 1.05 0.94 1.15 1.15 1.06 1.15 1.15	146 690 1040 -2112 91 26 2 10 0 1 1 35 88 22 2 4 121 113 116 0.97 1.09 119 121 122 123 124	5 9 31 91 -2214 1349 250 280 52 23 6 8 8 7 135 61 123 1.21 1.06 1.09 1.22 1.29	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135 6 1.27 1.28 1.15 1.19 1.03 0.99 1.04 1.05 1.14	2 2 6 6 2 250 1220 -2039 289 190 58 6 9 21 1 7 7 1.23 1.24 1.15 1.26 1.04 0.98 1.01	10 8 23 10 280 1153 289 -3048 688 337 120 76 70 3 3 31 1.15 1.20 1.07 1.20 1.05 1.01 0.98	3 3 5 2 2 298 1990 698 2055 321 633 71 118 118 112 122 114 1100 103 0,98 1,011	3 2 2 2 3 133 58 337 588 -1490 41 308 72 0 79 116 1.04 1.29 1.18 1.15 1.12 1.01 0.99	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2 29 125 1.18 1.12 1.25 1.18 1.12 1.24 1.17 1.14 1.11 1.08 1.04	463 31 50 35 37 94 21 70 63 72 77 644 47053 146 48854 1.07 1.20 1.15 1.23 1.23 1.20 1.19 1.17	144 1.18 1.09 1.06 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.2	66 42 7 22 61 135 17 31 71 17 17 17 5 5 29 48854 1549 50968 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total 5 6 7 8 9	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 666 tor 1 0.99 1.11 1.08 1.21 1.23 1.15 1.18 1.19 1.10	255 -1111 115	173 115 1470 1040 31 17 6 23 5 2 3 2 50 10 7 7 3 1.08 1.05 0.94 1.15 1.06 1.15 1.15 1.07 1.12	146 690 1040 -2112 91 26 2 10 0 1 35 88 22 2 4 121 1.13 1.16 0.97 1.09 1.19 1.21 1.20 1.21	5 9 31 91 -2214 1349 250 280 52 23 6 8 8 37 135 61 5 1.23 1.21 1.06 1.09 0.98 1.03 1.26 1.10	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135 6 1.27 1.28 1.15 1.19 1.03 0.99 1.04 1.05 1.18 1.14	2 2 6 6 2 2 250 1220 -2039 289 190 58 6 9 21 1 2 17 17 1.23 1.24 1.15 1.26 1.04 0.98 1.01 1.15 1.11	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 3 1.15 1.20 1.07 1.07 1.05 1.01 0.98 1.03	3 3 5 2 298 1990 698 -2359 588 205 321 63 3 71 71 9 118 118 112 123 122 114 110 103 0.98	3 2 2 2 3 133 58 337 588 -1490 41 308 72 0 79 1.16 1.07 1.24 1.29 1.15 1.12 1.01 0.99 1.09	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5 11 110 120 113 122 116 114 111 107 109 0.96	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2 29 12 1.25 1.18 1.12 1.25 1.18 1.12 1.21 1.11 1.11 1.04 1	463 31 50 35 37 94 21 70 63 372 77 644 47053 146 48854 1.07 1.20 1.15 1.30 1.23 1.23 1.20 1.19 1.17	144 1.18 1.09 1.09 1.09 1.09 1.09 1.09 1.26 1.26 1.29 1.20 1.22 1.24	66 42 7 22 61 135 17 31 79 5 29 48854 1549 50968 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total 2 3 4 5 6 7 8	-1018 255 173 146 5 9 2 10 463 5 666 tor 1 0.99 1.11 1.08 1.27 1.23 1.15 1.18 1.19	255 -1111 115 -59 14 2 8 3 2 1 3 31 22 42	173 115 1470 1040 31 17 6 23 3 2 5 50 10 7 3 1.08 1.05 0.94 1.15 1.15 1.06 1.15 1.15	146 690 1040 -2112 91 26 2 10 0 1 1 35 88 22 2 4 121 113 116 0.97 1.09 119 121 122 123 124	5 9 31 91 -2214 1349 250 280 52 23 6 8 8 7 135 61 123 1.21 1.06 1.09 1.22 1.29	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135 6 1.27 1.28 1.15 1.19 1.03 0.99 1.04 1.05 1.14	2 2 6 6 2 250 1220 -2039 289 190 58 6 9 21 1 7 7 1.23 1.24 1.15 1.26 1.04 0.98 1.01	10 8 23 10 280 1153 289 -3048 688 337 120 76 70 3 3 31 1.15 1.20 1.07 1.20 1.05 1.01 0.98	3 3 5 2 2 298 1990 698 2055 321 633 71 118 118 112 122 114 1100 103 0,98 1,011	3 2 2 2 3 133 58 337 588 -1490 41 308 72 0 79 116 1.04 1.29 1.18 1.15 1.12 1.01 0.99	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2 29 125 1.18 1.12 1.25 1.18 1.12 1.24 1.17 1.14 1.11 1.08 1.04	463 31 50 35 37 94 21 70 63 72 77 644 47053 146 48854 1.07 1.20 1.15 1.23 1.23 1.20 1.19 1.17	144 1.18 1.09 1.06 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.2	66 42 7 22 61 135 17 31 71 17 17 17 5 5 29 48854 1549 50968 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total 2 3 4 5 6 7 8 9	-1018 255 173 146 5 9 2 10 3 3 2 10 463 5 666 tor 1 0.99 1.11 1.08 1.21 1.23 1.15 1.18 1.19 1.10 1.25	255 -1111 115 -590 14 2 8 3 2 1 3 31 22 42	173 115 -1470 1040 31 17 6 23 5 2 3 2 50 10 7 7 3 1.08 1.05 0.94 1.16 1.05 1.15 1.15 1.15 1.17 1.12	146 690 1040 -2112 91 26 2 10 2 2 2 0 1 335 88 22 2 4 121 113 116 0.97 1.09 1.19 1.21 1.20 1.23 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	5 9 31 91 -2214 1349 250 280 52 23 6 8 37 133 61 5 1.23 1.21 1.06 1.09 0.98 1.03 1.26 1.10 1.22 1.22	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135 6 1.27 1.28 1.15 1.19 1.03 0.99 1.04 1.05 1.14 1.18	2 2 6 6 2 2 250 1220 -2039 289 190 58 6 9 21 17 7 1.23 1.24 1.15 1.21 1.26 1.04 0.98 1.01 1.10 1.11 1.14	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 3 31 1.20 1.07 1.20 1.07 1.20 1.05 1.01 0.98 1.03 1.11	3 3 5 2 298 190 688 -2359 588 205 321 63 3 71 118 112 123 122 114 110 103 0.98 1.01	3 2 2 2 3 133 58 337 588 -1490 41 308 72 0 11.19 1.16 1.07 1.24 1.29 1.18 1.15 1.12 1.01 0.99 1.04	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5 11 110 120 113 122 114 111 107 1.04 1.07	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2 29 12 1.25 1.18 1.12 1.25 1.18 1.11 1.04 1.04 1.06 0.96	463 31 50 35 37 94 21 70 63 72 77 644 47033 146 48854 13 1.07 1.20 1.15 1.30 1.23 1.23 1.23 1.20 1.19 1.19	144 11549 144 11549 144 1114 1114 1114 1	66 42 7 22 61 135 17 31 71 79 5 29 4854 1549 50968 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00
2 3 4 5 6 7 8 9 10 11 12 13 14 Total 2 3 4 5 6 7 8 9 9 10 11 12 13 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-1018 255 173 146 5 9 2 100 3 3 2 100 463 5 666 tor 1 1.23 1.27 1.23 1.27 1.23 1.17 1.28 1.19 1.10 1.25 1.07	255 -1111 115 -59 14 2 8 3 2 1 3 31 22 42 2 111 0.99 1.05 1.13 1.21 1.28 1.24 1.20 1.18 1.16 1.20 1.18 1.20	173 115 1470 1040 31 17 6 23 2 2 3 10 7 3 1.08 1.05 1.05 1.05 1.15 1.15 1.17 1.12 1.07 1.12 1.07	146 690 1040 -2112 91 26 2 100 0 1 35 88 22 4 121 113 116 0.97 1.09 119 121 122 123 124 124 125 130	5 9 31 191 -2214 1349 250 280 52 23 6 8 8 37 135 61 121 1.06 1.09 0.98 1.03 1.26 1.10 1.22 1.29 1.16 1.24 1.23	9 14 17 26 1349 -4239 1220 1155 298 133 18 25 94 18 135 6 1.27 1.28 1.15 1.19 1.03 0.99 1.04 1.05 1.14 1.18 1.14 1.17 1.23	2 2 6 6 2 2 250 1220 -2038 8 6 9 9 21 2 2 17 7 1.23 1.24 1.15 1.21 1.26 1.04 0.98 1.01 1.10 1.15 1.11 1.14 1.20	10 8 23 10 280 1155 289 -3048 698 337 120 76 70 3 31 1.15 1.20 1.05 1.05 1.05 1.01 1.05 1.03 1.12 1.09 1.11 1.12	3 3 5 2 2 98 190 698 -2359 588 205 321 63 3 71 9 118 118 112 123 122 114 110 103 0.98 1.01	3 2 2 2 3 133 58 337 588 -1490 41 308 72 0 79 1.19 1.16 1.07 1.24 1.29 1.18 1.13 1.12 1.01 0.99 1.04	2 1 3 0 6 18 6 120 205 41 -612 140 77 1 5 111 110 120 113 122 116 114 111 107 109 0.96 106 114	10 3 2 1 8 25 9 76 321 308 140 -1519 644 2 29 125 1.18 1.12 1.25 1.24 1.17 1.11 1.08 1.04 1.09 1.09 1.00	463 31 50 35 37 94 21 70 63 72 77 644 47053 146 48854 13 1.07 1.20 1.15 1.30 1.23 1.23 1.23 1.21 1.21 1.21 1.21 1.21	14 1.18 1.09 1.06 1.26 1.100 1.07 1.06 1.26 1.29 1.20 1.20 1.21 1.21 1.21	66 42 7 22 61 135 17 31 71 79 5 5 29 48854 1549 50968 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00



Reference C	ase - 2029 -	·UC3													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	86927	1327	1685	441	43	59	13	95	34	14	45	42	4092	66	94884
2	1298	69605	1724	2886	42	75	13	58	42	17	20	25	109	172	76085
3 4	1643 523	1724 3027	28929 2979	2906 71842	235 624	89 173	25 16	252 38	105	42 9	84 10	40 10	334 50	151 1434	36558 80769
5	43	39	222	584	118324	42513	473	2013	131	50	72	54	306	3433	168257
6	62	76	90	193	40995	430536	37868	17440	1658	420	130	211	866	328	530872
7	15	14	29	17	461	37493	103234	20861	1124	191	40	88	199	32	163799
8	102	60	253	48	2023	18425	21601	137087	16296	1625	1186	406	457	78	199647
9	34	36	105	35	109	1599	1138	16048	128844	38368	2895	2639	909	47	192807
10 11	16 51	16 20	47 86	10	53 54	437 108	216 52	1643 1162	39634 2797	149760 235	204 20787	6632 1631	514 246	27 22	199209 27259
12	43	22	40	11	59	211	89	362	2991	8083	1362	67231	14888	25	95416
13	5086	124	441	71	370	1004	237	549	508	379	326		38968868	608	38992238
14	39	136	120	1690	4737	178	29	53	58	28	23	24	158	3535119	3542391
Total	95884	76223	36750	80741	168127	532901	165005	197662	194254	199223	27186	92699	38991995	3541542	44400192
DM - 2029 -															
DM - 2029 -	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	85645	1552	1955	566	60	80	17	119	42	18	54	56	4787	83	95034
2	1524	68610	1922	3313	57	105	17	74	51	21	25	31	144	205	76101
3	1901	1912	27549	3730	285	118	31	298	127	51	98	48	423	178	36749
4	665	3460	3864	69703	729	222	21	50	44	12	13	14	70	1632	80500
5	61	54	271	682	115852	44343	639	2323	170	70	93	72	417	3771	168818
6	85 20	106 18	120 37	247 21	42823 622	423360 39177	39516 100354	19082 21316	2027 1321	537 237	160 49	269 109	1159 263	445 42	529935 163586
8	128	77	300	62	2327	19964	21984	133878	17170	1953	1349	480	596	98	200367
9	43	44	130	46	142	1947	1323	16910	125447	39210	3137	3029	1098	59	192566
10	20	20	56	12	74	559	267	1983	40483	147611	242	7140	645	35	199148
11	61	24	101	10	70	134	61	1323	3012	276	20062	1815	311	26	27286
12	58	27	47	14	78	267	109	426	3383	8630	1507	64669	16605	31	95852
13	5959	162	558	97	499	1323	308	708	640	481	407		38982772	768	39010110
14 Total	96219	76227	143 37053	1893 80397	5080 168698	243 531843	37 164685	198560	73 193991	36 199143	27224	93199	212 39009502	3535633 3543007	3543686 44419739
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,,033		200000	332043	204005	230300	200002	200240	2/224	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2242007	
Difference															
Difference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-1282	225	270	124	17	21	4	24	8	4	8	14	695	17	150
1 2	-1282 226	225 -995	270 199	124 428	17 16	21 30	4	24 16	8 9	4	8	14 6	695 36	17 33	150 15
1 2 3	-1282 226 258	-995 189	270 199 -1381	124 428 824	17 16 51	21 30 29	4 4 6	24 16 46	8 9 22	4 4 9	8 4 15	14 6 8	695 36 89	17 33 27	150 15 191
1 2	-1282 226	225 -995	270 199	124 428	17 16	21 30	4	24 16	8 9	4	8	14 6	695 36	17 33	150 15
1 2 3 4	-1282 226 258 142	-995 189 434	270 199 -1381 885	124 428 824 -2139	17 16 51 105	21 30 29 49	4 4 6 5	24 16 46 12	8 9 22 11	4 4 9 3	8 4 15 3	14 6 8 3	695 36 89 20	17 33 27 198	150 15 191 -269
1 2 3 4 5 6	-1282 226 258 142 17	225 -995 189 434 15	270 199 -1381 885 48	124 428 824 -2139 97	17 16 51 105 -2471	21 30 29 49 1830	4 4 6 5 166 1648 -2880	24 16 46 12 311	8 9 22 11 39	4 4 9 3 20	8 4 15 3 21	14 6 8 3	695 36 89 20 111	17 33 27 198 338	150 15 191 -269 561
1 2 3 4 5 6 7 8	-1282 226 258 142 17 23 5	225 -995 189 434 15 31 5	270 199 -1381 885 48 30 8	124 428 824 -2139 97 54 5	17 16 51 105 -2471 1828 161 304	21 30 29 49 1830 -7176 1684 1539	4 6 5 166 1648 -2880 383	24 16 46 12 311 1642 455 -3208	8 9 22 11 39 369 197 874	4 9 3 20 117 46 328	8 4 15 3 21 30 8 163	14 6 8 3 18 58 21 75	695 36 89 20 111 293 64 140	17 33 27 198 338 117 10	150 15 191 -269 561 -937 -213 719
1 2 3 4 5 6 7 8	-1282 226 258 142 17 23 5 26	225 -995 189 434 15 31 5	270 199 -1381 885 48 30 8 47 24	124 428 824 -2139 97 54 5 14	17 16 51 105 -2471 1828 161 304 33	21 30 29 49 1830 -7176 1684 1539 348	4 4 6 5 166 1648 -2880 383 185	24 16 46 12 311 1642 455 -3208 862	8 9 22 11 39 369 197 874 -3397	4 4 9 3 20 117 46 328 841	8 4 15 3 21 30 8 163 242	14 6 8 3 18 58 21 75 390	695 36 89 20 111 293 64 140 188	17 33 27 198 338 117 10 20	150 15 191 -269 561 -937 -213 719 -242
1 2 3 4 5 6 7 8 9	-1282 226 258 142 17 23 5 26 8	225 -995 189 434 15 31 5	270 199 -1381 885 48 30 8	124 428 824 -2139 97 34 5 14	17 16 51 105 -2471 1828 161 304 33 21	21 30 29 49 1830 -7176 1684 1539 348	4 4 6 5 166 1648 -2880 383 185 51	24 16 46 12 311 1642 455 -3208 862 340	8 9 22 11 39 369 197 874 -3397	4 4 9 3 20 117 46 328 841 -2150	8 4 15 3 21 30 8 163 242 38	14 6 8 3 18 58 21 75	695 36 89 20 111 293 64 140 188 131	17 33 27 198 338 117 10 20	150 15 191 -269 561 -937 -213 719 -242 -60
1 2 3 4 5 6 7 8	-1282 226 258 142 17 23 5 26	225 -995 189 434 15 31 5 16 8	270 199 -1381 885 48 30 8 47 24	124 428 824 -2139 97 54 5 14	17 16 51 105 -2471 1828 161 304 33	21 30 29 49 1830 -7176 1684 1539 348	4 4 6 5 166 1648 -2880 383 185	24 16 46 12 311 1642 455 -3208 862	8 9 22 11 39 369 197 874 -3397	4 4 9 3 20 117 46 328 841	8 4 15 3 21 30 8 163 242	14 6 8 3 18 58 21 75 390 508	695 36 89 20 111 293 64 140 188	17 33 27 198 338 117 10 20	150 15 191 -269 561 -937 -213 719 -242
1 2 3 4 5 6 7 8 9	-1282 226 258 142 17 23 5 26 8 4	225 -995 189 434 15 31 5 16 8 4	270 199 -1381 885 48 30 8 47 24 10	124 428 824 -2139 97 34 5 14 11 3	17 16 51 105 -2471 1828 161 304 33 21	21 30 29 49 1830 -7176 1684 1539 348 122 25	4 4 6 5 166 1648 -2880 383 185 51	24 16 46 12 311 1642 455 -3208 862 340 161	8 9 22 11 39 369 197 874 -3397 850 215	4 4 9 3 20 117 46 328 841 -2150 41	8 4 15 3 21 30 8 163 242 38 -725	14 6 8 3 18 58 21 75 390 508 184	695 36 89 20 111 293 64 140 188 131 65	17 33 27 198 338 117 10 20 12 8	150 15 191 -269 561 -937 -213 719 -242 -60 27
1 2 3 4 5 6 7 8 9 10 11	-1282 226 258 142 17 23 5 26 8 4 10 15	225 -995 189 434 15 31 5 16 8 4 4 5 38 25	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23	124 428 824 -2139 97 54 5 14 11 3 2 3 26 204	17 16 51 105 -2471 1828 161 304 33 21 16 19 129	21 30 29 49 1830 -7176 1684 1739 348 122 25 36 319 65	4 4 6 5 166 1648 -2880 383 185 51 10 19 71	24 16 46 12 311 1642 455 -3208 862 340 161 64 159	8 9 22 11 39 369 197 874 -3397 850 215 392 132 14	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8	8 4 15 3 21 30 8 163 242 38 -725 146 81	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6	695 36 89 20 111 293 64 140 188 131 65	17 33 27 198 338 117 10 20 12 8 5 6 160 514	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295
1 2 3 4 5 6 7 8 9 10 11 12 13	-1282 226 258 142 17 23 5 26 8 4 10 15	225 -995 189 434 15 31 5 16 8 4 4 5 38	270 199 -1381 885 48 30 8 47 24 10 16 8	124 428 824 -2139 97 54 5 14 11 3 2 3	17 16 51 105 -2471 1828 161 304 33 21 16 19	21 30 29 49 1830 -7176 1684 1539 348 122 25 56 319	4 4 6 5 166 1648 -2880 383 185 51 10 19 71	24 16 46 12 311 1642 455 -3208 862 340 161 64 159	8 9 22 11 39 369 197 874 -3397 850 215 392	4 4 9 3 20 117 46 328 841 -2150 41 547 103	8 4 15 3 21 30 8 163 242 38 -725 146 81	14 6 8 3 18 58 21 75 390 508 184 -2562 1760	695 36 89 20 111 293 64 140 188 131 65 1717	17 33 27 198 338 117 10 20 12 8 5 6	150 15 191 -269 561 -937 -213 719 -242 -60 27 436
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1282 226 238 142 17 23 5 26 8 4 10 15 873 11 335	225 -995 189 434 15 31 5 16 8 4 4 5 38 25	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23	124 428 824 -2139 97 54 5 14 11 3 2 3 26 204	17 16 51 105 -2471 1828 161 304 33 21 16 19 129	21 30 29 49 1830 -7176 1684 1739 348 122 25 36 319 65	4 4 6 5 166 1648 -2880 383 185 51 10 19 71	24 16 46 12 311 1642 455 -3208 862 340 161 64 159	8 9 22 11 39 369 197 874 -3397 850 215 392 132 14	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8	8 4 15 3 21 30 8 163 242 38 -725 146 81	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6	695 36 89 20 111 293 64 140 188 131 65 1717 13904	17 33 27 198 338 117 10 20 12 8 5 6 160 514	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295
1 2 3 4 5 6 7 8 9 10 11 12 13	-1282 226 238 142 17 23 5 26 8 4 10 15 873 111 335	225 -995 189 434 155 31 5 16 8 4 4 5 38 25	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23	124 428 824 -2139 97 54 11 11 3 2 2 6 204 -345	17 16 51 105 -2471 1828 161 304 33 21 16 19 129 343 571	21 30 29 49 1830 -7176 1684 1539 348 122 25 56 319 65 -1058	4 4 6 5 166 1648 -2880 383 185 51 10 19 71 9	24 16 46 12 311 1642 455 -3208 862 340 161 64 119 13	8 9 22 11 39 369 197 874 -3397 850 215 392 132 14 -263	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8	8 4 15 3 21 30 8 163 242 38 -725 146 81 5	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 490	695 36 89 20 111 293 64 140 188 131 65 1717 13904 53	17 33 27 198 338 117 10 20 12 8 5 6 160 514	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1282 226 238 142 17 23 5 26 8 4 10 15 873 11 335	225 -995 189 434 15 31 5 16 8 4 4 5 38 25	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23	124 428 824 -2139 97 54 5 14 11 3 2 3 26 204	17 16 51 105 -2471 1828 161 304 33 21 16 19 129	21 30 29 49 1830 -7176 1684 1739 348 122 25 36 319 65	4 4 6 5 166 1648 -2880 383 185 51 10 19 71	24 16 46 12 311 1642 455 -3208 862 340 161 64 159	8 9 22 11 39 369 197 874 -3397 850 215 392 132 14	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8	8 4 15 3 21 30 8 163 242 38 -725 146 81	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6	695 36 89 20 111 293 64 140 188 131 65 1717 13904	17 33 27 198 338 117 10 20 12 8 5 6 160 514	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1282 226 258 142 17 23 3 26 8 4 10 13 873 11 335	225 -995 189 434 15 31 5 16 8 4 4 5 38 25 4	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23 304	124 428 824 -2139 97 54 11 11 3 2 26 204 -345	17 16 51 105 -2471 1828 161 304 33 21 16 19 129 343 571	21 30 29 49 1830 -7176 1684 1539 348 122 25 56 319 65 -1058	4 4 6 5 166 1648 -2880 383 185 51 100 19 71 9	24 16 46 12 311 1642 453 -3208 862 340 161 64 159 15 898	8 9 22 111 399 369 197 874 -3397 850 215 392 132 14 -263	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8 -80	8 4 15 3 21 30 8 163 242 38 -725 146 81 5	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6 490	695 36 89 20 111 293 64 140 188 131 65 1717 13904 53	17 33 27 198 338 117 10 20 12 8 5 6 160 514 1466	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295
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1 2 3 4 5 6 6 7 8 9 100 111 12 13 14 Total Growth Fact	-1282 226 238 142 17 23 5 26 8 4 10 15 873 111 335 tor 1 0.99 1.17 1.16 1.27	225 -995 189 434 155 31 5 16 8 4 4 5 38 25 4	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23 304	124 428 824 -2139 97 54 51 11 11 3 2 6 204 -345	17 16 51 105 -2471 1828 161 304 33 21 16 19 129 343 571 5 1.40 1.32 1.22 1.17	21 30 29 49 1830 -7176 1684 1539 348 122 25 56 319 65 -1058 6 1.36 1.46 1.46 1.47	4 4 6 5 1668 -2880 383 185 511 10 19 71 9 -319 7 1.30 1.34 1.26 1.29	24 16 46 42 311 1642 455 -3208 862 340 161 64 119 15 898 8 1.25 1.27 1.18	8 9 22 11 139 369 197 874 -3397 850 215 392 132 14 -263 9 124 122 121 133	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8 -80	8 4 15 3 21 300 8 163 242 38 32 146 81 5 38 121 1121 117 129	14 6 8 3 18 5 21 75 390 508 184 -2562 1760 6 490	695 36 89 20 111 1293 64 140 188 131 65 1717 13904 53 17507 13 1.17 1.33 1.27 1.40	17 33 27 198 338 117 10 20 12 8 5 6 160 514 1466	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1282 225 228 142 17 23 5 26 8 4 10 15 873 11 335 tor 1 0.99 1.17 1.16 1.27 1.40	225 -995 189 434 15 31 5 16 8 4 4 5 38 25 4 2 117 0.99 111 114 1.39	270 199 -1381 883 48 30 8 47 24 10 16 8 8 117 23 304	124 428 824 -2139 97 54 5 14 111 3 2 2 3 3 26 204 -345	17 16 51 105 -2471 1828 161 304 33 21 16 19 343 571 5 1.40 1.38 1.22 1.17 0.98	21 30 29 49 1830 -7176 1684 1539 348 122 25 36 319 65 -1058 6 1.36 1.40 1.32 1.22 1.23 1.24 1.25	4 4 6 5 1668 -2880 383 183 51 10 19 71 9 -319 7 1.30 1.34 1.25 1.25 1.25	24 16 46 12 311 1642 455 -3208 862 340 161 64 159 898 882 1.25 1.27 1.18 1.31	8 9 22 11 11 13 9 369 197 874 -3397 850 215 392 132 14 -263 124 122 121 133 130	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8 -80	8 4 15 3 21 300 8 8 163 242 38 -725 146 81 5 38 111 118 121 117 129 128	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6 490 12 1.34 1.24 1.20 1.33 1.34	695 36 89 200 1111 293 644 140 188 131 65 1717 13904 53 17507 13 1.17 1.33 1.27 1.40 1.36	17 33 27 198 338 117 10 20 12 2 8 5 6 150 5 14 1466	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1282 226 238 142 17 23 5 26 8 4 100 1335 11 335 11 1 116 127 140 137	225 -995 189 434 15 31 5 16 8 4 4 4 3 3 8 25 4 4 17 0.99 1.11 1.14 1.39	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23 304	124 428 824 -2139 97 54 5 14 111 3 2 2 3 26 204 -345	17 16 51 105 -2471 1828 161 304 33 21 16 19 129 343 571 5 1.40 1.38 1.22 1.17 0.98	21 30 29 49 1830 -7176 1684 139 348 122 25 36 319 65 -1058 6 1.36 1.40 1.32 1.22 1.32 1.32 1.32 1.32 1.32 1.33 1.34 1.35 1	4 4 6 5 166 1648 -2880 383 185 51 10 19 7 7 1.30 1.34 1.26 1.26 1.33 1.04	24 16 46 42 311 1642 455 -3208 862 340 161 64 159 898 8 8 1.25 1.27 1.18 1.31 1.15	8 9 22 111 39 369 197 874 -3397 850 215 392 144 -263 124 122 121 133 130 122	4 4 4 9 3 3 20 117 46 328 841 -2150 41 547 103 8 -80	8 4 15 3 21 300 8 8 163 242 38 -725 146 81 5 38 121 1.18 1.21 1.17 1.29 1.28 1.23	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6 490	695 36 89 20 1111 293 64 140 188 131 65 1717 1390 131 17507 13 1.17 1.33 1.27 1.40 1.34	17 33 27 198 338 117 10 20 12 2 8 5 6 6 160 514 1466 1.19 1.18 1.14 1.10 1.36	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total	-1282 226 228 142 17 23 5 26 8 4 10 15 873 11 335 tor 1 0.99 1.17 1.16 1.27 1.40 1.37 1.31	225 -995 189 434 15 31 5 16 8 4 4 5 38 25 4 2 117 0.99 1.11 1.14 1.39	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23 304	124 428 824 -2139 97 54 5 14 111 3 2 3 26 204 -345	17 16 51 105 -2471 1828 161 304 33 21 16 19 343 571 5 1.40 1.38 1.22 1.17 0.98 1.04	21 30 29 49 1830 -7176 1684 1539 348 122 25 56 319 65 -1058 6 1.36 1.40 1.32 1.28 1.04 0.98 1.04	4 4 6 5 1668 -2880 383 185 511 10 19 77 1.30 1.34 1.26 1.29 1.35 1.04 0.97	24 16 46 42 311 1642 455 -3208 862 340 161 64 159 898 8 1.25 1.27 1.18 1.31 1.15	8 9 22 111 39 369 197 874 -3397 850 215 392 14 -263 124 122 121 133 130 122 118	4 4 9 3 20 117 46 328 841 -2130 41 547 103 8 -80	8 4 15 3 21 300 8 8 163 242 38 -725 146 81 5 5 38 121 118 121 117 129 128 123 120	14 6 8 3 18 58 21 75 3900 508 184 -2562 1760 6 490 12 1.34 1.24 1.20 1.33 1.34 1.24	695 36 89 20 1111 293 64 140 188 131 65 1717 13904 53 17507 13 1.17 1.33 1.27 1.40 1.34 1.34 1.34	17 33 27 198 338 117 10 20 12 8 5 6 1500 514 1466	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1282 226 238 142 17 23 5 26 8 4 100 1335 11 335 11 1 116 127 140 137	225 -995 189 434 15 31 5 16 8 4 4 4 3 3 8 25 4 4 17 0.99 1.11 1.14 1.39	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23 304	124 428 824 -2139 97 54 5 14 111 3 2 2 3 26 204 -345	17 16 51 105 -2471 1828 161 304 33 21 16 19 129 343 571 5 1.40 1.38 1.22 1.17 0.98	21 30 29 49 1830 -7176 1684 139 348 122 25 36 319 65 -1058 6 1.36 1.40 1.32 1.22 1.32 1.32 1.32 1.32 1.32 1.33 1.34 1.35 1	4 4 6 5 166 1648 -2880 383 185 51 10 19 7 7 1.30 1.34 1.26 1.26 1.33 1.04	24 16 46 42 311 1642 455 -3208 862 340 161 64 159 898 8 8 1.25 1.27 1.18 1.31 1.15	8 9 22 111 39 369 197 874 -3397 850 215 392 144 -263 124 122 121 133 130 122	4 4 4 9 3 3 20 117 46 328 841 -2150 41 547 103 8 -80	8 4 15 3 21 300 8 8 163 242 38 -725 146 81 5 38 121 1.18 1.21 1.17 1.29 1.28 1.23	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6 490	695 36 89 20 1111 293 64 140 188 131 65 1717 1390 131 17507 13 1.17 1.33 1.27 1.40 1.34 1.34	17 33 27 198 338 117 10 20 12 2 8 5 6 6 160 514 1466 1.19 1.18 1.14 1.10 1.36	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Srowth Fact	-1282 226 228 142 17 23 5 26 8 4 10 15 873 11 335 tor 1 0.99 1.17 1.16 1.27 1.40 1.37 1.31 1.25	225 -995 189 434 15 31 5 16 8 4 4 5 38 25 4 2 117 0.99 111 114 1.39 1.40 1.35 1.27	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23 304 3 1.16 1.12 0.95 1.30 1.22 1.30 1.22 1.30 1.27 1.19	124 428 824 -2139 97 54 5 14 11 13 2 6 204 -345 4 128 115 128 0.97 1.17 1.28	17 16 51 105 -2471 1828 161 304 33 21 16 19 129 343 571 5 1.40 1.38 1.22 1.17 0.98 1.09 1.29	21 30 29 49 1830 -7176 1684 1539 348 122 25 56 319 65 -1058 6 1.36 1.40 1.32 1.28 1.04 0.98 1.04 1.08	4 4 6 5 1666 1648 -2880 383 185 51 10 19 71 9 -319 7 1.30 1.34 1.26 1.29 1.35 1.09 7	24 16 45 12 311 1642 455 -3208 862 340 161 64 159 13 898 8 1.25 1.27 1.18 1.31 1.15 1.02 0.98	8 9 22 111 39 369 197 874 -3397 850 215 392 144 -263 122 121 133 130 122 118 1.05	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8 -80 10 1.25 1.23 1.20 1.33 1.39 1.24 1.24 1.24 1.24	8 4 15 3 21 300 8 163 242 38 -725 146 81 5 38 11 118 121 117 129 128 123 120 114	14 6 8 3 18 21 75 390 508 184 -2562 1760 6 490	695 36 89 20 1111 293 64 140 188 131 65 1717 13904 53 17507	17 33 27 198 3388 117 10 20 12 8 5 6 160 514 1456 1.19 1.18 1.14 1.10 1.31 1.26	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 2 2 3 4 4 5 6 6 7 8 8 9 10 11 1 2 1 3 1 4 1 5 6 6 7 7 8 8 9 10 11	-1282 226 228 142 17 23 5 26 8 4 10 15 873 11 335 tor 1 0.99 1.17 1.40 1.37 1.40 1.37 1.31 1.25 1.25	225 -995 189 434 15 31 5 16 8 4 4 5 38 25 4 2 117 0.99 111 114 139 140 137 127 127	270 199 -1381 885 48 30 8 47 24 10 16 16 8 117 23 304 3 1.16 1.12 0.95 1.30 1.22 1.33 1.27 1.19 1.23	124 428 824 -2139 97 54 5 14 111 3 2 2 3 3 26 204 -345 128 1.15 1.28 1.097 1.17 1.28 1.29 1.28 1.28 1.19 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28	17 16 51 105 -2471 1828 161 304 33 21 16 19 343 571 5 1.40 1.38 1.22 1.17 0.98 1.04 1.35	21 30 29 49 1830 -7176 1684 1338 122 23 319 65 -1058 6 1.36 1.40 1.32 1.22 1.28 1.04 0.98 1.04 1.08 1.08	4 4 6 5 1668 -2880 383 1853 51 100 19 77 1 30 1.34 1.25 1.35 1.04 0.97 1.02	24 16 46 12 311 1642 455 -3208 862 340 161 64 119 13 898 8 1.25 1.27 1.18 1.31 1.09 1.02 0.98 1.05	8 9 22 11 11 11 39 369 197 874 -3397 850 215 392 132 14 -263 122 121 133 130 122 118 105 0.97	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8 -80 125 1.23 1.23 1.23 1.23 1.23 1.23 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28	8 4 15 3 3 21 30 8 8 163 242 38 -725 146 81 5 38 121 118 121 117 129 128 123 120 114 1.08	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6 490 12 1.34 1.24 1.20 1.33 1.34 1.28 1.28 1.23 1.18 1.15 1.08	695 36 89 20 111 293 64 140 188 131 65 1717 13904 53 17507 13 1.17 1.33 1.27 1.40 1.36 1.34 1.32 1.31 1.32 1.31 1.32 1.32 1.33 1.34 1.35 1.34 1.35	17 33 27 198 338 117 10 20 12 8 5 6 160 514 1456 1.19 1.14 1.10 1.36 1.11 1.14 1.10	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 7 8 9 10 11 2 2 3 4 4 5 6 6 7 7 8 9 10 11 12 13 14 15 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-1282 226 238 142 17 23 5 26 8 4 10 15 873 11 335 tor 1 0.99 1.17 1.16 1.27 1.40 1.37 1.31 1.25 1.25 1.25 1.25 1.25 1.27 1.37	225 -995 189 434 15 31 5 16 8 4 4 5 38 25 4 2 117 0.99 1.11 1.14 1.39 1.40 1.35 1.27 1.22 1.22 1.20 1.24	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23 304 31.16 1.12 0.95 1.30 1.27 1.19 1.23 1.21 1.12 1.13 1.21 1.23	124 428 824 -2139 97 54 5 14 113 2 3 26 204 -345 4 128 115 128 0.97 117 128 129 128 131 131 131 131	17 16 51 105 -2471 1828 161 304 33 21 16 19 129 343 571 5 1.40 1.38 1.22 1.17 0.98 1.04 1.35 1.15 1.30 1.35 1.15 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30	21 30 29 49 1830 -7176 1684 1539 348 122 25 56 319 65 -1058 6 1.36 1.40 1.32 1.28 1.04 0.98 1.04 1.08 1.02 1.08 1.02 1.08	4 4 4 6 5 1668 -2880 383 185 511 10 19 7 7 1.30 1.34 1.26 1.29 1.35 1.04 0.97 1.02 1.16 1.19	24 16 48 12 311 1642 455 -3208 862 340 161 64 159 898 8 1.25 1.27 1.18 1.31 1.15 1.09 1.02 0.98 1.05 1	8 9 22 11 39 369 197 874 -3397 850 215 392 14 -263 124 122 121 133 130 122 118 1.05 0.97 1.08 1.13	4 4 9 3 20 117 46 328 841 -2130 41 547 103 8 -80 10 125 1.23 1.20 1.33 1.39 1.28 1.24 1.20 1.02 0.99 1.17 1.07	8 4 15 3 21 300 8 163 242 38 -725 146 81 5 5 38 121 117 129 128 123 120 114 1.08 119 0.97 1.11	14 6 8 3 3 18 58 21 75 3900 508 184 -2562 1760 490 12 1.34 1.24 1.20 1.33 1.34 1.23 1.18 1.15 1.096	695 36 89 20 1111 293 64 140 188 131 65 1717 13904 53 17507 13 1.17 1.33 1.27 1.40 1.34 1.32 1.31 1.31 1.32 1.31 1.32 1.31 1.32 1.31 1.32 1.31 1.32 1.33 1.34 1.34 1.34 1.35	17 33 27 198 338 117 10 20 12 8 5 6 160 514 1466 1.19 1.18 1.14 1.10 1.36 1.31 1.26 1.26 1.26 1.26 1.26	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.000
1 2 3 4 5 6 7 8 9 10 11 12 2 3 4 5 6 7 7 8 9 10 11 12 13 14 Total	1282 228 228 142 17 23 5 26 8 4 10 10 13 873 11 335 11 0.99 1.17 1.40 1.37 1.40 1.37 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	225 -995 189 434 15 31 5 16 8 4 4 4 5 38 25 4 2 117 0.99 111 114 139 140 137 127 122 122 122 124 131	270 199 -1381 885 48 30 8 47 24 10 16 16 8 117 23 304 3 1.16 1.12 0.95 1.30 1.22 1.33 1.27 1.19 1.23 1.21 1.23	124 428 824 -2139 97 54 5 14 111 3 2 2 3 3 2 6 204 -345 128 1.15 1.28 1.29 1.28 1.29 1.28 1.28 1.15 1.28 1.29 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28	17 16 51 105 -2471 1828 161 304 33 21 16 19 343 571 5 1.40 1.38 1.22 1.17 0.98 1.04 1.35 1.15 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30	21 30 29 49 1830 -7176 1684 1338 122 23 348 122 25 55 -1058 6 1.36 1.40 1.32 1.28 1.04 1.08 1.04 1.08 1.02 1.22 1.28 1.22 1.23 1.24 1.24 1.25 1.26 1.27 1.28 1.28 1.29 1.29 1.20	4 4 6 5 1648 -2880 383 185 51 100 19 77 1,30 1,34 1,25 1,04 0,97 1,02 1,16 1,24 1,19 1,24 1,19 1,24 1,19	24 16 46 12 311 1642 455 -3208 862 340 161 64 179 13 898 8 1.25 1.27 1.18 1.31 1.09 1.02 0.98 1.05 1.01 1.01 1.02 1.03 1.0	8 9 22 11 33 9 369 197 874 -3397 850 215 392 132 14 -263 122 121 133 130 122 118 105 0.97 1.02 1.08 1.13 1.26	4 4 9 3 20 117 46 328 841 -2150 41 547 103 8 -80 10 1.25 1.23 1.23 1.23 1.23 1.24 1.02 0.99 1.17 1.07	8 4 15 3 3 21 30 8 8 163 242 38 -725 146 81 5 38 121 118 121 117 129 128 123 120 114 1.08 119 0.97 111 125	14 6 8 3 18 58 21 75 390 508 184 -2562 1760 6 490 12 1.34 1.24 1.24 1.23 1.33 1.34 1.28 1.23 1.15 1.08	695 36 89 20 111 293 64 140 188 131 65 1717 13904 53 17507 13 1.17 1.33 1.27 1.40 1.36 1.34 1.32 1.31 1.21 1.26 1.21 1.26 1.21 1.26 1.21 1.26 1.21 1.21 1.26 1.21 1.21 1.21 1.21 1.22 1.26 1.21 1.21 1.21 1.22 1.26 1.21 1.21 1.22 1.24 1.25 1.26 1.27 1.27 1.27 1.28 1.29 1.29 1.20	17 33 27 198 338 117 10 20 12 8 5 6 160 514 1456 1.19 1.14 1.10 1.36 1.14 1.10 1.36 1.26 1.26 1.29 1.25 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 4 5 6 6 7 8 9 10 11 12 12 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-1282 226 238 142 17 23 5 26 8 4 10 15 873 11 335 tor 1 0.99 1.17 1.16 1.27 1.40 1.37 1.31 1.25 1.25 1.25 1.25 1.25 1.27 1.37	225 -995 189 434 15 31 5 16 8 4 4 5 38 25 4 2 117 0.99 1.11 1.14 1.39 1.40 1.35 1.27 1.22 1.22 1.20 1.24	270 199 -1381 885 48 30 8 47 24 10 16 8 117 23 304 31.16 1.12 0.95 1.30 1.27 1.19 1.23 1.21 1.12 1.13 1.21 1.23	124 428 824 -2139 97 54 5 14 113 2 3 26 204 -345 4 128 115 128 0.97 117 128 129 128 131 131 131 131	17 16 51 105 -2471 1828 161 304 33 21 16 19 129 343 571 5 1.40 1.38 1.22 1.17 0.98 1.04 1.35 1.15 1.30 1.35 1.15 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30	21 30 29 49 1830 -7176 1684 1539 348 122 25 56 319 65 -1058 6 1.36 1.40 1.32 1.28 1.04 0.98 1.04 1.08 1.02 1.08 1.02 1.08	4 4 4 6 5 1668 -2880 383 185 511 10 19 7 7 1.30 1.34 1.26 1.29 1.35 1.04 0.97 1.02 1.16 1.19	24 16 48 12 311 1642 455 -3208 862 340 161 64 159 898 8 1.25 1.27 1.18 1.31 1.15 1.09 1.02 0.98 1.05 1	8 9 22 11 39 369 197 874 -3397 850 215 392 14 -263 124 122 121 133 130 122 118 1.05 0.97 1.08 1.13	4 4 9 3 20 117 46 328 841 -2130 41 547 103 8 -80 10 125 1.23 1.20 1.33 1.39 1.28 1.24 1.20 1.02 0.99 1.17 1.07	8 4 15 3 21 300 8 163 242 38 -725 146 81 5 5 38 121 117 129 128 123 120 114 1.08 119 0.97 1.11	14 6 8 3 3 18 58 21 75 3900 508 184 -2562 1760 490 12 1.34 1.24 1.20 1.33 1.34 1.23 1.18 1.15 1.096	695 36 89 20 1111 293 64 140 188 131 65 1717 13904 53 17507 13 1.17 1.33 1.27 1.40 1.34 1.32 1.31 1.31 1.32 1.31 1.32 1.31 1.32 1.31 1.32 1.31 1.32 1.33 1.34 1.34 1.34 1.35	17 33 27 198 338 117 10 20 12 8 5 6 160 514 1466 1.19 1.18 1.14 1.10 1.36 1.31 1.26 1.26 1.26 1.26 1.26	150 15 191 -269 561 -937 -213 719 -242 -60 27 436 17872 1295 19547 Total 1.000



	2044														
Reference C	ase - 2044 - 1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
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2	995	9074 1209	1179 2204	1512 543	103 199	154 139	34	97 295	56 123	31 97	26 125	35 69	1312 2711	825	15479 9568
4	1175	1544	500	8325	689	731	21	196	61	13	27	24	1284	1745	16335
5	75	100	204	746	16810	9843	504	1527	364	189	182	116	1369	2385	34412
6 7	97 20	159 20	141 36	749 21	10096 538	54898 5929	6226 12951	6740 3081	2447 762	1198 423	545 156	514 189	4286 998	780 76	88875 25200
8	186	109	338	206	1531	6608	3054	17962	4337	1813	752	603	4389	204	42091
9	54	50	112	58	337	2136	698	3751	16108	5839	511	966	4070	109	34799
10 11	24 117	28 29	94 143	13 26	194 163	1251 553	441 186	1629 682	5604 530	16888 353	298 1916	1660 406	3955 1715	58 75	32138 6894
12	81	33	66	23	118	516	200	598	1181	2047	400	5432	8308	49	19051
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Total	24010	10102	11033	1/304	30013	03023	23/63	42/43	36130	33333	7703	17555	0141423	//1512	3273320
DM - 2044 -		_	_												
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1 2	1546	8070	1327	1683	120	188	22	114	65	35	30	41	1545	618	15404
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5 6	91 123	116 199	226 172	840 944	15718 11158	10121 49972	602 6080	1728 7399	422 3049	226 1483	210 731	134 629	1585 5281	2652 1016	34671 88235
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9 10	64 29	59 32	130 107	70 15	388 235	2560 1552	824 559	3982 1959	14150 5262	5512 14927	529 356	1168	5090 4927	132 71	34659 31951
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13 14	8737 693	1986 832	4279 1621	2351 2626	1980 4620	6557 1650	1582 144	6726 416	5125 233	5180 99	2967 171	10605	8103481 12217	11682 752194	8173237 777632
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n:															
Difference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-1106	195	98	218	14	22	4	24	10	4	9	18	568	53	131
1 2	-1106 211	195 -1004	98 148	218 170	14 17	22 33	4	24 16	10 10	4 5	9 4	18 6	568 233	53 72	131 -75
1	-1106	195	98	218	14	22	4	24	10	4	9	18	568	53	131
1 2 3 4 5	-1106 211 94 250 17	195 -1004 87 169 17	98 148 -518 45 23	218 170 31 -1350 94	14 17 19 93 -1092	22 33 24 159 278	4 3 6 4 99	24 16 29 37 201	10 10 14 14 59	4 5 10 2 36	9 4 9 5 28	18 6 6 5	568 233 295 281 216	53 72 74 244 267	131 -75 180 -41 259
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1 2 3 4 5 6 7 8	-1106 211 94 250 17 26 6 39	195 -1004 87 169 17 40 5 23	98 148 -518 45 23 31 8 57	218 170 31 -1350 94 195 5 43	14 17 19 93 -1092 1063 153 231	22 33 24 159 278 -4927 -60 293 424	4 3 6 4 99 -146 -1050 -132 125	24 16 29 37 201 659 52 -2151 231	10 10 14 14 59 602 187 202 -1958	4 5 10 2 36 285 126 313 -327	9 4 9 5 28 186 58 104	18 6 5 18 115 48 128 202	568 233 295 281 216 995 248 833 1021	53 72 74 244 267 236 23 44 23	131 -75 180 -41 259 -639 -191 28 -140
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1 2 3 4 5 6 7 8 9 10 11 12 13	-1106 211 94 250 17 26 6 39 10 4 17 18	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80	98 148 -518 45 23 31 8 57 18 14 15 7	218 170 31 -1350 94 195 5 43 13 2 4 477 306	14 17 19 93 -1092 1063 153 231 51 42 19 16 294 539	22 33 24 159 278 -4927 -60 293 424 301 84 77 1095 342	4 3 6 4 99 -146 -1050 -132 125 118 26 31 281	24 16 29 37 201 659 52 -2151 231 329 51 81 1045 75	10 10 14 14 14 59 602 187 202 -1958 -342 -32 85 814	4 5 10 2 36 285 126 313 -327 -1961 40 107 824 18	9 4 9 5 28 186 58 104 18 59 -412 11 434 27	18 6 6 5 18 115 48 128 202 260 24 -1034 1259	568 233 295 281 216 995 248 833 1021 972 229 814 12405 2117	53 72 74 244 267 236 23 44 23 112 10 8 2011 -2465	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1105 211 94 250 17 26 6 39 10 4 17 18 1038 122 747	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38	98 148 -518 43 23 31 8 57 18 14 15 7 608 224	218 170 31 -1350 94 195 5 43 13 2 2 4 4 77 306 212	14 17 19 9 1063 153 231 51 42 19 16 294 539	22 33 24 159 278 -4927 -60 293 424 301 84 77 1095 342 -1854	4 3 6 4 99 -146 -1050 -132 125 118 26 31 281 31 -600	24 16 29 37 201 659 52 -2151 231 329 51 81 1045 75 681	10 10 14 14 15 59 602 187 202 -1958 -342 -32 85 814 45 -293	4 5 10 2 36 285 126 313 -327 -1961 40 107 824 18 -517	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540	18 6 6 7 18 115 115 128 202 260 24 -1034 1259 22 1078	568 233 295 281 266 995 248 833 1021 972 229 814 12405 2117 21227	53 72 74 244 267 236 44 23 112 10 8 2011 -2465 612	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483 24031
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1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1106 211 94 250 17 26 6 39 10 4 17 18 1038 122 747 100 11.16 1.09 1.16 1.16 1.16 1.12 1.16	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38	98 148 -518 45 23 31 8 57 18 14 15 7 608 224 778 3 1.10 1.13 0.77 1.09	218 170 31 -1350 94 195 5 43 13 2 4 4 477 306 212 4 1.19 1.11 1.06 0.84 1.13	14 17 19 93 -1092 1063 153 231 51 42 19 16 294 539 1460 5 1.20 1.17 1.09 1.14	22 33 24 179 179 179 179 179 179 179 179 179 179	4 3 6 4 99 -146 -1050 -132 125 118 26 31 281 31 -600 7 1.22 1.18 1.17 1.19	24 16 29 37 201 659 52 -2151 231 329 51 1045 75 681	10 10 14 14 59 602 187 -32 -32 -32 85 814 45 -293 9 1.17 1.17 1.17 1.11 1.12 1.16	4 5 10 2 36 285 126 313 -327 -1961 40 107 824 18 -517	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540 11 1.09 1.15 1.07	18 6 6 5 18 115 48 128 202 260 24 -1034 1259 22 1078 12 122 1.18 1.09 1.22 1.15	568 233 293 281 216 995 248 833 1021 972 229 814 12405 2117 21227	53 72 74 244 267 236 23 44 23 12 10 8 2011 -2465 612 14 1.16 1.13 1.09 1.14 1.11	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483 24031 Total 1.01 1.00 1.02 1.00 1.01
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1106 211 94 250 17 26 6 39 10 4 17 18 1038 122 747 26 10 10 11 10 10 11 11 11 12 13 14 15 16 16 17 18 10 10 10 10 10 10 10 10 10 10	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38	98 148 -518 45 23 31 8 57 18 14 15 7 608 224 778	218 170 31 -1350 94 195 5 43 13 2 4 4 477 306 212	14 17 19 9 -1092 1063 153 231 51 42 19 16 294 539 1460	22 33 24 159 278 -4927 -60 293 424 301 84 77 1095 342 -1854	4 3 6 4 99 -146 -1050 -132 125 118 26 31 281 31 -600 7	24 16 29 37 201 659 52 -2151 231 329 51 81 1045 75 681	10 10 14 14 15 59 602 187 202 -1958 -342 -32 85 814 45 -293	4 5 10 2 36 285 126 313 -327 -1961 40 107 824 18 -517	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540 11 1.09 1.15 1.07 1.19	18 6 6 5 5 18 8 115 48 128 200 24 -1034 1259 22 1078 12 1.22 1.18 1.09 1.22	568 233 295 281 216 995 248 833 1021 972 229 814 12405 2117 21227	53 72 74 244 267 236 23 44 23 12 10 8 2011 -2465 612 14 1.16 1.16 1.09 1.14	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483 24031 Total 1.00 1.02
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Growth Fact	-1106 211 94 250 17 26 6 39 10 4 17 18 1032 747 207 109 1.16 1.09 1.21 1.22 1.22 1.23 1.21	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38 2 115 0.89 1.07 1.11 1.17 1.25 1.23 1.21	98 148 -518 43 23 31 8 57 18 14 15 7 608 224 778 3 1.10 1.13 0.77 1.09 1.11 1.22 1.24	218 170 31 -1350 94 195 5 43 13 2 4 4 47 77 306 212 4 119 111 1.06 0.84 1.13 1.26 1.23 1.21	14 17 19 93 -1092 1063 153 231 51 42 19 16 294 539 1460 5 120 1.17 1.09 1.14 0.94 1.11	22 33 24 159 278 -4927 -60 293 424 301 84 777 1095 342 -1854 6 123 122 1.18 1.22 1.03 0.91 0.99	4 3 6 4 99 -146 -1050 -132 125 118 26 31 281 31 -600 7 7 1.22 1.18 1.17 1.19 1.20 0.98	24 16 29 37 201 659 52 -2151 231 329 51 81 1045 75 681 8 1.15 1.17 1.10 1.19 1.13 1.10 1.02 0.88	10 10 14 14 14 59 602 187 202 -1958 -342 -32 85 814 45 -293	4 5 10 2 36 285 126 313 -327 -1961 40 107 824 18 -517	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540 11 1.09 1.15 1.07 1.19 1.15 1.34 1.37 1.14	18 6 6 5 18 115 48 128 200 24 -1034 1259 22 1078 122 1.18 1.09 1.22 1.15 1.26 1.21	568 233 295 281 216 995 248 833 1021 972 229 814 12405 2117 21227	53 72 74 244 267 236 23 44 23 12 10 8 2011 -2465 612 14 1.16 1.13 1.09 1.14 1.11 1.30 1.31	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483 24031 Total 1.00 1.02 1.00 1.01 0.99 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1106 211 94 250 17 26 6 39 10 4 17 18 1038 122 747 100 1.16 1.09 1.21 1.22 1.27 1.21 1.22 1.27 1.28 1.21	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38 2 115 0.89 107 111 117 125 123 121 118	98 148 -518 45 23 31 8 57 18 14 15 7 608 224 778 3 1.10 1.13 0.77 1.09 1.11 1.22 1.24 1.17 1.16	218 170 31 -1350 94 195 5 43 13 2 4 4 477 306 212 4 1.19 1.11 1.06 0.84 1.13 1.26 1.21 1.21	14 17 19 93 -1092 1063 153 231 42 19 16 294 539 1460 5 1.20 1.17 1.09 1.14 0.94 1.11 1.28	22 33 24 159 278 -4927 -60 293 424 301 84 7 1095 342 -1854 6 1.23 1.22 1.03 0.91 0.99 1.04 1.20	4 3 6 4 99 -146 -1050 -132 125 118 26 31 -600 7 1.22 1.18 1.17 1.20 0.98 0.92 0.96 1.18	24 16 29 37 201 659 52 -2151 231 329 51 81 1045 75 681	10 10 14 14 59 602 187 -32 -32 -32 -32 814 45 -293 9 1.17 1.17 1.17 1.17 1.11 1.12 1.16 1.25 1.24 1.05 0.88	4 5 10 2 36 285 126 313 -327 -1961 407 824 18 -517 10 1.16 1.15 1.10 1.18 1.19 1.24 1.30 1.17 0.94	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540 11 1.09 1.15 1.07 1.19 1.15 1.34 1.37 1.14 1.04	18 6 6 5 18 115 48 128 2002 260 24 -1034 1259 22 1078 122 1.18 1.09 1.22 1.15 1.22 1.26 1.21	568 233 295 281 216 995 248 833 1021 972 229 814 12405 2117 21227	53 72 74 244 267 236 23 12 10 8 2011 -2465 612 14 1.16 1.13 1.09 1.14 1.11 1.30 1.31 1.22 2.12 1.21	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483 24031 Total 1.00 1.00 1.00 1.01 0.99 0.99 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 4 5 6 6 7 8 9 10 10 11 10 10 10 10 10 10 10 10 10 10	-1106 211 94 250 17 26 6 39 10 4 17 17 28 1038 1038 1022 747 11 0.91 1.16 1.09 1.21 1.22 1.27 1.28 1.21 1.19 1.18	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38 2 115 0.89 1.07 111 1.17 1.25 1.23 1.21 1.18 1.16	98 148 -518 45 23 31 8 57 18 14 15 76 608 224 778 3 1.10 1.13 0.77 1.09 1.11 1.22 1.24 1.15 1.16 1.15	218 170 31 -1350 94 195 5 43 13 2 4 4 477 306 212 4 119 111 1.06 0.84 1.13 1.26 1.23 1.21 1.22 1.18	14 17 19 93 -1092 1063 153 231 51 42 19 166 294 539 1460 5 1.20 1.17 1.09 1.14 0.94 1.11 1.28 1.15	22 33 24 29 178 -4927 -60 293 424 301 84 71 1095 342 -1854 6 123 122 1.18 1.22 1.03 0.91 0.99 1.04 1.04 1.05 1.0	4 3 6 4 99 -146 -1050 -132 125 118 26 31 -600 77 1.22 1.18 1.17 1.19 1.20 0.98 0.92 0.96 1.18 1.27	24 16 29 37 201 659 52 -2151 231 329 51 1045 75 681 8 1.15 1.17 1.10 1.02 0.88 1.04 1.13 1.10 1.02 0.88 1.06 1.20	10 10 14 14 159 602 187 -342 -32 85 814 45 -293 9 1.17 1.17 1.17 1.12 1.16 1.25 1.24 1.08 0.94	4 5 10 2 36 285 126 313 -327 -1961 40 107 824 18 -517 10 1.16 1.15 1.10 1.18 1.19 1.24 1.30 1.17 0.94 0.88	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540 11 1.09 1.15 1.07 1.19 1.15 1.34 1.37 1.14 1.04 1.20	18 6 6 5 18 115 48 128 202 260 24 -1034 1259 22 1078 122 1.18 1.09 1.22 1.26 1.21 1.21 1.21	568 233 293 281 216 995 248 833 1021 972 229 814 12405 2117 21227 13 1.10 1.18 1.11 1.22 1.16 1.23 1.25 1.25	53 72 74 244 267 236 23 44 23 3 12 10 8 2011 -2465 612 14 1.16 1.13 1.09 1.14 1.11 1.30 1.31 1.22 1.21	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 1483 24031 Total 1.01 1.00 1.02 1.00 1.01 0.99 0.99 1.00 0.99
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1106 211 94 250 17 26 6 39 10 4 17 18 1038 122 747 100 1.16 1.09 1.21 1.22 1.27 1.21 1.22 1.27 1.28 1.21	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38 2 115 0.89 107 111 117 125 123 121 118	98 148 -518 45 23 31 8 57 18 14 15 7 608 224 778 3 1.10 1.13 0.77 1.09 1.11 1.22 1.24 1.17 1.16	218 170 31 -1350 94 195 5 43 13 2 4 4 477 306 212 4 1.19 1.11 1.06 0.84 1.13 1.26 1.21 1.21	14 17 19 93 -1092 1063 153 231 42 19 16 294 539 1460 5 1.20 1.17 1.09 1.14 0.94 1.11 1.28	22 33 24 159 278 -4927 -60 293 424 301 84 7 1095 342 -1854 6 1.23 1.22 1.03 0.91 0.99 1.04 1.20	4 3 6 4 99 -146 -1050 -132 125 118 26 31 -600 7 1.22 1.18 1.17 1.20 0.98 0.92 0.96 1.18	24 16 29 37 201 659 52 -2151 231 329 51 81 1045 75 681	10 10 14 14 59 602 187 -32 -32 -32 -32 814 45 -293 9 1.17 1.17 1.17 1.17 1.11 1.12 1.16 1.25 1.24 1.05 0.88	4 5 10 2 36 285 126 313 -327 -1961 407 824 18 -517 10 1.16 1.15 1.10 1.18 1.19 1.24 1.30 1.17 0.94	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540 11 1.09 1.15 1.07 1.19 1.15 1.34 1.37 1.14 1.04	18 6 6 5 18 115 48 128 2002 260 24 -1034 1259 22 1078 122 1.18 1.09 1.22 1.15 1.22 1.26 1.21	568 233 295 281 216 995 248 833 1021 972 229 814 12405 2117 21227	53 72 74 244 267 236 23 12 10 8 2011 -2465 612 14 1.16 1.13 1.09 1.14 1.11 1.30 1.31 1.22 2.12 1.21	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483 24031 Total 1.00 1.00 1.00 1.01 0.99 0.99 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 4 5 6 6 7 7 8 9 10 11 12 13 14 Total	-1106 211 94 250 17 26 6 39 10 4 17 18 1038 122 747 1.16 1.09 1.21 1.22 1.27 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.22 1.27 1.28 1.21 1.21 1.22 1.27 1.28 1.21 1.21 1.22 1.27 1.28 1.21 1.21 1.22 1.27 1.28 1.21 1.21 1.22 1.27 1.28 1.21 1.21 1.22 1.27 1.28 1.21 1.21 1.22 1.27 1.28 1.29 1.21 1.21 1.22 1.27 1.28 1.21 1.21 1.22 1.27 1.28 1.29 1.21 1.21 1.21 1.22 1.27 1.28 1.29 1.21 1.21 1.21 1.22 1.27 1.28 1.21 1.21 1.21 1.22 1.27 1.28 1.29 1.21 1.21 1.21 1.22 1.27 1.28 1.29 1.21 1.21 1.22 1.27 1.28 1.29 1.21 1.21 1.22 1.27 1.28 1.29 1.21 1.29 1.21 1.21 1.22 1.27 1.28 1.21 1.23 1.24 1.24 1.25 1.27 1.28 1.29 1.21 1.29 1.21 1.23 1.24 1.24 1.25	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38 2 115 0.89 107 111 117 125 123 121 118 116 114 115 120	98 148 -518 45 23 31 8 57 18 14 15 7 608 224 778 3 1.10 1.13 0.77 1.09 1.11 1.22 1.24 1.17 1.16 1.15 1.10 1.11	218 170 31 -1350 94 195 5 43 13 2 4 4 477 306 212 4 1.19 1.11 1.06 0.84 1.13 1.26 1.21 1.22 1.18 1.17	14 17 19 93 -1092 1063 153 231 42 19 16 294 539 1460 5 1.20 1.17 1.09 1.14 0.94 1.11 1.22 1.15 1.15 1.15 1.15	22 33 24 159 278 -4927 -60 293 424 301 84 71 1095 342 -1854 6 1.23 1.22 1.03 0.91 0.99 1.04 1.20 1.24 1.15 1.20	4 3 6 4 99 -146 -1050 -132 125 118 26 31 -600 7 1.22 1.18 1.17 1.20 0.98 0.92 0.96 1.18 1.27 1.14 1.15	24 16 29 37 201 659 52 -2151 231 329 51 81 1045 75 681 8 1.15 1.17 1.10 1.02 0.88 1.06 1.20 1.08 1.13 1.10	10 10 14 14 59 602 187 -32 -32 -32 -32 -32 -32 -31 -45 -293 -117 1.17 1.17 1.17 1.16 1.25 1.24 1.05 0.88 0.94 0.94	4 5 10 2 36 285 126 313 -327 -1961 407 824 18 -517 10 1.16 1.15 1.10 1.18 1.19 1.24 1.30 1.17 0.88 1.11 1.05 1.19	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540 11 1.09 1.15 1.07 1.19 1.15 1.34 1.37 1.14 1.04 1.20 0.78	18 6 6 5 18 115 48 128 2002 260 24 -1034 1259 22 1078 122 1.15 1.22 1.15 1.21 1.16 1.06 0.81 1.13	368 233 295 281 216 995 248 833 1021 972 229 814 12405 2117 21227 13 1.10 1.18 1.11 1.22 1.16 1.23 1.25 1.19 1.25 1.19	53 72 74 244 267 236 23 12 10 8 2011 -2465 612 14 1.16 1.13 1.09 1.14 1.11 1.30 1.31 1.22 1.21 1.21 1.21	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483 24031 Total 1.00 1.00 1.00 1.00 0.99 0.99 1.00 0.999 1.001 1.001 1.001
1 2 3 4 5 6 6 7 7 8 9 10 11 12 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-1106 211 94 250 17 26 6 39 10 4 17 18 1038 1038 122 747 109 1.16 1.09 1.21 1.22 1.21 1.19 1.21 1.22 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.22 1.23	195 -1004 87 169 17 40 5 23 9 4 4 5 328 80 -38 2 115 0.89 1.07 1.11 1.17 1.25 1.23 1.21 1.18 1.16 1.14 1.15	98 148 -518 45 23 31 8 57 18 14 15 7 608 224 778 3 1.10 1.13 0.77 1.09 1.11 1.22 1.24 1.17 1.16 1.15 1.10 1.11	218 170 31 -1350 94 195 5 43 13 2 4 4 477 306 212 4 119 1.11 1.06 0.84 1.13 1.26 1.23 1.21 1.22 1.15 1.17	14 17 19 93 -1092 1063 153 231 51 42 19 16 294 539 1460 5 1.20 1.17 1.09 1.14 0.94 1.11 1.28 1.15 1.15 1.15	22 33 24 159 278 -4927 -60 293 424 301 84 77 1095 342 -1854 6 123 122 1.18 1.22 1.09 1.09 1.04 1.20 1.20 1.21 1.21 1.22 1.03 0.91 0.99 1.04 1.20 1.20 1.21 1.21 1.22 1.33 1.22 1.35 1.22 1.35 1.	4 3 6 4 99 -146 -1050 -132 128 118 26 31 281 31 -600 7 1.22 1.18 1.17 1.19 1.20 0.98 0.92 0.96 1.18 1.27	24 16 29 37 201 659 52 -2151 231 329 51 81 1045 75 681 8 1.15 1.17 1.10 1.19 1.13 1.06 1.08 1.08 1.13	10 10 14 14 14 159 602 187 202 -1958 -342 -32 85 814 45 -293 -117 1.17 1.11 1.23 1.16 1.25 1.24 1.05 0.88 0.94 0.94	4 5 10 2 36 285 126 313 -327 -1961 40 107 824 18 -517 10 1.16 1.15 1.10 1.18 1.19 1.24 1.30 1.17 0.94 0.84 1.11 1.05	9 4 9 5 28 186 58 104 18 59 -412 11 434 27 540 11 1.09 1.15 1.07 1.19 1.15 1.34 1.37 1.14 1.04 1.00 1.03	18 6 6 5 18 115 48 128 202 260 24 -1034 1259 22 1078 122 1.18 1.09 1.22 1.15 1.22 1.26 1.21 1.26 1.21 1.26 1.06 0.81	568 233 295 281 216 995 248 833 1021 972 229 814 12405 2117 21227 13 1.10 1.18 1.11 1.22 1.16 1.23 1.25 1.19 1.25 1.13 1.10	53 72 74 244 267 236 23 44 23 10 8 2011 -2465 612 14 1.16 1.13 1.09 1.14 1.11 1.30 1.31 1.22 1.21 1.21	131 -75 180 -41 259 -639 -191 28 -140 -187 79 229 22914 1483 24031 Total 1.00 1.02 1.00 1.02 1.00 1.01 0.99 0.99 1.00 0.99 1.01 1.01



Reference (Tase - 2044	- 1162													
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1	91904	2437	2245	754	22	34	7	72	16	19	22	41	7146	30	104750
2	2437 2245	96286 2535	2535 24487	5464 6802	45 530	52 126	9 44	44 360	20 52	11 32	5 21	17 14	173 360	254 116	107353 37724
4	754	3464	6802	70439	1037	150	11	55	9	11	2	3	122	1360	86219
5	22	45	530	1037	118756	51963	1028	2995	253	88	39	37	176	2518	179488
6	34	52	126	150	51963	440268	36334	24376	2298	803	137	157	442	88	557228
7 8	7 72	9 44	44 360	11 55	1028 2995	36334 24376	125776 26329	26329 174550	2102 25974	444 3206	53 1736	65 699	111 392	7 21	192320 260808
9	16	20	52	9	253	2298	2102	25974	140211	43880	5033	4131	365	13	224357
10	19	11	32	11	88	803	444	3206	43880	165588	494	7541	445	2	222563
11	22	5	21	2	39	137	53	1736	5033	494	15485	2494	589	3	26113
12 13	41 7146	17 173	14 360	122	37 176	157 442	65 111	699 392	4131 365	7541 445	2494 589	44628	8699 27761924	9 665	68537 27781610
14	30	254	116	1360	2518	88	7	21	13	2	3	9	665	2771556	2776642
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DM - 2044 -	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
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2	3086	93841	2878	6772	61	80	14	63	29	16	7	25	251	312	107433
3	2712	2878	21439	8667	608	167	57	423	66	38	28	18	493	146	37739
4	1099	6772	8667	66323	1251	215	15	79	14	16	3	4	205	1601	86263
5 6	34 56	61 80	608 167	1251 215	113566 55418	55418 431585	1434 38248	3553 26650	335 2862	124 1036	48 172	51 201	249 653	2861 133	179593 557476
7	11	14	57	15	1434	38248	121921	27215	2550	564	66	83	160	11	192348
8	98	63	423	79	3553	26650	27215	167577	27840	3901	2024	864	559	29	260875
9	22	29	66	14	335	2862	2550	27840	134809	45004 162340	5523	4913	520	20	224508
10 11	27 26	16 7	38 28	16 3	124 48	1036 172	564 66	3901 2024	45004 5523	606	606 14006	8417 2827	635 779	3 5	222727 26121
12	68	25	18	4	51	201	83	864	4913	8417	2827	40864	10249	13	68597
13	8192	251	493	205	249	653	160	559	520	635	779	10249	7881275	1032	27905251
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Difference															
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1 2	-2495 649						4		7 8	8 4		26 7	1045 78	14 58	135 80
1	-2495	649 -2445	467 342	345 1308	12 16	21 28	4	26 18	7	8	5 2	26	1045	14	135
1 2 3 4 5	-2495 649 467 345	649 -2445 342 1308	467 342 -3047 1865 77	345 1308 1865 -4116 214	12 16 77 214 -5190	21 28 41 64 3455	4 4 13 4 406	26 18 62 24 559	7 8 15 4 82	8 4 6 5 36	5 2 7 1 9	26 7 4 1	1045 78 133 82 73	14 58 30 241 343	135 80 14 44 105
1 2 3 4 5	-2495 649 467 345 12	649 -2445 342 1308 16 28	467 342 -3047 1865 77 41	345 1308 1865 -4116 214 64	12 16 77 214 -5190 3455	21 28 41 64 3455 -8682	4 4 13 4 406 1914	26 18 62 24 559 2274	7 8 15 4 82 564	8 4 6 5 36 234	5 2 7 1 9	26 7 4 1 13 45	1045 78 133 82 73 211	14 58 30 241 343 45	135 80 14 44 105 248
1 2 3 4 5 6	-2495 649 467 345	649 -2445 342 1308	467 342 -3047 1865 77	345 1308 1865 -4116 214	12 16 77 214 -5190	21 28 41 64 3455	4 4 13 4 406	26 18 62 24 559 2274 886	7 8 15 4 82	8 4 6 5 36	5 2 7 1 9	26 7 4 1	1045 78 133 82 73	14 58 30 241 343 45	135 80 14 44 105 248 28
1 2 3 4 5	-2495 649 467 345 12 21	649 -2445 342 1308 16 28 4	467 342 -3047 1865 77 41 13	345 1308 1865 -4116 214 64	12 16 77 214 -5190 3455 406	21 28 41 64 3455 -8682 1914	4 4 13 4 406 1914 -3855	26 18 62 24 559 2274	7 8 15 4 82 564 448	8 4 6 5 36 234 120	5 2 7 1 9 34 13	26 7 4 1 13 45	1045 78 133 82 73 211 49	14 58 30 241 343 45	135 80 14 44 105 248
1 2 3 4 5 6 7 8 9	-2495 649 467 345 12 21 4 26 7	649 -2445 342 1308 16 28 4 18 8	467 342 -3047 1865 77 41 13 62 15 6	345 1308 1865 -4116 214 64 4 24 4	12 16 77 214 -5190 3455 406 559 82 36	21 28 41 64 3455 -8682 1914 2274 564 234	4 4 13 4 406 1914 -3855 886 448 120	26 18 62 24 559 2274 886 -6973 1866 695	7 8 15 4 82 564 448 1866 -5401	8 4 6 5 36 234 120 695 1124 -3248	5 2 7 1 9 34 13 288 490	26 7 4 1 13 45 17 165 782 875	1045 78 133 82 73 211 49 167 155	14 58 30 241 343 45 4 9 6	135 80 14 44 105 248 28 67 151
1 2 3 4 5 6 7 8 9	-2495 649 467 345 12 21 4 26 7 8	649 -2445 342 1308 16 28 4 18 8 4	467 342 -3047 1865 77 41 13 62 15 6	345 1308 1865 -4116 214 64 4 24 4 5	12 16 77 214 -5190 3455 406 559 82 36	21 28 41 64 3455 -8682 1914 2274 564 234	4 4 13 4 406 1914 -3855 886 448 120 13	26 18 62 24 559 2274 886 -6973 1866 695 288	7 8 15 4 82 564 448 1866 -5401 1124 490	8 4 6 3 36 234 120 695 1124 -3248	5 2 7 1 9 34 13 288 490 112 -1479	26 7 4 1 13 45 17 165 782 875 333	1045 78 133 82 73 211 49 167 155 190	14 58 30 241 343 45 4 9 6	135 80 14 44 105 248 28 67 151 163 7
1 2 3 4 5 6 7 8 9 10 11 12	-2495 649 467 345 12 21 4 26 7 8 5	649 -2445 342 1308 16 28 4 18 8 4 2	467 342 -3047 1865 77 41 13 62 15 6 7	345 1308 1865 -4116 214 64 4 24 4 5	12 16 77 214 -5190 3455 406 559 82 36 9	21 28 41 64 3455 -8682 1914 2274 564 234 34	4 4 13 4 406 1914 -3855 886 448 120 13	26 18 62 24 559 2274 886 -6973 1866 695 288 165	7 8 15 4 82 564 448 1866 -5401 1124 490 782	8 4 6 3 36 234 120 695 1124 -3248 112 875	5 2 7 1 9 34 13 288 490 112 -1479	26 7 4 1 13 45 17 165 782 875 333	1045 78 133 82 73 211 49 167 155 190 191	14 58 30 241 343 45 4 9 6	135 80 14 44 105 248 28 67 151 163 7 60
1 2 3 4 5 6 7 8 9	-2495 649 467 345 12 21 4 26 7 8	649 -2445 342 1308 16 28 4 18 8 4	467 342 -3047 1865 77 41 13 62 15 6	345 1308 1865 -4116 214 64 4 24 4 5	12 16 77 214 -5190 3455 406 559 82 36	21 28 41 64 3455 -8682 1914 2274 564 234	4 4 13 4 406 1914 -3855 886 448 120 13	26 18 62 24 559 2274 886 -6973 1866 695 288	7 8 15 4 82 564 448 1866 -5401 1124 490	8 4 6 3 36 234 120 695 1124 -3248	5 2 7 1 9 34 13 288 490 112 -1479	26 7 4 1 13 45 17 165 782 875 333	1045 78 133 82 73 211 49 167 155 190	14 58 30 241 343 45 4 9 6	135 80 14 44 105 248 28 67 151 163 7
1 2 3 4 5 6 7 8 9 10 11 12 13	-2495 649 467 345 12 21 4 26 7 8 3 26	649 -2445 342 1308 16 28 4 18 8 4 2 7 78	467 342 -3047 1865 77 41 13 62 15 6 7 4	345 1308 1865 -4116 214 64 24 4 25 1 1 82	12 16 77 214 -5190 3455 406 559 82 36 9 13	21 28 41 64 3455 -8682 1914 2274 564 234 34 45 211	4 4 4 406 1914 -3855 886 448 120 13 17 49	26 18 62 24 559 2274 886 -6973 1866 695 288 165	7 8 15 4 82 564 448 1866 -3401 1124 490 782	8 4 6 5 36 234 120 695 1124 -3248 112 875 190	5 2 7 1 9 34 13 288 490 112 -1479 333 191	26 7 4 1 13 45 17 165 782 875 333 -3764	1045 78 133 82 73 211 49 167 155 190 191 1550	14 58 30 241 343 45 4 9 6 1 2 4	135 80 14 44 105 248 67 151 163 7 60
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2495 649 467 345 12 21 4 26 7 8 5 26 1045 14 135	649 -2445 342 1308 16 28 4 18 8 4 2 7 78 58	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30	345 1308 1865 -4116 214 64 24 4 25 1 1 1 82 241	12 16 77 214 -5190 3455 406 559 82 36 9 13 73	21 28 41 64 3455 -8682 1914 2274 564 234 45 211 45	4 4 13 4 406 1914 -3855 886 448 120 13 17 49	26 18 62 24 559 2274 886 -6973 1866 695 288 165 167	7 8 15 4 82 564 448 1866 -3401 1124 490 782 155 6	8 4 6 5 36 234 120 695 1124 -3248 112 875 190	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2	26 7 4 1 13 45 17 165 782 875 333 -3764 1550 4	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367	14 58 30 241 343 45 4 9 6 1 1 2 4 367 2372	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497
1 2 3 4 5 6 7 8 9 10 11 12 13	-2495 649 467 345 12 21 4 26 7 8 5 26 1045 14 135	649 -2445 342 1308 16 28 4 18 8 4 2 7 78 58	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14	345 1308 1865 -4116 214 64 4 24 4 5 5 1 1 1 82 241	12 16 77 214 -5190 3455 406 559 82 36 9 13 73 343	21 28 41 64 3455 -8682 1914 2274 564 234 45 211 45 248	4 4 4 406 1914 -3855 886 448 120 13 17 49 4	26 18 62 24 559 2274 886 -6973 1866 695 288 165 167 9	7 8 15 4 82 564 448 1866 -5401 1124 490 782 155 6	8 4 6 3 36 234 120 693 1124 -3248 112 875 190 1	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2	26 7 4 1 13 45 17 165 782 875 333 -3764 155 4	1045 78 133 82 73 211 49 167 157 190 191 1550 119351 367	14 58 30 241 343 45 4 9 6 1 1 2 4 367 2372 3497	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2495 649 467 345 12 21 4 26 7 8 5 26 1045 14 135	649 -2445 342 1308 16 28 4 18 8 4 2 7 78 58	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30	345 1308 1865 -4116 214 64 24 4 25 1 1 1 82 241	12 16 77 214 -5190 3455 406 559 82 36 9 13 73	21 28 41 64 3455 -8682 1914 2274 564 234 45 211 45	4 4 13 4 406 1914 -3855 886 448 120 13 17 49	26 18 62 24 559 2274 886 -6973 1866 695 288 165 167	7 8 15 4 82 564 448 1866 -3401 1124 490 782 155 6	8 4 6 5 36 234 120 695 1124 -3248 112 875 190	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2	26 7 4 1 13 45 17 165 782 875 333 -3764 1550 4	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367	14 58 30 241 343 45 4 9 6 1 1 2 4 367 2372	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2495 649 467 345 12 21 4 26 7 8 5 26 1045 14 135	549 -2445 342 1308 16 28 4 18 8 4 2 7 78 58 80	467 342 -3047 1865 77 41 13 62 15 6 7 4 4 13 3 3 14	345 1308 1885 -4116 214 64 4 24 4 5 1 1 1 82 24 4 4 5 1 4 4 4 5 1 4 4 4 5 4 4 4 4 4 4	12 16 77 214 -5190 3453 406 519 82 236 9 13 343 105	21 28 41 64 3455 -8682 1914 2274 364 45 214 45 248 6 1.62 1.53	4 4 4 13 4 406 1914 -3855 886 448 120 13 17 49 4 28	26 18 62 24 539 2274 886 -693 1866 693 288 163 167 9 67	7 8 15 4 82 564 448 1866 -5401 1124 490 782 155 6 151	8 4 6 3 36 234 120 693 1124 -3248 112 873 190 1 163	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7	26 7 4 1 13 3 45 17 165 782 875 333 -3764 1550 4 60	1045 78 133 82 73 211 49 167 155 190 191 1550 119357 123641	14 58 30 241 343 45 6 6 1 1 2 4 367 2372 3497	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2495 649 467 345 122 21 4 26 7 8 5 26 1045 14 135	549 -2445 342 1308 166 28 4 18 8 4 2 7 78 80 2 127 0.97 1.13	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14	345 1308 1885 -4116 64 4 24 4 25 1 1 1 82 244 4 4 5 1 1 1 82 244 4 4 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	12 16 777 214 -5190 3455 406 559 82 36 9 13 73 343 105	21 28 41 64 3455 -8682 1914 2274 564 234 45 241 45 248 6 1.62 1.53 1.32	4 4 4 4 406 1914 -3855 886 448 120 13 17 49 4 28	26 18 62 24 539 2274 886 -6973 1866 693 288 163 167 9 67	7 8 15 4 82 364 448 1866 -3401 1124 490 782 155 6 151	8 4 6 3 36 234 120 693 1124 -3248 112 875 190 1 163	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7	26 7 4 1 13 45 17 165 782 875 333 -3764 1550 4 60	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367 123641	14 58 30 241 343 45 4 9 6 6 1 2 4 367 2372 3497	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2495 649 467 345 122 21 4 226 7 8 5 26 1045 14 135 ttor 1 0.97 1.27 1.21 1.46	649 -2445 342 1308 16 28 4 18 8 4 2 7 78 58 80 2 127 0.97 113 124	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14	345 1308 1865 -4116 214 64 4 24 4 5 5 1 1 1 82 241 44 4 1.46 1.27 0.94	12 16 77 214 -5190 3455 406 539 82 36 9 13 73 343 105	21 28 41 64 3455 -8682 1914 2274 364 43 211 45 248 6 1.62 1.32 1.43	4 4 4 406 1914 -3855 886 448 120 13 17 49 4 28	26 18 62 24 559 2274 886 -6973 1866 695 288 165 167 9 67	7 8 15 4 82 564 448 1866 -5401 1124 490 782 155 6 151	8 4 6 3 3 6 234 120 699 1124 -3248 112 875 190 1 163	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7	26 7 4 1 13 45 17 165 782 875 333 -3764 1550 4 60	1045 78 133 82 73 211 49 167 1550 191 1550 119351 367 123641	14 58 30 241 343 45 4 9 6 6 1 1 2 2 4 367 2372 3497 14 1.47 1.23 1.26 1.18	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241 Total 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2495 649 467 345 122 21 4 26 7 8 5 26 1045 14 135	549 -2445 342 1308 166 28 4 18 8 4 2 7 78 80 2 127 0.97 1.13	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14	345 1308 1885 -4116 64 4 24 4 25 1 1 1 82 244 4 4 5 1 1 1 82 244 4 4 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	12 16 777 214 -5190 3455 406 559 82 36 9 13 73 343 105	21 28 41 64 3455 -8682 1914 2274 564 234 45 241 45 248 6 1.62 1.53 1.32	4 4 4 4 406 1914 -3855 886 448 120 13 17 49 4 28	26 18 62 24 539 2274 886 -6973 1866 693 288 163 167 9 67	7 8 15 4 82 364 448 1866 -3401 1124 490 782 155 6 151	8 4 6 3 36 234 120 693 1124 -3248 112 875 190 1 163	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7	26 7 4 1 13 45 17 165 782 875 333 -3764 1550 4 60	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367 123641	14 58 30 241 343 45 4 9 6 6 1 2 4 367 2372 3497	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total 1 2 3 4 5 6 7 7	-2495 649 467 345 12 21 4 26 6 7 8 5 26 1045 14 135 tor 1 0.97 1.27 1.21 1.46 1.57	549 -2445 342 1308 16 28 4 18 8 4 2 7 78 58 80	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14	345 1308 1885 -4116 214 64 4 24 4 5 1 1 1 1 82 241 44 4 4 1.46 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	12 16 77 214 -5190 3455 406 559 82 23 6 9 13 73 343 105 55 1.57 1.36 1.15 1.21	21 28 41 64 3455 -8682 1914 2274 564 234 34 45 211 45 248 6 1.62 1.33 1.33 1.43	4 4 4 4 4 4 4 6 1914 -3855 886 448 120 13 17 49 4 28 7 1.52 1.44 1.30 1.33 1.33 1.33	26 18 62 24 579 2274 886 697 1866 695 288 165 167 9 67	7 8 15 4 4 82 564 448 1866 -5401 1124 490 782 1353 6 151	8 4 6 5 36 234 120 695 1124 -3248 112 875 190 1 1 163	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7	26 7 4 1 13 45 17 165 782 875 333 -3764 1550 4 60	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367 123641 13 1.15 1.45 1.37 1.67	14 58 30 241 343 45 4 9 6 1 2 2 347 2372 3497 14 1.47 1.23 1.26 1.18	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241 Total 1.00 1.00 1.00
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Second Face 1 2 3 4 5 6 6 7 8	-2495 649 467 345 122 21 4 26 7 8 5 26 1045 14 135 ttor 1 0.97 1.27 1.21 1.46 1.57 1.62 1.52 1.36	549 -2445 342 1308 166 28 4 18 8 4 2 7 78 80 2 127 0.97 1.13 1.24 1.36 1.53 1.44 1.41	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14 3 121 1.13 0.88 1.27 1.15 1.32 1.30 1.17	345 1308 1885 -4116 64 4 24 4 5 1 1 1 82 241 44 4 4 1.46 1.24 1.27 0.94 1.21 1.43	12 16 777 214 -5190 3455 406 559 82 36 9 13 73 343 105 	21 28 41 64 3455 -8682 1914 2274 564 234 45 248 6 1.62 1.33 1.32 1.43 1.07 0.98 1.09	4 4 4 13 4 406 1914 -3855 886 448 120 13 17 49 4 28 7 7.1.52 1.44 1.30 1.38 1.39 1.09 7	26 18 62 24 559 2274 886 -6973 1866 695 288 165 167 8 1.36 1.41 1.17 1.43 1.19 1.09	7 8 15 4 82 364 448 1866 -3401 1124 490 782 155 6 151	8 4 6 5 36 234 120 695 1124 3248 112 875 190 1 63 10 1.44 1.39 1.51 1.41 1.27 1.22	5 2 7 1 9 34 13 288 490 490 490 490 2 -1479 333 191 2 7	26 7 4 1 13 45 17 165 875 333 -3764 1550 4 60 12 1.64 1.41 1.30 1.53 1.36 1.27 1.24	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367 123641 13 1.15 1.45 1.45 1.47 1.41 1.44 1.44 1.44	144 58 30 241 343 45 4 9 6 6 1 1 2 2 4 4 3667 2372 3497 14 1.47 1.23 1.26 1.18 1.14 1.52 1.57 1.43	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241 Total 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac	-2495 649 467 345 12 21 4 26 6 7 8 5 26 1045 14 135 tor 1 0.97 1.27 1.27 1.26 1.57 1.62 1.36 1.42	549 -2445 342 1308 16 28 4 18 8 4 2 7 78 58 80 2 127 0.97 113 124 136 153 144 141	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14 3 1.21 1.13 0.88 1.27 1.15 1.32 1.32 1.32	345 1308 1885 -4116 214 64 4 24 4 5 1 1 1 82 241 44 4 1.46 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	12 16 77 214 -5190 3455 406 559 82 236 9 13 343 105 55 1.57 1.36 1.15 1.21 0.96 1.07 1.32	21 28 41 64 3455 -8682 1914 2274 564 43 211 45 248 6 1.62 1.33 1.33 1.07 0.98 1.07 0.98 1.09	4 4 4 4 4 4 4 4 4 4 1914 -3855 886 448 120 13 17 49 4 28 7 1.52 1.44 1.38 1.39 1.05 0.05 1.05 1.05 1.05 1.05 1.05 1.05	26 18 62 24 599 2274 886 -6973 1866 695 288 165 167 9 67 8 1.36 1.41 1.17 1.43 1.19 1.09 1.03	7 8 15 4 42 564 448 1866 -5401 1124 490 782 155 6 151	8 4 6 5 36 234 120 695 1124 -3248 112 875 150 1 1 163 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7	26 7 4 1 13 45 17 782 875 333 -3764 1550 4 60 12 1.64 1.41 1.30 1.36 1.28 1.28 1.24 1.19	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367 123641 13 1.15 1.45 1.45 1.47 1.67 1.41 1.48 1.44 1.43 1.43	14 58 30 241 343 45 4 9 6 1 2 2 347 2372 3497 14 1.47 1.23 1.26 1.14 1.52 1.57 1.43 1.44	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac 7 8 9 10 11 12 13 14 Total Growth Fac 9 10 10 10 10 10 10 10 10 10 10 10 10 10	-2495 649 467 345 12 21 4 26 7 8 5 26 1045 14 135 ttor 1 0.97 1.27 1.21 1.46 1.57 1.62 1.52 1.32 1.34	549 -2445 342 1308 16 28 4 18 8 4 2 7 78 58 80 22 127 0.97 113 124 136 153 144 141 142	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14 3 121 1.13 0.88 1.27 1.15 1.32 1.30 1.17	345 1308 1885 -4116 214 64 4 24 4 5 1 1 1 1 82 241 44 4 4 1.46 1.24 1.27 0.94 1.43 1.38 1.48 1.48	12 16 777 214 -5190 3453 406 559 82 36 9 13 73 343 105 55 1.57 1.36 1.15 1.27 1.39 1.19 1.32	21 28 41 64 3455 -8682 1914 2274 364 45 211 45 248 6 1.62 1.53 1.32 1.43 1.07 0.98 1.05	4 4 4 13 4 406 1914 -3855 886 448 120 13 17 49 4 28 7 7.1.52 1.44 1.30 1.39 1.05 0.97 1.05	26 18 62 24 539 2274 886 693 1866 693 288 163 167 9 67 8 1.36 1.41 1.17 1.49 1.09 1.03 0.96 1.07	7 8 15 4 4 82 564 448 1866 -5401 1124 490 782 155 6 151 124 1,42 1,42 1,29 1,42 1,25 1,21 1,07 0,09 0,09 0,09 0,09 0,09 0,09 0,09 0	8 4 6 5 36 234 120 695 1124 -3248 112 875 190 1 163 10 1.44 1.39 1.19 1.77 1.22 1.03 0.98	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7 7	26 7 4 13 45 17 165 782 875 333 -3764 1550 4 60 12 1.64 1.41 1.30 1.36 1.28 1.27 1.24 1.12	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367 123641 13 1.15 1.45 1.47 1.41 1.48 1.44 1.43 1.43 1.43	14 58 30 241 343 45 4 9 6 1 2 4 367 2372 3497 14 1.47 1.23 1.26 1.14 1.52 1.57 1.43 1.46 1.34	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac	-2495 649 467 345 12 21 4 26 6 7 8 5 26 1045 14 135 tor 1 0.97 1.27 1.27 1.26 1.57 1.62 1.36 1.42	549 -2445 342 1308 16 28 4 18 8 4 2 7 78 58 80 2 127 0.97 113 124 136 153 144 141	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14 3 1.21 1.13 0.88 1.27 1.15 1.32 1.32 1.32	345 1308 1885 -4116 214 64 4 24 4 5 1 1 1 82 241 44 4 1.46 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	12 16 77 214 -5190 3455 406 559 82 236 9 13 343 105 55 1.57 1.36 1.15 1.21 0.96 1.07 1.32	21 28 41 64 3455 -8682 1914 2274 564 43 211 45 248 6 1.62 1.33 1.33 1.07 0.98 1.07 0.98 1.09	4 4 4 4 4 4 4 4 4 4 1914 -3855 886 448 120 13 17 49 4 28 7 1.52 1.44 1.38 1.39 1.05 0.05 1.05 1.05 1.05 1.05 1.05 1.05	26 18 62 24 599 2274 886 -6973 1866 695 288 165 167 9 67 8 1.36 1.41 1.17 1.43 1.19 1.09 1.03	7 8 15 4 42 564 448 1866 -5401 1124 490 782 155 6 151	8 4 6 5 36 234 120 695 1124 -3248 112 875 150 1 1 163 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7	26 7 4 1 13 45 17 782 875 333 -3764 1550 4 60 12 1.64 1.41 1.30 1.36 1.28 1.28 1.24 1.19	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367 123641 13 1.15 1.45 1.45 1.47 1.67 1.41 1.48 1.44 1.43 1.43	14 58 30 241 343 45 4 9 6 1 2 2 347 2372 3497 14 1.47 1.23 1.26 1.14 1.52 1.57 1.43 1.44	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 7 8 9 10 11 1 2 2 3 4 5 6 6 7 7 8 9 10 11 1 2 1 3 1 4 1 5 6 6 7 7 8 9 10 11 12 13 13	-2495 649 467 345 12 21 4 26 6 7 8 5 26 1045 14 135 ttor 1 0.97 1.27 1.26 1.57 1.62 1.79 1.44 1.22 1.44 1.22 1.64 1.15	28 4 18 8 4 2 7 78 58 80 2 2 127 0.97 113 124 136 153 144 141 142 139 144 141 145	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14 3 121 1.13 0.88 1.27 1.15 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32	345 1308 1885 -4116 214 64 4 24 4 5 1 1 1 1 82 241 44 4 1.46 1.24 1.24 1.21 1.43 1.48 1.43 1.48 1.51 1.48 1.51 1.48	12 16 77 214 -5190 3455 406 559 82 236 9 13 343 105 5 1.57 1.36 1.15 1.21 0.96 1.07 1.39 1.41 1.23 1.34 1.32 1.44 1.23 1.34	21 28 41 64 3455 -8682 1914 2274 564 43 211 45 248 6 1.62 1.33 1.33 1.07 0.98 1.07 1.09 1.25 1.29 1.25	4 4 4 4 4 4 4 4 4 4 1914 -3855 886 448 120 13 17 49 4 28 7 1.52 1.44 1.30 1.38 1.39 1.05 0.05 1.05 1.05 1.05 1.05 1.05 1.05	26 18 62 24 599 2274 886 6973 1866 695 288 165 167 9 67 8 1.36 1.41 1.17 1.43 1.19 1.09 1.07 1.22 1.17 1.24 1.24	7 8 15 4 42 564 448 1866 -5401 1124 490 782 155 6 151 9 1.42 1.42 1.42 1.25 1.25 1.27 0.96 1.03 1.19	8 4 6 5 36 234 120 695 1124 -3248 112 875 150 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7	26 7 4 13 45 17 165 782 875 333 -3764 1550 4 60 12 1.64 1.41 1.30 1.28 1.27 1.24 1.19 1.12 1.13 0.92 1.18	1045 78 133 82 73 211 49 167 155 190 191 1550 119351 367 123641 13 1.15 1.45 1.45 1.45 1.47 1.67 1.41 1.48 1.44 1.43 1.43 1.43 1.43 1.43 1.43 1.43 1.15 1.15	14 58 30 241 343 45 4 9 6 1 2 2 347 2372 3497 14 1.47 1.23 1.26 1.14 1.52 1.57 1.46 1.54 1.47 1.47 1.43 1.46 1.52 1.54 1.54 1.54 1.55 1	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.
1 2 3 4 5 6 7 8 9 10 11 2 2 3 4 4 5 6 7 8 9 10 11 12 13 14 Total	-2495 649 467 345 122 21 4 26 7 8 5 26 1045 14 135 ttor 1 0.97 1.27 1.46 1.57 1.62 1.36 1.42 1.44 1.22 1.64	549 -2445 342 1308 166 28 4 18 8 4 2 7 788 80 22 127 0.97 113 124 136 153 144 141 142 139 144	467 342 -3047 1865 77 41 13 62 15 6 7 4 133 30 14 131 0.88 1.27 1.13 0.88 1.27 1.15 1.30 1.17 1.29 1.19 1.30 1.19 1.30 1.	345 1308 1885 -4116 64 4 24 4 5 1 1 1 82 2 241 44 4 1,46 1,24 1,27 0,94 1,21 1,43 1,38 1,43 1,48 1,53	12 16 777 214 -5190 3453 406 559 82 36 9 13 343 105 5 1.57 1.36 1.15 1.21 0.96 1.07 1.39 1.19 1.32 1.43	21 28 41 64 3455 -8682 1914 2274 564 234 45 248 6 1.62 1.53 1.32 1.43 1.07 0.98 1.09 1.25 1.2	4 4 4 13 4 406 1914 -3855 886 448 120 13 17 49 4 28 7 1.52 1.44 1.30 1.38 1.39 1.05 0.97 1.03 1.21 1.25 1.21	26 18 62 24 559 2274 886 -6973 1866 695 288 165 167 9 67 8 1.36 1.41 1.17 1.43 1.19 1.09 1.03 0.96 1.07	7 8 15 4 42 364 448 1886 -3401 1124 490 782 155 6 151 142 142 142 142 129 148 132 121 107 0.96 103 110	8 4 6 3 36 234 120 655 1124 -3248 112 875 190 1 163 10 1.44 1.39 1.19 1.51 1.41 1.29 1.27 1.22 1.03 0.93 1.23 1.24	5 2 7 1 9 34 13 288 490 112 -1479 333 191 2 7 7 11 122 144 132 149 125 125 117 110 123 0.90 113	26 7 4 1 13 45 17 165 782 875 333 -3764 1550 4 60 12 1.64 1.41 1.30 1.53 1.28 1.27 1.24 1.19 1.13 0.92	1045 78 133 82 73 211 49 167 155 190 191 1550 119350 119350 119350 123641 13 1.15 1.45 1.47 1.48 1.44 1.43 1.44 1.48 1.48 1.48 1.49 1.	144 58 30 241 343 45 4 9 6 6 1 1 2 4 4 367 2372 3497 144 1.57 1.43 1.46 1.54 1.47 1.43	135 80 14 44 105 248 28 67 151 163 7 60 123641 3497 128241 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00



Reference C	ase - 2044 -	- UC3													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	93737	1413	1793	490	47	66	15	104	37	16	51	45	4430	71	102315
2	1380 1748	74263 1854	1850 31169	3116 3172	45 252	83 99	14 27	63 273	45 113	18 45	22 91	27 42	118 361	179 162	81223 39408
4	574	3267	3238	77664	690	189	18	42	36	10	11	11	54	1552	87356
5	47	42	239	648	131536	47412	525	2227	146	56	79	59	347	3907	187271
6	69	84	101	214	45636	485231	42207	19320	1854	468	147	235	988	377	596931
7	17	15	32	18	510	41773	114739	23138	1246	211	44	97	224	36	182101
8	113 38	67 39	277 115	54 39	2234 121	20396 1787	23956 1262	152084	18171	1808 42511	1296 3139	444 2890	512 1005	87 53	221499 214943
10	18	17	51	10	59	486	238	17876 1823	43888	165267	222	7188	363	30	219962
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10 11	29 86	28 33	78 135	18 14	101 92	759 187	365 81	2659 1698	45886 3606	158971 372	336 20394	8783 2253	934 464	53 35	218998 29449
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Difference															
Difference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Difference 1	-3240	2 614	3 721	4 344	50	66	7	8 72	9 23	10	11 23	12 39	13 1866	14	Total 651
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3240 613 692 391 50 71 15 77 24 12 28 41 2339 33 1146 tor 1 0.97 1.44 1.40 1.68	614 -2430 499 1098 37 77 12 45 22 10 11 14 104 68 181 2 143 0.97 1.27 1.34	721 524 -3211 1886 132 90 24 135 68 27 42 20 314 65 838	344 1042 1752 -5620 261 144 11 35 27 7 5 8 66 586 -1331	50 38 138 283 -6146 5393 351 773 69 43 33 39 300 954 2298 5 2.06 1.85 1.55 1.41	66 75 87 131 5119 -18324 3032 3425 819 273 64 129 822 186 -4096	13 11 19 11 356 3057 -6440 1202 509 126 25 49 193 23 -846	72 43 130 30 745 3707 1391 -7935 2447 835 428 163 417 40 2512 8 1.69 1.68 1.48	23 26 62 27 80 875 533 2426 -8410 1998 579 1075 326 40 -329	10 11 23 7 40 260 113 791 1814 -6296 116 1613 290 23 -1185	23 11 40 7 41 74 22 435 642 113 -1828 385 230 13 209	39 16 21 9 38 139 53 193 1084 1596 486 -6387 4769 17 2074	1866 96 241 52 2622 765 177 370 494 369 189 4601 30548 141 40173 1.32 1.42 1.82 1.67	50 89 78 584 949 323 28 56 36 36 31 17 413 868 3525	651 165 572 -1104 1964 -3348 -678 2007 -354 -864 171 1768 41161 3056 45169 Total 1.01 1.00 1.01 0.99
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3240 613 692 391 50 71 15 77 24 12 28 41 2339 33 1146 tor 1 0.97 1.44 1.40 1.68 2.06	614 -2430 499 1098 37 77 12 45 22 10 11 14 104 68 181 2 1.43 0.97 1.27 1.34 1.87	721 524 -3211 1886 132 90 24 135 68 27 42 20 314 65 838	344 1042 1752 -5620 261 144 11 35 27 7 7 5 8 66 -1331 4 1.70 1.33 1.55 0.93 1.40	50 38 138 283 36146 5393 3511 753 69 43 33 300 954 2298 5 2.06 1.85 1.55 1.41 0.95	656 75 87 1311 5119 -18324 3032 3425 819 273 64 129 822 186 -4096 6 2.01 1.91 1.87 1.67	13 11 19 11 356 3057 -6440 1202 509 126 23 49 193 23 -846 1.78 1.78 1.72 1.68	72 43 130 300 745 3707 1391 -7936 2447 835 428 163 417 40 2512 8 1.69 1.68 1.48	23 26 62 27 80 875 533 2426 -8410 1998 539 1075 336 40 -329	10 11 23 7 40 260 113 791 1814 -6296 116 1613 290 23 -1185	23 11 40 7 41 74 22 435 642 113 -1828 385 230 13 209	39 16 21 9 38 139 53 1084 1596 486 -6387 4769 17 2074	1866 96 241 52 262 765 177 370 494 369 189 4601 30548 141 40173 1.42 1.82 1.67 1.95	50 89 78 584 949 323 28 56 22 13 17 413 868 3525 14 1.71 1.49 1.48 1.24	651 165 572 -1104 1964 -3348 -678 2007 -354 -864 171 1768 41161 3056 45169 Total 1.00 1.01 1.00 1.01 0.99 1.01
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact	-3240 613 692 391 15 77 24 12 28 41 2339 33 1146 tor 1 0.97 1.44 1.40 1.60 2.06 2.02	614 -2430 499 1098 37 77 12 45 22 10 11 14 104 68 181 2 1.43 0.97 1.27 1.34 1.87 1.92	721 524 -3211 1886 132 90 24 133 68 27 42 20 314 65 838	344 1042 1752 -5620 261 144 11 35 27 7 5 8 66 586 -1331 4 1.70 1.33 1.55 0.93 1.40 1.67	50 38 138 283 -6146 5393 351 753 69 43 33 39 300 954 2298 5 2.06 1.85 1.55 1.41 0.95 1.12	656 75 87 7311 5119 -18324 3032 3425 819 273 64 129 822 186 -4096 6 2.01 1.91 1.67 1.67 1.67	13 11 19 11 356 3057 -6440 1202 509 126 25 49 193 23 -846 7 1.86 1.78 1.72 1.68 1.72	72 43 130 30 745 3707 1391 -7936 2447 428 163 417 40 2512 8 1.69 1.68 1.48 1.71 1.33	23 26 62 27 80 875 533 2426 -8410 1988 539 1075 340 -329 9 1.63 1.57 1.53 1.47	10 11 23 7 40 260 113 791 1814 -6296 115 1613 293 -1185	23 11 40 7 41 74 22 435 642 113 -1828 385 230 13 209	39 16 21 9 38 139 53 1084 1596 486 -6387 4769 17 2074 12 1.87 1.62 1.50 1.79	1866 96 241 52 262 765 177 370 494 369 189 4601 30548 141 40173 1.42 1.82 1.67 1.95 1.77	50 89 78 584 949 323 28 56 36 22 13 17 413 868 3525	651 165 572 -1104 1964 -3348 -678 2007 -354 -864 171 1768 41161 3056 45169 Total 1.01 1.00 1.01 0.99 1.01 0.99
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1 2 3 4 5 6 6 7 8 9 100 111 12 13 14 Total Growth Fact	-3240 613 692 391 50 71 15 77 24 12 28 41 2339 33 1146	614 -2430 499 1098 377 77 12 45 22 10 11 14 104 68 181	721 524 -3211 1886 132 90 24 135 68 27 42 20 314 65 838 3 1.40 1.28 0.90 1.58 1.59	344 1042 1752 -5620 261 144 11 35 27 7 5 8 66 586 -1331 4 1.70 1.33 1.55 0.93 1.40 1.67	50 38 138 283 -6146 5393 351 773 69 43 33 39 300 954 2298 5 2.06 1.85 1.55 1.41 0.95 1.12 1.69	66 75 87 131 5119 -18324 3032 3425 819 273 64 129 822 136 6 -4096	13 11 19 11 356 3057 -6440 1202 509 126 25 49 193 23 -846 7 1.86 1.78 1.72 1.62 1.62	72 43 130 30 745 3707 1391 -7936 2447 835 428 163 417 40 2512 8 1.69 1.68 1.48 1.71 1.33 1.19	23 26 62 27 80 875 533 2446 -8410 1998 559 1075 356 40 -329 9 1.63 1.57 1.57 1.74 1.155 1.47	10 11 23 7 40 260 113 751 1814 -6296 116 1613 290 23 -1185	23 11 40 7 41 74 22 435 642 113 -1828 385 239 13 209	39 16 21 9 38 139 53 1084 1756 486 -6387 4769 17 2074 12 1.87 1.62 1.50 1.77 1.62 1.59	1866 96 241 52 262 765 177 370 494 369 189 4601 30548 141 40173 1.42 1.82 1.67 1.95 1.75	50 89 78 584 949 323 28 56 36 22 13 17 413 868 3525 14 1.71 1.49 1.48 1.38 1.24 1.86 1.77	651 165 572 -1104 1964 -3348 -678 2007 -354 -864 171 1768 41161 3056 45169 Total 1.01 1.00 1.01 0.99 1.00
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 Total Growth Fact	-3240 613 692 391 15 77 24 12 28 41 2339 33 1146 tor 1 0.97 1.44 1.40 2.06 2.02 1.86 1.64 1.66	614 -2430 499 1098 37 77 12 45 22 10 11 14 104 68 181 2 1.43 0.97 1.27 1.34 1.87 1.92 1.80 1.67 1.57 1.58	721 524 -3211 1886 132 90 24 133 68 27 42 20 314 65 838 1.40 1.28 0.90 1.75 1.90 1.75 1.49	344 1042 1752 -5620 261 144 11 35 27 7 5 8 66 586 -1331 4 1.70 1.33 1.55 0.93 1.40 1.67 1.62 1.62 1.69	50 38 138 283 -6146 5393 351 753 69 43 33 39 300 954 2298 5 2.06 1.85 1.55 1.41 0.95 1.12 1.69 1.37 1.73	656 75 87 7311 5119 -18324 3032 3425 819 273 64 129 822 136 -4096 6 2.01 1.91 1.87 1.69 1.07 1.17 1.46 1.56	13 11 19 11 356 3057 -6440 1202 509 126 25 49 193 23 -846 178 1.78 1.72 1.68 1.07 0.94 1.07	72 43 130 745 3707 1391 -7936 2447 833 428 163 417 40 2512 8 1.69 1.68 1.48 1.71 1.33 1.19 1.06 0.95	23 26 62 27 80 875 533 2426 -8410 1998 539 1075 40 -329 9 1.63 1.57 1.55 1.47 1.43 1.13 0.94 1.05	10 11 23 7 40 260 113 791 1814 -6296 116 1613 290 1.65 1.38 1.51 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.7	23 11 40 7 41 74 22 435 642 113 -1828 385 230 13 209	39 16 21 9 38 139 53 1084 1396 485 -6387 4769 17 2074 12 1.87 1.62 1.50 1.77 1.65 1.59 1.59 1.59 1.59 1.59 1.59 1.59 1.5	1866 96 241 52 262 765 177 370 494 369 189 4601 30548 141 40173 1.42 1.82 1.67 1.75 1.77 1.79 1.72 1.49	50 89 78 584 949 323 28 56 36 36 22 13 17 413 868 3525 14 1.71 1.49 1.48 1.24 1.86 1.77 1.65 1.68	651 165 572 -1104 1964 -3348 -678 2007 -354 -864 171 1768 41161 3056 45169 Total 1.01 1.00 1.01 0.99 1.01 0.99 1.00 1.01 1.00
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2 1.18 0.88 1.14 1.12 1.18 1.23 1.19 1.18 1.19 1.16 1.16 1.19 1.19 1.15 0.99 3 1.11 1.08 0.74 1.06 1.11 1.20 1.18 1.11 1.12 1.11 1.08 1.10 1.12 1.10 1.02 4 1.24 1.12 1.10 0.82 1.15 1.24 1.20 1.21 1.25 1.19 1.21 1.24 1.24 1.26 1.16 1.00 5 1.24 1.18 1.13 1.14 0.93 1.03 1.20 1.14 1.17 1.20 1.16 1.15 1.16 1.12 1.01 6 1.30 1.27 1.25 1.29 1.12 0.90 0.97 1.10 1.26 1.25 1.37 1.24 1.25 1.34 0.99 7 1.31 1.25 1.26 1.24 1.31 0.98 0.91 1.02 1.27 1.32 1.42 1.28 1.27 1.33 0.99 8 1.23 1.24 1.19 1.23 1.16 1.04 0.95 0.87 1.05 1.18 1.15 1.24 1.21 1.24 1.00 9 1.21 1.19 1.17 1.24 1.16 1.21 1.20 1.07 0.87 0.93 1.04 1.23 1.28 1.23 1.00 10 1.20 1.17 1.16 1.19 1.22 1.25 1.29 1.22 0.93 0.87 1.22 1.18 1.27 1.22 0.99 11 1.16 1.15 1.12 1.16 1.12 1.16 1.15 1.08 0.93 1.12 0.77 1.07 1.15 1.14 1.01 12 1.25 1.16 1.11 1.18 1.14 1.16 1.16 1.15 1.08 0.93 1.12 0.77 1.07 1.15 1.14 1.01 13 1.15 1.22 1.18 1.28 1.18 1.21 1.23 1.20 1.20 1.20 1.20 1.19 1.15 1.00 1.22 1.00 14 1.24 1.12 1.18 1.15 1.14 1.28 1.29 1.24 1.25 1.24 1.21 1.25 1.22 1.00 1.00	1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1267 248 111 290 19 31 7 45 12 5 20 21 1169 149 849	233 -1149 96 189 19 45 5 27 10 5 5 6 378 91	114 168 -588 50 27 37 10 68 20 16 17 8 688 259 894	253 192 34 -1552 107 226 5 49 14 3 5 4 5 49 240	16 19 22 105 -1208 1233 173 262 56 46 20 17 317 598 1697	25 38 29 181 301 -5631 -99 304 473 334 91 84 1204 385 -2281	3 4 6 4 107 -195 -1169 -152 144 133 29 34 313 34 -703	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694	11 11 16 64 678 213 227 -2217 -411 -37 95 915 49 -369	5 5 11 3 39 315 142 346 -402 -2247 45 124 932 20 -662	10 4 10 6 30 211 67 121 22 69 -463 15 491 31	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 244	636 266 333 321 235 1125 282 951 1174 1126 260 908 12606 2355	61 83 87 286 305 275 51 26 13 11 -2690 785	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 24377 1734
3 1.11 1.08 0.74 1.06 1.11 1.20 1.18 1.11 1.12 1.11 1.08 1.10 1.12 1.10 1.02 4 1.24 1.12 1.10 0.82 1.15 1.24 1.20 1.21 1.25 1.19 1.21 1.24 1.24 1.16 1.00 5 1.24 1.18 1.13 1.14 0.93 1.03 1.20 1.14 1.17 1.20 1.16 1.15 1.16 1.12 1.01 6 1.30 1.27 1.25 1.29 1.12 0.90 0.97 1.10 1.26 1.25 1.37 1.24 1.25 1.34 0.99 7 1.31 1.25 1.26 1.24 1.31 0.98 0.91 1.02 1.27 1.32 1.42 1.28 1.27 1.33 0.99 8 1.23 1.24 1.19 1.23 1.16 1.04 0.95 0.87 1.05 1.18 1.15 1.24 1.21 1.24 1.00 9 1.21 1.19 1.17 1.24 1.16 1.21 1.20 1.07 0.87 0.93 1.04 1.23 1.28 1.23 1.00 1.20 1.17 1.16 1.19 1.22 1.25 1.29 1.22 0.93 0.87 1.22 1.18 1.27 1.23 1.00 1.20 1.17 1.16 1.19 1.22 1.25 1.29 1.22 0.93 0.87 1.22 1.18 1.27 1.22 0.99 1.11 1.16 1.15 1.12 1.16 1.12 1.16 1.15 1.08 0.93 1.12 0.77 1.07 1.15 1.14 1.01 1.21 1.20 1.01 1.21 1.20 1.00 0.93 1.12 0.77 1.07 1.15 1.14 1.01 1.21 1.25 1.25 1.16 1.11 1.18 1.14 1.16 1.16 1.15 1.08 0.93 1.12 0.77 1.07 1.15 1.14 1.01 1.01 1.15 1.12 1.16 1.15 1.12 1.16 1.15 1.08 0.93 1.12 0.77 1.07 1.15 1.14 1.01 1.01 1.15 1.12 1.18 1.18 1.28 1.28 1.23 1.20 1.20 1.20 1.20 1.19 1.15 1.00 1.22 1.00 1.40 1.40 1.40 1.40 1.40 1.40 1.40	1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1267 248 111 290 19 31 7 45 12 5 20 21 1169 140 849	233 -1149 96 189 199 45 5 7 10 5 5 6 378 91 -41	114 168 -588 50 27 37 10 68 20 16 17 8 688 259 894	253 192 34 -1552 107 226 5 49 14 3 5 4 5 44 240	16 19 22 105 -1208 1253 173 262 56 46 20 17 317 598 1697	25 38 29 181 301 -5631 -99 304 473 334 91 84 1204 385 -2281	5 4 6 4 107 -195 -1169 -152 144 133 29 34 313 34 -703	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694	11 11 16 16 64 678 213 227 -2217 -411 -37 95 915 49 -369	5 5 11 3 39 315 142 346 -402 -2247 45 124 932 20 -662	10 4 10 6 30 211 67 121 22 29 -463 15 491 31 622	21 7 7 6 19 128 35 148 236 310 30 -1158 1411 24	636 266 333 321 235 1125 282 951 1174 1126 260 908 12606 2353 22579	61 83 87 286 305 275 51 26 13 11 9 2241 -2690 785	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 24377 1734 25546
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8 1.23 1.24 1.19 1.23 1.16 1.04 0.95 0.87 1.05 1.18 1.15 1.24 1.21 1.24 1.00 9 1.21 1.19 1.17 1.24 1.16 1.21 1.20 1.07 0.87 0.93 1.04 1.23 1.28 1.23 1.00 1.20 1.17 1.16 1.19 1.22 1.25 1.29 1.22 0.93 0.87 1.22 1.18 1.27 1.22 0.99 1.1 1.16 1.15 1.12 1.16 1.12 1.16 1.15 1.15 1.08 0.93 1.12 0.77 1.07 1.15 1.14 1.01 1.2 1.25 1.26 1.27 1.28 1.29 1.29 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	1 2 3 4 5 6 6 7 8 9 100 111 122 13 14 Total Growth Fact	-1267 248 111 290 19 31 7 45 12 20 21 1169 140 849 tor 1 0.90 1.118 1.111 1.24	233 -1149 -96 -189 -199 -45 -5 -5 -6 -378 -91 -41 -2 -1.17 -0.88 -1.08 -1.12	114 168 -588 50 27 37 10 68 20 16 17 8 688 259 894	253 192 34 -1552 107 226 5 49 14 3 5 4 545 354 240	16 19 22 105 -1208 1233 173 262 56 46 46 20 17 317 598 1697	25 38 29 181 301 -5631 -99 304 473 334 91 84 1204 385 -2281 6 125 123 120 124	3 4 6 4 107 -195 -1169 -152 144 133 29 34 313 34 -703	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694	11 11 16 64 678 213 227 -2217 -411 -37 95 915 49 -369	5 5 111 3 39 315 142 346 -402 -2247 45 124 932 20 -662	10 4 10 6 30 211 67 121 22 69 -463 15 491 31 622 11 1.11 1.16 1.08 1.21	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 1224 1.25 1.19 1.10	636 266 333 321 235 1125 282 951 1174 1126 260 908 12606 2355 22579	61 83 87 286 305 275 27 51 26 13 11 9 2241 -2690 785 14 1.18 1.15 1.10	151 -87 208 -53 285 -797 -227 -6 -170 -228 -90 257 24377 1734 25548 Total 1.01 0.99 1.02
9 1.21 1.19 1.17 1.24 1.16 1.21 1.20 1.07 0.87 0.93 1.04 1.23 1.28 1.23 1.00 100 1.20 1.17 1.16 1.19 1.22 1.25 1.29 1.22 0.93 0.87 1.22 1.18 1.27 1.22 0.99 11 1.16 1.15 1.12 1.16 1.12 1.16 1.15 1.08 0.93 1.12 0.77 1.07 1.15 1.14 1.01 1.2 1.25 1.26 1.27 1.28 1.29 1.28 1.29 1.29 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1267 248 111 290 19 31 7 45 20 21 1169 140 849 tor 1 0.90 1.18 1.11 1.24 1.30	233 -1149 96 189 19 45 5 27 10 5 6 378 91 -41 2 1.17 0.88 1.08 1.12 1.18 1.27	114 168 -388 50 27 37 10 68 20 16 17 8 8 588 229 894 3 1.11 1.14 0.74 1.10 1.13 1.25	253 192 34 -1552 107 226 5 49 14 3 5 4 5 4 5 4 240 4 121 112 1.06 0.82 1.14 1.29	16 19 22 105 -1208 1253 173 262 56 46 20 17 317 598 1697	25 38 29 181 301 -5631 -99 304 473 334 91 1204 385 -2281 6 1.23 1.23 1.20 1.24 1.03 0.90	3 4 6 4 107 -195 -1169 -152 144 133 29 34 313 34 -703	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694	11 11 16 64 678 213 2217 -411 -37 915 49 -369	5 5 11 3 39 315 142 346 -402 -2247 45 124 932 20 -662	10 4 10 6 30 211 67 121 22 69 -463 15 491 31 622	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 1244 12 1.25 1.19 1.10 1.24 1.15	636 266 333 321 1125 282 951 1174 1126 260 908 12606 2353 22579 13 1.10 1.19 1.12 1.24 1.16	61 83 87 286 305 275 27 31 13 11 -2241 -2290 785 14 1.18 1.15 1.10 1.16 1.12 1.34	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 1734 25546 Total 1.01 0.99 1.02 1.00
10	1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac:	-1267 248 111 290 19 31 7 45 12 5 20 21 1169 849 tor 1 0.90 1.18 1.11 1.24 1.24 1.30 1.31	233 -1149 96 189 19 45 5 27 10 6 378 91 -41 2 117 0.88 1.08 1.12 1.18 1.27 1.25	114 168 -388 50 27 37 10 68 20 16 17 8 688 259 894 3 1.11 1.14 0.74 1.10 0.11 1.13 1.25 1.26	253 192 34 -1522 107 226 5 49 14 3 5 4 354 240 4 121 1.12 1.06 0.82 1.14 1.29 1.24	16 19 22 105 -1208 1253 173 262 56 46 20 17 598 1697	25 38 29 181 301 -5631 -99 304 473 334 91 84 1204 335 -2281 6 125 123 120 124 109 0.98	3 4 6 4 107 -195 -1169 -152 144 133 29 34 313 34 -703	28 19 34 42 221 705 57 -2442 261 371 59 90 1168 84 694	11 11 16 64 678 213 227 -2217 -411 -37 95 915 49 -369	5 5 11 3 39 315 142 346 -402 -2247 45 124 932 20 -662	10 4 10 6 30 211 67 121 22 69 -463 15 491 31 622 11 111 1.16 1.08 1.21 1.16 1.37 1.42	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 1244 1244 125 1.19 1.10 1.24 1.15 1.24 1.24	636 266 333 321 235 1125 282 951 1174 1174 260 908 1260 2355 22579 13 1.10 1.19 1.12 1.24 1.12 1.24	61 83 87 286 305 275 27 51 26 13 11 9 2241 -2690 785 14 1.18 1.15 1.10 1.16 1.14 1.13	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 1734 25546 Total 1.01 0.99 1.02 1.00 1.01 0.99 0.99
11 1.16 1.15 1.12 1.16 1.12 1.16 1.15 1.08 0.93 1.12 0.77 1.07 1.15 1.14 1.01 12 1.25 1.16 1.11 1.18 1.14 1.16 1.16 1.15 1.08 1.06 1.04 0.79 1.11 1.17 1.01 13 1.15 1.22 1.18 1.28 1.18 1.21 1.23 1.20 1.20 1.20 1.20 1.19 1.15 1.00 1.22 1.00 14 1.24 1.12 1.18 1.15 1.14 1.28 1.29 1.24 1.25 1.24 1.21 1.25 1.22 1.00 1.00	1 2 3 4 5 6 6 7 8 9 100 111 122 13 14 Total Growth Fac. 1 2 3 4 4 5 6 6 7 8 8	-1267 248 111 290 19 31 7 45 12 5 20 21 1169 849 tor 1 0.90 1.18 1.11 1.24 1.34 1.31 1.23	233 -1149 -96 -189 -19 -45 -5 -5 -6 -378 -91 -41 -2 -117 -0.88 -1.08 -1.12 -1.18 -1.27 -1.25 -1.24	114 168 -588 50 27 37 10 68 20 16 17 8 688 259 894 3 1.11 1.14 0.74 1.10 1.13 1.25 1.25 1.19	253 192 34 -1522 107 226 5 49 14 3 5 4 240 240 4 121 1.12 1.06 0.82 1.14 1.24 1.24	16 19 22 105 -1208 1253 173 262 56 46 20 17 317 598 1697	25 38 29 181 301 -5631 -99 304 473 334 91 84 1204 123 123 120 124 1.03 0.99 0.98 1.04	3 4 6 4 107 -195 -1169 -152 144 133 29 34 313 34 -703 7 1.24 1.19 1.18 1.20 0.97 0.91	28 19 34 42 221 703 57 -2442 261 371 59 90 1164 84 694 8 1.16 1.18 1.11 1.21 1.14 1.10 2.0.87	11 11 16 64 678 213 227 -2217 -411 -37 95 913 -369 119 119 112 125 117 126 127 105	5 5 111 3 39 315 142 346 45 124 932 20 -662 10 1.18 1.16 1.11 1.19 1.20 1.23 1.32	10 4 10 6 30 211 67 121 22 69 -463 15 491 31 622 11 1.16 1.08 1.21 1.16 1.37 1.42 1.15	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 1244 125 1.19 1.10 1.24 1.15 1.24 1.24	636 266 333 321 235 1125 282 951 1174 1126 260 908 12605 2355 22579 13 1.10 1.19 1.12 1.24 1.16 1.27	61 83 87 286 305 275 27 51 26 13 11 9 2241 -2690 785 14 1.15 1.10 1.16 1.12 1.33 1.24	151 -87 208 -53 285 -797 -227 -6 -170 -228 90 257 24377 1734 25546 Total 1.01 0.99 1.02 1.00 1.01 0.99 1.00
12 1.25 1.16 1.11 1.18 1.14 1.16 1.16 1.15 1.08 1.06 1.04 0.79 1.11 1.17 1.01 13 1.15 1.22 1.18 1.28 1.18 1.21 1.23 1.20 1.20 1.20 1.19 1.15 1.00 1.22 1.00 14 1.24 1.12 1.18 1.15 1.14 1.28 1.29 1.24 1.25 1.24 1.21 1.25 1.22 1.00 1.00	1 2 3 4 5 6 6 7 8 9 100 111 12 13 14 Total Growth Factor 5 6 6 7 8 9 9	-1267 248 111 290 19 31 7 45 12 5 20 1169 140 849 tor 1 0.90 1.18 1.11 1.24 1.30 1.31 1.23 1.21	233 -1149 96 189 19 45 5 27 10 5 6 378 91 -41 2 117 0.88 1.08 1.12 1.18 1.27 1.24 1.19	114 168 -388 50 27 37 10 68 20 16 17 8 688 259 894 3 1.11 1.14 0.74 0.10 1.13 1.25 1.25 1.19	253 192 34 -1552 107 226 5 49 14 3 5 4 5 4 240 240 4 121 1.12 1.06 0.82 1.14 1.29 1.24	16 19 22 105 -1208 1253 173 262 56 46 20 27 1317 598 1697 5 1.22 1.18 1.11 0.93 1.12 1.16	25 38 29 181 301 -5631 -99 304 473 334 91 84 1204 385 -2281 6 1.25 1.23 1.20 1.24 1.03 0.90 0.99 1.04 1.21	3 4 6 4 107 -195 -1169 -152 144 133 29 34 -703 7 1.24 1.19 1.19 1.12 0.97 0.97	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694 8 1.16 1.18 1.11 1.21 1.14 1.10 1.02 0.87 1.07	11 11 16 64 678 213 -227 -2217 -411 -37 915 49 -369 1.19 1.19 1.12 1.17 1.26 1.27 1.05 0.87	5 5 11 3 39 315 142 346 -402 -2247 45 124 932 20 -662 10 1.18 1.16 1.11 1.19 1.20 1.25 1.38 0.93	10 4 10 6 30 211 67 122 69 -463 15 491 31 622 11 1.16 1.06 1.37 1.49 1.15 1.04	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 1244 125 1.19 1.10 1.24 1.25 1.19 1.10 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.25	636 266 333 321 1125 282 951 1174 1126 260 2355 22579 13 1.10 1.19 1.12 1.24 1.16 1.25 1.27 1.21	61 83 87 286 305 275 27 51 26 13 111 9 2241 -2690 785 14 1.18 1.15 1.10 1.16 1.12 1.34 1.33 1.24	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 24377 1734 25546 Total 1.01 0.99 1.00 1.01 0.99 0.99
13 1.15 1.22 1.18 1.28 1.18 1.21 1.23 1.20 1.20 1.20 1.19 1.15 1.00 1.22 1.00 14 1.24 1.12 1.18 1.15 1.14 1.28 1.29 1.24 1.25 1.24 1.21 1.25 1.22 1.00 1.00	1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact Growth Fact 1 2 3 4 5 6 7 7 8 9 10	-1267 248 111 290 19 31 7 43 12 3 20 21 1169 140 849 tor 1 0.90 1.18 1.11 1.24 1.30 1.31 1.23 1.21 1.20	233 -1149 96 189 19 45 5 27 10 3 5 6 378 91 -41 2 117 0.88 1.08 1.12 1.18 1.27 1.25 1.24 1.19 1.17	114 168 -388 50 27 37 10 68 20 16 17 8 88 259 894 3 1.11 1.14 0.74 1.13 1.25 1.26 1.17	253 192 34 -1552 107 226 5 49 14 3 5 5 4 240 240 4 121 112 1.08 1.14 1.29 1.24 1.24 1.24 1.24	16 19 22 105 -1208 1253 173 262 56 46 20 17 317 598 1697 5 1.22 1.18 1.11 1.15 0.93 1.12 1.31 1.16	25 38 29 181 301 -5631 -99 304 473 334 91 1204 385 -2281 6 1.25 1.23 1.20 1.24 1.03 0.90 0.98 1.04 1.21	3 4 6 4 107 -195 -1169 -152 144 133 29 34 -703 7 1.24 1.19 1.18 1.20 0.97 0.91 0.95 1.29	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694 8 1.16 1.18 1.11 1.21 1.14 1.10 1.02 0.87 1.07	11 11 16 64 678 213 227 -2217 -411 -37 95 915 49 -369 119 119 112 125 117 126 127 10.87 0.93	5 5 111 39 315 142 346 -402 -2247 45 124 932 20 -662 10 1.18 1.16 1.11 1.19 1.20 1.25 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32	10 4 10 6 30 211 67 121 22 69 -463 15 491 31 622 11 1.11 1.16 1.08 1.21 1.16 1.37 1.42 1.15	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 125 1.19 1.10 1.24 1.15 1.24 1.15 1.24 1.15 1.24 1.25 1.19 1.10 1.24 1.24 1.25 1.19 1.10 1.24 1.25 1.11 1.24 1.25 1.15 1.25 1.15 1.25 1.15 1.25	636 266 333 321 1125 282 951 1174 1126 260 908 12606 2355 22579 13 1.10 1.19 1.12 1.25 1.27 1.21 1.25	61 83 87 286 305 275 27 51 26 6 13 11 9 2241 -2690 785 14 1.18 1.15 1.10 1.16 1.12 1.34 1.33 1.12	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 24377 1734 25546 Total 1.01 0.99 1.02 1.00 0.99 1.00 0.99
14 1.24 1.12 1.18 1.15 1.14 1.28 1.29 1.24 1.25 1.24 1.21 1.25 1.22 1.00 1.00	1 2 3 4 5 6 7 8 9 10 11 12 2 3 4 4 5 6 6 7 8 9 10 11 1 2 1 3 1 4 1 5 6 6 7 7 8 8 9 10 11	-1267 248 111 290 19 31 7 45 20 21 1169 140 849 tor 1 0.90 1.18 1.11 1.24 1.24 1.24 1.24 1.23 1.21 1.23 1.21 1.20 1.16	233 -1149 96 189 97 19 43 5 27 10 5 6 378 91 -41 2 117 0.88 1.08 1.12 1.18 1.27 1.25 1.24 1.19 1.17 1.15	114 168 -388 50 27 37 10 68 20 16 17 8 688 209 894 3 1.11 1.14 0.74 1.10 1.13 1.25 1.19 1.11 1.12	253 192 34 -1552 107 226 5 49 14 3 5 4 545 354 240 4 121 112 106 0.82 114 129 124 123 124 121 114 129 124 121 115	16 19 22 105 -1208 1253 173 262 56 46 20 17 317 398 1697 5 5 1.22 1.18 1.11 1.15 0.93 1.12 1.16 1.16	25 38 29 181 181 301 -5631 -99 304 473 334 91 84 1204 385 -2281 6 1.25 1.23 1.20 1.24 1.03 0.90 0.98 1.04 1.25 1.16	3 4 6 4 107 -195 -1169 -152 144 133 29 34 -703 7 7 1.24 1.19 1.18 1.20 0.97 0.91 0.95 1.29	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694 8 1.16 1.18 1.11 1.21 1.14 1.10 1.02 0.87 1.08	11 11 16 64 678 213 227 -2217 -411 -37 95 915 49 -369 119 119 112 125 117 126 127 0.93 0.93	5 5 111 3 39 315 142 346 -402 -2247 45 124 932 20 -662 10 1.18 1.16 1.11 1.19 1.20 1.25 1.32 1.18 0.87 1.12	10 4 10 6 30 211 67 121 22 69 -463 15 491 31 622 11 1.11 1.16 1.08 1.21 1.16 1.37 1.42 1.15 1.42 1.15 1.42 1.77	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 1244 1244 1244 124 12	636 266 333 321 125 282 931 1174 1126 260 908 12606 2355 22579 13 1.10 1.19 1.12 1.24 1.16 1.25 1.27 1.21 1.27	61 83 87 286 305 275 27 51 26 13 11 -2690 785 14 1.18 1.15 1.10 1.16 1.12 1.34 1.33 1.24 1.23 1.22 1.14	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 1734 25546 Total 1.01 0.99 1.02 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Total 1.03 1.00 1.08 1.01 1.04 0.98 0.97 1.02 0.99 0.98 1.08 1.06 1.00 1.00 1.00	1 2 3 4 5 6 6 7 8 9 10 11 12 3 4 4 5 6 6 7 8 9 10 11 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-1267 248 111 290 19 31 7 45 12 5 20 21 1169 140 849 tor 1 0.90 1.18 1.11 1.24 1.24 1.30 1.31 1.23 1.21 1.20 1.16 1.25	233 -1149 96 189 19 43 5 27 10 6 378 91 -41 2 117 0.88 1.08 1.12 1.18 1.27 1.25 1.24 1.19 1.17 1.15 1.16	114 168 -388 50 27 37 10 68 20 16 17 8 688 259 894 3 1.11 1.14 0.74 1.10 1.13 1.25 1.17 1.16 1.17 1.17	253 192 34 -1522 107 226 5 49 14 3 5 4 5 4 5 4 240 240 4 121 1.12 1.06 0.82 1.14 1.29 1.24 1.24 1.23 1.24 1.16 1.18	16 19 22 105 -1208 1253 173 262 56 46 20 17 598 1697 5 1.12 1.18 1.11 1.15 0.93 1.12 1.16 1.16 1.16	25 38 29 181 301 -5631 -99 304 473 334 91 84 120 123 120 124 103 0.90 0.98 1.04 121 121 121 121 121 121 121 12	7 1169 -1169 -152 144 133 29 34 313 34 -703 7 124 1.19 1.18 1.20 1.20 0.97 0.91 0.95 1.20 1.29	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694 8 1.16 1.18 1.11 1.21 1.14 1.10 0.87 1.07	11 11 16 64 678 213 227 -2217 -411 -37 95 915 49 -369 119 112 125 117 126 127 105 0.87 0.93 0.93 1.08	5 5 111 3 39 315 142 346 -402 -2247 45 124 932 20 -662 10 1.18 1.16 1.11 1.19 1.20 1.25 1.32 1.18 0.93 0.93 1.12 1.06	10 4 10 6 30 211 67 121 22 69 -463 15 491 31 622 11 1.16 1.08 1.21 1.16 1.37 1.42 1.15 1.04 1.22 1.77 1.04	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 1244 1244 125 1.19 1.10 1.24 1.15 1.24 1.25 1.24 1.25 1.26 1.27 1.28 1.24 1.27 1.28 1.29 1.20	636 266 333 321 235 1125 282 951 1174 1174 1126 260 908 12606 2355 22579 13 1.10 1.19 1.12 1.24 1.15 1.27 1.21 1.28 1.27 1.21 1.28	61 83 87 286 305 275 27 51 26 13 11 9 2241 -2690 785 14 1.18 1.15 1.10 1.16 1.12 1.33 1.24 1.23 1.24 1.23	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 1734 25546 Total 1.01 0.99 1.02 1.00 1.01 0.99 1.00 1.00
	1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 5 6 6 7 8 9 10 11 12 13 14 10 11 12 13 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1267 248 111 290 19 31 7 43 12 5 20 21 1169 140 849 tor 1 0.90 1.18 1.11 1.24 1.30 1.31 1.23 1.21 1.20 1.16 1.25 1.15 1.24	233 -1149 96 189 19 45 5 27 10 5 6 378 91 -41 2 117 0.88 1.08 1.12 1.18 1.27 1.25 1.24 1.19 1.17 1.15 1.16 1.22 1.12	114 168 -388 50 27 37 10 68 20 16 17 8 688 239 894 3 1.11 1.14 0.74 1.10 1.13 1.25 1.26 1.17 1.16 1.12 1.11	253 192 34 -1552 107 226 5 49 14 3 5 5 4 240 240 4 121 112 108 124 129 124 129 124 119 116 118 128 115	16 19 22 105 -1208 1253 173 262 56 46 20 17 317 598 1697 5 1.22 1.18 1.11 1.15 0.93 1.12 1.31 1.16 1.22 1.12 1.14	25 38 29 181 301 -5631 -99 304 473 334 91 84 1204 385 -2281 6 1.25 1.23 1.20 1.24 1.03 0.90 0.98 1.04 1.25 1.21 1.25 1.21 1.25 1.21 1.25 1.21 1.25 1.21 1.21 1.21 1.22 1.23 1.24 1.25 1.26 1.27 1.27 1.28 1.29 1.21 1.21 1.22 1.23 1.24 1.25 1.26 1.27 1.27 1.28 1.29 1.21 1.21 1.21 1.22 1.23 1.24 1.25 1.26 1.27 1.27 1.28 1.29 1.29 1.29 1.20	7 1.24 1.19 1.20 0.97 0.91 1.20 1.20 1.29 1.15 1.20	28 19 34 42 221 705 57 -2442 261 371 59 90 1164 84 694 8 1.16 1.18 1.11 1.21 1.14 1.10 1.02 0.87 1.02 1.02 1.02 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	11 11 16 64 678 213 227 -2217 -411 -37 95 915 49 -369 119 119 112 125 127 10,07 0,93 0,93 1,08 120 125	5 5 11 3 39 315 142 346 -402 -2247 45 124 932 20 -662 10 1.18 1.16 1.11 1.19 1.20 1.25 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32	10 4 10 6 30 211 67 121 22 69 -463 13 491 31 622 11 1.11 1.16 1.08 1.21 1.16 1.37 1.42 1.17 1.42 1.10 1.22 0.77 1.21 1.22 1.27 1.22 1.27 1.22 1.27	21 7 7 6 19 128 55 148 236 310 30 -1158 1411 24 1244 1244 125 1.19 1.10 1.24 1.28 1.28 1.23 1.18 1.07 0.70 0.70 0.70 0.70 0.70 1.15	636 266 333 321 125 282 951 1174 1126 260 908 12606 2355 22579 13 1.10 1.19 1.12 1.24 1.16 1.25 1.27 1.27 1.21 1.28	61 83 87 286 305 275 27 51 26 6 13 11 9 2241 -2690 785 14 1.18 1.15 1.10 1.16 1.12 1.34 1.33 1.22 1.14 1.23 1.22 1.14	151 -87 208 -53 285 -797 -227 6 -170 -228 90 257 24377 1734 25546 Total 1.01 0.99 1.02 1.00 0.99 1.01 0.99 1.01 0.99 1.01 0.999 1.01 1.00 0.999 1.01



Reference (Case - 2051	-1102													
Reference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	95103	2519	2309	787	23	36	8	75	16	20	22	43	7494	31	108486
2	2519	99790	2599	5682	47	54	10	46	21	12	5	18	181	262	111245
3	2309	2599	25480	7097	550	132	45	376	54	33	22	14	374	120	39206
4	787 23	5682	7097	73274	1080	157	11 1066	58 3111	10 264	11 92	2 41	3 39	127	1405 2613	89704
5 6	36	47 54	550 132	1080 157	54034	54034 459918	37829	25325	2395	836	144	163	184 458	2613 95	186378 581576
7	8	10	45	11	1066	37829	130664	27333	2187	462	34	67	115	7	199858
8	75	46	376	58	3111	25325	27333	181279	26976	3337	1797	721	407	22	270863
9	16	21	54	10	264	2395	2187	26976	145815	45745	5202	4264	379	14	233340
10	20	12	33	11	92	836	462	3337	45745	172190	513	7797	462	2	231510
11	22	5	22	2	41	144	54	1797	5202	513	15934	2565	610	3	26914
12	43	18	14	3	39	163	67	721	4264	7797	2565	45790	9027	10	70520
13 14	7494 31	181 262	374 120	127 1405	184 2613	458 95	115	407 22	379 14	462 2	610 3	9027 2	28769826 694	694 2880298	28790337 2885577
Total	108486	111245	39206	89704	186378	581576	199858	270863	233340	231510	26914		28790337	2885577	33825513
DM - 2051 -	- UC2														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	92286	3265	2846	1178	36	59	12	104	24	29	28	73	8642	48	108630
2	3265	97090	2978	7096	64	83	14	66	30	16	7	25	268	326	111330
3	2846	2978	22072	9162	639 1313	178 228	59 15	449 84	70	39	30	19	526	155	39222
4 5	1178 36	7096 64	9162 639	68735 1313	1313	228 57823	1500	84 3714	14 346	17 128	4 49	4 52	221 259	1679 2997	89752 186486
6	59	83	178	228	57823	450721	39810	27670	2971	1071	179	207	682	146	581829
7	12	14	59	15	1500	39810	126612	28285	2661	588	68	85	167	12	199888
8	104	66	449	84	3714	27670	28285	173868	28978	4065	2117	901	589	32	270922
9	24	30	70	14	346	2971	2661	28978	140218	46760	5727	5135	550	21	233504
10	29	16	39	17	128	1071	588	4065	46760	168866	637	8803	676	4	231698
11	28	7	30	4	49	179	68	2117	5727	637	14297	2948	824	5	26920
12 13	73 8642	25 268	19 526	221	52 259	207 682	85 167	901 589	5135 550	8803 676	2948 824	41584	10733	14 1095	70583 28929641
14	48	326	155	1679	2997	146	12	32	21	4	5	14	1095	2882992	2889525
Total	108630	111330	39222	89752	186486	581829	199888	270922	233504	231698	26920		28929641	2889525	33969931
,															
Difference															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-2816	746	537	392	14	23	4	29	7	9	5	30	1148	16	144
1 2	-2816 746	746 -2700	537 379	392 1415	14 17	23 30	4	29 20	7 9	9 5	5 2	30 8	1148 87	16 64	144 86
1 2 3	-2816	746 -2700 379	537 379 -3408	392	14	23	4	29	7	9 5 6	5 2 8	30 8 5	1148	16 64 35	144 86 16
1 2 3 4	-2816 746 537	746 -2700	537 379	392 1415 2065	14 17 89	23 30 46	4 4 14	29 20 73	7 9 16	9 5	5 2	30 8	1148 87 152	16 64	144 86
1 2 3	-2816 746 537 392	746 -2700 379 1415	537 379 -3408 2065	392 1415 2065 -4539	14 17 89 234	23 30 46 71	4 4 14 4	29 20 73 26	7 9 16 5	9 5 6 6	5 2 8 1	30 8 5	1148 87 152 94	16 64 35 274	144 86 16 49
1 2 3 4 5 6	-2816 746 537 392 14	746 -2700 379 1415 17	537 379 -3408 2065 89	392 1415 2065 -4539 234	14 17 89 234 -5673	23 30 46 71 3789	4 4 14 4	29 20 73 26 603	7 9 16 5 83	9 5 6 6 36	5 2 8 1 9	30 8 5 1	1148 87 152 94 75	16 64 35 274 385	144 86 16 49 108
1 2 3 4 5 6 7 8	-2816 746 537 392 14 23 4	746 -2700 379 1415 17 30 4	537 379 -3408 2065 89 46 14 73	392 1415 2065 -4539 234 71 4 26	14 17 89 234 -5673 3789 434 603	23 30 46 71 3789 -9197 1981 2345	4 14 4 434 1981 -4052 953	29 20 73 26 603 2345 953 -7411	7 9 16 5 83 576 474 2001	9 5 6 6 36 235 126 728	5 2 8 1 9 35 14 321	30 8 5 1 13 44 18	1148 87 152 94 75 224 52 183	16 64 35 274 385 51 4	144 86 16 49 108 253 30 59
1 2 3 4 5 6 7 8	-2816 746 537 392 14 23 4 29	746 -2700 379 1415 17 30 4 20 9	537 379 -3408 2065 89 46 14 73	392 1415 2065 -4539 234 71 4 26	14 17 89 234 -5673 3789 434 603 83	23 30 46 71 3789 -9197 1981 2345 576	4 4 14 4 434 1981 -4052 953 474	29 20 73 26 603 2345 953 -7411 2001	7 9 16 5 83 576 474 2001	9 5 6 6 36 235 126 728	5 2 8 1 9 35 14 321 525	30 8 5 1 13 44 18 179 870	1148 87 152 94 75 224 52 183 171	16 64 35 274 385 51 4 10 7	144 86 16 49 108 253 30 59
1 2 3 4 5 6 7 8 9	-2816 746 537 392 14 23 4 29 7	746 -2700 379 1415 17 30 4 20 9	537 379 -3408 2065 89 46 14 73 16 6	392 1415 2065 -4539 234 71 4 26 5	14 17 89 234 -5673 3789 434 603 83 36	23 30 46 71 3789 -9197 1981 2345 576 235	4 4 4 4 434 1981 -4052 953 474 126	29 20 73 26 603 2345 953 -7411 2001 728	7 9 16 5 83 576 474 2001 -5596	9 5 6 6 36 235 126 728 1015 -3324	5 2 8 1 9 35 14 321 525	30 8 5 1 13 44 18 179 870 1007	1148 87 152 94 75 224 52 183 171 214	16 64 35 274 385 51 4 10 7	144 86 16 49 108 253 30 59 164
1 2 3 4 5 6 7 8	-2816 746 537 392 14 23 4 29	746 -2700 379 1415 17 30 4 20 9	537 379 -3408 2065 89 46 14 73	392 1415 2065 -4539 234 71 4 26	14 17 89 234 -5673 3789 434 603 83	23 30 46 71 3789 -9197 1981 2345 576	4 4 14 4 434 1981 -4052 953 474	29 20 73 26 603 2345 953 -7411 2001	7 9 16 5 83 576 474 2001	9 5 6 6 36 235 126 728	5 2 8 1 9 35 14 321 525	30 8 5 1 13 44 18 179 870	1148 87 152 94 75 224 52 183 171	16 64 35 274 385 51 4 10 7	144 86 16 49 108 253 30 59
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1 2 3 4 5 6 7 8 9 10 11	-2816 746 537 392 14 23 4 29 7 9 5 30 1148	746 -2700 379 1415 17 30 4 20 9 5 2	537 379 -3408 2065 89 46 14 73 16 6 8 5	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94	14 17 89 234 -3673 3789 434 603 83 36 9	23 30 46 71 3789 -9197 1981 2345 576 235 35 44	4 4 14 4 434 1981 -4052 953 474 126 14	29 20 73 26 603 2345 953 -7411 2001 728 321 179	7 9 16 5 83 576 474 2001 -5596 1015 5225 870 171	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214	5 2 8 1 9 35 14 321 525 124 -1637 383	30 8 5 1 13 44 18 179 870 1007 383	1148 87 152 94 75 224 52 183 171 214 215	16 64 35 274 385 51 4 10 7	144 86 16 49 108 253 30 59 164 188 7
1 2 3 4 5 6 7 8 9 10 11 12 13	-2816 746 537 392 14 23 4 29 7 9 5 30	746 -2700 379 1415 17 30 4 20 9 5 2 8	537 379 -3408 2065 89 46 14 73 16 6 8	392 1415 2065 -4539 234 71 4 26 5 6 1 1 94	14 17 89 234 -3673 3789 434 603 83 36 9	23 30 46 71 3789 -9197 1981 2345 576 235 33 44 224	4 4 4 4 434 1981 -4052 953 474 126 14 18	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171	9 5 6 6 36 235 126 728 1015 -3324 124	5 2 8 1 9 35 14 321 525 124 -1637 383 215	30 8 5 1 13 44 18 179 870 1007 383 -4206	1148 87 152 94 75 224 52 183 171 214 215 1706	16 64 35 274 385 51 4 10 7 1 2 4 401	144 86 16 49 108 253 30 59 164 188 7 63
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2816 746 537 392 14 23 4 29 7 9 5 30 1148 16	746 -2700 379 1415 17 30 4 20 9 5 2 8 87 64	537 379 -3408 2065 89 46 14 73 16 6 8 5	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94	14 17 89 234 -5673 3789 434 603 83 36 9	23 30 46 71 3789 -9197 1981 2340 576 235 35 44 224 51	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10	7 9 16 5 83 576 474 2001 -5596 1015 5225 870 171	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706	1148 87 152 94 75 224 52 183 171 215 1706 134582 401	16 64 35 274 385 51 4 10 7 1 1 2 4 401	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949
1 2 3 4 5 6 7 8 9 10 11 12 13	-2816 746 537 392 14 23 4 29 7 9 5 30 1148 16 144	746 -2700 379 1415 17 30 4 20 9 5 2 8 87 64	537 379 -3408 2065 89 46 14 73 16 6 8 5 152 35	392 1415 2065 -4339 234 71 4 26 5 6 6 1 1 94 274	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385	23 30 46 71 3789 -9197 1981 2345 576 235 35 44 224 51	4 4 4 4 434 1981 -4052 933 474 126 14 18 52 4	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10	7 9 16 5 83 576 474 2001 -539 1015 1225 870 171 7	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304	16 64 35 274 385 51 4 10 7 1 1 2 4 401 2694	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2816 746 337 392 14 23 4 29 7 9 5 30 1148 16 144	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	537 379 -3408 2065 89 46 14 73 16 6 8 3 152 35	392 1413 2065 -4339 234 71 4 26 5 6 1 1 94 274 49	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 383 108	23 30 46 71 3789 -9197 1981 2345 576 235 33 44 224 51 253	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59	7 9 16 5 83 576 474 2001 -3596 1013 525 870 171 7	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 1 188	5 2 8 1 9 35 14 321 525 14-1637 383 215 2	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304	16 64 35 274 385 51 4 10 7 1 1 2 4 401 2694 3949	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2816 746 537 392 14 23 4 29 7 9 5 30 1148 16 144	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 946 14 73 16 6 8 5 152 33 16	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94 274 49	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108	23 30 46 71 3789 -9197 1981 2345 576 235 35 44 224 225 51 253	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4 30	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171 7 164	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 188	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304	16 64 35 274 4 385 51 4 10 7 7 1 2 2 4 401 2694 3949	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2816 746 337 392 14 23 4 29 7 9 5 30 1148 16 144	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	537 379 -3408 2065 89 46 14 73 16 6 8 3 152 35	392 1413 2065 -4339 234 71 4 26 5 6 1 1 94 274 49	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 383 108	23 30 46 71 3789 -9197 1981 2345 576 235 33 44 224 51 253	4 4 4 4 434 1981 -4052 933 474 126 14 18 52 4 30	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59	7 9 16 5 83 576 474 2001 -3596 1013 525 870 171 7	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 1 188	5 2 8 1 9 35 14 321 525 14-1637 383 215 2	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304	16 64 35 274 385 51 4 10 7 1 1 2 4 401 2694 3949	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac	-2816 746 537 392 14 23 4 29 7 9 5 30 1148 16 144	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	537 379 -3408 2065 89 46 14 73 16 6 8 5 152 35 16	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94 274 49	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108	23 30 46 71 3789 -9197 1981 2345 576 2255 35 44 224 51 253	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4 30	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171 7 164	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 188	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304	16 64 35 274 385 385 385 31 4 10 7 1 1 2 4 4 401 2694 3949	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac	-2816 746 537 392 144 23 4 29 7 9 5 30 1146 144 ctor 1 0.97 1.30 1.23	746 -2700 379 1415 17 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 35 16	392 1415 2065 -4339 234 71 4 26 5 6 1 1 1 94 274 49	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108	23 30 46 71 3789 -9197 1981 2345 576 235 35 44 224 51 253	4 4 4 4 434 1981 -4052 933 474 126 14 18 52 4 30	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 100 59	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171 7 164	9 5 6 6 36 235 126 728 1015 -3324 1027 214 1007 214 1 188	5 2 8 1 9 35 14 321 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304	16 64 35 274 4 385 51 4 10 7 7 1 2 2 4 4 401 2694 3949 14 1.52 1.24 1.29 1.15	144 86 16 49 108 253 30 59 164 188 7 63 139304 144419
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Growth Fac	-2816 746 537 392 14 23 4 29 5 30 1148 16 144 ttor 1 0.97 1.30 1.23 1.50 1.61	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 8 3 152 35 16 3 1.23 1.15 0.87 1.29 1.16 1.35	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94 274 49 49 1.50 1.25 1.29 0.34 1.22 1.45	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 383 108 5 1.61 1.37 1.16 1.22 0.95 1.07	23 30 46 71 3789 -9197 1981 2340 576 2255 35 44 224 51 253 6 1.64 1.55 1.35 1.45 1.07 0.98	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4 30 7 7.1.53 1.43 1.31 1.31 1.31	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59 8 1.39 1.43 1.19 1.19	7 9 16 5 3 3 576 474 2001 -5596 1015 525 870 177 164 9 1.45 1.43 1.31 1.31	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 188	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304 13 1.15 1.48 1.41 1.74 1.41	16 64 35 274 4 10 7 7 7 1 2 4 401 2694 3949 14 1.52 1.24 1.29 1.15 1.34	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419 Total 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 7 8 9 100 111 122 13 14 Total	-2816 746 537 392 144 23 4 29 7 9 5 30 1148 16 144 ctor 1 0.97 1.30 1.23 1.50 1.64 1.53	746 -2700 379 1415 177 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 35 16 3 1.23 1.13 0.87 1.29 1.16 1.35 1.35	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94 274 49 49 1.50 1.25 1.29 0.94 1.25 1.29	14 17 89 234 -5673 3789 434 603 83 36 9 13 7 385 108 5 1.61 1.37 1.16 1.22 0.95 1.07	23 30 46 71 3789 -9197 1981 2345 576 225 35 44 224 511 253 6 6 1.64 1.55 1.35 1.45 1.07 0.98 1.05	4 4 4 4 434 1981 -4052 933 474 126 14 18 52 4 30 7 7.1.53 1.43 1.31 1.38 1.41 1.00 0.97	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59 8 1.39 1.43 1.19 1.45 1.19 1.09	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171 7 164 9 1.45 1.43 1.31 1.49 1.31 1.24	9 5 6 6 36 235 126 728 1015 -3324 1007 214 1 188 10 1.47 1.40 1.19 1.52 1.40 1.28	5 2 8 1 9 35 14 321 525 124 -1637 383 215 7 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304 13 1.15 1.48 1.41 1.74 1.41 1.49	16 64 35 274 385 385 51 4 10 7 1 1 2 4 4 401 2694 3949 14 1.52 1.24 1.29 1.19 1.15 1.54	144 86 16 49 108 253 30 59 164 188 7 63 139304 144419 Total 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 7 8 8 9 10 11 12 13 14 Total Scrowth Fac	-2816 746 537 392 144 23 4 29 7 9 5 30 1148 144 2tor 1 0.97 1.30 1.61 1.64 1.53 1.39	746 -2700 379 1415 17 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 35 16 3 1.23 1.15 0.87 1.29 1.16 1.31 1.19	392 1415 2065 -4339 234 71 4 26 5 6 1 1 1 94 274 49 4 1.50 1.25 1.29 0.94 1.22 1.45 1.38 1.45	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108 5 1.61 1.37 1.16 1.22 0.95 1.41 1.19	23 30 46 71 3789 -9197 1981 2345 576 235 35 44 224 51 253 6 6 1.64 1.55 1.45 1.07 0.98 1.09	4 4 4 4 434 1981 -4052 933 474 126 14 18 52 4 30 7 7 1.53 1.43 1.31 1.38 1.41 1.09 97 1.03	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59 8 8 1.39 1.43 1.19 1.45 1.19 1.03	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171 7 164 9 1.43 1.43 1.31 1.49 1.31 1.22 1.07	9 5 6 6 36 235 126 728 1015 -3324 1027 214 1 188 10 1.47 1.40 1.19 1.52 1.40 1.22	5 2 8 1 9 35 14 321 525 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63 12 1.70 1.42 1.32 1.55 1.35 1.27 1.27	1148 87 152 94 75 224 52 183 171 215 1706 134582 401 139304 13 1.15 1.48 1.41 1.74 1.41 1.42 1.45 1.45	16 64 35 274 385 381 4 10 7 1 1 2 4 4 401 2694 3949 14 1.52 1.24 1.29 1.19 1.15 1.58 1.45	144 86 16 49 108 253 30 59 164 188 7 63 139304 144419 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2816 746 537 392 14 4 23 4 29 7 9 5 30 1148 16 144 ctor 1 0.97 1.30 1.23 1.50 1.61 1.64 1.53 1.39 1.45	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 35 16 3 1.15 0.87 1.29 1.16 1.35 1.31	392 1415 2065 -4539 234 71 4 26 6 1 1 1 94 274 49 4 1.50 1.25 1.29 0.94 1.22 1.45 1.38 1.49	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108 5 1.61 1.37 1.16 1.22 0.95 1.07	23 30 46 71 3789 -9197 1981 2345 576 6235 33 44 224 51 253 6 1.64 1.55 1.45 1.07 0.98 1.07	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4 30 7 1.53 1.43 1.31 1.32 1.41 1.05 0.97 1.03	29 20 73 26 603 2345 933 -7411 2001 728 321 179 183 10 59 8 1.39 1.43 1.19 1.09 1.09 1.09	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171 7 164 -9 1.43 1.43 1.31 1.24 1.22 1.07 0.96	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 188 10 1.47 1.40 1.19 1.52 1.40 1.28 1.22 1.22	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304 13 1.15 1.48 1.41 1.74 1.41 1.49 1.45 1.45 1.45	16 64 35 274 4 385 51 4 10 7 1 2 2 4 4 401 2694 1.52 1.24 1.29 1.15 1.54 1.48 1.45 1.48 1.45 1.48	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total 2 3 4 5 6 7 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	-2816 746 537 392 14 23 4 29 5 30 1148 16 144 ctor 1 0.97 1.30 1.23 1.50 1.61 1.64 1.53 1.39 1.45 1.47	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 33 16 3 1.23 1.15 0.87 1.29 1.16 1.35 1.31 1.19	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94 274 49 4 1.50 1.25 1.29 0.94 1.22 1.45 1.38 1.45 1.49	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108 5 1.61 1.37 1.16 1.20 0.95 1.07 1.41 1.19	23 30 46 71 3789 -9197 1981 2345 576 235 35 44 224 224 253 35 44 1.255 1.64 1.55 1.45 1.07 0.98 1.07 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4 30 7 7 1.53 1.43 1.31 1.31 1.05 0.97 1.05 0.97	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59 1.43 1.19 1.09 1.03 0.96 1.07	7 9 16 5 5 83 576 474 2001 -5596 1015 525 870 171 7 164 -9 1.45 1.43 1.31 1.24 1.22 1.07 0.96 1.02	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 188 10 1.47 1.40 1.19 1.28 1.27 1.22 1.20 1.20 1.20 1.20 1.20 1.20 1.20	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304 1.15 1.48 1.41 1.41 1.42 1.45 1.45 1.45 1.45	16 64 35 274 4 385 51 4 10 7 7 1 2 2 4 4 401 2694 3949 14 1.52 1.24 1.29 1.15 1.54 1.58 1.45 1.46 1.56	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2816 746 537 392 14 4 23 4 29 7 9 5 30 1148 16 144 ctor 1 0.97 1.30 1.23 1.50 1.61 1.64 1.53 1.39 1.45	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 35 16 3 1.15 0.87 1.29 1.16 1.35 1.31	392 1415 2065 -4539 234 71 4 26 6 1 1 1 94 274 49 4 1.50 1.25 1.29 0.94 1.22 1.45 1.38 1.49	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108 5 1.61 1.37 1.16 1.22 0.95 1.07	23 30 46 71 3789 -9197 1981 2345 576 235 33 44 224 51 253 6 1.64 1.55 1.45 1.07 0.98 1.07	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4 30 7 1.53 1.43 1.31 1.32 1.41 1.05 0.97 1.03	29 20 73 26 603 2345 933 -7411 2001 728 321 179 183 10 59 8 1.39 1.43 1.19 1.09 1.09 1.09	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171 7 164 -9 1.43 1.43 1.31 1.24 1.22 1.07 0.96	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 1 188 10 1.47 1.40 1.19 1.52 1.40 1.28 1.22 1.22	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304 13 1.15 1.48 1.41 1.74 1.41 1.49 1.45 1.45 1.45	16 64 35 274 4 385 51 4 10 7 1 2 2 4 4 401 2694 1.52 1.24 1.29 1.15 1.54 1.48 1.45 1.48 1.45 1.48	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 7 8 9 10 11 12 2 3 3 4 4 5 6 7 7 8 9 9 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-2816 746 537 392 144 23 4 29 7 9 5 30 1148 16 144 ttor 1 0.97 1.30 1.23 1.50 1.61 1.64 1.53 1.39 1.45 1.47	746 -2700 379 1413 177 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 35 16 3 1.15 0.87 1.29 1.16 1.35 1.31 1.19 1.36	392 1415 2065 -4339 234 71 4 26 5 6 1 1 1 94 274 49 49 1.50 1.25 1.29 0.94 1.22 1.45 1.38 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108 5 1.61 1.37 1.16 1.22 0.95 1.07 1.41 1.19 1.31	23 30 46 71 3789 -9197 1981 2345 576 235 35 44 224 51 253 6 1.64 1.55 1.35 1.45 1.07 0.98 1.09 1.09	4 4 4 4 434 1981 -4052 933 474 126 14 18 52 4 30 7 7 1.53 1.43 1.31 1.31 1.32 1.41 1.05 0.97 1.03	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59 8 1.39 1.43 1.19 1.49 1.09 1.03 0.96 1.07	7 9 16 5 83 576 474 2001 -5596 1015 525 870 171 7 164 9 1.45 1.43 1.31 1.24 1.22 1.07 0.96 1.02 1.10	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 188 10 1.47 1.40 1.19 1.52 1.40 1.28 1.27 1.22 1.09 1.28	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63 12 1.70 1.42 1.32 1.35 1.27 1.27 1.27 1.25 1.20 1.13	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304 13 1.15 1.48 1.41 1.74 1.41 1.49 1.45 1.45 1.45 1.45	16 64 35 274 385 51 4 10 7 7 1 1 2 4 401 2694 3949 14 1.52 1.24 1.29 1.15 1.34 1.58 1.45 1.45 1.45 1.46 1.46 1.46 1.46 1.46 1.46 1.46 1.46	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419 Total 1.00 1.0
1 2 3 4 5 6 7 8 9 10 11 2 2 3 4 4 5 6 7 8 9 10 11 12 13 14 Total	-2816 746 537 392 14 23 4 29 7 9 5 30 1148 16 144 tter 1 0.97 1.30 1.61 1.64 1.73 1.33 1.45 1.47 1.24 1.77 1.24 1.75	746 -2700 379 1413 17 30 4 20 9 5 2 8 87 64 86	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 33 16 3 1.23 1.15 0.87 1.29 1.16 1.35 1.31 1.19 1.36 1.31 1.19 1.36 1.31 1.19 1.31 1.19 1.31 1.31 1.19 1.31 1.31 1.19 1.31	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94 274 49 4 1.50 1.25 1.29 0.94 1.22 1.45 1.38 1.45 1.49 1.53 1.53	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108 5 1.61 1.37 1.16 1.22 0.95 1.07 1.41 1.13 1.40 1.21 1.31	23 30 46 71 3789 -9197 1981 2345 576 6 235 33 44 224 225 31 253 6 1.64 1.35 1.45 1.07 0.38 1.07 1.08 1.09 1.24 1.28 1.24 1.24 1.25	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4 30 7 7 1.53 1.43 1.31 1.38 1.41 1.05 0.97 1.05 1.22 1.27 1.27 1.25	29 20 73 26 603 2345 953 -7411 2001 728 321 179 183 10 59 1.43 1.19 1.09 1.03 0.96 1.07 1.22 1.18 1.22 1.18	7 9 16 5 33 576 474 2001 1015 525 870 171 7 164 9 1.45 1.43 1.31 1.24 1.22 1.07 0.96 1.02 1.10 1.10 1.10 1.10 1.10 1.10 1.10	9 5 6 6 36 235 126 728 1015 -3324 124 1007 214 1 188 10 1.47 1.40 1.19 1.52 1.40 1.28 1.27 1.22 1.02 0.98 1.24 1.14 1.156	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63 170 1,42 1,53 1,27 1,27 1,27 1,27 1,27 1,27 1,27 1,27	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304 1.15 1.48 1.41 1.41 1.49 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45	16 64 35 274 4 385 51 4 10 7 7 1 2 2 4 4 401 2694 3949 1.52 1.24 1.58 1.56 1.49 1.48 1.56 1.49 1.43 1.58 1.00	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419 Total 1.00 1.0
1 2 3 4 5 6 7 7 8 8 9 10 11 12 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-2816 746 537 392 14 4 23 4 29 7 9 5 30 1148 16 144 20 10 10 10 10 10 10 10 10 10 1	746 -2700 379 1413 17 300 4 200 9 5 2 8 87 64 86 2 130 0.97 115 125 137 155 143 143 140 147 142 148	337 379 -3408 2065 89 46 14 73 16 6 8 5 152 35 16 3 1.15 0.87 1.29 1.16 1.35 1.31 1.19 1.31 1.19 1.36 1.32 1.41	392 1415 2065 -4539 234 71 4 26 5 6 1 1 1 94 274 49 4 1.50 1.25 1.25 1.29 1.45 1.38 1.49 1.52 1.53 1.53 1.53 1.53 1.53 1.53 1.53 1.53	14 17 89 234 -5673 3789 434 603 83 36 9 13 75 385 108 5 1.61 1.37 1.16 1.22 0.95 1.07 1.41 1.19 1.31 1.40 1.21 1.33 1.40	23 30 46 71 3789 -9197 1981 2345 576 6 235 33 44 224 21 253 6 1.64 1.55 1.45 1.07 0.98 1.07 1.09 1.24 1.28 1.24 1.28 1.24 1.24 1.24 1.24 1.25 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26	4 4 4 4 434 1981 -4052 953 474 126 14 18 52 4 30 7 1.53 1.43 1.31 1.38 1.41 1.05 0.97 1.03	29 20 73 26 603 2345 933 -7411 2001 728 321 179 183 10 59 8 1.39 1.43 1.19 1.09 1.09 1.07 1.22 1.22 1.22 1.22 1.22 1.22 1.22 1.2	9 1.45 1.43 1.31 1.24 1.22 1.07 0.96 1.02 1.45	9 5 6 6 36 235 125 728 1015 -3324 124 1007 214 1 188 10 1.47 1.40 1.19 1.52 1.40 1.28 1.27 1.20 1.28 1.27 1.21 1.22 1.22 1.22 1.23 1.24 1.24 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	5 2 8 1 9 35 14 321 525 124 -1637 383 215 2 7	30 8 5 1 13 44 18 179 870 1007 383 -4206 1706 4 63 12 1.70 1.42 1.35 1.27 1.25 1.27 1.25 1.20 1.13 1.15	1148 87 152 94 75 224 52 183 171 214 215 1706 134582 401 139304 13 1.15 1.48 1.41 1.74 1.41 1.49 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1.45	16 64 35 274 4 385 51 4 10 7 11 2 2 4 4 10 12 594 1.52 1.24 1.29 1.15 1.54 1.56 1.48 1.56 1.49 1.58	144 86 16 49 108 253 30 59 164 188 7 63 139304 3949 144419 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0



Reference	Case - 2051 -	·UC3													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	97953	1465	1867	516	49	69	16	110	39	16	54	46	4650	75	106927
2	1426	77396	1916	3258	47	87	15	67	47	19	22	27	123	185	84636
3 4	1819 604	1925 3429	32552 3388	3321 81174	264 727	105	28 19	288 44	118 38	47 10	96 12	44 12	378 57	168 1621	41153 91333
5	50	44	252	686	138549	199 49979	552	2355	154	59	83	62	368	4130	197322
6	73	89	107	224	48082	514223	44512	20434	1963	493	155	246	1051	402	632054
7	18	16	34	19	535	44046	120535	24382	1311	221	46	101	237	38	191539
8	118	70	290	56	2361	21540	25217	159979	19064	1896	1350	459	539	91	233029
9	40	41	120	41	128	1893	1328	18804	151592	44993	3257	3010	1058	55	226360
10	19	18	53	11	62	513	251	1920	46476	173934	233	7482	592	32	231595
11 12	61 48	23	97 44	9 13	62 67	131 245	58 102	1324 411	3162 3408	266 9102	23023 1540	1822 74560	287 16673	24 29	30349 106268
13	5753	141	496	83	441	1211	281	648	595	435	376		45728290	702	45754740
14	44	147	132	1895	5636	227	34	63	67	33	26	27	184	4050149	4058664
Total	108026	84828	41346	91304	197009	634470	192946	230827	228035	231526	30274	103187	45754487	4057702	51985968
DM - 2051 -	-1103														
DIN 2002	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	94254	2185	2700	919	107	147	30	194	66	28	82	91	6819	133	107756
2	2142	74672	2502	4442	90	173	26	116	76	31	35	45	232	286	84870
3	2619	2485	28897	5322	427	209	51	442	190	73	142	67	658	259	41842
4	1063	4687	5545	74588	1053	349	31	78	68	18	20	22	116	2307	89944
5 6	109 157	86 177	408 215	985 388	131698 54390	55922 493001	963 47866	3206 24546	242 2939	104 777	126 238	104 401	660 1924	5238 781	199850 627800
7	35	29	62	32	941	47345	113334	25979	1918	347	70	161	440	70	190762
8	207	121	448	94	3226	25325	26602	151072	21807	2779	1849	678	964	156	235327
9	68	67	198	71	204	2803	1907	21561	142257	46872	3987	4272	1626	96	225989
10	32	30	83	19	110	814	393	2863	48608	166688	365	9381	1021	57	230464
11	94	34	146	15	97	203	85	1814	3787	400	20979	2388 67388	508	38	30589
12 13	95 8469	40 258	67 858	22 157	110 775	389 2144	157 501	597 1124	4659 1005	11005 771	1992 645		21939 45762439	48 1159	108505 45801070
14	82	224	207	2580	6751	448	61	109	112	58	40	46	341	4051120	4062180
Total	109427	85095	42335	89635	199980	629272	192007	233700	227734	229953	30570	105808	45799685	4061747	52036947
															•
Difference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Difference 1	1 -3699	720	3 833	403	5	6 78	7	8	9 27	10	11	12 45	13 2169	14	Total 830
1 2 3	-3699 716 801	720 -2724 560	833 586 -3655	403 1184 2001	58 43 163	78 86 104	15 12 22	84 50 153	27 29 71	11 12 26	28 13 46	45 18 24	2169 109 280	59 101 91	830 234 688
1 2 3 4	-3699 716 801 459	720 -2724 560 1258	833 586 -3655 2156	403 1184 2001 -6586	58 43 163 326	78 86 104 150	15 12 22 12	84 50 153 34	27 29 71 30	11 12 26 8	28 13 46 8	45 18 24 10	2169 109 280 59	59 101 91 686	830 234 688 -1389
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1 2 3 4 5 6	-3699 716 801 459 59 83 17	720 -2724 560 1258 41 88 13	833 586 -3655 2156 156 108 28	403 1184 2001 -6586 300 164	58 43 163 326 -6851 6308 406	78 86 104 150 5943 -21222 3299	15 12 22 12 411 3355 -7201	84 50 153 34 851 4112 1597	27 29 71 30 88 976 607	11 12 26 8 45 284 126	28 13 46 8 44 82 24	45 18 24 10 42 155 60	2169 109 280 59 292 873 203	59 101 91 686 1108 378 32	830 234 688 -1389 2528 -4255 -777
1 2 3 4 5 6 7 8 9	-3699 716 801 459 59 83 17 89 28	720 -2724 560 1258 41 88 13 51 25	833 586 -3655 2156 156 108 28 158 78 30	403 1184 2001 -6586 300 164 12 39 30 8	58 43 163 326 -6851 6308 406 865 76 48	78 86 104 150 5943 -21222 3299 3785 910 300	15 12 22 12 411 3355 -7201 1385 579 143	84 50 153 34 851 4112 1597 -8907 2757 943	27 29 71 30 88 976 607 2744 -9335 2132	11 12 26 8 45 284 126 883 1879	28 13 46 8 44 82 24 499 731	45 18 24 10 42 155 60 219 1262 1899	2169 109 280 59 292 873 203 425 568 429	59 101 91 686 1108 378 32 64 40	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131
1 2 3 4 5 6 7 8 9	-3699 716 801 459 59 83 17 89 28 13	720 -2724 560 1258 41 88 13 51 25	833 586 -3655 2156 156 108 28 158 78 30 49	403 1184 2001 -6586 300 164 12 39 30 8	58 43 163 326 -6851 6308 406 865 76 48 35	78 86 104 150 5943 -21222 3299 3785 910 300 71	15 12 22 12 411 3355 -7201 1385 579 143 28	84 50 153 34 851 4112 1597 -8907 2757 943 490	27 29 71 30 88 976 607 2744 -9335 2132 625	11 12 26 8 45 284 126 883 1879 -7245	28 13 46 8 44 82 24 499 731 133	45 18 24 10 42 155 60 219 1262 1899 566	2169 109 280 39 292 873 203 425 568 429 221	59 101 91 686 1108 378 32 64 40 25	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241
1 2 3 4 5 6 7 8 9 10 11	-3699 716 801 459 59 83 17 89 28 13 33 47	720 -2724 560 1258 41 88 13 51 25 11 12	833 586 -3655 2156 156 108 28 158 78 30 49	403 1184 2001 -6586 300 164 12 39 30 8 6	58 43 163 326 -6851 6308 406 865 76 48 35 43	78 86 104 150 5943 -21222 3299 3785 910 300 71 143	15 12 22 12 411 3355 -7201 1385 579 143 28	84 50 153 34 851 4112 1597 -8907 2757 943 490 186	27 29 71 30 88 976 607 2744 -9335 2132 625	11 12 26 8 45 284 126 883 1879 -7245 133	28 13 46 8 44 82 24 499 731 133 -2044	45 18 24 10 42 155 60 219 1262 1899 566	2169 109 280 59 292 873 203 425 568 429 221	59 101 91 686 1108 378 32 64 40 25 14	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237
1 2 3 4 5 6 7 8 9 100 11 12 13	-3699 716 801 459 59 83 17 89 28 13 33 47 2716	720 -2724 560 1258 41 88 13 51 25 11 12	833 586 -3655 2156 156 108 28 158 78 30 49 23 362	403 1184 2001 -6586 300 164 12 39 30 8 6	58 43 163 326 -6851 6308 406 865 76 48 35 43	78 86 104 130 5943 -21222 3299 3785 910 300 71 143 934	15 12 22 12 411 3355 -7201 1385 579 143 28 55 220	84 50 153 34 851 4112 1597 -8907 2757 943 490 186 477	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 411	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336	28 13 46 8 44 82 24 499 731 133 -2044 451 269	45 18 24 10 42 153 60 219 1262 1899 566 -7173	2169 109 280 59 292 873 203 425 568 429 221 5266 34148	59 101 91 686 1108 378 32 64 40 25 14 19	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330
1 2 3 4 5 6 7 8 9 10 11	-3699 716 801 459 59 83 17 89 28 13 33 47	720 -2724 560 1258 41 88 13 51 25 11 12	833 586 -3655 2156 156 108 28 158 78 30 49	403 1184 2001 -6586 300 164 12 39 30 8 6	58 43 163 326 -6851 6308 406 865 76 48 35 43	78 86 104 150 5943 -21222 3299 3785 910 300 71 143	15 12 22 12 411 3355 -7201 1385 579 143 28	84 50 153 34 851 4112 1597 -8907 2757 943 490 186	27 29 71 30 88 976 607 2744 -9335 2132 625	11 12 26 8 45 284 126 883 1879 -7245 133	28 13 46 8 44 82 24 499 731 133 -2044	45 18 24 10 42 155 60 219 1262 1899 566	2169 109 280 59 292 873 203 425 568 429 221	59 101 91 686 1108 378 32 64 40 25 14	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237
1 2 3 4 5 6 7 8 9 10 11 12 13 14	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38	720 -2724 560 1258 41 88 13 51 25 11 12 15 117 77	833 586 -3655 2156 156 108 28 158 78 30 49 23 362 75	403 1184 2001 -6586 300 164 12 39 30 8 6 9 74	58 43 163 326 -6851 6308 406 865 76 48 35 43	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221	15 12 22 411 3355 -7201 1385 579 143 28 55 220 27	84 50 153 34 851 4112 1597 -8907 2757 943 490 186 477 46	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 411	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25	28 13 46 8 44 82 24 499 731 133 -2044 451 269	45 18 24 10 42 155 60 219 1262 1899 566 -7173 5476	2169 109 280 59 292 873 203 425 568 429 221 5266 34148	59 101 91 686 1108 378 32 64 40 25 14 19 456	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516
1 2 3 4 5 6 7 8 9 10 11 12 13 14	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38 1401	720 -2724 560 1258 41 88 13 51 25 11 12 15 117 77 266	833 586 -3655 2156 156 108 28 158 78 30 49 23 362 75 989	403 1184 2001 -6386 3000 164 12 39 30 8 8 6 9 74 685 -1669	58 43 163 326 -6851 6308 406 865 76 48 33 43 334 1113 2971	78 86 104 105 5943 -21222 3299 3785 910 3000 71 143 934 221 -5198	15 12 22 21 411 3355 -7201 1385 579 143 28 55 220 27	84 50 133 34 851 4112 1597 -8907 2757 943 490 186 477 45 2872	27 29 71 30 88 976 607 2744 -9332 2132 625 1251 411 44	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574	28 13 46 8 44 482 24 499 731 133 -2044 451 269 14	43 18 24 10 42 153 60 219 1262 1899 366 -7173 3476 19 2621	2169 109 280 39 292 873 203 425 568 429 221 5266 34148 158	59 101 91 686 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38	720 -2724 560 1258 41 88 13 51 25 11 12 15 117 77 266	833 586 -3655 2156 108 28 158 78 300 49 23 362 75 989	403 1184 2001 -6366 300 164 12 39 30 8 6 9 74 685 -1669	58 43 163 326 -6851 6308 406 865 76 48 35 43 334 1115 2971	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221 -5198	15 12 22 21 411 3355 -7201 1385 579 143 28 55 220 27 -939	84 50 133 34 851 4112 1597 -8907 2737 943 490 186 477 46 2872	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 411 44 -300	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574	28 13 46 8 44 82 24 499 731 133 -2044 451 269 14	43 18 24 10 42 153 60 219 1262 1899 566 -7173 3476 19 2621	2169 109 280 39 292 873 203 425 568 429 221 5266 34148 158	59 101 91 686 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38 1401	720 -2724 560 1258 41 88 13 51 25 11 12 15 117 77 266	833 586 -3655 2156 156 108 28 158 78 30 49 23 362 75 989	403 1184 2001 -6386 3000 164 12 39 30 8 8 6 9 74 685 -1669	58 43 163 326 -6851 6308 406 865 76 48 33 43 334 1113 2971	78 86 104 105 5943 -21222 3299 3785 910 3000 71 143 934 221 -5198	15 12 22 21 411 3355 -7201 1385 579 143 28 55 220 27	84 50 133 34 851 4112 1597 -8907 2757 943 490 186 477 45 2872	27 29 71 30 88 976 607 2744 -9332 2132 625 1251 411 44	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574	28 13 46 8 44 482 24 499 731 133 -2044 451 269 14	43 18 24 10 42 153 60 219 1262 1899 366 -7173 3476 19 2621	2169 109 280 39 292 873 203 425 568 429 221 5266 34148 158	59 101 91 686 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3699 716 801 459 59 83 17 89 28 13 33 33 47 2716 38 1401	720 -2724 560 1258 41 88 13 51 12 25 11 12 15 17 77 266	833 586 -3655 2156 156 108 28 158 30 49 23 362 75 989	403 1184 2001 -638 300 164 12 39 300 8 6 9 74 683 -1669	58 43 163 326 -6851 6308 406 865 76 48 35 43 334 1115 2971	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221 -5198	15 12 22 411 3355 -7201 1385 579 143 28 55 220 27 -939	84 50 133 851 4112 1597 -8907 2757 943 490 186 477 46 2872	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 411 44 -300	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574	28 13 46 8 44 82 24 499 731 133 -2044 451 269 14 297	43 18 24 100 42 153 60 219 1262 1899 566 -7173 5476 19 2621	2169 109 280 59 292 873 203 425 568 429 221 5266 34148 138 45198	59 101 91 686 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38 1401 ctor 1 0.96 1.30 1.44 1.76	720 -2724 560 1258 41 88 13 51 12 15 117 77 266 2 1.49 0.96 1.29 1.37	833 586 -3655 2156 108 28 158 78 30 49 23 362 75 989 3 1.45 1.31 0.89 1.64	403 1184 2001 -6366 300 164 12 39 30 8 6 9 74 683 -1669	58 43 163 326 -6851 6308 406 865 76 48 33 43 334 1115 2971 5 2.18 1.91 1.62 1.43	78 86 104 105 5943 -21222 3299 3785 910 3000 71 143 934 221 -5198 6 2.12 1.98 1.75	15 12 22 411 3355 -7201 1385 579 143 28 55 220 27 -939	84 50 133 34 851 4112 1597 -8907 2757 943 490 186 477 46 2872	27 29 71 30 88 976 607 2744 -933 2132 623 1251 411 44 -300 9 1.68 1.61 1.60	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574	28 13 46 8 44 499 731 133 -2044 451 269 14 297	43 18 24 10 42 153 60 219 1262 1899 566 -7173 5476 19 2621	2169 109 280 59 292 873 203 425 568 429 221 5266 34148 158 45198	59 101 91 686 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.00 1.02 0.98
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total 5 Growth Face	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38 1401 ttor 1 0.96 1.50 1.46 1.76 2.18	720 -2724 560 1258 41 88 13 51 12 12 15 117 77 266	833 586 -3655 2156 108 28 158 30 49 23 362 75 989 3 1.45 1.31 0.89 1.64 1.62	403 1184 2001 -638 300 164 12 39 300 8 6 9 74 683 -1669	58 43 163 326 -6851 6308 406 865 76 48 35 48 33 41115 2971 5 2.18 1.91 1.62 0.95	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221 -5198 6 2.12 1.98 1.99	15 12 22 411 3355 -7201 1385 579 143 28 55 220 27 -939 1.82 1.79 1.65	84 50 133 851 4112 1597 -8907 2757 943 490 186 477 46 2872 8 1.76 1.74 1.53 1.75 1.36	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 441 -300 9 1.68 1.61 1.60 1.80	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574	28 13 46 8 44 82 24 499 731 133 -2044 451 269 14 297	45 18 24 10 42 155 60 219 1262 1899 566 -7173 5476 19 2621 12 1.97 1.66 1.54 1.83 1.67	2169 109 280 59 292 873 203 425 568 429 221 5266 34148 138 45198	59 101 91 686 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Srowth Fac	-3699 716 801 459 59 83 17 89 28 13 33 34 7 2716 38 1401 ttor 1 0.96 1.50 1.44 1.76 2.18 2.14	720 -2724 560 1258 41 88 13 51 12 15 117 77 266 2 1.49 0.96 1.29 1.37 1.94 1.99	833 586 -3655 2156 108 28 108 28 30 49 23 362 75 989 3 1.43 1.31 0.89 1.62 2.01	403 1184 2001 -6386 300 164 12 39 30 8 6 9 74 655 -1669	58 43 163 326 -6851 6308 406 865 76 48 35 43 334 1115 2971 5 2.18 1.91 1.62 1.42 0.95 1.13	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221 -5198 6 2.12 1.98 1.99 1.75	15 12 22 411 3355 -7201 1385 579 143 28 55 220 27 -939 7 1.93 1.82 1.79 1.74	84 50 133 851 4112 1597 -8907 2757 943 490 186 2872 8 1.76 1.74 1.33 1.76 1.36 1.20	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 441 -300 9 1.68 1.61 1.80 1.57 1.50	11 12 26 8 45 284 128 883 1879 -7245 133 1902 336 25 -1574	28 13 46 8 44 82 24 499 731 133 -2044 451 267 14 297	43 18 24 10 42 153 60 219 1262 1899 566 -7173 5476 19 2621 12 1.97 1.66 1.54 1.63 1.67 1.63	2169 109 280 59 292 873 203 425 568 429 221 5266 34148 158 45198	59 101 91 686 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.01 1.00 1.02 0.99
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Scrowth Fac	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38 1401 ttor 1 0.96 1.50 1.44 1.76 2.18 2.14 1.94	720 -2724 560 1258 41 88 13 51 12 15 117 77 266 2 1.49 0.96 1.29 1.37 1.99 1.85	833 586 -3655 2156 126 128 138 78 30 49 23 362 75 989 3 1.45 1.31 0.89 1.64 1.62 2.01 1.82	403 1184 2001 -638 300 164 12 39 30 8 6 9 74 685 -1669 4 1.78 1.36 1.80 0.92 1.47 1.73 1.65	58 43 163 326 -6851 6308 406 865 76 48 35 43 33 41115 2971 5 2.18 1.91 1.62 1.45 0.93 1.13	78 86 104 150 5943 -21222 3299 3765 910 71 143 934 221 -5198 6 2.12 1.98 1.99 1.75 1.12 0.96	15 12 22 411 3355 -7201 1385 579 143 28 553 220 27 -939 7 1.93 1.82 1.79 1.65 1.74	84 50 133 34 4112 1597 -8907 2757 943 490 186 477 46 2872 8 1.76 1.74 1.53 1.76 1.30 1.20 1.20	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 414 -300 9 1.68 1.61 1.60 1.80 1.50	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574 10 1.70 1.62 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	28 13 46 8 44 49 731 133 -2044 451 267 14 297	43 18 24 10 42 153 60 219 1262 1899 566 -7173 5476 19 2621 12 1.97 1.66 1.54 1.83 1.67 1.63 1.59	2169 109 280 59 292 873 203 425 566 34148 158 45198 1.47 1.89 1.74 2.04 1.79 1.83 1.85	59 101 91 686 1108 378 32 64 40 109 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.01 1.00 1.02 0.98 1.01 0.99
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 Total 5 2 3 4 5 6	-3699 716 801 459 59 83 17 89 28 13 33 34 7 2716 38 1401 ttor 1 0.96 1.50 1.44 1.76 2.18 2.14	720 -2724 560 1258 41 88 13 51 12 15 117 77 266 2 1.49 0.96 1.29 1.37 1.94 1.99	833 586 -3655 2156 108 28 108 28 30 49 23 362 75 989 3 1.43 1.31 0.89 1.62 2.01	403 1184 2001 -6386 300 164 12 39 30 8 6 9 74 655 -1669	58 43 163 326 -6851 6308 406 865 76 48 35 43 334 1115 2971 5 2.18 1.91 1.62 1.42 0.95 1.13	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221 -5198 6 2.12 1.98 1.99 1.75	15 12 22 411 3355 -7201 1385 579 143 28 55 220 27 -939 7 1.93 1.82 1.79 1.74	84 50 133 851 4112 1597 -8907 2757 943 490 186 2872 8 1.76 1.74 1.33 1.76 1.36 1.20	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 441 -300 9 1.68 1.61 1.80 1.57 1.50	11 12 26 8 45 284 128 883 1879 -7245 133 1902 336 25 -1574	28 13 46 8 44 82 24 499 731 133 -2044 451 267 14 297	43 18 24 10 42 153 60 219 1262 1899 566 -7173 5476 19 2621 12 1.97 1.66 1.54 1.63 1.67 1.63	2169 109 280 59 292 873 203 425 568 429 221 5266 34148 158 45198	59 101 91 686 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.01 1.00 1.02 0.99
1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 Total Growth Fac 1 2 3 4 5 6 7 7 8	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 10 0.96 1.50 1.44 1.76 2.18 2.14 1.94 1.76	720 -2724 560 1258 41 88 13 51 12 15 117 77 77 266 2 1.49 0.96 1.29 1.37 1.94 1.99 1.85 1.73	833 586 -3655 2156 108 28 158 78 30 49 23 362 75 989 3 1.45 1.31 0.89 1.64 1.62 2.01 1.82 1.55	403 1184 2001 -636 300 164 12 39 30 8 6 9 7 74 4 1.78 1.36 1.60 0.92 1.44 1.73 1.65 1.69	58 43 163 326 -6851 6308 406 865 76 48 33 43 334 1115 2971 5 2.18 1.91 1.62 1.45 0.95 1.13 1.76	78 86 104 150 5943 -21222 3299 3785 910 3000 71 143 934 221 -5198 6 6 2.12 1.98 1.99 1.75 1.12 0.07 1.18	15 12 22 411 3355 -7201 1385 579 143 28 555 220 27 -9339 7 1.93 1.82 1.79 1.65 1.74 1.05	84 50 153 34 851 4112 1597 -8907 2757 943 490 186 477 46 2872 8 1.76 1.74 1.53 1.76 1.36 1.20 1.00 0.94	27 29 71 30 88 976 607 2744 -933 2132 625 1251 411 44 -300 9 1.68 1.61 1.60 1.80 1.97 1.14 1.44	11 12 26 8 45 284 126 833 1879 -7245 133 1902 336 25 -1574 10 1.70 1.62 1.75 1.78 1.75 1.37 1.37	28 13 46 8 44 482 24 499 731 133 -2044 451 269 14 297 11 151 157 1.48 1.72 1.53 1.53 1.53 1.54 1.37	43 18 24 10 42 133 60 219 1262 1899 566 -7173 3476 19 2621 12 1.97 1.66 1.54 1.83 1.67 1.67 1.69 1.59 1.69	2169 109 280 59 292 873 203 425 568 429 221 5266 34148 45198 1.47 1.89 1.74 2.04 1.79 1.86 1.79	59 101 91 688 1108 378 32 64 40 25 14 19 456 971 4045	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.00 1.02 0.98 1.01 0.98
1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 Total	-3699 716 801 459 83 17 89 28 13 33 47 2716 38 1401 ttor 1 0.95 1.50 1.46 2.18 2.14 1.96 1.76 1.70	720 -2724 560 1258 41 88 13 51 12 15 117 77 266 2 1.49 0.96 1.29 1.37 1.94 1.99 1.85 1.73 1.61	833 586 -3655 2136 108 28 108 28 108 28 30 49 29 33 362 75 989 3 1.45 1.31 0.89 1.64 1.62 2.01 1.82 1.93 1.94 1.94 1.95 1	403 1184 2001 -638 300 164 12 39 300 8 6 9 74 683 -1669 4 1.78 1.36 1.69 0.92 1.44 1.73 1.69 1.74	58 43 163 326 -6851 6308 406 865 76 48 35 43 334 1113 2971 5 2.18 1.91 1.62 1.45 0.95 1.13 1.76 1.37 1.60	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221 -5198 6 2.12 1.98 1.99 1.75 1.12 0.96 1.07	15 12 22 411 3355 -7201 1385 579 143 28 55 520 27 -939 1.82 1.79 1.65 1.74 1.08 0.94 1.03	84 50 133 34 851 4112 1597 -8907 943 490 186 477 46 2872 8 1.76 1.74 1.53 1.76 1.36 1.20 1.094 1.15	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 441 44 -300 9 1.68 1.61 1.60 1.57 1.50 1.40 1.57	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574 10 1.70 1.62 1.75 1.78 1.75 1.38 1.57 1.47 1.04	28 13 46 8 84 44 82 24 499 731 133 -2044 451 269 14 297 11 151 157 148 177 148 177 148 177 148 177 148 177 178 178 178 178 178 178 178 178 17	45 18 24 10 42 155 60 219 1262 1899 566 -7173 5476 19 2621 12 1.97 1.66 1.54 1.63 1.67 1.63 1.59 1.42	2169 109 280 59 292 873 203 425 568 429 221 5266 34148 158 45198 1.47 1.89 1.74 2.04 1.79 1.83 1.85 1.79	199 101 91 686 1108 378 32 64 400 25 14 199 456 971 4045 14 1.79 1.54 1.42 1.27 1.94 1.84 1.71 1.73	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.00 1.00 1.00 9.99 1.00 1.01
1 2 3 4 5 6 7 7 8 9 10 11 2 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 6 7 10 11 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38 1401 .ttor 1 0.95 1.50 1.44 1.76 2.18 2.14 1.94 1.76 1.70 1.72 1.95	720 -2724 560 1258 41 88 13 51 12 15 117 77 266 2 1.49 0.96 1.29 1.37 1.99 1.85 1.73 1.61 1.62	833 586 -3655 2156 126 128 138 78 30 49 23 362 75 989 3 1.45 1.31 0.89 1.64 1.62 2.01 1.82 1.55 1.65 1.55 1	403 1184 2001 -636 300 164 12 39 30 8 6 9 74 635 -1669 4 1.78 1.36 1.60 0.92 1.44 1.73 1.65 1.69 1.74 1.75	58 43 163 326 -6851 6308 406 885 76 48 35 43 334 1115 2971 5 2.18 1.91 1.62 1.45 0.95 1.13 1.76 1.37 1.60 1.77 1.63	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221 -5198 6 2.12 1.98 1.99 1.75 1.12 0.96 1.07 1.18 1.48 1.58	15 12 22 411 3355 -7201 1385 579 143 28 553 220 27 -939 7 1.93 1.82 1.79 1.63 1.74 1.05 1.44 1.05	84 50 133 34 4112 1597 -8907 2757 943 490 186 477 46 2872 8 1.76 1.74 1.53 1.76 1.20 1.07 0.94 1.15 1.45	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 411 44 -300 9 1.68 1.61 1.60 1.80 1.57 1.50 1.46 1.14 0.94 1.02 1.20 1.20 1.20 1.20 1.20 1.20 1.20	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574 10 1.70 1.62 1.55 1.78 1.75 1.78 1.77 1.47 1.04 0.96 1.57 1.47 1.04 0.96 1.50	28 13 46 8 44 49 731 133 -2044 451 267 14 297 11 151 157 1.48 1.72 1.53 1.53 1.53 1.54 1.37 1.22 1.57 1.22	43 18 24 100 42 153 60 219 1262 1899 566 -7173 5476 19 2621 12 1.97 1.66 1.54 1.83 1.67 1.63 1.64 1.65	2169 109 280 59 292 873 203 425 566 34148 158 45198 1.47 1.89 1.74 2.04 1.79 1.86 1.79 1.86 1.79	101 91 686 1108 378 32 64 40 25 14 19 456 971 4045 1.79 1.54 1.42 1.27 1.94 1.71 1.73 1.73 1.79 1.54	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.00 1.02 0.98 1.01 0.99 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 7 8 8 9 10 11 12 13 14 Total Growth Fac. 1 2 3 4 5 6 7 7 8 9 10 11 12 13 12 13 14 12 13 14 15 15 16 17 8 10 11 12 13 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38 1401 .ttor 1 0.95 1.50 1.44 1.76 2.18 2.14 1.96 1.70 1.72 1.55 1.96 1.47	720 -2724 560 1258 41 88 13 51 12 15 117 77 266 2 1.49 0.96 1.29 1.37 1.94 1.99 1.87 1.61 1.62 1.53 1.63 1.63 1.63 1.63 1.63	833 586 -3655 2136 108 28 108 28 108 28 30 49 33 362 75 989 3 1.45 1.31 0.89 1.64 1.62 2.01 1.82 1.58 1.58 1.59	403 1184 2001 -638 300 164 12 39 30 8 6 9 74 683 -1669 4 1.78 1.36 1.69 1.74 1.73 1.69 1.74 1.76 1.69	58 43 163 326 -6851 6308 406 865 76 48 35 334 1115 2971 5 2.18 1.91 1.62 1.45 0.95 1.13 1.77 1.60 1.77 1.63 1.76	78 86 104 150 5943 -21222 3299 3785 9100 300 71 143 934 221 -5198 6 2.12 1.98 1.99 1.75 1.12 0.96 1.07 1.18 1.48 1.38 1.38 1.38 1.38 1.48 1.38 1.48 1.48 1.48 1.48 1.48 1.48 1.48 1.4	15 12 22 411 3355 -7201 1385 579 143 28 55 520 27 -939 1.82 1.79 1.63 1.74 1.08 0.94 1.05 1.44 1.57 1.48 1.57	84 50 133 34 851 4112 1597 -8907 943 490 186 477 46 2872 8 1.76 1.74 1.53 1.76 1.36 1.20 1.09 1.15 1.49 1.15 1.49 1.15 1.49 1.15 1.49 1.15 1.49 1.76 1.74 1.74 1.75 1.74 1.74 1.75 1.74 1.75 1.76	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 441 44 -300 9 1.68 1.61 1.60 1.57 1.50 1.40 1.57 1.50 1.41 1.44 1.05 1.14 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574 10 1.70 1.62 1.75 1.78 1.75 1.38 1.57 1.47 1.04 0.96 1.21 1.21 1.27	28 13 46 8 84 44 82 24 499 731 133 -2044 451 269 14 297 11 151 157 148 172 153 153 153 153 153 153 153 153	45 18 24 100 42 155 60 219 1262 1899 566 -7173 5476 19 2621 12 1.97 1.66 1.54 1.63 1.67 1.63 1.59 1.42 1.25 1.42 1.25 1.42 1.25 1.42 1.25 1.42 1.44 1.44 1.45 1.44 1.45 1.44 1.45 1.44 1.45 1.45 1.46 1.46 1.46 1.47 1.48 1.49 1.49 1.40	2169 109 280 592 873 203 425 568 429 221 5266 34148 158 45198 1.47 1.89 1.79 1.83 1.85 1.79 1.54 1.72 1.	101 91 686 1108 378 32 64 400 25 14 19 456 971 4045 1.79 1.54 1.42 1.27 1.94 1.42 1.27 1.94 1.73 1.73 1.79 1.79 1.79	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.00 1.00 1.00 1.01 0.99 1.00 1.00 1.00
1 2 3 4 5 6 7 7 8 9 10 11 2 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 6 7 10 11 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-3699 716 801 459 59 83 17 89 28 13 33 47 2716 38 1401 .ttor 1 0.95 1.50 1.44 1.76 2.18 2.14 1.94 1.76 1.70 1.72 1.95	720 -2724 560 1258 41 88 13 51 12 15 117 77 266 2 1.49 0.96 1.29 1.37 1.99 1.85 1.73 1.61 1.62	833 586 -3655 2156 126 128 138 78 30 49 23 362 75 989 3 1.45 1.31 0.89 1.64 1.62 2.01 1.82 1.55 1.65 1.55 1	403 1184 2001 -636 300 164 12 39 30 8 6 9 74 635 -1669 4 1.78 1.36 1.60 0.92 1.44 1.73 1.65 1.69 1.74 1.75	58 43 163 326 -6851 6308 406 885 76 48 35 43 334 1115 2971 5 2.18 1.91 1.62 1.45 0.95 1.13 1.76 1.37 1.60 1.77 1.63	78 86 104 150 5943 -21222 3299 3785 910 300 71 143 934 221 -5198 6 2.12 1.98 1.99 1.75 1.12 0.96 1.07 1.18 1.48 1.58	15 12 22 411 3355 -7201 1385 579 143 28 553 220 27 -939 7 1.93 1.82 1.79 1.63 1.74 1.05 1.44 1.05	84 50 133 34 4112 1597 -8907 2757 943 490 186 477 46 2872 8 1.76 1.74 1.53 1.76 1.20 1.07 0.94 1.15 1.45	27 29 71 30 88 976 607 2744 -9335 2132 625 1251 411 44 -300 9 1.68 1.61 1.60 1.80 1.57 1.50 1.46 1.14 0.94 1.03	11 12 26 8 45 284 126 883 1879 -7245 133 1902 336 25 -1574 10 1.70 1.62 1.55 1.78 1.75 1.78 1.77 1.47 1.04 0.96 1.57 1.47 1.04 0.96 1.50	28 13 46 8 44 49 731 133 -2044 451 267 14 297 11 151 157 1.48 1.72 1.53 1.53 1.53 1.54 1.37 1.22 1.57 1.22	43 18 24 100 42 153 60 219 1262 1899 566 -7173 5476 19 2621 12 1.97 1.66 1.54 1.83 1.67 1.63 1.64 1.65	2169 109 280 59 292 873 203 425 566 34148 158 45198 1.47 1.89 1.74 2.04 1.79 1.86 1.79 1.86 1.79	101 91 686 1108 378 32 64 40 25 14 19 456 971 4045 1.79 1.54 1.42 1.27 1.94 1.71 1.73 1.73 1.79 1.54	830 234 688 -1389 2528 -4255 -777 2298 -371 -1131 241 2237 46330 3516 50979 Total 1.00 1.02 0.98 1.01 0.99 1.00 1.00 1.00 1.00 1.00 1.00



Reference C	2020														
Reference Co	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
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3	941	1142	2066	511	185	127	31	272	114	89	119	66	2518	766	8947
4	1100	1446	469	7796	635	663	19	179	55	12	26	23	1182	1613	15216
5 6	70 88	93 145	190 129	690 681	15266 9143	8894 49304	456 5623	1386 6088	328 2198	171 1072	171 509	109 475	1249 3831	2171 694	31245 79980
7	19	18	33	19	489	5356	11712	2800	688	382	147	175	900	69	22807
8	172	101	313	189	1392	5967	2761	16240	3907	1628	704	559	3974	184	38092
9 10	50 23	46 26	103 86	52 12	304 175	1914 1121	629 399	3378 1464	14473 5088	5296 15252	476 278	897 1547	3678 3590	98 52	31394 29114
11	110	28	136	25	153	514	173	636	493	330	1824	388	1616	70	6497
12 13	78 7178	31 1553	63 3428	22 1740	111 1543	477 4910	186 1179	555 5161	1100 3899	1912 3958	382 2383	5201 8792	7818 7427433	46 8742	17982 7481897
14	527	706	1304	2153	3732	1173	102	309	170	73	134	87	9111	683000	702582
Total	23250	15168	10342	16386	33295	80648	23305	38711	32618	30226	7263	18430	7473621	698322	8501585
DS - 2029 - U	JC1														
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1 2	11155	1346 8092	942 1170	1167 1487	75 104	99 155	20 20	164 106	62 65	27 35	91 32	89 43	5734 1361	325 534	21294 14541
3	962	1164	1808	529	191	137	36	303	137	106	138	80	2695	782	9068
4 5	1198 76	1512	495 198	7208 728	672 14778	725 9024	21 512	201 1481	70 357	14 191	34 185	30 118	1340 1350	1686 2266	15207 31364
6	101	162	141	736	9528	47310	5623	6393	2445	1197	583	523	4233	779	79775
7	22	22	40	21	563	5398	11244	2806	758	432	167	193	994	78	22739
8	188 57	122 58	364 127	213 66	1488 329	6136 2095	2700 674	15321 3448	3967 13664	1762 5194	741 479	610 971	4298 4068	204 114	38115 31344
10	26	32	105	15	197	1256	448	1598	4954	14497	297	1631	3943	61	29059
11	119	36	164	32	162	550	182	651	474	343	1639	395	1706	81	6534
12 13	90 7618	39 1730	78 3807	28 2011	120 1683	513 5393	199 1294	589 5590	1131 4228	1949 4284	385 2561	4748 9295	8148 7431863	54 9736	18072 7491094
14	570	732	1396	2255	3963	1311	116	351	203	87	163	107	10192	681711	703156
Total	23516	15148	10835	16517	33854	80104	23089	39002	32515	30120	7494	18832	7481925	698411	8511363
Difference					_										
	-474	2	3	4 89	5	6	7	8	9	10	11	12	13	14	Total
Difference 1 2	1 -474 71	2 70 -463	3 36 56	4 89 70	5 5 7	6 11 15	7 3 3	8 11 16	9 7 14	10 3 7	11 5 7	12 11 9	13 244 130	14 18 23	Total 39 -37
1 2 3	-474 71 21	70 -463 22	36 56 -258	89 70 18	5 7 5	11 15 10	3 3 5	11 16 31	7 14 23	3 7 17	5 7 19	11 9 14	244 130 178	18 23 16	39 -37 121
1 2	-474 71	70 -463	36 56	89 70	5 7	11 15	3	11 16	7 14	3 7	5 7	11 9	244 130	18 23	39 -37
1 2 3 4 5	-474 71 21 98 6	70 -463 22 66 7	36 56 -258 25 8 13	89 70 18 -588 38 75	5 7 5 37 -489 385	11 15 10 63 130 -1994	3 5 2 56 0	11 16 31 22 94 305	7 14 23 16 29	3 7 17 3 20 126	5 7 19 8 14 74	11 9 14 8 10 48	244 130 178 158 101 402	18 23 16 74 96 85	39 -37 121 -9 119 -205
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1 2 3 4 5 6 7 8 9	-474 71 21 98 6 12 3 16 7	70 -463 22 66 7 17 3 21 12 6	36 56 -258 25 8 13 7 51 24 19	89 70 18 -588 38 75 2 24 14 3	5 7 5 37 -489 385 74 96 25 22	11 15 10 63 130 -1994 42 170 181 135 37	3 3 5 2 36 0 -467 -61 46 49	11 16 31 22 94 305 6 -919 70 134	7 14 23 16 29 247 70 59 -809 -134 -19	3 7 17 3 20 126 50 134 -101 -755	5 7 19 8 14 74 20 37 4 19	11 9 14 8 10 48 18 51 73 84	244 130 178 158 101 402 94 324 390 353 89	18 23 16 74 96 85 9 21 16 9	39 -37 121 -9 119 -205 -68 23 -50 -55
1 2 3 4 5 6 7 8 9 10 11 12 13	-474 71 21 98 6 12 3 16 7 3 9 12 440 42	70 -463 22 66 7 17 3 21 12 6 8 8	36 56 -258 25 8 13 7 51 24 19 28 14	89 70 18 -588 38 75 2 24 14 3 7 7 272 101	5 7 37 -489 385 74 96 25 22 9 9	11 15 10 63 130 -1994 42 170 181 135 37 36 483 138	3 3 5 2 56 0 -467 -61 46 49 9 13	11 16 31 22 94 305 6 -919 70 134 15 34	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 33	3 7 17 3 20 126 50 134 -101 -755 13 38 326	5 7 19 8 14 74 20 37 4 19 -185 3 178 29	11 9 14 8 10 48 18 51 73 84 7 -453 303 20	244 130 178 158 101 402 94 324 390 353 89 330 4429 1082	18 23 16 74 96 85 9 21 16 9 11 8	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197
1 2 3 4 5 6 7 8 9 10 11 12 13	-474 71 21 98 6 12 3 16 7 3 9	70 -463 22 66 7 17 3 21 12 6 8 8	36 56 -258 25 8 13 7 51 24 19 28 14	89 70 18 -588 38 75 2 24 14 3 7 7	5 7 5 37 -489 385 74 96 25 22 9	11 15 10 63 130 -1994 42 170 181 135 37 36 483	3 3 5 2 56 0 -467 -61 46 49 9	11 16 31 22 94 305 6 -919 70 134 15 34	7 14 23 16 29 247 70 59 -809 -134 -19 31	3 7 17 3 20 126 50 134 -101 -755 13 38 326	5 7 19 8 14 74 20 37 4 19 -185 3	111 9 144 8 10 48 18 51 73 84 7 -453	244 130 178 158 101 402 94 324 390 353 89 330	18 23 16 74 96 85 9 21 16 9 11 8	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197
1 2 3 4 5 6 7 8 9 10 11 12 13	-474 71 21 98 6 12 3 16 7 3 9 12 440 442 266	70 -463 22 66 7 17 3 21 12 6 8 8 177 26	36 56 -258 25 8 13 7 51 24 19 28 14 379 91 493	89 70 18 -588 38 75 2 24 14 3 7 7 272 101 132	5 7 5 37 -489 385 74 96 25 22 9 9 141 231	11 15 10 63 130 -1994 42 170 181 135 37 36 483 138 -545	3 3 5 2 5 6 0 -467 -61 46 49 9 13 115 14	11 16 31 22 94 305 6 -919 70 134 13 34 430 42	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 33 -103	3 7 17 3 20 126 50 134 -101 -755 13 38 326 14 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29	111 9 14 8 10 48 18 51 73 84 7 -453 303 20 403	244 130 178 178 101 402 94 324 390 353 89 330 4429 1082	18 23 16 74 96 85 9 21 16 9 11 8 8 994 -1289	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-474 71 21 98 6 12 3 16 7 3 9 12 440 42 266	70 -463 22 66 7 17 3 21 12 6 8 8	36 56 -258 25 8 13 7 51 24 19 28 14	89 70 18 -588 38 75 2 24 14 3 7 7 272 101	5 7 37 -489 385 74 96 25 22 9 9	11 15 10 63 130 -1994 42 170 181 135 37 36 483 138	3 3 5 2 56 0 -467 -61 46 49 9 13	11 16 31 22 94 305 6 -919 70 134 15 34	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 33	3 7 17 3 20 126 50 134 -101 -755 13 38 326	5 7 19 8 14 74 20 37 4 19 -185 3 178 29	11 9 14 8 10 48 18 51 73 84 7 -453 303 20	244 130 178 158 101 402 94 324 390 353 89 330 4429 1082	18 23 16 74 96 85 9 21 16 9 11 8	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-474 71 21 98 6 12 3 16 7 7 3 9 12 440 42 266	70 -463 22 66 7 17 3 21 12 6 8 8 8 177 26 -20	36 56 -298 25 8 13 7 51 24 19 28 14 379 91 493	89 70 188 -588 38 75 2 24 14 3 7 7 7 272 101 132	5 7 5 37 489 385 74 96 25 22 9 9 141 231 559	11 15 10 13 130 -1994 42 170 181 135 37 36 483 118 -545	3 3 5 2 2 56 0 -467 -61 46 49 9 13 115 14 -216	11 16 31 22 94 305 6 -919 70 134 15 34 42 291	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 -103	3 7 17 3 20 126 50 134 -101 -755 13 38 326 14 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231	111 9 14 8 100 48 18 51 73 84 7 453 503 20 403	244 130 178 158 1001 402 94 324 390 353 89 330 4429 1082 8304	18 23 16 74 96 6 85 9 21 16 9 9 11 8 9 9 4 1.06 1.04 1.06 1.04	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575 9778
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-474 71 21 98 6 12 3 16 7 3 9 12 440 440 266	70 -463 22 66 7 17 3 21 12 6 8 8 177 26 -20	36 56 -258 25 8 8 13 7 51 24 19 28 14 379 91 493	89 70 18 -588 38 75 2 24 14 3 7 7 272 2101 132	5 7 5 37 489 385 74 96 25 22 9 9 141 231 559 5 1.08	11 15 10 63 130 -1994 42 170 181 133 37 36 483 -545	3 3 5 2 2 56 0 -467 -61 46 49 9 13 115 14 -216	11 16 31 22 94 305 6 -919 70 134 15 34 430 42 291	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 -103	3 7 17 3 20 126 50 134 -101 -755 13 38 326 14 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231	111 9 144 8 150 148 151 733 844 7 453 303 20 403 12 1.15 1.27 1.21	244 130 178 158 1001 402 94 324 390 353 89 330 4429 1082 8304	18 23 16 74 96 6 85 9 21 16 9 91 11 8 994 -1289 90 14 1.06 1.04 1.02	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575 9778 Total 1.00 1.00 1.01
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-474 71 21 98 6 12 3 16 7 7 3 9 12 440 42 266	70 -463 22 66 7 17 3 21 12 6 8 8 8 177 26 -20	36 56 -298 25 8 13 7 51 24 19 28 14 379 91 493	89 70 188 -588 38 75 2 24 14 3 7 7 7 272 101 132	5 7 5 37 489 385 74 96 25 22 9 9 141 231 559	11 15 10 13 130 -1994 42 170 181 135 37 36 483 118 -545	3 3 5 2 2 56 0 -467 -61 46 49 9 13 115 14 -216	11 16 31 22 94 305 6 -919 70 134 15 34 42 291	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 -103	3 7 17 3 20 126 50 134 -101 -755 13 38 326 14 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231	111 9 14 8 100 48 18 51 73 84 7 453 503 20 403	244 130 178 158 1001 402 94 324 390 353 89 330 4429 1082 8304	18 23 16 74 96 6 85 9 21 16 9 9 11 8 9 9 4 1.06 1.04 1.06 1.04	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575 9778
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-474 71 21 98 6 12 3 16 7 3 9 12 440 42 266 1.06 1.02 1.09 1.14	70 -463 22 66 7 17 3 21 12 6 8 8 177 26 -20 2 1.05 0.95 1.02 1.08 1.12	36 56 -298 25 8 13 7 51 24 19 28 14 379 91 493 3 1.04 1.05 0.88 1.04 1.10	89 70 18 -588 38 75 2 24 14 3 7 7 272 101 132 4 1.08 1.05 1.03 0.92 1.06 1.11	5 7 5 37 -489 385 74 96 25 22 9 9 141 231 559 5 1.08 1.08 1.03 1.06 0.97 1.04	11 15 10 63 130 -1994 42 170 181 133 37 36 483 138 -545	3 3 5 2 2 56 0 -467 -61 46 49 9 13 115 14 -216	11 16 31 22 94 305 6 -919 70 134 15 34 430 42 291	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 -33 -103	3 7 17 3 20 126 50 134 -101 -755 13 38 326 14 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231	111 9 144 8 100 488 188 51 73 844 7 453 503 20 403 122 1.15 1.27 1.21 1.34 1.09 1.10	244 130 178 158 1001 402 94 324 390 333 89 330 4429 1082 8304 13 1.04 1.11 1.07 1.13 1.08	18 23 16 74 96 85 99 21 16 9 91 11 8 994 -1289 90 14 1.06 1.04 1.02 1.05 1.04 1.12	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575 9778 Total 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 7 7	-474 71 21 98 6 12 3 16 7 3 9 12 440 42 266 10.96 1.06 1.02 1.09 1.09 1.14 1.17	70 -463 22 66 7 17 3 21 12 6 8 8 8 177 26 -20 2 1.05 0.95 1.02 1.05 1.08 1.12 1.19	36 56 -298 25 8 13 7 51 24 19 28 14 37 91 493 3 1.04 1.05 0.88 1.05 1.00 1.10 1.	89 70 18 -588 38 75 2 24 14 3 7 7 272 101 132 4 1.08 1.05 1.03 0.92 1.11 1.10	5 7 5 37 489 385 74 96 25 22 9 9 141 231 559 5 1.08 1.08 1.03 1.06 0.97 1.04	11 15 10 130 -1994 42 170 181 133 37 36 483 138 -545	3 3 5 2 2 56 0 -467 -61 46 49 9 13 115 14 -216	11 16 31 22 94 305 6 -919 70 134 15 34 430 42 291	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 -103 -103	3 7 17 3 20 126 50 134 -101 -755 13 38 326 14 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231	111 9 144 8 100 48 18 51 73 303 200 403 122 1.15 1.27 1.21 1.34 1.09 1.10 1.10	244 130 178 158 1001 402 94 324 390 353 89 330 4428 8304 1.04 1.11 1.07 1.13 1.08 1.10	18 23 16 74 96 6 85 9 21 16 99 11 8 994 -1289 90 14 1.02 1.05 1.04 1.12 1.14	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575 9778 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-474 71 21 98 6 12 3 16 7 3 9 12 440 42 266 1.06 1.02 1.09 1.14	70 -463 22 66 7 17 3 21 12 6 8 8 177 26 -20 2 1.05 0.95 1.02 1.08 1.12	36 56 -298 25 8 13 7 51 24 19 28 14 379 91 493 3 1.04 1.05 0.88 1.04 1.10	89 70 18 -588 38 75 2 24 14 3 7 7 272 101 132 4 1.08 1.05 1.03 0.92 1.06 1.11	5 7 5 37 -489 385 74 96 25 22 9 9 141 231 559 5 1.08 1.08 1.03 1.06 0.97 1.04	11 15 10 63 130 -1994 42 170 181 133 37 36 483 138 -545	3 3 5 2 2 56 0 -467 -61 46 49 9 13 115 14 -216	11 16 31 22 94 305 6 -919 70 134 15 34 430 42 291	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 -33 -103	3 7 17 3 20 126 50 134 -101 -755 13 38 326 14 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231	111 9 144 8 100 488 188 51 73 844 7 453 503 20 403 122 1.15 1.27 1.21 1.34 1.09 1.10	244 130 178 158 1001 402 94 324 390 333 89 330 4429 1082 8304 13 1.04 1.11 1.07 1.13 1.08	18 23 16 74 96 85 99 21 16 9 91 11 8 994 -1289 90 14 1.06 1.04 1.02 1.05 1.04 1.12	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575 9778 Total 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 Total Growth Fact	-474 71 21 98 6 12 3 16 7 3 9 12 440 42 266 1.06 1.02 1.09 1.14 1.17 1.09 1.14 1.14	70 -463 22 66 7 17 3 21 12 6 8 8 177 26 -20 2 1.05 0.95 1.02 1.05 1.08 1.12 1.19 1.21 1.25 1.23	36 56 -298 25 8 13 7 51 24 19 28 14 379 91 493 3 1.04 1.05 0.88 1.05 1.04 1.10 1.21 1.10 1.21 1.10 1.21 1.10 1.21 1.22	89 70 18 -588 38 75 2 24 14 3 7 7 272 101 132 4 1.08 1.05 1.03 0.92 1.06 1.11 1.10 1.13 1.26 1.26	5 7 7 37 -489 385 74 96 25 22 9 9 141 231 559 5 1.08 1.08 1.03 1.06 0.97 1.04 1.15 1.08 1.108	11 15 10 63 130 -1994 42 170 181 133 37 36 483 138 -545 6 1.12 1.10 1.08 1.09 1.01 0.96 1.01 1.09 1.01 1.09 1.01 1.09 1.01 1.09 1.01 1.09 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00	3 3 5 5 0 -467 -61 46 49 9 13 115 14 -216 7 1.17 1.17 1.17 1.17 1.19 1.12 1.00 0.96 0.98 1.07	11 16 31 22 94 305 6 -919 70 134 15 34 430 42 291 8 1.07 1.18 1.11 1.12 1.07 1.05 1.09 1.02 1.09	7 14 23 16 29 247 70 9 -809 -134 -19 31 330 -103 -103 -103 -101 -101 -102 -109 -111 -110 -109 -109 -109 -109 -109	3 7 17 3 20 126 50 134 -101 -755 13 326 14 -106 10 1.13 1.24 1.19 1.25 1.11 1.12 1.13 1.08	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231 11 1.05 1.28 1.16 1.31 1.08 1.15 1.14 1.00 1.01	111 9 144 8 100 488 18 51 73 844 7 453 20 403 122 1.15 1.27 1.21 1.349 1.100 1.100 1.009 1.088 1.05	244 130 178 158 1001 402 94 324 390 333 89 330 4429 1082 8304 110 1.07 1.13 1.08 1.10 1.10 1.10 1.10	18 23 16 74 96 85 9 21 16 9 11 11 9 94 -1289 90 14 1.06 1.04 1.02 1.04 1.12 1.14 1.17	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 19197 575 9778 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 2 2 3 4 4 5 6 6 7 8 9 10 11 10 11 10 10 11 10 10 11 10 10	-474 71 21 98 6 12 3 16 7 7 3 9 142 440 266 1.06 1.02 1.09 1.14 1.17 1.09 1.14 1.14 1.08	70 -463 22 66 7 17 3 21 12 6 8 8 177 26 -20 2 1.05 0.95 1.02 1.05 1.08 1.12 1.19 1.21 1.23 1.28	36 56 -298 25 8 13 7 51 24 19 28 14 37 91 493 3 1.04 1.05 0.88 1.05 1.04 1.10 1.21 1.16 1.22 1.20	89 70 18 -588 38 75 2 24 14 3 7 7 272 101 132 4 1.08 1.05 1.03 0.92 1.06 1.11 1.10 1.13 1.26 1.26 1.28	5 7 7 37 489 385 74 96 22 9 9 141 231 559 5 1.08 1.08 1.03 1.06 0.97 1.04 1.15 1.07 1.07	11 15 10 130 -1994 42 170 181 135 37 36 483 138 -545 6 1.12 1.10 1.08 1.09 1.01 1.03 1.01 1.03 1.03 1.01 1.03 1.	3 3 5 2 2 56 0 -467 -61 46 49 9 13 115 14 -216	11 16 31 22 94 305 6 -919 70 134 15 34 430 42 291 8 1.07 1.18 1.11 1.12 1.07 1.05 1.00 0.94 1.02	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 -103 -103 9 1.14 1.26 1.21 1.28 1.09 1.11 1.10 1.02 0.94 0.97 0.96	3 7 17 3 20 126 50 134 -101 -755 13 38 326 14 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231 11 1.05 1.28 1.16 1.31 1.08 1.17 1.05 1.14 1.05 1.07 0.90	111 9 144 8 100 488 18 51 73 844 7 453 303 200 403 122 1.15 1.27 1.21 1.34 1.09 1.10 1.10 1.09 1.08 1.05 1.02	244 130 178 158 1001 402 94 324 390 333 89 330 4428 8304 1.04 1.11 1.07 1.13 1.08 1.10 1.10 1.08	18 23 16 74 96 85 9 21 16 9 91 11 8 994 11 1289 90 14 1.02 1.03 1.04 1.12 1.14 1.11 1.17 1.17	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575 9778 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 8 9 10 11 12 13 14 Total Growth Fact	-474 71 21 98 6 12 3 16 7 3 9 12 440 42 266 1.06 1.02 1.09 1.14 1.17 1.09 1.14 1.14	70 -463 22 66 7 17 3 21 12 6 8 8 177 26 -20 2 1.05 0.95 1.02 1.05 1.08 1.12 1.19 1.21 1.25 1.23	36 56 -298 25 8 13 7 51 24 19 28 14 379 91 493 3 1.04 1.05 0.88 1.05 1.04 1.10 1.21 1.10 1.21 1.10 1.21 1.10 1.21 1.22	89 70 18 -588 38 75 2 24 14 3 7 7 272 101 132 4 1.08 1.05 1.03 0.92 1.06 1.11 1.10 1.13 1.26 1.26	5 7 7 37 -489 385 74 96 25 22 9 9 141 231 559 5 1.08 1.08 1.03 1.06 0.97 1.04 1.15 1.08 1.108	11 15 10 63 130 -1994 42 170 181 133 37 36 483 138 -545 6 1.12 1.10 1.08 1.09 1.01 0.96 1.01 1.09 1.01 1.09 1.01 1.09 1.01 1.09 1.01 1.09 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00 1.01 1.00	3 3 5 5 0 -467 -61 46 49 9 13 115 14 -216 7 1.17 1.17 1.17 1.17 1.19 1.12 1.00 0.96 0.98 1.07	11 16 31 22 94 305 6 -919 70 134 15 34 430 42 291 8 1.07 1.18 1.11 1.12 1.07 1.05 1.09 1.02 1.09	7 14 23 16 29 247 70 9 -809 -134 -19 31 330 -103 -103 -103 -101 -101 -102 -109 -111 -110 -109 -109 -109 -109 -109	3 7 17 3 20 126 50 134 -101 -755 13 326 14 -106 10 1.13 1.24 1.19 1.25 1.11 1.12 1.13 1.08	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231 11 1.05 1.28 1.16 1.31 1.08 1.15 1.14 1.00 1.01	111 9 144 8 100 488 18 51 73 844 7 453 20 403 122 1.15 1.27 1.21 1.349 1.100 1.100 1.009 1.088 1.05	244 130 178 158 1001 402 94 324 390 333 89 330 4429 1082 8304 110 1.07 1.13 1.08 1.10 1.10 1.10 1.10	18 23 16 74 96 85 9 21 16 9 11 11 9 94 -1289 90 14 1.06 1.04 1.02 1.04 1.12 1.14 1.17	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 19197 575 9778 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 7 8 9 10 11 12 2 3 4 5 6 6 7 8 9 10 11 12 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-474 71 21 98 6 12 3 16 7 3 9 12 440 42 266 1009 1.09 1.09 1.14 1.17 1.09 1.14 1.14 1.108 1.15	70 -463 22 66 7 17 3 21 12 6 8 8 177 26 -20 2 1.05 0.95 1.02 1.05 1.08 1.12 1.19 1.21 1.25 1.23 1.28 1.25	36 56 -298 25 8 13 7 51 24 19 28 14 379 91 493 3 1.04 1.05 0.88 1.05 1.04 1.10 1.11 1.11 1.12 1	89 70 18 -588 38 75 2 24 14 3 7 7 272 101 132 4 1.08 1.05 1.03 0.92 1.06 1.11 1.10 1.13 1.26 1.28 1.31	5 7 7 37 489 385 74 96 25 22 9 9 9 141 231 559 5 1.08 1.03 1.06 0.97 1.04 1.13 1.07 1.08 1.06 1.08	11 15 10 130 -1994 42 170 181 133 37 36 483 138 -545	3 3 5 2 5 6 0 -467 -61 46 49 9 13 114 -216 7 1.17 1.17 1.09 1.12 1.00 0.96 0.98 1.07	11 16 31 22 94 305 6 -919 70 134 15 34 430 42 291 8 1.07 1.18 1.11 1.12 1.07 1.00 0.94 1.02 1.02 1.02 1.02 1.02	7 14 23 16 29 247 70 59 -809 -134 -19 31 330 -103 -103 9 114 126 121 128 109 111 110 102 0.94 0.97 0.96 1.03	3 7 17 3 20 126 50 134 -101 -755 13 38 326 54 -106	5 7 19 8 14 74 20 37 4 19 -185 3 178 29 231 11 1.05 1.28 1.16 1.31 1.05 1.14 1.05 1.01	111 9 144 8 100 488 18 51 73 303 200 403 122 1.15 1.27 1.21 1.34 1.09 1.10 1.10 1.09 1.08 1.05 1.02 0.91	244 130 178 158 1001 402 94 324 390 353 89 330 4429 1082 8304 1.01 1.07 1.13 1.08 1.10 1.10 1.10 1.10 1.08	18 23 16 74 96 6 85 9 21 16 994 -1289 90 14 1.02 1.05 1.04 1.12 1.17 1.15 1.18	39 -37 121 -9 119 -205 -68 23 -50 -55 37 90 9197 575 9778 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0



B-4 5	2020														
Reference C	ase - 2029 1	<u>- UC2</u> 2	3	4	5	6	7	8	9	10	11	12	13	14	Total
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3	2198	2471	23171	6339	509	113	40	336	47	29	21	14	335	106	35727
4	702 20	5180 42	6339 509	66347 965	965 109865	138 47709	10 949	51 2783	229	10 80	2 37	2 35	115 158	1260 2336	81129 165718
6	31	49	113	138	47709	397112	33070	22493	2083	725	124	146	410	71	504275
7	7	9	40	10	949	33070	114787	24131	1911	402	52	63	102	6	175539
8	67	42	336	51	2783	22493	24131	160260	23705	2896	1639	663	360	17	239442
9	14	19	47	8	229	2083	1911	23705	127591	39937	4721	3888	337	12	204504
10	17	11	29	10	80	725	402	2896	39937	151034	454	7076	413	2	203086
11	20		21	2	37	124	52	1639	4721	454	15091	2409	543	3	25120
12 13	40 6434	17 157	14 335	115	35 158	146 410	63 102	663 360	3888 337	7076 413	2409 543	43243	8085 25707808	8 602	65688 25725858
14	27	238	106	1260	2336	71	6	17	12	2	3	8	602	2534448	2539137
Total	99536	102394	35727	81129	165718	504275	175539	239442	204504	203086	25120	65688 2	25725858	2539137	30167155
_															
DS - 2029 - U	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
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3	2353	2583	21644	7346	540	133	54	401	76	46	31	22	394	115	35737
4	848	5869	7346	64238	1059	165	12	71	15	19	4	5	155	1347	81152
5	25	50	540	1059	107640	49064	1200	3065	281	102	43	43	194	2471	165778
6 7	44 10	64 14	133 54	165	49064 1200	392855 34292	34292 112732	23650 24421	2379 2099	857 460	141 57	170 71	504 123	89 8	504408 175555
8	79	63	401	71	3065	23650	24421	157089	24419	3232	1775	755	432	21	239473
9	20	34	76	15	281	2379	2099	24419	125215	40513	4906	4199	401	16	204574
10	23	19	46	19	102	857	460	3232	40513	149531	493	7381	485	3	203165
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14 Total	99603	260 102437	115 35737	1347 81152	2471 165778	504408	175555	239473	204574	203165	25125	13 65718 2	788 25774718	2540686	2540686 30218130
	,,,,,,	202437	33737	01132	103770	304400	1,,,,,,	233473	204374	203203		037101	3774720	2340000	30210130
Difference						_				40					T-1-1
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-1022	255	155	146	5	13	3	12	6	6	3	18	464	5	67
1 2	-1022 255	255 -1169	155 113	146 689	5 9	13 15	3 5	12 21	6 15	6 8	3 4	18 13	464 43	5 22	67 42
1 2 3 4 5	-1022 255 155 146	255 -1169 113 689	155 113 -1526 1007 30	146 689 1007 -2109 95	5 9 30 95 -2225	13 15 20 27 1355	3 5 15 2 251	12 21 66 19 282	6 15 29 7 52	6 8 17 9 23	3 4 10 2 6	18 13 8 2	464 43 59 40 36	5 22 9 87 135	67 42 10 23 60
1 2 3 4 5	-1022 255 155 146 5	255 -1169 113 689 9	155 113 -1526 1007 30 20	146 689 1007 -2109 95 27	9 30 95 -2225 1355	13 15 20 27 1355 -4257	3 5 15 2 251 1222	12 21 66 19 282 1157	6 15 29 7 52 296	6 8 17 9 23 132	3 4 10 2 6 17	18 13 8 2 8	464 43 59 40 36 94	5 22 9 87 135	67 42 10 23 60 133
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1 2 3 4 5 6 7 8	-1022 255 155 146 5 13 3 12 6	255 -1169 113 689 9 15 5 21	155 113 -1526 1007 30 20 15 66 29	146 689 1007 -2109 95 27 2 19	5 9 30 95 -2225 1355 251 282 52	13 15 20 27 1355 -4257 1222 1157 296	3 5 15 2 251 1222 -2055 291 188	12 21 66 19 282 1157 291 -3171 715	6 15 29 7 52 296 188 715 -2376	6 8 17 9 23 132 58 336 576	3 4 10 2 6 17 5 136 184	18 13 8 2 8 24 9	464 43 59 40 36 94 21 71 63	5 22 9 87 135 18 2 4	67 42 10 23 60 133 16 31
1 2 3 4 5 6 7 8 9 10	-1022 255 155 146 5 13 3 12 6 6 3 18	255 -1169 113 689 9 15 5 21 15 8 4	155 113 -1526 1007 30 20 15 66 29 17 10 8	146 689 1007 -2109 95 27 2 19 7 9	5 9 30 95 -2225 1355 251 282 52 23 6	13 15 20 27 1355 -4257 1222 1157 296 132 17	3 5 15 2 251 1222 -2055 291 188 58 5	12 21 66 19 282 1157 291 -3171 715 336 136	6 15 29 7 52 296 188 715 -2376 576 184 311	6 8 17 9 23 132 58 336 576 -1502 39	3 4 10 2 6 17 5 136 184 39 -617	18 13 8 2 8 24 9 92 311 305 140	464 43 59 40 36 94 21 71 63 72 76	5 22 9 87 135 18 2 4 4 1 1	67 42 10 23 60 133 16 31 70 79 5
1 2 3 4 5 6 7 8 9 10 11 12 13	-1022 255 155 146 5 13 3 12 6 6 6 3 18	255 -1169 113 689 9 15 5 21 15 8 4 13	155 113 -1526 1007 30 20 15 66 29 17 10 8	146 689 1007 -2109 93 27 2 19 7 9 2 2 40	5 9 30 95 -2225 1355 251 282 52 23 6 8 36	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94	3 5 15 2 251 1222 -2055 291 188 58 58 9 21	12 21 66 19 282 1157 291 -3171 715 336 136 92 71	6 15 29 7 52 296 188 715 -2376 576 184 311 63	6 8 17 9 23 132 58 336 576 -1502 39 305 72	3 4 10 2 6 17 5 136 184 39 -617 140 76	18 13 8 2 8 24 9 92 311 305 140 -1542 637	464 43 59 40 36 94 21 71 63 72 76 637 46998	5 222 9 87 135 18 2 4 4 1 1 1 4	67 42 10 23 60 133 16 31 70 79 5 30 48860
1 2 3 4 5 6 7 8 9 10 11 12 13	-1022 255 155 146 5 13 3 12 6 6 6 3 18	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22	135 113 -1526 1007 30 20 15 66 29 17 10 8 59	146 689 1007 -2109 95 27 2 19 7 9 2 2 40 87	5 9 30 95 -2225 1355 251 282 52 23 6 8 36	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94	3 5 15 2 251 1222 -2055 291 188 58 5 9 21	12 21 66 19 282 1157 291 -3171 715 336 136 92 71	6 15 29 7 52 296 188 715 -2376 576 184 311 63 4	6 8 17 9 23 132 58 336 576 -1502 39 305 72	3 4 10 2 6 17 5 136 184 39 -617 140 76	18 13 8 2 8 24 9 92 311 305 140 -1542 637 4	464 43 59 40 36 94 21 71 63 72 76 637 46998	5 22 9 87 135 18 2 4 4 1 1 1 1 4 186	67 42 10 23 60 133 16 31 70 79 5 30 48860 1549
1 2 3 4 5 6 7 8 9 10 11 12 13	-1022 255 155 146 5 13 3 12 6 6 6 3 18	255 -1169 113 689 9 15 5 21 15 8 4 13	155 113 -1526 1007 30 20 15 66 29 17 10 8	146 689 1007 -2109 93 27 2 19 7 9 2 2 40	5 9 30 95 -2225 1355 251 282 52 23 6 8 36	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94	3 5 15 2 251 1222 -2055 291 188 58 58 9 21	12 21 66 19 282 1157 291 -3171 715 336 136 92 71	6 15 29 7 52 296 188 715 -2376 576 184 311 63	6 8 17 9 23 132 58 336 576 -1502 39 305 72	3 4 10 2 6 17 5 136 184 39 -617 140 76	18 13 8 2 8 24 9 92 311 305 140 -1542 637	464 43 59 40 36 94 21 71 63 72 76 637 46998	5 222 9 87 135 18 2 4 4 1 1 1 4	67 42 10 23 60 133 16 31 70 79 5 30 48860
1 2 3 4 5 6 7 8 9 10 11 12 13	-1022 255 155 146 5 13 3 12 6 6 6 3 18 484 5	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22	135 113 -1526 1007 30 20 15 66 29 17 10 8 59	146 689 1007 -2109 95 27 2 19 7 9 2 2 40 87	5 9 30 95 -2225 1355 251 282 52 23 6 8 36	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94	3 5 15 2 251 1222 -2055 291 188 58 5 9 21	12 21 66 19 282 1157 291 -3171 715 336 136 92 71	6 15 29 7 52 296 188 715 -2376 576 184 311 63 4	6 8 17 9 23 132 58 336 576 -1502 39 305 72	3 4 10 2 6 17 5 136 184 39 -617 140 76	18 13 8 2 8 24 9 92 311 305 140 -1542 637 4	464 43 59 40 36 94 21 71 63 72 76 637 46998	5 22 9 87 135 18 2 4 4 1 1 1 1 4 186	67 42 10 23 60 133 16 31 70 79 5 30 48860 1549
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total	-1022 255 155 146 5 13 3 12 6 6 6 3 18 464 5	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22 42	133 113 -1526 1007 30 20 13 66 29 17 10 8 59 9	146 689 1007 -2109 95 27 2 19 7 9 2 2 40 87 23	5 9 30 95 -2225 1355 251 282 52 23 6 8 36 135 60	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94 18 133	3 5 15 22 251 1222 -2055 291 188 5 5 9 21 2	12 21 66 19 282 1157 291 -3171 715 336 92 71 4	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 4	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 79	3 4 10 2 6 17 5 136 184 39 9-617 140 76 1	18 13 8 2 8 24 9 92 311 305 140 -1542 637 4 30	464 43 59 40 36 94 21 71 63 72 76 637 46998 186 48860	5 22 9 87 135 18 2 4 4 1 1 1 186 1069 1549	67 42 10 23 60 133 16 31 70 79 5 30 48860 1549 50975
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1022 255 155 146 5 13 3 12 6 6 3 18 484 5 67	255 -1169 113 689 9 15 5 21 15 8 4 13 22 42	155 113 -1526 1007 30 20 15 66 29 17 10 8 59 9	146 689 1007 -2109 95 27 2 19 7 9 2 2 40 87 23	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 135 60	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94 18 133	3 5 15 2 251 1222 -2055 291 188 5 9 9 21 2 16	12 21 66 19 282 1157 291 -3171 715 336 136 92 71 4	6 15 29 7 7 7 22 296 188 715 -2376 184 311 63 4 70	6 8 17 9 9 23 132 58 336 576 -1502 39 305 72 1 79 10 1.37	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 5	18 13 8 2 2 8 24 9 9 92 311 305 140 -1542 637 4 30	464 43 59 40 36 94 21 71 63 72 76 637 46998 186 48860	3 22 9 87 135 18 2 4 4 1 1 1 4 186 1069 1549	67 42 10 23 60 133 16 31 70 79 5 30 48860 1549 50975
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1022 255 155 146 13 3 12 6 6 3 18 464 5 67	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22 42 2 2 111 0.99 1.05	155 113 -1526 1007 30 20 15 66 29 17 10 8 59 9 10	146 689 1007 -2109 95 27 2 19 7 9 2 2 40 87 23	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 6 135 60	13 15 20 27 1355 -4257 1222 1157 294 13 13 133	3 5 13 2 251 1222 -2055 291 188 5 9 21 16	12 21 66 19 282 1157 291 -3171 715 336 92 71 4 31	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 4 70	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 79 10 1.37 1.76 1.57	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 1 5	18 13 8 2 2 8 24 9 9 92 311 305 140 -1542 637 4 30	464 43 59 40 366 94 21 71 63 72 76 637 46998 186 48860	3 22 9 87 135 18 2 4 4 1 1 1 4 186 1069 1549 14 1.08	67 42 10 23 60 133 16 31 70 79 5 30 48860 1549 50975
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1022 255 155 146 5 13 3 12 6 6 3 18 464 5 67	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22 42	193 113 -1526 1007 30 20 13 66 29 17 10 8 59 9 10	146 689 1007 -2109 95 27 2 19 7 7 9 2 2 40 87 23	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 135 60	13 15 20 27 1355 -4257 1222 1157 29 132 17 24 94 18 133	3 5 13 2 251 1222 -2055 291 188 5 5 9 21 2 16	12 21 66 19 282 1157 291 -3171 715 336 136 92 71 4 31	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 4 70	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 79 10 1.37 1.76	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 5	18 13 8 2 2 9 9 92 311 305 140 -1542 637 4 30	464 43 59 40 36 94 21 71 63 72 76 637 4698 186 48860	3 22 9 87 135 18 2 4 4 4 1 1 4 186 1069 1549	67 42 10 23 60 133 16 31 70 79 5 30 4860 1549 50975
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1022 255 135 146 5 13 3 12 6 6 3 18 464 5 7 67	255 -1169 113 689 9 15 5 21 15 8 4 4 13 43 22 42 42	155 113 -1526 1007 30 20 15 66 29 17 10 8 59 9 10	146 689 1007 -2109 95 27 2 19 7 9 2 2 40 87 23	5 9 30 95 -2225 1355 251 282 52 23 6 8 36 135 60 5 1.23 1.21 1.06 1.10	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94 18 133	3 5 13 2 251 1222 -2055 291 188 5 9 21 16	12 21 66 19 282 1157 291 -3171 715 336 136 92 71 4 31	6 15 29 7 7 52 296 188 715 -2376 576 576 184 311 63 4 70 9 1.41 1.80 1.61 1.77	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 79 10 1.37 1.76 1.57 1.92	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 1 5	18 13 8 2 8 24 9 92 311 305 140 -1542 637 4 30	464 43 59 40 36 94 21 71 63 72 76 637 46998 186 48860	3 22 9 87 135 18 2 4 4 1 1 1 4 186 1069 1549 14 1.18 1.08 1.09 1.09 1.07	67 42 10 23 600 133 16 31 70 79 5 30 48860 1549 50975 Total 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1022 235 135 146 5 13 3 12 6 6 3 18 464 5 67 0.99 1.11 1.07 1.21	255 -1169 113 689 9 15 5 21 15 8 4 13 22 42 2 111 0.99 1.05 113 121	193 113 -1326 1007 30 20 15 66 29 17 10 8 59 9 10	146 689 1007 -2109 95 27 2 19 7 7 9 2 2 40 87 23	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 135 60 5 1.23 1.21 1.06 1.10 0.98	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94 18 133	3 5 15 2 251 1222 -2055 291 188 5 5 9 21 2 16	12 21 66 19 282 1157 291 -3171 715 336 136 92 71 4 31	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 4 70	6 8 17 9 9 132 132 132 138 336 576 -1502 39 305 72 1 79 10 1.37 1.76 1.57 1.92 1.29	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 1 13 1.83 1.83 1.92 1.15	18 13 8 2 2 8 24 9 9 92 311 305 140 -1542 637 4 30	464 43 59 40 36 94 21 71 63 72 76 637 46998 186 48860	3 22 9 87 135 18 2 4 4 1 1 1 4 186 1069 1549 14 1.18 1.09 1.08 1.07 1.06	67 42 10 23 60 133 16 31 70 79 5 30 48860 1549 50975 Total 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Second Fact	-1022 255 155 146 5 13 3 12 6 6 3 18 464 5 5 67 09 1.11 1.07 1.21 1.23 1.46 1.18	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22 42 2 111 0.99 1.05 1.13 1.21 1.30 1.51	193 113 -1926 1007 30 20 15 66 29 17 10 8 59 10 10 3 1.07 1.05 0.93 1.16 1.06 1.17 1.37	146 689 1007 -2109 95 27 2 19 7 9 2 2 40 87 23 4 121 113 1.16 0.97 1.10 1.19 1.21 1.38	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 6 135 60	13 15 20 27 1355 -4257 1222 1157 294 18 133 6 1.40 1.30 1.17 1.19 1.03 0.99 1.04 1.05	3 5 13 2 251 1222 -2055 291 188 5 9 21 16	12 21 66 19 282 1157 291 -3171 715 336 92 71 4 31 8 1.18 1.51 1.20 1.38 1.10 1.00 1.00 1.00 1.00 1.00 1.00 1.0	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 4 70 9 1.41 1.80 1.61 1.77 1.22 1.14 1.10	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 79 10 1.37 1.76 1.57 1.92 1.29 1.14 1.12	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 13 8 2 2 8 24 9 9 92 311 305 140 -1542 637 4 30 12 1.77 1.60 1.95 1.24 1.14	464 43 59 40 36 94 21 71 63 72 76 637 46998 186 48860	3 22 9 87 135 18 2 4 4 1 1 1 4 186 1069 1549 1.08 1.07 1.06 1.26 1.29 1.25	67 42 10 23 60 133 16 31 70 79 5 30 48860 1549 50975 Total 1.000 1.000 1.000 1.000 1.000
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1022 255 155 145 5 13 3 12 6 6 3 18 464 5 67 0.99 1.11 1.07 1.23 1.40 1.41	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22 42 2 111 0.99 1.05 1.13 1.21 1.30 1.59 1.51 1.80	155 113 -1326 1007 30 20 15 66 29 17 10 8 59 9 10 3 1.07 1.05 0.93 1.16 1.06 1.17 1.32 1.12 1.20 1.61	146 689 1007 -2109 95 27 2 2 19 7 7 9 2 2 2 40 87 23 1113 1116 0.97 110 119 121 138 1.77	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 135 60 5 1.23 1.21 1.06 0.98 1.03 1.26 1.10 1.22	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 18 133 6 1.40 1.30 1.17 1.19 1.03 0.99 1.04	3 5 15 2 251 1222 -2055 291 188 5 5 9 21 2 16 7 1.46 1.59 1.37 1.21 1.26 1.04 0.98	12 21 66 19 282 1157 291 -3171 715 336 136 92 71 4 31 8 1.18 1.51 1.20 1.38 1.10 1.05 1.01	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 4 70 9 1.41 1.80 1.61 1.77 1.22 1.14 1.10 1.03 0.98	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 79 10 1.37 1.76 1.57 1.92 1.29 1.18 1.14 1.12 1.01	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 5 111 113 1.83 1.92 1.15 1.14 1.10 1.08 1.04	18 13 8 2 2 8 24 9 9 92 311 305 140 -1542 637 4 30 12 1.45 1.77 1.60 1.95 1.24 1.17 1.14 1.14 1.08	464 43 59 40 36 94 21 71 63 72 76 63 72 76 46998 186 48860 13 1.07 1.27 1.23 1.23 1.23 1.20 1.20	3 22 9 9 87 135 18 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	677 42 10 23 360 133 16 31 700 79 5 30 48860 1549 50975 Total 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact 1 2 3 4 5 6 7 8 9 10	-1022 255 155 146 5 13 3 12 6 6 6 6 3 18 464 5 67 0.99 1.11 1.07 1.21 1.23 1.40 1.46 1.18 1.41 1.37	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22 42 2 111 0.99 1.05 1.13 1.21 1.30 1.59 1.51 1.80 1.76	195 113 -1926 1007 30 20 15 66 29 17 10 8 59 9 10 107 1.05 0.93 1.16 1.06 1.17 1.37 1.26	146 689 1007 -2109 95 27 2 19 7 9 2 2 40 87 23 4 121 113 116 0.97 110 119 121 138 177 192	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 135 60 5 1.23 1.21 1.06 1.10 0.98 1.03 1.26 1.10 1.22 1.29	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 94 18 133 133 6 1.40 1.30 1.17 1.19 1.03 0.99 1.04 1.14	3 5 15 2 251 1222 -2055 291 188 5 9 21 16 7 7 1.46 1.59 1.37 1.26 1.04 0.98 1.01	12 21 65 19 282 1157 291 -3171 715 336 136 92 71 4 31 8 1.18 1.51 1.20 1.30 1.01 0.05 1.01	6 15 29 7 7 7 22 296 188 715 576 184 311 63 34 70 9 1.41 1.80 1.61 1.71 1.22 1.14 1.10 1.03 0.98 1.01	6 8 17 9 9 23 132 58 336 576 -1502 39 305 72 1 79 10 1.37 1.76 1.57 1.92 1.18 1.14 1.12 1.01 0.99	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 1 5 111 1.13 1.83 1.50 1.92 1.15 1.14 1.10 1.04 1.04	18 13 8 2 2 8 24 9 9 92 311 305 140 -1542 637 4 30 1.45 1.77 1.69 1.24 1.17 1.14 1.14 1.14 1.08 1.04	464 43 59 40 36 94 21 71 63 72 76 637 72 76 46998 186 48860 13 1.07 1.27 1.18 1.35 1.23 1.23 1.20 1.20 1.17	144 1.18 1.09 1.08 1.26 1.26 1.26 1.29 1.32	67 42 10 23 60 133 16 31 70 79 5 30 48860 1549 50975 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 1 2 2 3 4 4 5 6 6 7 8 9 10 11 1 2 1 3 1 4 1 5 6 6 7 7 8 9 10 11	-1022 255 155 146 5 13 3 12 6 6 3 18 464 5 67 09 1.11 1.07 1.23 1.40 1.46 1.18 1.41 1.45 1.13	255 -1169 113 689 9 15 5 21 15 8 4 13 42 2 42 2 111 0.99 1.05 1.13 121 130 159 1.51 180 176 1.83	193 113 -1926 1007 30 20 15 66 29 17 10 8 59 9 10 10 3 1.07 1.05 0.93 1.16 1.06 1.17 1.37 1.20 1.57	146 689 1007 -2109 95 27 2 19 7 7 9 2 2 40 87 23 4 121 113 116 0.97 119 121 138 1.77	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 6 135 60 5 1.23 1.21 1.06 1.10 0.98 1.03 1.26 1.10	13 15 20 27 1355 -4257 1222 1157 24 94 18 133 133 6 1.40 1.30 1.17 1.19 1.03 0.99 1.04 1.05 1.18	3 5 15 2 251 1222 -2055 291 188 5 9 21 16 7 7.1.46 1.59 1.37 1.21 1.26 1.04 0.98 1.01	12 21 66 19 282 1157 291 -3171 715 336 136 92 71 4 31 8 1.18 1.51 1.20 1.30 1.10 1.05 1.05 1.01 0.98 1.03	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 3 4 70 9 1.41 1.80 1.61 1.77 1.22 1.14 1.10 1.03 0.03 0.03 0.03 0.03 0.03 0.03	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 10 1.37 1.76 1.57 1.92 1.29 1.18 1.14 1.12 1.01 0.99 1.08	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 1 5 11 1.13 1.83 1.50 1.92 1.14 1.10 1.08 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04	18 13 8 24 9 92 311 305 140 -1542 637 4 30 12 1.45 1.77 1.60 1.95 1.24 1.17 1.14 1.14 1.04	464 43 59 40 36 94 21 71 63 72 76 637 4598 186 48860 13 1.07 1.27 1.18 1.35 1.23 1.20 1.20 1.20	3 22 9 87 135 18 2 4 4 4 1 1 1 4 186 1069 1549 1.08 1.07 1.06 1.26 1.29 1.25 1.39 1.52 1.47	67 42 10 23 60 133 16 31 79 5 30 48860 1549 50975 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 2 13 4 5 6 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-1022 255 155 146 5 13 3 12 6 6 6 3 18 464 5 67 09 1.11 1.07 1.21 1.22 1.40 1.46 1.18 1.41 1.33 1.43	255 -1169 113 689 9 15 5 21 15 8 4 13 43 22 42 2 111 0.99 1.05 1.13 121 130 1.59 1.51 1.80 1.76	155 113 -1526 1007 30 20 15 66 29 17 10 8 59 9 10 10 3 1.07 1.05 0.93 1.16 1.07 1.20 1.61 1.57 1.50	146 689 1007 -2109 95 27 2 19 7 7 9 2 2 40 87 23 4 121 113 116 0.97 110 119 121 138 1.77 1.92 1.92	5 9 30 95 -2225 1355 251 282 52 23 36 8 8 36 135 60 5 1.23 1.21 1.06 1.10 0.98 1.03 1.26 1.10 1.22 1.22	13 15 20 27 1355 -4257 1222 1157 24 94 18 133 6 6 1.40 1.30 1.17 1.19 1.03 0.99 1.04 1.05 1.14 1.14	3 5 13 2 251 1222 -2055 291 188 58 59 21 16 7 7.1.46 1.59 1.37 1.21 1.26 1.04 0.98 1.01 1.10	12 21 66 19 282 1157 291 -3171 713 336 92 71 4 31 8 1.18 1.51 1.20 1.38 1.10 1.05 1.01 0.98 1.03	6 15 29 7 7 52 296 188 715 -2376 184 311 63 4 70 9 1.41 1.80 1.61 1.77 1.22 1.14 1.10 1.03 0.98 1.04 1.04	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 79 10 1.37 1.76 1.57 1.92 1.29 1.18 1.14 1.12 1.01 0.99 1.08 1.04	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 1 13 1.83 1.50 1.92 1.14 1.10 1.08 1.04 1.04 1.06 1.06 1.06 1.06 1.06 1.06 1.06 1.06	18 13 8 24 9 92 311 305 140 -1542 637 4 30 12 1.45 1.77 1.60 1.95 1.27 1.14 1.14 1.08 1.06 0.96	464 43 59 40 36 94 21 71 63 72 76 637 46938 186 48860	14 1186 1069 1549 144 1186 1069 1549 144 1188 1.09 1.08 1.07 1.08 1.07 1.06 1.26 1.29 1.25 1.39 1.54	67 42 10 23 60 133 16 31 79 5 30 48860 1549 50975 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 1 2 2 3 4 4 5 6 6 7 8 9 10 11 1 2 1 3 1 4 1 5 6 6 7 7 8 9 10 11	-1022 255 155 146 5 13 3 12 6 6 3 18 464 5 67 09 1.11 1.07 1.23 1.40 1.46 1.18 1.41 1.45 1.13	255 -1169 113 689 9 15 5 21 15 8 4 13 42 2 42 2 111 0.99 1.05 1.13 121 130 159 1.51 180 176 1.83	193 113 -1926 1007 30 20 15 66 29 17 10 8 59 9 10 10 3 1.07 1.05 0.93 1.16 1.06 1.17 1.37 1.20 1.57	146 689 1007 -2109 95 27 2 19 7 7 9 2 2 40 87 23 4 121 113 116 0.97 119 121 138 1.77	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 6 135 60 5 1.23 1.21 1.06 1.10 0.98 1.03 1.26 1.10	13 15 20 27 1355 -4257 1222 1157 24 94 18 133 133 6 1.40 1.30 1.17 1.19 1.03 0.99 1.04 1.05 1.18	3 5 15 2 251 1222 -2055 291 188 5 9 21 16 7 7.1.46 1.59 1.37 1.21 1.26 1.04 0.98 1.01	12 21 66 19 282 1157 291 -3171 715 336 136 92 71 4 31 8 1.18 1.51 1.20 1.30 1.10 1.05 1.05 1.01 0.98 1.03	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 3 4 70 9 1.41 1.80 1.61 1.77 1.22 1.14 1.10 1.03 0.03 0.03 0.03 0.03 0.03 0.03	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 10 1.37 1.76 1.57 1.92 1.29 1.18 1.14 1.12 1.01 0.99 1.08	3 4 10 2 6 17 5 136 184 39 -617 140 76 1 1 5 11 1.13 1.83 1.50 1.92 1.14 1.10 1.08 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.04	18 13 8 24 9 92 311 305 140 -1542 637 4 30 12 1.45 1.77 1.60 1.95 1.24 1.17 1.14 1.14 1.04	464 43 59 40 36 94 21 71 63 72 76 637 4598 186 48860 13 1.07 1.27 1.18 1.35 1.23 1.20 1.20 1.20	3 22 9 87 135 18 2 4 4 4 1 1 1 4 186 1069 1549 1.08 1.07 1.06 1.26 1.29 1.25 1.39 1.52 1.47	67 42 10 23 60 133 16 31 79 5 30 48860 1549 50975 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 1 2 3 4 5 6 6 7 7 8 9 10 11 1 2 1 3 1 4 1 5 6 6 7 7 8 9 10 11 12 13	-1022 235 135 145 5 13 3 12 6 6 3 18 464 5 67 0.99 1.11 1.07 1.23 1.40 1.41 1.37 1.13 1.41	255 -1169 113 -689 9 15 5 21 15 8 4 13 32 42	193 113 -1226 1007 30 20 15 66 29 17 10 8 8 59 9 10 3 1.07 1.09 1.09 1.16 1.17 1.20 1.61 1.57 1.50 1.16 1.17	146 689 1007 -2109 95 27 2 2 19 7 7 9 2 2 2 40 87 23 4 121 113 116 0.97 110 119 121 138 1.77 1.92 1.92 1.92 1.92 1.92 1.93 1.93 1.93 1.93 1.93 1.93 1.93 1.93	5 9 30 95 -2225 1355 251 282 52 23 6 8 8 36 135 60	13 15 20 27 1355 -4257 1222 1157 296 132 17 24 18 133 6 1.40 1.30 1.17 1.19 1.03 0.99 1.04 1.05 1.14 1.18 1.14 1.18 1.14	3 5 15 2 251 1222 -2055 291 188 58 5 9 21 2 16 7 1.46 1.59 1.37 1.21 1.26 1.04 0.98 1.01 1.10 1.10	12 21 66 19 282 1157 291 -3171 715 336 136 92 71 4 31 8 1.18 1.51 1.20 1.05 1.05 1.03 1.03 1.12 1.03	6 15 29 7 7 52 296 188 715 -2376 576 184 311 63 4 70 9 1.41 1.80 1.61 1.77 1.22 1.14 1.10 1.03 0.98 1.01 1.04 1.04 1.04 1.04 1.04 1.04 1.04	6 8 17 9 23 132 58 336 576 -1502 39 305 72 1 79 100 1.37 1.76 1.57 1.92 1.29 1.18 1.14 1.12 1.01 0.99 1.08 1.04 1.17	3 4 10 2 6 17 5 136 184 39 -617 140 15 11 113 183 150 192 115 114 110 108 0.96 108 108 108 108 108 108 108 108 108 108	18 13 8 2 2 8 24 9 9 92 311 305 140 -1542 637 4 30 12 1.45 1.77 1.60 1.95 1.24 1.17 1.14 1.08 1.04	464 43 59 40 36 94 21 71 63 72 76 637 46998 186 48860 13 1.07 1.27 1.23 1.23 1.23 1.20 1.20 1.17 1.14 1.08	14 1.18 1.09 1.29 1.29 1.47 1.18 1.09 1.06 1.26 1.29 1.25 1.39 1.52	677 422 100 233 600 1333 166 311 700 79 5 300 488600 1549 50975 Total 1.000



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	ice ca	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
	1	86927	1327	1685	441	43	59	13	95	34	14	45	42	4092	66	94884
	2	1298	69605	1724	2886	42	75	13	58	42	17	20	25	109	172	76085
	3	1643	1724	28929	2906	235	89	25	252	105	42 9	84	40	334	151	36558
	5	523 43	3027 39	2979 222	71842 584	624 118324	173 42513	16 473	38 2013	33 131	50	10 72	10 54	50 306	1434 3433	80769 168257
	6	62	76	90	193	40995	430536	37868	17440	1658	420	130	211	866	328	530872
	7	15	14	29	17	461	37493	103234	20861	1124	191	40	88	199	32	163799
	8	102	60	253	48	2023	18425	21601	137087	16296	1625	1186	406	457	78	199647
	9	34	36	105	35	109	1599	1138	16048	128844	38368	2895	2639	909	47	192807
	10	16	16	47	10	53	437	216	1643	39634	149760	204	6632	514	27	199209
	11	51 43	20 22	86 40	8 11	54 59	108 211	52 89	1162 362	2797 2991	235 8083	20787 1362	1631 67231	246 14888	22 25	27259 95416
	13	5086	124	441	71	370	1004	237	549	508	379	326		38968868		38992238
	14	39	136	120	1690	4737	178	29	53	58	28	23	24	158	3535119	3542391
To	tal	95884	76223	36750	80741	168127	532901	165005	197662	194254	199223	27186	92699 3	8991995	3541542	44400192
DS - 202	29 - U	СЗ														
	_	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
	1	85593	1549	1955	564	60	88	21	126	49	21	56	64	4794	83	95025
	2	1520	68477	1923	3309	57	107	22	99	78	32	38	46	175	204	76088
	3	1889 664	1908 3457	27493 3843	3703 69624	285 732	124 224	44 21	354 58	188	78 19	129 21	72 22	443 78	177 1629	36888 80456
	5	664	3457	3843 271	69624 684	732 115845	44346	21 640	2325	170	19 70	93	72	78 415	1629 3771	80456 168816
	6	93	108	127	248	42826	423338	39515	19082	2025	536	159	269	1158	445	529930
	7	24	24	54	21	622	39177	100321	21310	1319	237	48	109	264	42	163573
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	9	50	68	197	67	142	1944	1321	16906	125355	39184	3120	3023	1096	70	192542
	10	24	30	87	19	74	559	267	1983	40462	147569	241	7137	645	42	199137
	11	65 68	38 41	139 73	16 23	69 77	133 266	61 109	1352 431	2983 3376	273 8625	20009 1503	1805 64626	311 16592	34 40	27288 95850
	13	5969	196	594	110	497	1324	309	709	643	482	406		8982589	834	39010080
	14	50	161	142	1889	5080	243	38	71	86	43	37	39	230	3535588	3543695
To	tal	96205	76213	37263	80349	168695	531836	164666	198558	193957	199121	27244	93187 3	9009388	3543063	44419744
Differe	nce															
Differe	_	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Differe	1	-1333	222	270	123	17	29	8	31	15	7	11	23	702	17	141
Differe	1 2	-1333 221	222 -1127	270 199	123 423	17 16	29 32	8 9	31 40	15 36	7 15	11 18	23 21	702 66	17 32	141 2
Differe	1 2 3	-1333	222	270	123	17	29	8	31	15	7	11	23	702	17	141
Differe	1 2	-1333 221 246	222 -1127 184	270 199 -1436	123 423 797	17 16 51	29 32 35	8 9 20	31 40 102	15 36 83	7 15 35	11 18 45	23 21 32	702 66 109	17 32 26	141 2 330
Differe	1 2 3 4	-1333 221 246 140	222 -1127 184 430	270 199 -1436 864	123 423 797 -2218	17 16 51 108	29 32 35 50	9 20 5	31 40 102 20	15 36 83 32	7 15 35 9	11 18 45 10	23 21 32 11	702 66 109 29	17 32 26 196	141 2 330 -314
Differe	1 2 3 4 5 6 7	-1333 221 246 140 17 32	222 -1127 184 430 15 33 10	270 199 -1436 864 49 37 25	123 423 797 -2218 100 55	17 16 51 108 -2478 1831 161	29 32 35 50 1832 -7198 1684	8 9 20 5 167 1647 -2913	31 40 102 20 312 1642 449	15 36 83 32 39 367 195	7 15 35 9 20 116 46	11 18 45 10 20 29 8	23 21 32 11 18 57 20	702 66 109 29 109 292 65	17 32 26 196 339 118	141 2 330 -314 559 -941 -226
Differe	1 2 3 4 5 6 7 8	-1333 221 246 140 17 32 9	222 -1127 184 430 15 33 10 42	270 199 -1436 864 49 37 25	123 423 797 -2218 100 55 5	17 16 51 108 -2478 1831 161 305	29 32 35 50 1832 -7198 1684 1540	8 9 20 5 167 1647 -2913 376	31 40 102 20 312 1642 449	15 36 83 32 39 367 195 863	7 15 35 9 20 116 46 326	11 18 45 10 20 29 8 197	23 21 32 11 18 57 20 81	702 66 109 29 109 292 65 140	17 32 26 196 339 118 10 24	141 2 330 -314 559 -941 -226 726
Differe	1 2 3 4 5 6 7 8	-1333 221 246 140 17 32 9 33	222 -1127 184 430 15 33 10 42	270 199 -1436 864 49 37 25 112	123 423 797 -2218 100 55 5 22 32	17 16 51 108 -2478 1831 161 305	29 32 35 50 1832 -7198 1684 1540 345	8 9 20 5 167 1647 -2913 376 183	31 40 102 20 312 1642 449 -3335 858	15 36 83 32 39 367 195 863	7 15 35 9 20 116 46 326 816	11 18 45 10 20 29 8 197 224	23 21 32 11 18 57 20 81	702 66 109 29 109 292 65 140	17 32 26 196 339 118 10 24 23	141 2 330 -314 559 -941 -226 726 -265
Differs	1 2 3 4 5 6 7 8	-1333 221 246 140 17 32 9	222 -1127 184 430 15 33 10 42	270 199 -1436 864 49 37 25	123 423 797 -2218 100 55 5	17 16 51 108 -2478 1831 161 305	29 32 35 50 1832 -7198 1684 1540	8 9 20 5 167 1647 -2913 376	31 40 102 20 312 1642 449	15 36 83 32 39 367 195 863	7 15 35 9 20 116 46 326	11 18 45 10 20 29 8 197	23 21 32 11 18 57 20 81	702 66 109 29 109 292 65 140	17 32 26 196 339 118 10 24	141 2 330 -314 559 -941 -226 726
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Differe	1 2 3 4 5 6 7 8 9 10 11 12 13	-1333 221 246 140 17 32 9 33 16 8 14 25	222 -1127 184 430 15 33 10 42 32 14 18 19	270 199 -1436 864 49 37 25 112 91 40 53 34 153	123 423 797 -2218 100 53 5 22 32 10 8 11	17 16 51 108 -2478 1831 161 305 33 21 16 19	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320	8 9 20 5 167 1647 -2913 376 183 51 9	31 40 102 20 312 1642 449 -3335 858 339 190 70 159	15 36 83 32 39 367 195 863 -3489 828 186 385 135	7 15 35 9 20 116 46 326 816 -2191 39 542 103	11 18 45 10 20 29 8 197 224 37 -778 141 81	23 21 32 31 18 57 20 81 384 505 174 -2605	702 666 109 29 109 292 65 140 187 131 64 1705	17 32 26 196 339 118 10 24 23 15 12 25	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842
	1 2 3 4 5 6 7 8 9 10 11 12 13	-1333 221 246 140 17 32 9 33 16 8 14 25	222 -1127 184 430 15 33 10 42 32 14 18 19 72	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22	123 423 797 -2218 100 53 5 22 32 100 8 11 39	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320 65	8 9 20 5 167 1647 -2913 376 183 51 9 19 72	31 40 102 20 312 1642 449 -3335 858 339 190 70 159 18	15 36 83 32 39 367 195 863 -3489 828 128 385 135 28	7 13 35 9 20 116 46 326 816 -2191 39 542 103	11 18 45 10 20 29 8 197 224 37 -778 141 81	23 21 32 11 18 57 20 81 384 505 174 -2605 1751	702 66 109 29 109 292 63 140 187 131 64 1705	17 32 26 196 339 118 10 24 23 15 12 26 469	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304
	1 2 3 4 5 6 7 8 9 10 11 12 13	-1333 221 246 140 17 32 9 33 16 8 14 25	222 -1127 184 430 15 33 10 42 32 14 18 19	270 199 -1436 864 49 37 25 112 91 40 53 34 153	123 423 797 -2218 100 53 5 22 32 10 8 11	17 16 51 108 -2478 1831 161 305 33 21 16 19	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320	8 9 20 5 167 1647 -2913 376 183 51 9	31 40 102 20 312 1642 449 -3335 858 339 190 70 159	15 36 83 32 39 367 195 863 -3489 828 186 385 135	7 15 35 9 20 116 46 326 816 -2191 39 542 103	11 18 45 10 20 29 8 197 224 37 -778 141 81	23 21 32 31 18 57 20 81 384 505 174 -2605	702 666 109 29 109 292 65 140 187 131 64 1705	17 32 26 196 339 118 10 24 23 15 12 25	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842
	1 2 3 4 5 6 7 8 9 10 11 12 13 14	-1333 221 246 140 17 32 9 33 16 8 14 25 883 11	222 -1127 184 430 15 33 10 42 32 14 18 19 72 25 -11	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22	123 423 797 -2218 100 53 5 22 32 10 8 11 39 200	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343	29 32 33 50 1832 -7198 1684 1340 345 122 24 53 320 65	8 9 20 167 1647 -2913 376 183 51 9 19 72 9 9 -339	31 40 102 20 312 1642 449 -3335 858 339 190 70 159 18	15 36 83 32 39 367 195 863 -3489 828 186 385 133 28	7 15 35 9 20 116 46 326 816 -2191 39 542 103 15	11 18 45 10 20 29 8 197 224 37 -778 141 81 14	23 21 32 11 18 57 20 81 384 505 174 -2605 1751 13	702 66 109 29 109 292 65 140 187 131 64 1705 13721 71	17 32 26 196 199 118 10 24 23 15 12 26 469	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304
Та	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 14 14 15 16 17	-1333 221 246 140 17 32 9 33 16 8 8 14 25 883 11 320	222 -1127 184 430 15 33 10 42 32 14 18 19 72 25 -11	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513	123 423 797 -2218 100 55 5 22 32 10 8 11 39 200 -393	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320 65 -1065	8 9 20 5 167 -2913 376 183 51 9 19 72 9	31 40 102 20 312 1642 449 -3335 838 339 190 70 159 18 896	15 36 83 32 39 367 195 863 -3489 828 186 385 135 28 -297	7 13 35 9 20 116 46 326 816 -2191 39 542 103 15 -101	11 18 45 10 20 29 8 197 224 37 7-778 141 81 14 58	23 21 32 11 18 57 20 81 384 505 174 -2605 1751 15	702 66 109 29 109 292 65 140 187 131 64 1705 13721 71 17392	17 32 26 196 339 118 10 24 23 15 12 15 12 26 469	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304
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Та	1 2 3 4 5 6 7 8 9 10 11 12 13 14 stal	-1333 221 246 140 17 32 9 33 16 8 14 25 883 11 320 01 1 0.98	222 -1127 184 430 15 33 10 42 32 14 18 19 72 25 -11	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513	123 423 797 -2218 100 55 22 32 20 8 11 13 200 -393	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320 65 -1065	8 9 20 20 5 167 1647 -2913 376 183 51 9 19 72 9 -339	31 40 102 312 1642 449 -3335 858 339 190 70 159 896	15 36 83 32 39 367 195 863 -3459 828 186 385 135 28 -297	7 15 35 9 20 116 46 326 816 -2191 39 542 103 15 -101	11 18 45 10 20 29 8 197 224 37 -778 141 81 14 58	23 21 32 11 18 57 20 81 384 505 174 -2605 1751 15 488	702 66 109 29 109 292 65 140 187 131 64 1705 13721 71 17392	17 32 26 196 339 118 10 24 23 15 12 15 12 469 1521	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304 19551
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Та	1 2 3 4 5 6 7 8 9 10 111 12 13 14 14 15 1 Factor 7	-1333 221 246 140 17 32 9 33 16 8 14 25 883 11 320 0f 1 0.98 1.17 1.15 1.27 1.39 1.51	222 -1127 184 430 15 33 10 42 32 14 18 19 72 25 -11	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513 3 1.16 1.12 0.95 1.29 1.22 1.41 1.85	123 423 797 -2218 100 55 5 22 32 10 8 11 3 200 -393 4 128 1.15 1.27 0.97 1.17 1.29 1.29	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568	29 32 35 50 1832 -7198 1684 1540 345 52 24 55 320 65 -1065	8 9 20 5 167 1647 -2913 376 183 51 1 9 19 72 9 -339 7 1.57 1.70 1.81 1.30 1.35 1.04 0.97	31 40 102 312 1642 449 -3335 858 339 190 70 159 18 896	15 36 83 32 39 367 195 863 -3459 828 186 385 135 28 -297 9 1.46 1.86 1.79 1.95 1.95	7 15 35 9 20 116 46 326 816 -2191 39 542 103 15 -101 10 1.48 1.85 1.84 2.04 1.39 1.28	11 18 45 10 20 29 8 197 224 37 -778 141 81 14 58 11 124 1.88 1.54 2.01 1.22 1.22 1.22 1.22	23 21 32 11 18 57 20 81 384 505 174 -2605 1751 15 488	702 66 109 29 292 65 140 187 131 64 1705 13721 71 17392 13 1.17 1.61 1.33 1.58 1.36 1.34	17 32 26 196 339 118 10 24 23 15 12 15 12 15 1226 469 1521 14 1.25 1.19 1.17 1.14 1.10 1.36 1.32	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304 19551 Total 1.00 1.00 1.00 1.00 1.00 1.00
Та	1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 14 14 15 1 Factor 1 5 6 6 7 8	-1333 221 246 140 17 32 9 33 16 8 14 25 883 11 320 0r 1 0.98 1.17 1.15 1.27 1.39 1.51 1.57 1.32	222 -1127 184 430 15 33 10 42 32 14 18 19 725 -11 2 117 0.98 1.11 1.14 1.39 1.43 1.73 1.70	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513 3 1.16 1.12 0.95 1.29 1.22 1.41 1.85 1.44	123 423 797 -2218 100 53 5 22 32 10 8 11 39 200 -393 4 128 115 127 0.97 117 129 145	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568 5 1.39 1.38 1.22 1.17 0.98 1.09 1.33 1.15	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320 65 -1065	8 9 20 167 1647 -2913 376 183 51 9 19 72 9 -339 7 1.57 1.70 1.81 1.30 1.35 1.04 0.97 1.02	31 40 102 312 1642 449 -3333 838 339 190 70 159 18 896	15 36 83 32 39 367 195 863 -3489 828 186 385 135 28 -297 9 1.46 1.86 1.79 1.95 1.30 1.3	7 15 35 9 20 116 46 326 816 -2191 39 542 103 15 -101 10 1.48 1.85 1.84 2.04 1.39 1.24 1.20	11 18 45 10 20 29 8 197 224 37 -778 141 81 14 58 11 124 188 154 2.01 128 122 120 117	23 21 32 11 18 57 20 81 384 505 174 -2605 1751 15 488 12 1.54 1.86 1.80 2.08 1.34 1.27 1.23 1.20	702 66 109 29 292 65 140 187 131 64 1705 13721 71 17392 13 1.17 1.61 1.33 1.58 1.36 1.34 1.33 1.34	17 32 26 196 399 318 10 24 23 15 12 25 15 226 1521 14 1.17 1.14 1.10 1.36 1.32 1.31	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304 19551 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Та	1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 14 15 1 Factor 1 7 8 9 9	-1333 221 246 140 17 32 9 33 16 8 14 14 25 883 11 320 0f 1.17 1.15 1.39 1.51 1.51 1.52 1.32 1.47	222 -1127 184 430 15 33 10 42 32 14 18 19 72 25 -11 2 1.17 0.98 1.11 1.14 1.39 1.43 1.70 1.90	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513 1.16 1.12 0.95 1.22 1.41 1.87	123 423 797 -2218 100 55 5 22 32 10 8 11 39 200 -393 4 1.28 1.15 1.27 0.97 1.17 1.29 1.29 1.45	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568 5 1.39 1.38 1.22 1.17 0.98 1.04 1.35	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320 65 -1065 6 1.49 1.42 1.39 1.04 0.98 1.04 1.04	8 9 20 5 167 1647 -2913 376 183 51 9 9 72 9 9 -339 7 1.57 1.70 1.81 1.30 1.35 1.04 0.97 1.02 1.16	31 40 102 20 312 1642 449 -3335 838 339 190 70 159 18 896 8 1.32 1.69 1.40 1.51 1.16 1.09 1.02	15 36 83 32 32 39 367 195 863 -3459 828 186 385 135 28 -297 9 1.46 1.86 1.79 1.91 1.30 1.22 1.17 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	7 15 35 9 20 116 46 816 -2191 39 542 103 15 -101	11 18 45 10 20 29 8 197 224 37 -778 141 14 58 11 124 1.88 1.54 2.01 1.28 1.22 1.20 1.2	23 21 32 11 18 57 20 84 505 174 -2605 1751 13 488 12 1.54 1.86 1.86 1.80 2.08 1.34 1.27 1.20	702 66 109 29 109 292 65 140 187 131 64 1705 13721 71 17392 13 1.17 1.61 1.33 1.58 1.36 1.34 1.33 1.34	17 32 26 196 339 118 10 24 23 15 12 226 469 1521 14 1.25 1.19 1.17 1.14 1.10 1.36 1.32 1.31	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304 19551 Total 1.000
Та	1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 6 6 7 8 9 10 10 11 10 10 10 10 10 10 10 10 10 10	-1333 221 246 140 17 32 9 33 16 8 14 25 883 11 320 0f 1 0.98 1.17 1.15 1.27 1.39 1.51 1.57 1.37 1.37 1.47	222 -1127 184 430 10 42 32 14 18 19 72 25 -11 2 117 0.98 1.11 1.14 1.39 1.43 1.73 1.70 1.90 1.87	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513 1.16 1.12 0.95 1.22 1.41 1.85 1.41 1.85	123 423 797 -2218 100 53 5 22 32 32 32 32 32 32 32 32 10 8 11 39 200 -393 4 128 115 127 129 129 129 129 129 129 129 129 129 129	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568 5 1.39 1.38 1.22 1.17 0.98 1.04 1.35 1.30	29 32 35 50 1832 -7198 1684 1540 345 122 24 53 320 65 -1065 6 1.49 1.42 1.39 1.04 0.98 1.04 1.04 1.02 1.04	8 9 20 5 167 1647 -2913 376 183 183 183 183 183 183 183 183 183 183	31 40 102 20 312 1642 449 -3335 838 339 190 70 159 18 896 8 1.32 1.69 1.40 1.16 1.09 1.02 0.03	15 36 83 32 39 367 195 863 -3489 828 186 385 135 28 -297 9 1.46 1.86 1.79 1.90 1.22 1.17 1.00 1.0	7 15 35 9 20 116 46 326 816 -2191 39 542 103 15 -101 10 1.48 1.85 1.84 2.04 1.39 1.28 1.24 1.02	11 18 45 10 20 29 8 197 224 37 -778 141 81 14 58 11 124 188 134 20 11 124 188 134 148 158 168 178 188 198 198 198 198 198 198 19	23 21 32 11 18 57 20 84 505 174 -2605 1751 15 488 12 1.54 1.86 1.86 1.86 1.86 1.27 1.23 1.27 1.23 1.27	702 66 109 29 109 292 65 140 187 71 1705 13721 17392 13 1.17 1.61 1.33 1.36 1.34 1.33 1.31 1.21	17 32 26 196 339 118 10 24 23 315 12 26 469 1521 14 1.25 1.19 1.17 1.10 1.36 1.32 1.31 1.55	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304 19551 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
Та	1 2 3 4 5 6 6 7 8 9 9 10 11 12 13 14 14 15 1 Factor 1 7 8 9 9	-1333 221 246 140 17 32 9 33 16 8 14 14 25 883 11 320 0f 1.17 1.15 1.39 1.51 1.51 1.52 1.32 1.47	222 -1127 184 430 15 33 10 42 32 14 18 19 72 25 -11 2 1.17 0.98 1.11 1.14 1.39 1.43 1.70 1.90	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513 1.16 1.12 0.95 1.22 1.41 1.87	123 423 797 -2218 100 55 5 22 32 10 8 11 39 200 -393 4 1.28 1.15 1.27 0.97 1.17 1.29 1.29 1.45	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568 5 1.39 1.38 1.22 1.17 0.98 1.04 1.35	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320 65 -1065 6 1.49 1.42 1.39 1.04 0.98 1.04 1.04	8 9 20 5 167 1647 -2913 376 183 51 9 9 72 9 9 -339 7 1.57 1.70 1.81 1.30 1.35 1.04 0.97 1.02 1.16	31 40 102 20 312 1642 449 -3335 838 339 190 70 159 18 896 8 1.32 1.69 1.40 1.51 1.16 1.09 1.02	15 36 83 32 32 39 367 195 863 -3459 828 186 385 135 28 -297 9 1.46 1.86 1.79 1.91 1.30 1.22 1.17 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	7 15 35 9 20 116 46 816 -2191 39 542 103 15 -101	11 18 45 10 20 29 8 197 224 37 -778 141 14 58 11 124 1.88 1.54 2.01 1.28 1.22 1.20 1.2	23 21 32 11 18 57 20 84 505 174 -2605 1751 13 488 12 1.54 1.86 1.86 1.80 2.08 1.34 1.27 1.20	702 66 109 29 109 292 65 140 187 131 64 1705 13721 71 17392 13 1.17 1.61 1.33 1.58 1.36 1.34 1.33 1.34	17 32 26 196 339 118 10 24 23 15 12 226 469 1521 14 1.25 1.19 1.17 1.14 1.10 1.36 1.32 1.31	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304 19551 Total 1.000
Та	1 2 3 4 5 6 7 8 9 10 11 12 13 14 5 6 7 7 8 9 10 11 11	-1333 221 246 140 17 32 9 33 16 8 14 25 883 11 320 07 1 0.98 1.17 1.15 1.27 1.39 1.51 1.57 1.32 1.47 1.47 1.27	222 -1127 184 430 10 42 32 14 18 19 72 25 -11 2 1.17 0.98 1.11 1.14 1.39 1.43 1.73 1.70 1.90 1.87	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513 3 1.16 1.12 0.95 1.29 1.21 1.41 1.85 1.44 1.85 1.44	123 423 797 -2218 100 55 5 22 32 20 8 11 13 200 -393 4 128 1.15 1.27 0.97 1.17 1.29 1.29 1.45 1.90 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568 5 1.39 1.38 1.22 1.17 0.98 1.39 1.35 1.15 1.04 1.35 1.15 1.04	29 32 35 50 1832 -7198 1694 1540 345 55 320 65 -1065 6 1.49 1.42 1.39 1.04 0.98 1.04 1.08 1.08	8 9 20 167 1647 -2913 376 183 51 9 19 72 2 9 -339 7 1.57 1.70 1.81 1.30 1.35 1.04 0.97 1.02 1.16 1.24 1.18	31 40 102 312 1642 449 -3335 858 339 190 70 159 18 896 8 1.32 1.69 1.40 1.51 1.16 1.09 1.02 0.98 1.02 1.21 1.21 1.21	15 36 83 32 39 367 195 863 -3489 828 186 385 135 28 -297 9 1.46 1.86 1.79 1.95 1.30 1.22 1.17 1.05 0.07 1.07	7 15 35 9 20 116 46 816 -2191 39 542 103 15 -101 10 1.48 1.85 1.84 2.04 1.39 1.28 1.24 1.20 0.99 1.16	11 18 45 10 20 29 8 197 -778 141 81 14 58 11 124 188 154 201 128 122 120 117 108 109 109 109 109 109 109 109 109	23 21 32 11 18 57 20 81 384 505 174 -2605 1751 15 488 12 1.54 1.86 1.80 2.08 1.34 1.27 1.23 1.20 1.11	702 66 109 29 292 65 140 187 131 64 1705 13721 71 17392 13 1.17 1.61 1.33 1.36 1.34 1.33 1.31 1.21 1.25	17 32 26 196 339 118 10 24 23 15 12 15 12 15 12 16 119 1.17 1.14 1.10 1.36 1.32 1.31 1.55 1.58	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304 19551 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
To Growth	1 2 3 4 5 6 7 8 9 10 11 12 13 4 5 6 7 8 9 10 11 12 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-1333 221 246 140 17 32 9 33 16 8 14 25 883 11 320 0f 1 0.98 1.17 1.15 1.27 1.39 1.51 1.57 1.32 1.47 1.47 1.47 1.47 1.57	222 -1127 184 430 15 33 10 42 32 14 18 19 72 25 -11 2 117 0.98 1.11 1.14 1.39 1.43 1.73 1.70 1.90 1.87 1.87 1.88	270 199 -1436 864 49 37 25 112 91 40 53 34 153 22 513 3 1.16 1.12 0.95 1.29 1.29 1.29 1.44 1.85 1.44 1.87 1.86 1.62	123 423 797 -2218 100 55 5 22 32 10 8 11 3 200 -393 4 128 115 127 0.97 117 129 145 1.90 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2	17 16 51 108 -2478 1831 161 305 33 21 16 19 127 343 568 5 1.39 1.38 1.22 1.17 0.98 1.04 1.35 1.15 1.30 1.35	29 32 35 50 1832 -7198 1684 1540 345 122 24 55 320 65 -1065 6 1.49 1.42 1.39 1.29 1.04 0.98 1.04 1.08 1.02 1.08 1.02 1.08 1.02 1.08 1.08 1.08 1.08 1.08 1.08 1.08 1.08	8 9 20 167 1647 -2913 376 183 51 1 9 19 72 9 -339 7 1.57 1.70 1.81 1.30 1.35 1.04 0.97 1.02 1.16 1.21	31 40 102 312 1642 449 -3335 858 339 190 70 159 18 896 8 1.32 1.69 1.40 1.51 1.16 1.09 1.02 0.98 1.05 1.16	15 36 83 32 39 367 195 863 -3489 828 186 385 135 28 -297 9 1.46 1.79 1.95 1.95 1.95 1.95 1.95 1.97 1.95 1.9	7 15 35 9 20 116 46 326 816 -2191 39 542 103 15 -101 10 1.48 1.85 1.84 2.04 1.39 1.28 1.24 1.20 1.02 0.99 1.16 1.07	11 18 45 10 20 29 8 197 224 37 -778 141 81 14 58 11 124 1.88 1.54 2.01 1.22 1.20 1.17 1.08 1.18 0.96 1.10 1.11 1.18 0.96 1.10	23 21 32 11 18 57 20 81 384 505 174 -2605 1751 15 488 12 1.54 1.86 1.80 2.08 1.34 1.27 1.23 1.20 1.15 1.096	702 66 109 29 292 65 140 187 131 64 1705 13721 71 17392 13 1.17 1.61 1.33 1.58 1.36 1.34 1.33 1.31 1.21 1.25 1.25	17 32 26 196 339 118 10 24 23 15 12 469 1521 14 1.25 1.19 1.17 1.14 1.10 1.36 1.32 1.31 1.50 1.58	141 2 330 -314 559 -941 -226 726 -265 -71 29 434 17842 1304 19551 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0



Reference C	ase - 2044 ·	- UC1													
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3	995	1209	2204	543	199	139	34	295	123	97	125	69	2711	825	9568
4 5	1175 75	1544	500 204	8325 746	689 16810	731 9843	21 504	196 1527	61 364	13 189	27 182	24 116	1284 1369	1745 2385	16335 34412
6	97	159	141	749	10096	54898	6226	6740	2447	1198	545	314	4286	780	88875
7	20	20	36	21	538	5929	12951	3081	762	423	156	189	998	76	25200
8	186	109	338	206	1531	6608	3054	17962	4337	1813	752	603	4389	204	42091
9	54	50	112	58	337	2136	698	3751	16108	5839	511	966	4070	109	34799
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11	117	29	143	26	163	553	186	682	530	353	1916	406	1715	75	6894
12	81	33	66	23	118	516	200	598	1181	2047	400	5432	8308	49	19051
13	7699	1657	3671	1874	1686	5462	1301	5681	4311	4356	2533	9345	8091075	9671	8150323
14	571	753	1397	2320	4081	1308	113	341	189	81	143	93	10100	754659	776149
Total	24810	16102	11035	17564	36619	89625	25765	42745	36130	33353	7705	19533	8141429	771512	9273926
DS - 2044 - U	101														
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3	1072	1275	1652	568	215	164	44	352	161	124	153	90	3071	886	9828
4	1418	1699	540	6932	781	890	25	243	89	18	40	36	1610	1976	16297
5	92	116	225	841	15717	10121	603	1728	422	225	209	133	1581	2653	34666
6	127	200	174	947	11160	49971	6080	7400	3043	1480	729	627	5269	1017	88226
7	28	27	51	26	691	5865	11899	3132	947	548	213	236	1243	100	25007
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13	107 8754	2045	4456	2427	1974	590 6535	1577	6702	1259 5113	2150 5170	410 2963	4391 10584	8102975	63 11922	8173196
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Difference															
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1126 196 76 243 17 31 8 42 15 6 19 25 1054 119 725	186 -1070 66 156 16 40 7 41 20 10 13 13 387 74 -39	100 145 -552 41 22 34 15 103 42 34 44 22 786 237 1070	211 157 25 -1394 95 198 5 3 26 5 11 10 553 297 252	14 16 16 92 -1092 1063 152 230 50 41 18 16 288 538 1446	26 34 25 159 279 -4927 -64 289 419 297 77 75 1073 343 -1897	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607	27 30 57 47 201 660 52 -2179 226 326 47 80 1021 91 685	15 23 38 28 58 597 185 188 -1978 -349 -40 78 802 66 -289	6 12 27 5 36 283 125 307 -332 -1970 36 104 814 27 -523	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577	24 15 20 12 17 13 48 130 198 258 22 -1041 1238 37 1092	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049	51 66 62 230 268 237 23 50 34 17 20 -2821 501	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1126 196 76 243 17 31 8 42 15 6 19 25 1014 119 725	186 -1070 66 156 16 40 7 41 20 10 13 13 387 74 -39	100 145 -552 41 22 34 15 103 42 23 786 237 1070	211 157 25 -1394 95 198 5 326 5 11 10 533 297 252	14 16 16 92 -1092 1063 152 230 50 41 18 16 288 538 1446	26 34 26 159 279 -4927 -64 289 419 297 77 75 1073 343 -1897	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607	27 30 57 47 201 660 52 -2179 226 326 47 80 1021 91 685	15 23 38 28 58 597 185 188 -1978 -349 -40 78 802 -289	6 12 27 5 36 283 125 307 36 104 814 27 -523	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577	24 15 20 12 17 13 48 130 198 258 22 -1041 1238 3 1092	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049	51 66 62 230 268 237 23 50 34 17 20 14 2250 -2821 501	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.00 1.01
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fact	-1126 196 76 243 17 31 8 42 15 6 19 25 1004 1119 725 tor 1 0.91 1.15 1.08 1.21	186 -1070 66 156 16 40 7 41 20 10 13 13 387 74 -39	100 145 -552 41 22 34 15 103 42 23 44 22 786 237 1070	211 157 25 -1394 95 198 5 5 3 26 5 11 10 553 297 252 4 118 1.10 1.05 0.83	14 16 16 92 -1092 1065 152 230 41 18 288 538 1446 5 120 1.16 1.08	26 34 26 159 -4927 -64 289 419 297 77 75 1073 343 -1897	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607	27 30 57 47 201 660 52 -2179 226 47 80 1021 91 685	15 23 38 28 58 597 185 188 -1978 -349 -40 78 802 66 -289	6 12 27 5 36 283 125 307 -332 -1970 36 104 814 27 -523	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577	24 15 20 12 17 113 48 130 198 258 22 -1041 1238 37 1092 1.30 1.43 1.29 1.52 1.15 1.22	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049	51 66 62 230 268 237 23 50 34 17 20 14 2250 -2821 501 14 1.16 1.16 1.07 1.13	125 -80 260 -38 253 -649 -193 36 -135 -187 89 22 22873 1457 24043 Total 1.01 0.99 1.03 1.00 1.01 0.99
1 2 3 4 5 6 6 7	-1126 196 76 243 17 31 8 42 15 6 19 25 1001 119 725 tor 1 0.91 1.15 1.08 1.21 1.22 1.32 1.33	186 -1070 -66 -156 -16 -40 -7 -41 -20 -10 -13 -13 -39 -2 -114 -39 -2 -114 -38 -39 -105 -110 -116 -125 -136	100 145 -552 41 22 34 15 103 42 34 44 22 786 237 1070	211 157 25 -1394 95 198 5 5 5 11 10 553 26 5 11 10 10 10 10 10 10 10 10 10	14 16 16 92 -1092 1063 152 230 50 41 18 16 288 538 1446	26 34 26 159 279 -4927 -64 289 419 297 77 75 1073 343 -1897	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607	27 30 57 47 201 660 52 -2179 226 326 47 80 1021 91 685	15 23 38 28 58 597 185 188 -1978 -349 -40 78 802 66 -289	6 12 27 5 36 283 125 307 -332 -1970 36 104 814 27 -523	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577	24 15 20 12 17 13 48 130 198 258 22 -1041 1238 37 1092 1.30 1.43 1.29 1.52 1.15 1.22	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049	51 66 62 230 268 237 23 50 34 4 2250 -2821 501 14 1.16 1.12 1.07 1.13 1.11 1.30	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.00 1.00 1.099 0.99
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total	-1126 196 76 243 17 31 8 42 13 6 19 25 1014 119 725 107 1 108 1 21 1 108 1 21 1 22 1 38 1 21 1 22 1 31 1 31 1 42 1 5 1 5 1 6 1 9 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	186 -1070 66 156 16 40 7 41 20 10 13 13 387 74 -39	100 145 -552 41 22 34 15 103 42 23 786 237 1070 3 1.11 1.12 0.75 1.08 1.11 1.24 1.42	211 157 25 -1394 95 198 5 5 11 10 255 11 10 257 252 4 118 110 1.05 0.83 1.13 1.26 1.23 1.26	14 16 16 92 -1092 1063 152 230 50 41 18 16 288 138 1446 5 1.20 1.16 1.08 1.13 0.94 1.11 1.28 1.15	26 34 26 179 -4927 -64 289 419 297 77 75 1073 343 -1897 6 127 122 1.19 1.22 1.03 0.91 0.99 1.04	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607 7 1.31 1.30 1.32 1.19 1.20 0.92 0.96	27 30 57 47 201 660 52 -2179 226 47 80 1021 91 685	15 23 38 28 58 397 185 188 -1978 -40 78 802 66 -289 9 125 141 131 147 1.16 124 1.24	6 12 27 5 36 283 125 307 36 104 814 27 -523 10 1.24 1.38 1.28 1.38 1.19 1.24 1.24 1.25	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577	24 15 20 12 17 113 48 130 198 22 -1041 1238 37 1092 143 1.29 1.52 1.15 1.22 1.25	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049	51 66 62 230 268 237 23 50 34 17 20 14 2250 -2821 501 14 1.12 1.07 1.13 1.11 1.30 1.31	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.000 1.01 0.99 1.00
1 2 3 4 5 6 6 7 8 9 100 111 12 13 14 Total Growth Fact	-1126 196 76 243 17 31 8 42 15 6 19 25 1004 119 725 1007 115 1.021 1.22 1.32	186 -1070 66 156 16 40 7 41 20 10 13 387 74 -39 2 114 0.88 105 116 125 136 138 141	100 145 -552 41 122 34 15 103 34 44 44 237 1070 3 1.11 1.12 0.75 1.08 1.11 1.24 1.42 1.30 1.37	211 137 219 219 219 219 226 311 100 353 2297 252 4 1.18 1.10 1.05 1.08 1.13 1.26 1.	14 16 16 92 -1092 1065 152 230 41 18 288 538 1446 5 1.20 1.16 1.09 1.11 1.22 1.13 0.94 1.11	26 34 25 159 279 -4927 -64 289 419 297 77 75 1073 343 -1897 6 1.27 1.22 1.03 0.91 0.99 1.04 1.20	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607 7 1.31 1.30 1.32 1.19 1.20 0.98 0.98	27 30 57 47 201 660 52 -2179 226 326 47 80 1021 91 685	15 23 38 28 58 597 185 185 1978 -349 -40 78 802 66 -289 9 125 1.41 1.31 1.47 1.16 1.24 1.04 0.88	6 12 27 5 36 283 125 307 -332 -1970 36 104 814 27 -523 10 1.24 1.38 1.28 1.19 1.24 1.28 1.19 1.24 1.29	10 11 29 13 27 184 57 102 14 57 -421 10 34 577 11 1.11 1.42 1.23 1.47 1.15 1.34 1.34 1.37	24 15 20 12 17 113 48 130 198 258 22 -1041 1238 37 1092 12 1.30 1.43 1.29 1.52 1.15 1.22 1.25	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049 13 1.10 1.21 1.13 1.23 1.16 1.23 1.19	51 66 62 230 268 237 23 50 34 17 20 -2821 501 14 2250 -2821 501 11 1.16 1.12 1.07 1.13 1.11 1.30 1.31 1.25 1.31	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.00 1.01 0.99 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 2 13 14 Total Growth Fact	-1126 196 76 243 17 31 8 42 15 6 19 25 1054 119 725 tor 1 0.91 1.15 1.08 1.21 1.22 1.32 1.38 1.22 1.32 1.38 1.22 1.32 1.33 1.34 1.35 1.3	186 -1070 66 156 40 7 41 20 10 13 387 74 -39 2 114 0.88 1.05 1.10 1.16 1.25 1.36 1.38 1.41 1.37	100 145 -552 41 122 34 15 103 42 24 27 786 237 1070 3 1.11 1.12 0.73 1.08 1.11 1.12 1.24 1.42 1.37	211 157 25 -1394 95 198 5 5 3 11 100 105 287 252 4 118 110 105 108 113 126 123 126 124 139	14 16 16 92 -1092 1065 152 230 50 41 18 18 16 288 338 1446 5 1.20 1.16 1.08 1.13 0.94 1.11 1.28 1.15 1.21	26 34 26 159 279 -4927 -64 289 419 297 77 77 77 77 1073 343 -1897 6 1.27 1.22 1.19 1.22 1.03 0.91 0.99 1.04 1.05	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607 7 1.31 1.30 1.32 1.19 1.20 0.98 0.92 0.92	27 30 57 47 201 660 52 -2179 226 47 80 1021 91 685 8 1.16 1.31 1.19 1.24 1.13 1.10 1.02 0.88 1.06 1.20	15 23 38 28 58 597 185 185 -1978 -349 -40 78 802 66 -289 125 1.41 1.31 1.47 1.16 1.24 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.0	6 12 27 5 36 283 125 307 -332 -1970 36 104 814 27 -523 10 1.24 1.38 1.28 1.28 1.19 1.24 1.29 1.17 0.94 0.88	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577 11 111 1.42 1.23 1.47 1.15 1.34 1.37 1.19	24 15 20 12 17 113 48 130 198 258 22 -1041 1238 37 1092 1.30 1.43 1.29 1.15 1.22 1.25 1.25 1.22	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049 13 1.10 1.21 1.13 1.25 1.16 1.23 1.23 1.25	51 66 62 230 268 237 23 50 34 17 20 -2821 501 14 1.16 1.12 1.07 1.11 1.30 1.31 1.25 1.31	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.00 0.99 1.00 1.00 0.99
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-1126 196 76 243 17 31 8 42 15 6 19 25 1054 119 725 tor 1 0.91 1.15 1.08 1.21 1.22 1.32 1.38 1.22 1.32 1.38 1.22 1.32 1.33 1.22 1.32 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.32 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.32 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.32 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.33 1.22 1.32 1.33 1.24 1.25 1.2	186 -1070 66 156 16 40 7 41 20 10 13 13 13 387 74 -39 2 114 0.88 1.05 1.10 1.16 1.25 1.36 1.38 1.41 1.37 1.43	100 145 -552 41 122 34 15 103 42 34 44 22 786 237 1070 3 1.11 1.12 0.75 1.08 1.11 1.12 1.24 1.30 1.37 1.36 1.31	211 157 25 -1394 95 198 5 5 32 26 5 11 10 105 297 252 4 1.18 1.10 1.05 0.83 1.13 1.26 1.23 1.26 1.44 1.39 1.41	14 16 16 92 -1092 1065 152 230 50 41 18 16 288 1446 5 1.20 1.16 1.08 1.13 0.94 1.11 1.28 1.15 1.15	26 34 26 159 279 -4927 -64 289 419 297 77 75 1073 343 -1897 6 1.27 1.22 1.19 1.22 1.03 0.91 0.99 1.04 1.24 1.14	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607 7 1.31 1.30 1.32 1.19 1.20 0.98 0.92 0.96 1.18 1.27 1.13	27 30 57 47 201 660 52 -2179 226 326 47 80 1021 91 685 8 1.16 1.31 1.19 1.24 1.13 1.10 1.02 0.88 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	15 23 38 28 58 597 185 188 -1978 -349 -40 78 802 66 -289 9 125 141 131 147 116 124 124 104 0.94 0.92	6 12 27 5 36 283 125 307 -332 -1970 36 104 27 -523 10 1.24 1.38 1.28 1.38 1.28 1.19 1.24 1.29 1.17 0.88 1.10	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577 11 1.11 1.42 1.23 1.47 1.15 1.34 1.37 1.14 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	24 15 20 12 17 13 48 130 198 258 22 -1041 1238 37 1092 1.30 1.43 1.29 1.52 1.15 1.22 1.25 1.22 1.20 1.16	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049 13 1.10 1.21 1.13 1.25 1.16 1.23 1.25 1.19 1.25	51 66 62 230 268 237 23 50 34 4 2250 -2821 501 14 1.16 1.12 1.07 1.13 1.11 1.30 1.31 1.25 1.31	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.00 1.001 0.99 0.99 1.00 0.99
1 2 3 4 5 6 6 7 7 8 9 10 11 2 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-1126 196 76 243 17 31 8 42 15 6 19 25 109 119 725 109 119 725 109 119 119 119 119 119 119 119	186 -1070 -66 156 -16 40 -7 41 20 10 13 13 387 -74 -39 2 114 0.88 1.05 1.10 1.16 1.25 1.36 1.38 1.41 1.37 1.43 1.39	100 145 -552 41 12 22 34 15 103 42 23 786 237 1070 3 1.11 1.12 0.75 1.08 1.11 1.24 1.42 1.30 1.37	211 157 25 -1394 95 198 5 5 11 10 553 26 5 11 10 105 0.83 113 126 144 139 141 145	14 16 16 92 -1092 1063 152 230 50 41 18 16 288 1446 5 120 1.16 1.08 1.13 0.94 1.11 1.28 1.15 1.15 1.17 1.11 1.13	26 34 26 159 279 -4927 -64 289 419 297 77 75 1073 343 -1897 6 127 1.22 1.19 1.22 1.09 1.09 1.04 1.20 1.20 1.20 1.21 1.21 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.23 1.24 1.25 1.26 1.27 1.22 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.24 1.25 1.24 1	6 6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607 7 131 130 132 119 120 0.98 0.92 0.96 1.18 1.27	27 30 57 47 201 660 52 -2179 226 47 80 1021 91 685 8 1.16 1.31 1.19 1.24 1.13 1.10 0.88 1.06 1.20 1.02 1.02 1.02 1.02 1.02 1.02 1.02	15 23 38 28 58 597 185 188 -1978 -349 -40 78 802 66 -289 9 125 141 131 147 116 124 104 0.88 0.94 0.94	6 12 27 5 36 283 125 307 -332 -1970 36 104 814 27 -523 10 1.24 1.38 1.28 1.38 1.28 1.38 1.29 1.24 1.24 1.29 1.17 0.94 0.94 0.94 0.94 0.94 0.94 0.94 0.94	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577 11 111 142 123 147 115 134 137 114 103	24 15 20 12 17 13 48 130 198 258 22 -1041 1238 7 1092 1,30 1,43 1,29 1,52 1,15 1,22 1,25 1,25 1,25 1,25 1,25	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049 13 1.10 1.21 1.13 1.25 1.16 1.25 1.19 1.25 1.19	51 66 62 230 268 237 23 50 34 4 2250 -2821 501 14 1.16 1.12 1.07 1.13 1.11 1.30 1.31 1.25 1.31 1.25 1.31	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.00 1.01 0.99 1.00 0.99 1.00 1.01 1.01
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total	-1126 196 76 243 17 31 8 42 15 6 19 25 1004 119 725 1007 1 1.15 1.08 1.21 1.22 1.3	186 -1070 66 156 16 40 7 41 20 10 13 387 74 -39 2 114 0.88 105 110 116 125 136 138 141 137 143 139 123	100 145 -552 41 122 34 15 103 34 44 44 237 1070 3 1.11 1.12 0.75 1.08 1.11 1.24 1.42 1.30 1.37 1.36 1.31	211 137 239 95 198 5 53 26 5 11 10 553 297 252 4 1.18 1.10 1.05 1.08 1.13 1.26 1.	14 16 16 92 1065 152 230 41 18 50 41 18 538 1446 5 1.20 1.16 1.09 1.11 1.22 1.13 1.15 1.15 1.15 1.15	26 34 25 159 279 -4927 -64 289 419 297 77 75 1073 343 -1897 6 1.27 1.22 1.03 0.91 0.99 1.04 1.20 1.24 1.14 1.20	6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607 7 1.31 1.30 1.32 1.19 1.20 0.98 0.92 1.18 1.27 1.13 1.13	27 30 57 47 201 660 52 -2179 226 326 47 80 1021 91 685 8 1.16 1.31 1.19 1.24 1.13 1.10 1.02 0.88 1.06 1.20	15 23 38 28 58 597 185 185 1978 -349 -40 78 802 66 -289 9 125 1.41 1.31 1.47 1.16 1.24 1.24 1.04 0.88 0.94 0.94	6 12 27 5 36 283 125 307 -332 -1970 36 104 814 27 -523 10 1.24 1.38 1.28 1.28 1.19 1.24 1.28 1.19 1.24 1.28 1.19 1.24 1.24 1.28 1.19 1.24 1.24 1.24 1.24 1.24 1.24 1.24 1.24	10 11 29 13 27 184 57 102 14 57 -421 10 34 577 11 1.11 1.42 1.23 1.47 1.15 1.34 1.37 1.14 1.03 1.19 0.78	24 15 20 12 17 113 48 130 198 258 22 -1041 1238 37 1092 12 1.30 1.43 1.29 1.52 1.15 1.22 1.25 1.22 1.25 1.25 1.25	374 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049 1.10 1.21 1.13 1.25 1.16 1.23 1.25 1.19 1.25 1.19	51 66 62 230 268 237 23 50 34 17 20 -2821 501 14 2250 -2821 501 11 1.16 1.12 1.07 1.13 1.11 1.30 1.31 1.25 1.31 1.26 1.31 1.26 1.31 1.26 1.31 1.26 1.31 1.31 1.30 1.31 1.31 1.31 1.31 1.31	125 -80 260 -38 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.00 0.99 1.00 0.99 1.00 1.001 1.001 1.00
1 2 3 4 5 6 6 7 7 8 9 10 11 2 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-1126 196 76 243 17 31 8 42 15 6 19 25 109 119 725 109 119 725 109 119 119 119 119 119 119 119	186 -1070 -66 156 -16 40 -7 41 20 10 13 13 387 -74 -39 2 114 0.88 1.05 1.10 1.16 1.25 1.36 1.38 1.41 1.37 1.43 1.39	100 145 -552 41 12 22 34 15 103 42 23 786 237 1070 3 1.11 1.12 0.75 1.08 1.11 1.24 1.42 1.30 1.37	211 157 25 -1394 95 198 5 5 11 10 553 26 5 11 10 105 0.83 113 126 144 139 141 145	14 16 16 92 -1092 1063 152 230 50 41 18 16 288 1446 5 120 1.16 1.08 1.13 0.94 1.11 1.28 1.15 1.15 1.17 1.11 1.13	26 34 26 159 279 -4927 -64 289 419 297 77 75 1073 343 -1897 6 127 1.22 1.19 1.22 1.09 1.09 1.04 1.20 1.20 1.20 1.21 1.21 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.23 1.24 1.25 1.26 1.27 1.22 1.22 1.09 1.22 1.09 1.22 1.09 1.22 1.09 1.24 1.25 1.24 1	6 6 6 11 4 99 -146 -1052 -135 124 117 23 30 276 31 -607 7 131 130 132 119 120 0.98 0.92 0.96 1.18 1.27	27 30 57 47 201 660 52 -2179 226 47 80 1021 91 685 8 1.16 1.31 1.19 1.24 1.13 1.10 0.88 1.06 1.20 1.02 1.02 1.02 1.02 1.02 1.02 1.02	15 23 38 28 58 597 185 188 -1978 -349 -40 78 802 66 -289 9 125 141 131 147 116 124 104 0.88 0.94 0.94	6 12 27 5 36 283 125 307 -332 -1970 36 104 814 27 -523 10 1.24 1.38 1.28 1.38 1.28 1.38 1.29 1.24 1.24 1.29 1.17 0.94 0.94 0.94 0.94 0.94 0.94 0.94 0.94	10 11 29 13 27 184 57 102 14 57 -421 10 430 54 577 11 111 142 123 147 115 134 137 114 103	24 15 20 12 17 13 48 130 198 258 22 -1041 1238 7 1092 1,30 1,43 1,29 1,52 1,15 1,22 1,25 1,25 1,25 1,25 1,25	574 279 360 326 213 983 245 816 1007 963 221 797 11900 2365 21049 13 1.10 1.21 1.13 1.25 1.16 1.25 1.19 1.25 1.19	51 66 62 230 268 237 23 50 34 4 2250 -2821 501 14 1.16 1.12 1.07 1.13 1.11 1.30 1.31 1.25 1.31 1.25 1.31	125 -80 260 -38 253 -649 -193 36 -135 -187 89 232 22873 1457 24043 Total 1.01 0.99 1.03 1.00 1.01 0.99 1.00 0.99 1.00 1.01 1.01



Reference (Case - 2044	-1102													
nererence c	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
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2	2437 2245	96286	2535 24487	5464 6802	45 530	52 126	9 44	44 360	20 52	11 32	5 21	17 14	173 360	254 116	107353
4	754	2535 5464	6802	70439	1037	126	11	350	9	11	21	3	122	1360	37724 86219
5	22	45	530	1037	118756	51963	1028	2995	253	88	39	37	176	2518	179488
6	34	52	126	150	51963	440268	36334	24376	2298	803	137	157	442	88	557228
7	7	9	44	11	1028	36334	125776	26329	2102	444	53	65	111	7	192320
8	72	44	360	55	2995	24376	26329	174550	25974	3206	1736	699	392	21	260808
9 10	16 19	20 11	52 32	9 11	253 88	2298 803	2102 444	25974 3206	140211 43880	43880 165588	5033 494	4131 7541	365 445	13 2	224357 222563
11	22		21	2	39	137	53	1736	5033	494	15485	2494	589	3	26113
12	41	17	14	3	37	157	65	699	4131	7541	2494	44628	8699	9	68537
13	7146	173	360	122	176	442	111	392	365	445	589		27761924	665	27781610
14	30	254	116	1360	2518	88	7	21	13	2	3	9	665	2771556	2776642
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DS - 2044 - I	UCZ														
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2	3086	93750	2878	6772	62	82	18	83	47	25	11	39	270	312	107433
3 4	2701 1097	2878 6772	21365 8596	8596 66342	605 1260	171 217	70 15	480 93	100 21	58 26	39 6	27 6	508 213	144 1599	37742 86264
5	34	62	605	1260	113550	55425	1435	3556	335	124	48	50	248	2862	179593
6	61	82	171	217	55425	431576	38240	26656	2857	1033	171	200	652	133	557475
7	14	18	70	15	1435	38240	121915	27213	2546	563	65	83	159	11	192348
8	101	83	480	93	3556	26656	27213	167411	27857	3896	2054	885	559	31	260875
9 10	27 31	47 25	100 58	21 26	335 124	2857 1033	2546 563	27857 3896	134844 44978	44978 162342	5464 600	4889 8411	519 634	23 4	224507 222726
11	27	11	39	6	48	171	65	2054	3464	600	14020	2830	778	6	26121
12	80	39	27	6	50	200	83	885	4889	8411	2830	40845	10234	17	68597
13	8192	270	508	213	248	652	159	559	519	634	778	10234	7881198	1090	27905254
14	44	312	144	1599	2862	133	11	31	23	4	6	17	1090	2773863	2780138
Total	104885	107433	37742	86264	179593	557475	192348	260875	224507	222726	26121	68597 2	7905254	2780138	32753959
Difference															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-2515	649	456	343	12	27	6	29	11	13	6	39	1046	14	135
2	649 456	-2536 343	343 -3122	1308 1793	17 75	30 45	9 26	38 120	26 48	14 26	6 18	13	97 148	58 28	80 17
4	343	1308	1793	-4097	224	66	4	38	12	16	4	4	91	239	45
5	12	17	75	224	-5205	3461	406	561	81	36	9	13	71	344	105
6	27	30	45	66	3461	-8692	1906	2281	559	231	34	43	209	46	247
7	6	9	26	4	406	1906	-3861	885	444	119	13	17	48	4	28
8	29	38	120	38	561	2281	885	-7139	1883	690	318	187	167	10	67
9 10	11 13	26 14	48 26	12 16	81 36	559 231	119	1883 690	-5367 1098	1098 -3245	431 106	758 869	154 189	10 2	150 163
11	6	6	18	4	9	34	13	318	431	106	-1465	336	190	3	8
12	39	22	13	4	13	43	17	187	758	869	336	-3784	1535	8	60
13	1046	97	148	91	71	209	48	167	154	189	190	1535	119274	425	123644
14 Total	135	58 80	28 17	239 45	344 105	46 247	28	10 67	10 150	163	3 8	60	425 123644	2306 3496	3496 128246
Total	133	00		43	103	24/	20	67	150	103	•	60	123044	3470	120240
Growth Fac	tor														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	0.97	1.27	1.20	1.45	1.57	1.78	1.82	1.41	1.72	1.68	1.26	1.93	1.15	1.47	1.00
2	1.27	0.97 1.14	1.14 0.87	1.24	1.37	1.57	1.94	1.86	1.93	1.82	2.37 1.84	1.94	1.56	1.23	1.00
4	1.45	1.24	1.26	0.94	1.22	1.44	1.40	1.69	2.32	2.47	2.53	2.52	1.74	1.18	1.00
5	1.57	1.37	1.14	1.22	0.96	1.07	1.40	1.19	1.32	1.40	1.23	1.35	1.41	1.14	1.00
6	1.78	1.57	1.36	1.44	1.07	0.98	1.05	1.09	1.24	1.29	1.24	1.28	1.47	1.52	1.00
7	1.82	1.94	1.60	1.40	1.40	1.05	0.97	1.03	1.21	1.27	1.24	1.26	1.43	1.57	1.00
8	1.41	1.86	1.33	1.69	1.19	1.09	1.03	0.96	1.07	1.22	1.18	1.27	1.42	1.50	1.00
10	1.72	2.29	1.93	2.32	1.32	1.24	1.21	1.07	0.96 1.03	0.98	1.09	1.18	1.42	1.73	1.00
11	1.26	2.37	1.84	2.52	1.23	1.24	1.24	1.18	1.09	1.22	0.91	1.13	1.32	1.86	1.00
12	1.93	2.24	1.94	2.52	1.35	1.28	1.26	1.27	1.18	1.12	1.13	0.92	1.18	1.82	1.00
13	1.15	1.56	1.41	1.74	1.41	1.47	1.43	1.42	1.42	1.42	1.32	1.18	1.00	1.64	1.00
14 Total	1.47	1.23	1.24	1.18	1.14	1.52	1.57	1.50	1.73	1.95	1.86	1.82	1.64	1.00	1.00
		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00



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3	1748	1854	31169	3172	252	99	27	273	113	45	91	42	361	162	39408
4 5	574 47	3267 42	3238 239	77664 648	690 131536	189 47412	18 525	42 2227	36 146	10 56	11 79	11 59	54 347	1552 3907	87356 187271
6	69	84	101	214	45636	485231	42207	19320	1854	468	147	235	988	377	596931
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8	113	67	277	54	2234	20396	23956	152084	18171	1808	1296	444	512	87	221499
9 10	38 18	39 17	115 51	39 10	121 59	1787 486	1262 238	17876 1823	144068 43888	42511 165267	3139 222	2890 7188	1005 565	53 30	214943 219862
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13	5497	135	477	79	417	1141	266	614	564	415	360		43649766	673	43675163
14 Total	103385	143 81385	127 39605	1826 87352	5354 187023	210 599229	183453	219289	216542	32 219849	25 29182	26	173	3896075 3903252	3904191 49644139
Total	105565	01303	39803	0/352	10/025	333223	103455	219209	210542	217047	29102	33/24	+30/40/1	3903252	42044133
DS - 2044 - I															
_ F	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1 2	90404 1983	2019 71607	2532 2379	830 4149	97 83	145 162	33 33	187 150	72 114	31 46	79 55	99 68	6306 267	121 267	102955 81364
3	2435	2351	27903	4871	389	198	71	493	272	111	177	101	637	236	40246
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5	99	79	371	915	125382	52537	882	2974	225	97	119	97	605	4857	189237
6 7	155 39	166 37	205 87	362 30	51032 862	466860 44774	45250 108282	23031 24518	2723 1776	725 323	219 65	373 150	1749 403	702 64	593551 181409
8	202	158	517	104	2990	23821	25146	143954	20570	2593	1785	645	881	150	223516
9	75	102	293	103	189	2597	1767	20310	135538	44275	3736	3956	1495	108	214544
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11	92	55	192	24	91	185	80	1750	3541	367	20329	2239 65689	462	48	29455
12	104 7852	60 297	104 853	34 166	102 713	359 1958	146 461	564 1029	4319 923	10340 706	1852 589		20628 43680028	59 1185	104361 43716267
14	75	210	189	2404	6308	397	56	105	127	66	52	57		3896868	3907259
Total	104511	81541	40831	85930	189319	595073	182599	221806	216140	218634	29419	101792 4	43714859	3906859	49689313
Difference															
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1 2	-3333 603	606 -2656	739 529	340 1033	50 38	79 79	19 19	82 86	35 69	15 28	28 34	54 41	1876 150	50 87	640 141
1	-3333	606	739	340	50	79	19	82	35	15	28	54	1876	50	640
1 2 3	-3333 603 687	606 -2656 497	739 529 -3266	340 1033 1699	50 38 138	79 79 99	19 19 44	82 86 220	35 69 159	15 28 66	28 34 86	54 41 59	1876 150 276	50 87 74	640 141 838
1 2 3 4 5	-3333 603 687 388 51 86	606 -2656 497 1090 37 82	739 529 -3266 1841 132 104	340 1033 1699 -5756 267 148	50 38 138 289 -6154 5396	79 79 99 134 5125	19 19 44 11 357 3043	82 86 220 44 747 3711	35 69 159 63 79 868	15 28 66 18 40 257	28 34 86 20 40 72	54 41 59 22 38 137	1876 150 276 66 258 761	50 87 74 577 950 325	640 141 838 -1192 1967 -3380
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1 2 3 4 5 6	-3333 603 687 388 51 86 22	606 -2656 497 1090 37 82 22	739 529 -3266 1841 132 104 54	340 1033 1699 -5756 267 148	50 38 138 289 -6154 5396 352	79 79 99 134 5125 -18371 3002	19 19 44 11 357 3043 -6457	82 86 220 44 747 3711 1380	35 69 159 63 79 868 530	15 28 66 18 40 257 112	28 34 86 20 40 72 21	54 41 59 22 38 137 52 202	1876 150 276 66 258 761 179	50 87 74 577 950 325 28	640 141 838 -1192 1967 -3380 -692
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1 2 3 4 5 6 7 8 9 10 11 12	-3333 603 687 388 51 86 22 89 36 18 34	606 -2656 497 1090 37 82 22 91 63 27 33	739 529 -3266 1841 132 104 54 241 178 77 99 61	340 1033 1699 -5756 267 148 12 30 64 19 15	50 38 138 289 -6154 5396 352 755 68 43 32 38	79 79 99 134 5125 -18371 3002 3425 810 270 62 126	19 19 44 11 357 3043 -6457 1189 505 125 24	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415	35 69 159 63 79 868 530 2400 -8530 1953 495	15 28 66 18 40 257 112 785 1764 -6341 111	28 34 86 20 40 72 21 489 597 110 -1893 378	54 41 59 22 38 137 52 202 1066 1588 473	1876 150 276 66 258 761 179 368 490 368 188	50 87 74 577 950 325 28 63 55 35 25	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177
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1 2 3 4 5 6 7 8 9 10 11 12 13	-3333 603 687 388 51 86 22 89 36 18 34 58 2335 33 1126	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62	340 1033 1699 -5756 267 148 12 50 64 19 15 22 87 578 -1421	30 38 138 289 -6154 3396 352 755 68 43 32 38 296 954 2296	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155	19 19 44 41 11 357 3043 -6457 1189 505 125 24 48 194 24 -854	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517	35 69 159 63 79 868 530 2400 -830 1953 495 1055 339 63 -402	13 28 66 18 40 237 112 783 1764 -6341 111 1604 290 33	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068	1876 150 276 66 258 761 179 368 490 368 188 4577 30262 170 39987	50 87 74 577 950 325 28 63 55 35 32 32 512 793 3607	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3333 603 687 388 51 86 22 89 36 18 34 58 2353 31 1126	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62	340 1033 1699 -5756 267 148 12 50 64 19 15 22 87	50 38 138 289 -6154 5396 352 755 68 43 32 38 296	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187	19 19 44 11 357 3043 -6457 1189 505 125 24 48 194 24	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415	35 69 159 63 79 868 530 2400 -8530 1953 495 1055 359 63	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35	28 34 86 20 40 72 21 489 597 110 -1893 378 229	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749	1876 150 276 66 258 761 179 368 490 368 188 4577 30262 170	50 87 74 577 950 325 28 63 55 35 25 32 512 793	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3333 603 687 388 51 86 22 89 36 18 34 58 235 33 1126	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67	739 529 -3266 1841 132 104 54 241 177 99 61 376 62 1226	340 1033 1699 -5756 267 148 12 50 64 19 15 22 27 578 -1421	50 38 138 289 -6154 5396 352 755 68 43 32 38 296 954 2296	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155	19 19 44 41 11 357 3043 -6457 1189 5003 125 24 48 194 24 -854	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517	35 69 199 63 79 868 530 2400 -8530 1953 495 1055 339 63 -402	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35 -1215	28 34 86 20 72 21 489 597 110 -1893 378 229 27 237	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068	1876 150 276 66 238 761 179 368 490 368 188 4577 30262 170 39987	50 87 74 577 950 325 28 63 55 55 25 32 51 27 93 3607	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3333 603 687 388 511 86 22 89 36 18 34 58 2353 31126	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157	739 529 -3266 1841 132 104 54 241 177 99 61 376 62 1226	340 1033 1699 -5756 267 148 12 50 64 19 13 22 22 578 -1421	50 38 138 289 -6154 5396 352 755 68 43 32 38 296 55 2.07 1.83 1.55	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155	19 19 44 41 11 357 3043 -6457 1189 505 125 24 48 194 24 -854	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 45 2517	35 69 159 63 79 868 530 2400 -8530 1953 495 1055 359 63 402	13 28 66 18 40 257 112 785 1764 -6344 111 1604 290 35 -1215	28 34 86 20 40 72 21 489 51 110 -1893 378 229 27 237	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068	1876 150 276 66 238 761 179 368 490 368 188 4577 30262 170 39987	50 87 74 577 950 325 28 63 55 32 512 793 3607 1.49 1.49	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 1762 41104 3068 45174
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac	-3333 603 687 388 511 86 22 89 36 18 34 58 2335 33 1126 tor 1	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157 2 143 0.96 127 1.33	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62 1226 3 1.41 1.29 0.90 1.57	340 1033 1699 -5756 267 148 12 50 64 19 15 22 22 22 27 778 -1421 4 1.69 1.33 1.54 0.93	50 38 138 289 -6154 5396 322 755 68 43 32 38 296 954 2296 5 2.07 1.55 1.55	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71	19 19 44 411 357 3043 -6457 1189 5003 125 24 48 194 24 -854	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 1415 46 2517 8 1.79 2.36 1.81 1.81	35 69 159 63 79 868 530 2400 -8530 1953 495 1055 339 63 -402	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35 -1215	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 154 2.56	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068	1876 150 276 66 66 258 761 179 368 490 368 188 4577 30262 170 39987	50 87 74 577 950 325 28 63 55 35 22 512 793 3607 14 1.70 1.49 1.46 1.37	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174 Total 1.01 1.00 1.002 0.99
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total 5 Growth Fac	-3333 603 687 388 51 86 22 89 36 18 34 34 2355 33 1126 tor 1 0.96 1.44 1.36 1.67 2.08	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157 2 1.43 0.96 1.27 1.33 1.87	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62 1226	340 1033 1699 -5756 267 148 12 50 64 19 15 22 87 578 -1421 4 1.69 1.33 1.54 0.93 1.41	50 38 138 289 -6154 5396 322 753 68 84 32 32 32 296 954 2296 5 2.07 1.83 1.42 0.95	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71	19 19 44 41 11 357 3043 -6457 1189 5005 125 24 48 194 -854 7 2.28 2.39 2.64 1.68	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517 8 1.79 2.36 1.81 2.06 1.34	35 69 159 63 79 868 5300 2400 -8530 1953 495 1055 359 63 -402 9 1.94 2.53 2.41 2.75	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35 -1215	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 154 2.55 1.94 2.76 1.51	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068	1876 150 276 66 258 761 179 368 490 368 188 4577 30262 170 39987	50 87 74 577 950 325 28 63 55 35 22 512 793 3607 14 1.70 1.49 1.46 1.37	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 4104 3068 45174 Total 1.00 1.00 0.099 1.01
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac	-3333 603 687 388 511 86 22 89 36 18 34 58 2335 33 1126 tor 1	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157 2 143 0.96 127 1.33	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62 1226 3 1.41 1.29 0.90 1.57	340 1033 1699 -5756 267 148 12 50 64 19 15 22 22 22 27 -778 -1421	50 38 138 289 -6154 5396 322 755 68 43 32 38 296 954 2296 5 2.07 1.55 1.55	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71	19 19 44 411 357 3043 -6457 1189 5003 125 24 48 194 24 -854	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 1415 46 2517 8 1.79 2.36 1.81 1.81	35 69 159 63 79 868 530 2400 -8530 1953 495 1055 339 63 -402	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35 -1215	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 154 2.56	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068	1876 150 276 66 66 258 761 179 368 490 368 188 4577 30262 170 39987	50 87 74 577 950 325 28 63 55 35 22 512 793 3607 14 1.70 1.49 1.46 1.37	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174 Total 1.01 1.00 1.002 0.99
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Srowth Fac	-3333 603 687 388 511 86 22 89 36 18 34 58 2355 31 1126 tor 1 0.96 1.44 1.39 1.67 2.08 2.24 2.77 1.78	606 -2556 497 1090 82 22 91 63 27 33 37 162 67 157 2 143 0.96 1.27 1.33 1.87 1.92 2.44 2.36	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62 1226 3 1.41 1.29 0.90 1.57 1.55 2.03 2.69 1.87	340 1033 1699 -5756 267 148 12 50 64 19 15 22 22 22 87 -778 -1421 4 1.69 1.33 1.54 0.93 1.41 1.64 1.93	50 38 138 289 -6154 5396 332 755 68 43 32 38 296 954 2296 5 2.07 1.85 1.55 1.42 0.95 1.14 1.69 1.34	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71 1.11 0.96 1.07 1.17	19 19 44 411 357 3043 -6457 1189 505 125 24 48 194 24 -854 7 2.28 2.39 2.64 1.68 1.07 0.94 1.05	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517 8 1.79 2.36 1.81 2.06 1.34 1.19	9 194 2.75 1.55 1.42 1.13	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35 -1215 10 1.99 2.52 2.45 2.83 1.72 1.53 1.43	28 34 86 20 40 72 21 489 397 110 -1893 378 229 27 237 11 154 2.56 1.51 1.49 1.49 1.38	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068 12 2.21 2.57 2.39 2.95 1.64 1.54	1876 150 276 66 6258 761 179 368 490 368 188 4577 30262 170 39987 1.42 2.27 1.76 2.22 1.74 1.77	50 87 74 577 950 325 28 63 55 35 22 512 793 3607 14 1.70 1.49 1.46 1.37 1.24 1.86 1.78	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 1762 41104 3068 45174 Total 1.01 1.00 1.02 0.99 1.01 0.99
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac Growth Fac	-3333 603 687 388 51 86 22 89 36 18 34 125 126 10.95 1.44 1.367 2.08 2.24 2.27 1.78 1.96	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157 2 1.43 0.96 1.27 1.33 1.87 1.98 2.44 2.96	739 529 -3266 1841 132 104 54 241 178 77 99 62 1226 3 1.41 1.29 0.90 1.57 1.55 2.03 2.69 1.87 2.54	340 1033 1699 -5756 267 148 12 50 64 19 15 22 22 87 -78 -1421 4 1.69 1.33 1.54 0.93 1.41 1.69 1.69 1.69	50 38 138 289 -6154 5396 322 755 68 84 32 296 954 2296 5 2.07 1.85 1.32 0.95 1.12 1.62 1.63 1.63 1.64 1.65	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71 1.11 0.96 1.07 1.17 1.45	19 19 44 41 11 357 3043 -6457 1189 5005 125 24 48 194 24 -854 7 2.28 2.39 2.64 1.68 1.07 0.93 1.07	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517 8 1.79 2.36 1.81 2.06 1.34 1.19 1.09 1.09 1.09 1.14	99 1.94 2.33 2.402 99 1.94 2.53 2.402 99 1.94 2.53 2.47 1.55 1.47 1.42 1.13 0.94	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35 -1215 10 1.99 2.52 2.43 1.72 1.55 1.72 1.55 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.72	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 154 2.55 1.94 1.49 1.49 1.49 1.49 1.38 1.19	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068 12 2.21 2.57 2.39 1.64 1.58 1.58	1876 150 276 66 258 761 179 368 188 4577 30262 170 39987 1.42 2.27 1.76 2.22 1.74 1.77 1.80 1.72 1.49	50 87 74 577 950 325 28 63 55 25 32 512 793 3607 14 1.70 1.49 1.46 1.86 1.86 1.73 2.05	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174 Total 1.01 1.00 1.02 0.99 1.01 0.99 1.01 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total 5 6 6 7 8 9 10 10 11 12 13 14 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-3333 603 687 388 51 86 22 89 36 18 34 18 2355 33 1126 tor 1 0.96 1.44 1.39 1.67 2.08 2.24 2.27 1.71 1.71 1.72 1.73 1.74 1.75	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157 2 1.43 0.96 1.27 1.33 1.87 1.98 2.44 2.39 2.44 2.59 2.59 2.57	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62 1226 3 1.41 1.29 0.90 1.57 1.53 2.03 2.69 1.87	340 1033 1699 -5756 267 148 12 50 64 19 15 22 87 -1421 4 1.69 1.33 1.54 0.93 1.41 1.69 1.54 1.69 1.54 1.69	50 38 138 289 -6154 5396 352 755 68 43 32 38 296 954 2296 5 2.07 1.85 1.55 1.12 1.69 1.37 1.73	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71 1.11 0.96 1.07 1.45 1.56	19 19 44 411 357 3043 -6457 1189 505 125 24 48 194 -854 7 2.28 2.39 2.64 1.68 1.07 0.94 1.07	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517 8 1.79 2.36 1.81 2.06 0.95 1.14	99 194 2.53 2.410 2.402 99 1.94 2.53 2.41 2.73 1.47 1.42 1.43 1.04	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 33 -1215 10 1.99 2.52 2.43 1.72 1.55 1.72 1.53 1.74	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 1.54 2.55 1.94 2.75 1.149 1.49 1.49 1.49 1.49	54 41 59 22 38 137 52 202 202 1066 1588 473 -6446 4749 31 2068 12 2.21 2.57 2.39 2.95 1.64 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58	1876 150 276 66 258 761 179 368 490 368 188 4577 30262 170 39987 1.42 2.27 1.76 2.22 1.74 1.77 1.80 1.49 1.49	50 87 74 577 950 325 28 63 55 25 22 793 3607 14 1.70 1.49 1.46 1.36 1.24 1.86 1.78 1.24 1.86 1.78 2.05 2.16	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174 Total 1.01 1.00 1.02 0.99 1.01 0.99 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-3333 603 687 388 511 86 22 89 36 18 34 58 235 33 1126 tor 1 0.96 1.44 1.39 1.67 2.08 2.24 2.27 1.78 1.90	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62 1226 3 1.41 1.29 0.90 1.57 1.55 2.03 2.69 1.87 2.54 2.51 2.07	340 1033 1699 -5756 267 148 12 50 64 19 15 22 778 -1421 4 1.69 1.33 1.54 0.93 1.41 1.69 1.64 1.93 2.64 1.93 1.93 1.93 1.93 1.93 1.93 1.93 1.93	50 38 138 289 -6154 5396 352 753 68 43 32 38 296 954 2296 5 2.07 1.85 1.12 1.69 1.34 1.73 1.54	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71 1.11 0.96 1.07 1.17 1.45 1.56 1.50	19 19 44 411 357 3043 -6457 1189 505 125 24 48 194 -854 7 2.28 2.39 2.64 1.64 1.64 1.07 0.94 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 45 2517 8 1.79 2.36 1.81 2.06 1.34 1.19 1.06 0.95 1.14 1.14 1.14 1.14	9 194 2.53 2.41 2.75 1.47 1.42 1.13 0.94 1.16	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 33 -1215	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 1.54 2.55 1.94 2.75 1.149 1.49	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068 12 2.21 2.57 2.39 2.93 1.64 1.58 1.54 1.45 1.45 1.45 1.45 1.45 1.45 1.45	1876 150 276 66 258 761 179 368 490 368 188 4577 30262 170 39987 13 1.42 2.27 1.76 2.22 1.74 1.77 1.80 1.72 1.49 1.68 1.72 1.69 1.68	50 87 74 577 950 325 28 63 55 32 512 793 3607 14 1.70 1.49 1.46 1.37 1.24 1.86 1.78 1.73 2.16 2.16	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174 Total 1.01 1.00 1.02 0.99 1.001 1.000 1.001
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total 5 6 6 7 8 9 10 10 11 12 13 14 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-3333 603 687 388 51 86 22 89 36 18 34 18 2355 33 1126 tor 1 0.96 1.44 1.39 1.67 2.08 2.24 2.27 1.71 1.71 1.72 1.73 1.74 1.75	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157 2 1.43 0.96 1.27 1.33 1.87 1.98 2.44 2.39 2.44 2.59 2.59 2.57	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62 1226 3 1.41 1.29 0.90 1.57 1.53 2.03 2.69 1.87	340 1033 1699 -5756 267 148 12 50 64 19 15 22 87 -1421 4 1.69 1.33 1.54 0.93 1.41 1.69 1.54 1.69 1.54 1.69	50 38 138 289 -6154 5396 352 755 68 43 32 38 296 954 2296 5 2.07 1.85 1.55 1.12 1.69 1.37 1.73	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71 1.11 0.96 1.07 1.45 1.56	19 19 44 411 357 3043 -6457 1189 505 125 24 48 194 -854 7 2.28 2.39 2.64 1.68 1.07 0.94 1.07	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517 8 1.79 2.36 1.81 2.06 0.95 1.14	99 194 2.53 2.410 2.402 99 1.94 2.53 2.41 2.73 1.47 1.42 1.43 1.04	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 33 -1215 10 1.99 2.52 2.43 1.72 1.55 1.72 1.53 1.74	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 1.54 2.55 1.94 2.75 1.149 1.49 1.49 1.49 1.49	54 41 59 22 38 137 52 202 202 1066 1588 473 -6446 4749 31 2068 12 2.21 2.57 2.39 2.95 1.64 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58	1876 150 276 66 258 761 179 368 490 368 188 4577 30262 170 39987 1.42 2.27 1.76 2.22 1.74 1.77 1.80 1.49 1.49	50 87 74 577 950 325 28 63 55 25 22 793 3607 14 1.70 1.49 1.46 1.36 1.24 1.86 1.78 1.24 1.86 1.78 2.05 2.16	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174 Total 1.01 1.00 1.02 0.99 1.01 0.99 1.00 1.00 1.00
1 2 3 4 5 6 7 8 9 10 11 12 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 10 10 11 12 13 14 14 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-3333 603 687 388 51 86 22 89 36 18 34 18 32 2355 33 1126 tor 1 0.96 1.44 1.39 1.67 2.08 2.24 2.27 1.78 1.96 2.00 1.99 2.14 2.17 2.17 2.18 2.	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157 2 1.43 0.96 1.27 1.33 1.87 1.98 2.44 2.36 2.59 2.59 2.70	739 529 -3266 1841 132 104 54 241 178 77 99 61 376 62 1226 3 1.41 1.29 0.90 1.57 1.55 2.03 2.69 1.87 2.54 2.51 2.07 2.49	340 1033 1699 -5756 267 148 12 50 64 19 15 22 87 -1421 4 1.69 1.33 1.54 0.93 1.41 1.69 1.64 1.99 1.59 1.20 1.64 1.69 1.75 1.64 1.69 1.75 1.69 1.75 1.69 1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	50 38 138 289 -6154 5396 352 753 68 43 32 296 954 2296 5 2.07 1.83 1.52 1.42 0.95 1.12 1.69 1.37 1.73 1.54 1.57 1.73 1.74 1.71 1.71 1.71 1.71 1.71	79 79 99 134 5125 -18371 3002 3425 810 270 62 126 818 187 -4155 6 2.21 1.96 1.99 1.71 1.11 0.96 1.07 1.45 1.56 1.50 1.54 1.72 1.89	19 19 44 41 11 357 3043 -6457 1189 505 24 48 194 24 -854 7 2.28 2.39 2.64 1.68 1.07 0.94 1.07 1.40 1.53 1.43 1.43 1.43 1.43 1.43	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517 8 1.79 2.36 1.81 2.06 0.95 1.14 1.19 1.06 0.134 1.146 1.38 1.46	9 194 253 495 195 63 495 1953 495 1953 495 1953 495 1953 495 1953 495 1953 495 1954 2.73 2.41 2.73 1.47 1.42 1.13 1.94 1.94 1.94 1.94 1.94 1.94 1.94 1.94	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35 -1215 10 1.99 2.52 2.43 1.72 1.55 1.53 1.44 0.96 1.43 1.104	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 1.54 2.55 1.94 2.76 1.51 1.49	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068 12 2.21 2.57 2.39 2.95 1.54 1.58 1.54 1.37 1.22 1.27 0.91	1876 150 276 66 258 761 179 368 490 368 188 4577 30262 170 39987 1.42 2.27 1.76 2.22 1.74 1.77 1.80 1.72 1.49 1.65 1.68 1.29 1.00 1.97	50 87 74 577 950 325 28 63 55 35 25 32 793 3607 14 1.70 1.49 1.46 1.78 1.24 1.86 1.78 2.05 2.16 2.11 2.16	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 41104 3068 45174 Total 1.01 1.00 1.02 0.99 1.01 0.99 1.01 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total 5 6 6 7 8 9 10 11 12 12 13	-3333 603 687 388 51 86 22 89 36 18 34 34 33 1126 tor 1 0.96 1.44 1.39 1.67 2.08 2.24 2.27 1.78 1.96 2.00 1.96 2.10	606 -2656 497 1090 37 82 22 91 63 27 33 37 162 67 157 2 1.43 0.96 1.27 1.33 1.87 1.98 2.44 2.36 2.59 2.57 2.50 2.56 2.20	739 529 -3266 1841 132 104 54 241 178 77 99 62 1226 3 1.41 1.29 0.90 1.57 1.55 2.03 2.69 1.87 2.54 2.51 2.07 2.46	340 1033 1699 -5756 267 148 12 50 64 19 15 22 27 578 -1421 4 1.69 1.33 1.54 1.69 1	50 38 138 289 -6154 5396 322 755 68 84 32 296 954 2296 5 2.07 1.85 1.52 0.95 1.12 1.69 1.34 1.57 1.73 1.57 1.73 1.50 1.60 1.71	79 79 99 134 5125 -18371 3002 3425 810 270 62 216 818 187 -4155 6 2.21 1.96 1.96 1.07 1.17 1.45 1.56 1.56 1.54 1.72	19 19 44 41 11 357 3043 -6457 1189 5005 125 24 48 194 24 -854 7 2.28 2.39 2.64 1.68 1.07 0.94 1.40 1.53 1.43 1.49 1.73	82 86 220 44 747 3711 1380 -8130 2434 831 480 171 415 46 2517 8 1.79 2.36 1.81 2.06 1.34 1.19 1.06 0.95 1.14 1.46 1.46 1.46 1.38	99 1.94 2.33 2.402 99 1.94 2.53 2.413 4.02 99 1.94 2.53 2.475 1.55 1.47 1.42 1.13 0.94 1.04 1.16 1.16 1.16 1.16	15 28 66 18 40 257 112 785 1764 -6341 111 1604 290 35 -1215 10 1.99 2.52 2.43 1.72 1.55 1.04 0.96 1.43 1.18 1.18	28 34 86 20 40 72 21 489 597 110 -1893 378 229 27 237 11 154 2.55 1.94 2.49 1.49	54 41 59 22 38 137 52 202 1066 1588 473 -6446 4749 31 2068 12 2.21 2.57 2.39 1.64 1.58 1.58 1.58 1.58 1.58 1.58 1.58 1.58	1876 150 276 66 65 258 761 179 368 188 4577 30262 170 39987 1.42 2.27 1.76 2.22 1.74 1.77 1.80 1.72 1.49 1.65 1.68 1.29	50 87 74 577 950 325 28 63 55 25 32 512 793 3607 14 1.70 1.49 1.46 1.86 1.73 2.05 2.16 2.11 2.16 6.17	640 141 838 -1192 1967 -3380 -692 2017 -399 -877 177 1762 4104 3068 45174 Total 1.01 1.00 1.02 0.99 1.01 0.99 1.00 1.00 1.00 1.00 1.00



Reference C	ase - 2051 -	·UC1													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	12895	1396	994	1199	76	101	20	172	61	27	94	83	6112	343	23575
2	1385	9473	1232	1584	107	162	20	101	58	32	27	36	1366	565	16148
3 4	1035 1226	1263 1616	2303 523	569 8711	208 720	146 768	35 22	309 206	129 63	101	130 28	72 25	2838 1347	861 1820	9999 17088
5	78	104	213	783	17596	10319	527	1598	381	198	189	120	1432	2496	36034
6	101	167	148	788	10550	57543	6513	7048	2566	1257	566	535	4505	820	93106
7	21	20	38	22	562	6199	13523	3209	799	442	161	196	1044	80	26316
8	195	114	354	217	1601	6912	3183	18766	4534	1896	781	626	4596	213	43989
9	56	52	118	60	353	2243	731	3917	16842	6117	530	1004	4262	114	36401
10	25	29	98	14	203	1314	461	1705	5873	17669	310	1724	4139	61	33625
11 12	122 84	30 34	149 69	28 24	170 123	571 537	192 207	706 620	549 1226	367 2124	1983 414	420 5599	1781 8614	78 51	7146 19725
13	8004	1726	3832	1963	1760	5725	1359	5926	4503	4550	2626	9665	8425106	10110	8486854
14	591	780	1452	2422	4265	1367	118	355	197	84	148	96	10551	787513	809940
Total	25819	16805	11523	18384	38294	93906	26911	44638	37781	34878	7989	20201	8477692	805126	9659947
DS - 2051 - U	_														Total
٦.	11605	1619	1113	1444	93	130	7 26	203	9 78	10 34	107	111	13 6755	14 403	Total 23719
1 2	1617	8252	1399	1761	125	200	26	135	78 83	45	39	53	1681	403 641	16056
3	1127	1337	1679	596	227	176	47	374	171	131	162	94	3243	933	10297
4	1508	1790	567	7114	825	949	26	258	95	19	43	39	1716	2091	17039
5	97	122	239	891	16386	10621	634	1819	444	237	218	139	1662	2802	36312
6	136	213	187	1018	11806	51907	6318	7757	3238	1570	774	661	5615	1096	92299
7 8	30 244	28 161	55 473	28 278	735 1862	6098 7208	12349 3028	3265 16293	1009 4746	583 2237	227 899	250 776	1323 5526	107 271	26087 44003
9	73	75	165	89	409	2712	873	4173	14601	5710	547	1236	5420	152	36235
10	32	40	136	19	248	1645	594	2074	5458	15408	376	2032	5254	81	33398
11	144	44	199	40	189	654	217	759	502	407	1511	447	2033	100	7247
12	113	48	93	35	139	618	241	710	1314	2245	427	4433	9503	67	19987
13	9192	2169	4719	2592	2070	6905	1667	7064	3404	5471	3111	11051	8437157	12612	8511184
14	728	864	1718	2766	4863 39978	1753 91576	152 26199	457 45341	268 37412	113 34211	207 8648	136 21459	13172 8500059	784446 805801	811644 9685506
Total	26645	16763	12742	18672	33376	32370		43342	3/422	34222	0040	21455	8500055	805801	3003300
-	26645	16763	12/42	100/2	33376	31370	20233	45541	37422	34222	5645	21455	8500055	805801	3003300
Total Difference	26645	16763	3	4	5	6	7	8	9	10	11	12	13	14	Total
-															
Difference	1 -1291 232	2 223 -1222	3 118 167	4 245 177	5 17 18	6 30 38	7 7 6	8 31 34	9 16 25	10 7 13	11 12 12	12 28 17	13 643 316	14 60 76	Total 144 -92
Difference 1 2 3	1 -1291 232 92	2 223 -1222 74	3 118 167 -624	4 245 177 27	5 17 18 19	6 30 38 30	7 7 6 12	8 31 34 65	9 16 25 42	10 7 13 30	11 12 12 12	12 28 17 22	13 643 316 405	14 60 76 72	Total 144 -92 297
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Difference 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	1 -1291 232 92 281 19 35 9 49 17 7 23 29 1188 137 826 tor 1 0.90 1.17	2 223 -1222 74 174 18 46 8 47 23 11 14 14 -42 2 116 0.87	3 118 167 -624 44 26 39 18 119 47 38 50 24 888 267 1219	4 245 177 27 -1398 1009 230 5 61 29 6 12 11 629 344 287	5 17 18 19 105 -1210 1256 173 261 53 19 16 311 597 1684	6 30 38 30 182 302 -5638 -101 297 468 331 83 81 1180 387 -2329	7 7 6 12 4 108 -195 -1174 -155 142 132 26 33 308 34 -712	8 31 34 65 53 221 709 56 -2473 256 369 53 90 1138 101 703	9 16 25 42 31 673 211 211 -2240 -415 -47 89 900 72 -369	10 7 13 30 5 39 313 141 341 -407 -2260 40 121 921 29 -667	11 12 12 32 14 29 208 66 118 17 66 -472 13 486 58 659	12 28 17 22 14 18 126 54 150 232 309 28 -1166 1386 40 1258	13 643 316 405 369 231 1111 279 930 1158 1115 252 889 12051 2621 22367	14 60 76 72 271 306 277 27 57 38 19 9 22 16 2502 -3067 675	Total 144 -92 297 -50 278 -807 -229 14 -166 -226 101 261 24329 1704 25559
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Difference 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact 1 2 3 4 5 6 7	1 -1291 232 92 281 19 35 9 49 17 7 23 29 1188 137 826 tor 1 0.90 1.17 1.09 1.23 1.25 1.42	2 223 -1222 74 174 18 46 8 47 23 11 14 14 443 84 -42 2 116 0.87 1.06 1.11 1.18 127 1.39	3 118 167 -624 44 26 39 18 119 47 38 50 24 888 267 1219 3 1.12 1.14 0.73 1.08 1.12 1.27 1.46	4 245 177 27 -1598 109 230 5 61 29 6 12 11 629 344 287 4 120 1.11 1.05 0.82 1.14 1.29 1.25	5 17 18 19 105 -1210 1256 173 261 55 45 19 16 311 597 1684	6 30 38 30 182 -5636 -101 297 468 331 180 387 -2329 6 1.29 1.23 1.21 1.24 1.00 0.98	7 7 6 12 4 108 -195 -1174 -155 142 132 26 33 308 34 -712 7 1.33 1.31 1.34 1.20 1.20 0.97 0.91	8 31 34 65 53 221 709 56 -2473 256 369 53 90 1138 101 703	9 16 25 42 31 673 211 211 -2240 -415 -47 89 900 72 -369	10 7 13 30 5 39 313 141 341 -407 -2260 40 121 921 921 29 -667	11 12 12 32 14 29 208 66 118 17 66 -472 13 486 58 659	12 28 17 22 14 18 126 54 150 232 309 28 -1166 1386 40 1258	13 643 316 405 369 231 1111 279 930 1138 1115 252 889 12051 2621 22367 13 1.11 1.23 1.14 1.27 1.16	14 60 76 72 271 306 277 57 38 19 22 16 2502 -3067 675	Total 144 -92 297 -50 278 -807 -229 14 -166 -226 101 261 24329 1704 25559 Total 1.01 0.99 1.03 1.00 1.09 0.99
Difference 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact	1 -1291 232 92 281 19 35 9 49 17 7 23 29 1188 137 826 tor 1 0.90 1.17 1.09 1.23 1.25 1.35 1.42 1.25	2 223 -1222 74 174 18 46 8 47 23 11 14 14 443 84 -42 116 0.87 1.06 1.11 1.18 1.27 1.39 1.41	3 118 167 -624 44 26 39 18 119 47 38 50 24 888 267 1219 3 1.12 1.14 0.73 1.08 1.12 1.24 1.34	4 245 177 27 -1598 109 230 5 61 29 6 6 12 11 629 344 287 4 120 111 1.05 0.82 1.14 1.25 1.28	5 17 18 19 105 -1210 1256 173 261 55 45 19 16 311 397 1684 5 122 1.17 1.09 1.15 0.93 1.12 1.16	6 30 38 30 182 302 -5636 -101 297 468 331 1180 387 -2329 6 6 1.23 1.21 1.24 1.03 0.98 1.04	7 7 6 12 4 108 -195 -1174 -155 142 132 26 33 308 34 -712 7 1.33 1.31 1.34 1.20 0.97 0.91	8 31 34 65 53 221 709 56 -2473 256 369 90 1138 101 703 8 1.18 1.33 1.21 1.26 1.14 1.10 1.02 0.87	9 16 25 42 31 673 211 211 -2240 -415 -47 89 900 72 -369 9 127 1.44 1.33 1.49 1.17 1.26 1.05	10 7 13 30 5 39 313 141 341 -407 -2260 40 121 921 29 -667 10 1.26 1.39 1.30 1.40 1.20 1.21 1.30 1.41 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.20 1.40 1.40 1.40 1.40 1.20 1.30 1.30 1.30 1.40 1.20 1.30	11 12 12 12 32 14 29 208 66 118 17 66 -472 13 486 58 659	12 28 17 22 14 18 126 54 150 232 309 28 -1166 1386 40 1258 12 13 1.46 1.31 1.55 1.15 1.15 1.28 1.24	13 643 316 405 369 231 1111 279 930 1158 1115 2512 889 12051 2621 22367 13 1.11 1.23 1.14 1.27 1.16 1.27 1.20	14 60 76 72 271 306 277 57 38 19 22 16 2502 -3067 675 14 1.17 1.13 1.08 1.15 1.12 1.34 1.34 1.34	Total 144 -92 297 -50 278 -807 -229 14 -166 -226 101 261 24329 1704 25559 Total 1.01 0.99 1.03 1.00 1.01 0.99 1.00
Difference 1	1 -1291 232 92 281 19 35 9 49 17 7 23 29 1188 137 826 tor 1 0.90 1.17 1.09 1.23 1.25 1.35 1.42 1.25 1.29	2 223 -1222 74 174 18 46 8 47 23 11 14 443 84 -42 2 116 0.87 1.06 1.11 1.18 1.27 1.39 1.41 1.43	3 118 167 -624 44 26 39 18 119 47 38 267 1219 3 1.12 1.12 1.12 1.27 1.46 1.34 1.40	4 245 177 27 -1598 109 230 61 29 6 61 29 6 12 11 629 344 287 4 120 0.82 114 1.25 1.28 1.28 1.29 1.29 1.29 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	5 17 18 19 105 -1210 1256 173 261 55 43 19 16 311 597 1684 5 1.22 1.17 1.09 1.13 0.93 1.12 1.16 1.16	6 30 38 30 182 300 -5636 -101 297 468 331 1180 387 -2329 6 1.29 1.23 1.21 1.24 1.03 0.90 0.98 1.04	7 7 6 12 4 108 -195 -1174 -155 142 132 26 33 308 34 -712 7 1.33 1.31 1.34 1.20 1.20 0.97 0.91	8 31 34 65 53 221 709 56 -2473 256 369 53 90 1138 101 703 8 1.18 1.33 1.21 1.26 1.14 1.10 1.02 0.87 1.07	9 16 25 42 31 63 673 211 211 -2240 -415 -47 89 900 72 -369 9 1.27 1.44 1.33 1.49 1.17 1.26 1.26 1.05 0.87	10 7 13 30 5 39 313 141 341 -407 -2260 40 121 921 29 -667 10 1.26 1.39 1.40 1.20 1.20 1.21 1.20 1.20 1.21 1.20	11 12 12 12 32 14 29 208 66 118 17 66 -472 13 486 58 659 11 1.13 1.44 1.25 1.30 1.15 1.37 1.41 1.15 1.03	12 28 17 22 14 18 126 54 150 232 309 28 -1166 1386 40 1258 12 1.33 1.46 1.31 1.55 1.15 1.24 1.24 1.24	13 643 316 405 369 231 1111 279 930 1158 1115 252 889 12051 2621 22367 13 1.11 1.23 1.14 1.27 1.16 1.25 1.20 1.20 1.27	14 60 76 72 271 306 277 57 38 19 2502 -3067 675 14 1.17 1.13 1.08 1.15 1.12 1.34 1.27 1.34	Total 144 -92 297 -50 278 -807 -229 14 -166 -226 101 261 24329 1704 25559 Total 1.01 0.99 1.03 1.00 1.01 0.99 0.99 0.99
Difference 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact	1 -1291 232 92 281 19 9 49 17 7 23 29 1188 137 826 117 1.09 1.23 1.25 1.35 1.42 1.25 1.28	2 223 -1222 74 174 18 46 8 47 23 11 14 14 14 443 84 -42 2 1.16 0.87 1.06 1.11 1.18 1.27 1.39 1.41	3 118 167 -624 44 26 39 18 119 47 38 50 24 888 267 1219 3 1.12 1.14 0.73 1.08 1.12 1.27 1.46 1.39	4 245 177 27 -1998 1099 230 5 61 29 6 12 11 629 344 287 4 1.20 1.11 1.05 0.82 1.14 1.29 1.25 1.14 1.29 1.25 1.14 1.29 1.25 1.14 1.29 1.29 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	5 17 18 19 100 -1210 1256 173 261 55 45 19 16 311 597 1684 5 1.22 1.17 1.09 1.15 0.93 1.12 1.31 1.16 1.16 1.16	6 30 38 30 182 302 -5636 -101 297 468 331 83 81 1180 387 -2329 6 1.29 1.23 1.21 1.24 1.03 0.90 0.98 1.04	7 7 6 12 4 108 -195 -1174 -155 142 132 26 33 308 34 -712 7 1.33 1.31 1.34 1.20 0.97 0.91 0.95 1.19 1.29	8 31 34 65 53 221 709 56 -2473 256 369 53 90 1138 101 703	9 16 25 42 31 63 673 211 211 -2240 -415 -47 89 900 72 -369 9 1.27 1.44 1.33 1.49 1.17 1.26 1.26 1.05 7.093	10 7 13 30 5 39 313 141 341 -407 -2260 40 121 921 29 -667 10 1.26 1.39 1.30 1.40 1.25 1.32 1.40 1.25 1.32 1.40 1.25 1.32 1.40 1.25 1.32 1.40 1.25 1.32 1.40 1.25 1.32 1.40 1.25 1.32 1.40 1.25 1.32 1.32 1.32 1.40 1.25 1.32	11 12 12 32 14 29 208 66 118 17 66 -472 13 486 58 659	12 28 17 22 14 18 126 54 150 232 309 28 -1166 1386 40 1258 12 1.33 1.46 1.31 1.55 1.15 1.24 1.28 1.24 1.28 1.24 1.23 1.24	13 643 316 405 369 231 1111 279 930 1155 252 889 12051 12367 13 1.11 1.23 1.14 1.25 1.16 1.25 1.27 1.16 1.25 1.27	14 60 76 72 271 306 277 27 57 38 19 22 16 2502 -3057 675 14 1.17 1.13 1.08 1.15 1.12 1.34 1.34 1.34	Total 144 -92 297 -50 278 -807 -229 14 -166 -226 101 261 24329 1704 25559 Total 1.01 0.99 1.03 1.00 0.99 1.00 0.99
Difference 1	1 -1291 232 92 281 19 35 9 49 17 7 23 29 1188 137 826 tor 1 0.90 1.17 1.09 1.23 1.25 1.35 1.42 1.25 1.29	2 223 -1222 74 174 18 46 8 47 23 11 14 443 84 -42 2 116 0.87 1.06 1.11 1.18 1.27 1.39 1.41 1.43	3 118 167 -624 44 26 39 18 119 47 38 267 1219 3 1.12 1.12 1.12 1.27 1.46 1.34 1.40	4 245 177 27 -1598 109 230 61 29 6 61 29 6 12 11 629 344 287 4 120 0.82 114 1.25 1.28 1.28 1.29 1.29 1.29 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	5 17 18 19 105 -1210 1256 173 261 55 43 19 16 311 597 1684 5 1.22 1.17 1.09 1.13 0.93 1.12 1.16 1.16	6 30 38 30 182 300 -5636 -101 297 468 331 1180 387 -2329 6 1.29 1.23 1.21 1.24 1.03 0.90 0.98 1.04	7 7 6 12 4 108 -195 -1174 -155 142 132 26 33 308 34 -712 7 1.33 1.31 1.34 1.20 1.20 0.97 0.91	8 31 34 65 53 221 709 56 -2473 256 369 53 90 1138 101 703 8 1.18 1.33 1.21 1.26 1.14 1.10 1.02 0.87 1.07	9 16 25 42 31 63 673 211 211 -2240 -415 -47 89 900 72 -369 9 1.27 1.44 1.33 1.49 1.17 1.26 1.26 1.05 0.87	10 7 13 30 5 39 313 141 341 -407 -2260 40 121 921 29 -667 10 1.26 1.39 1.40 1.20 1.20 1.21 1.20 1.20 1.21 1.20	11 12 12 12 32 14 29 208 66 118 17 66 -472 13 486 58 659 11 1.13 1.44 1.25 1.30 1.15 1.37 1.41 1.15 1.03	12 28 17 22 14 18 126 54 150 232 309 28 -1166 1386 40 1258 12 1.33 1.46 1.31 1.55 1.15 1.24 1.24 1.24	13 643 316 405 369 231 1111 279 930 1158 1115 252 889 12051 2621 22367 13 1.11 1.23 1.14 1.27 1.16 1.25 1.20 1.20 1.27	14 60 76 72 271 306 277 57 38 19 2502 -3067 675 14 1.17 1.13 1.08 1.15 1.12 1.34 1.27 1.34	Total 144 -92 297 -50 278 -807 -229 14 -166 -226 101 261 24329 1704 25559 Total 1.01 0.99 1.03 1.00 1.01 0.99 0.99 0.99
Difference 1 2 3 4 4 5 6 6 7 8 8 9 10 11 12 13 14 Total Growth Fact 2 7 8 9 10 11 12 13 14 15 6 6 7 7 8 8 9 10 11 12 13 14 15 15 6 7 7 8 8 9 10 11 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	1 -1291 232 92 281 19 35 9 49 17 7 23 29 1188 137 826 tor 1 0.90 1.17 1.09 1.23 1.25 1.35 1.42 1.25 1.29 1.28 1.19 1.34 1.15	2 223 -1222 74 174 18 46 8 47 23 11 14 14 443 84 -42 2 116 0.87 1.06 111 118 127 1.39 1.41 1.43 1.39 1.46 1.41 1.26	3 118 167 -624 44 26 39 18 119 47 38 50 24 888 267 1219 3 1.12 1.14 0.73 1.08 1.12 1.27 1.46 1.34 1.40 1.39 1.39	4 245 177 27 -1598 1009 230 5 61 29 6 12 11 629 344 287 4 120 1.11 1.05 0.82 1.14 1.29 1.25 1.28 1.41 1.44	5 17 18 19 105 -1210 1256 173 261 55 19 16 311 597 1684 5 1.22 1.17 1.09 1.13 0.93 1.12 1.16 1.16 1.16 1.16 1.16	6 30 38 30 182 302 -5636 -101 297 468 331 1180 387 -2329 6 1.23 1.21 1.24 1.03 0.90 0.98 1.04 1.21 1.25 1.14 1.15 1.14 1.15	7 7 6 12 4 108 -195 -1174 -155 142 132 26 33 308 34 -712 7 1.33 1.31 1.34 1.20 1.20 0.97 0.91 0.95 1.19 1.29 1.14 1.16 1.23	8 31 34 65 53 2211 709 56 -2473 256 369 53 90 1138 101 703 8 1.18 1.33 1.21 1.26 1.14 1.10 1.02 0.87 1.07	9 16 25 42 31 673 211 211 211 -2240 -415 -47 89 900 127 144 133 149 117 126 126 105 0.87 0.93 0.91	10 7 13 30 5 39 313 141 341 -407 -2260 40 121 921 921 10 1.26 1.39 1.30 1.40 1.25 1.32 1.18 0.97 1.11	11 12 12 32 14 29 208 66 118 17 66 -472 13 486 659 11 1.13 1.44 1.25 1.50 1.15 1.37 1.41 1.15 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07	12 28 17 22 14 18 126 54 150 232 309 -1166 1386 40 1258 125 133 1.46 1.31 1.55 1.15 1.24 1.28 1.24 1.28 1.24 1.23 1.16	13 643 316 405 369 231 1111 279 930 1138 1115 252 889 12051 2621 7 22367 13 1.11 1.23 1.14 1.27 1.16 1.27 1.20 1.27 1.20 1.27 1.27 1.20	14 60 76 72 271 306 277 57 38 19 22 16 2502 -3057 675 14 1.17 1.13 1.08 1.15 1.12 1.34 1.34 1.34 1.32 1.34 1.32 1.34 1.32 1.34 1.32 1.32 1.34 1.32 1.32 1.34 1.32 1.32 1.33 1.33 1.33 1.33 1.34 1.34 1.34 1.35	Total 144 -92 297 -50 278 -807 -229 14 -166 -226 101 261 24329 1704 25559 Total 1.01 0.99 1.03 1.00 1.01 0.99 1.00 1.00 1.00
Difference 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fact 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 18 19 10 11 11 12 13 14 15 16 17 18 19 10 11 11 12	1 -1291 232 92 281 19 35 9 49 17 7 23 29 1188 137 826 20 117 1.09 1.23 1.25 1.35 1.42 1.25 1.29 1.34	2 223 -1222 74 174 18 46 8 47 23 11 14 14 443 84 -42 2 116 0.87 1.06 1.11 1.18 1.27 1.39 1.41 1.43 1.39 1.46 1.41	3 118 167 -624 44 26 39 18 119 47 38 50 24 888 267 1219 3 1.12 1.14 0.73 1.08 1.12 1.46 1.34 1.40 1.33 1.33	4 245 177 27 -1598 109 230 5 61 29 6 12 11 629 344 287 4 120 1.11 1.05 0.82 1.14 1.29 1.25 1.28 1.48 1.44 1.44	5 17 18 19 105 -1210 1256 173 261 55 45 19 16 311 597 1684 5 122 1.17 1.09 1.15 0.93 1.15 0.93 1.16 1.16 1.16 1.16 1.16 1.16 1.16	6 30 38 30 182 302 -5636 -101 297 468 331 1180 387 -2329 6 129 123 121 124 103 0.90 0.98 1.04 1.21 1.2	7 7 6 12 4 108 -195 -1174 -155 142 132 26 33 308 34 -712 7 1.33 1.31 1.34 1.20 1.20 0.97 0.91 0.95 1.19 1.29 1.14 1.16	8 31 34 65 53 221 709 56 -2473 256 369 53 90 1138 101 703 8 1.18 1.33 1.21 1.26 1.14 1.10 1.02 0.87 1.07 1.15	9 16 25 42 31 673 211 211 -2240 -415 -47 89 900 72 -369 9 127 144 133 149 117 126 105 0.87 0.93 0.91 1.07	10 7 13 30 5 39 313 141 341 -407 -2260 40 121 921 29 -667 10 1.26 1.39 1.30 1.40 1.20 1.21 1.30 1.40 1.21 1.30 1.41 1.30 1.41 1.30 1.41 1.30 1.41 1.30 1.41 1.40 1.20 1.30 1.40 1.20 1.30 1.40 1.20 1.30 1.40 1.20 1.30 1.40 1.20 1.30 1.40 1.20 1.30 1.40	11 12 12 12 32 14 29 208 66 118 17 66 -472 13 486 58 659 11 1.13 1.44 1.25 1.50 1.15 1.37 1.41 1.15 1.03 1.21 1.03 1.21 1.03 1.21 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.0	12 28 17 22 14 18 126 54 150 232 309 28 -1166 1386 40 1258 12 1.31 1.46 1.31 1.55 1.15 1.24 1.23 1.18 1.24 1.23 1.10 1.24 1.23 1.24 1.23 1.24 1.25 1.24 1.25 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26	13 643 316 405 369 231 1111 279 930 1138 1115 252 289 12051 2621 22367 13 1.11 1.23 1.14 1.27 1.16 1.27 1.20 1.27 1.20 1.27 1.20	14 60 76 72 271 306 277 57 38 19 22 16 2502 -3067 675 14 1.17 1.13 1.08 1.15 1.12 1.34 1.27 1.34 1.27 1.34 1.27 1.34 1.27 1.34 1.27 1.34 1.32 1.28 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.32 1.33 1.33 1.34	Total 144 -92 297 -50 278 -807 -229 14 -166 -226 101 261 24329 1704 25559 Total 1.01 0.99 1.03 1.00 1.01 0.99 1.00 1.00 0.99 1.01



Reference C	ase - 2051	<u>- UC2</u> 2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	95103	2519	2309	787	23	36	8	75	16	20	22	43	7494	31	108486
2	2519	99790	2599	5682	47	34	10	46	21	12	5	18	181	262	111245
3 4	2309 787	2599 5682	25480 7097	7097 73274	550 1080	132 157	45 11	376 58	54 10	33 11	22	14 3	374 127	120 1405	39206 89704
5	23	47	550	1080	123239	54034	1066	3111	264	92	41	39	184	2613	186378
6	36	54	132	157	54034	459918	37829	25325	2395	836	144	163	458	95	581576
7	8	10	45	11	1066	37829	130664	27333	2187	462	34	67	115	7	199858
8	75	46	376 54	58	3111	25325	27333 2187	181279 26976	26976 145815	3337	1797 5202	721	407	22	270863 233340
10	16 20	21 12	33	10 11	264 92	2395 836	462	3337	45745	45745 172190	513	4264 7797	379 462	14 2	233540
11	22	- 5	22	2	41	144	54	1797	5202	513	15934	2565	610	3	26914
12	43	18	14	3	39	163	67	721	4264	7797	2565	45790	9027	10	70520
13	7494	181	374	127	184	458	115	407	379	462	610		8769826		28790337 2885577
14 Total	108486	262 111245	120 39206	1405 89704	2613 186378	95 581576	199858	270863	233340	231510	26914	70520 2	694 28790337	2880298 2885577	33825513
	100400	111145	33200	03704	100570	301370	133030	2,0003	233340	232320	20324	,0320		2003377	33023323
DS - 2051 - I	UC2 1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	92255	3265	2841	1176	36	65	14	107	29	33	29	86	8645	47	108630
2	3265	96984	2983	7096	64	86	19	88	50	27	12	42	289	326	111330
3	2841	2983	22015	9046	636	183	73	513	107	61	42	29	544	152	39226
4	1176	7096	9046	68789	1326	231	16	100	23	28	6	7	230	1678	89754
5 6	36 65	64 86	636 183	1326 231	117542 57834	57834 450694	1501 39809	3716 27680	346 2966	128 1070	49 177	52 206	258 680	2998 146	186486 581828
7	14	19	73	16	1501	39809	126595	28286	2656	586	67	85	167	12	199888
8	107	88	513	100	3716	27680	28286	173663	29006	4065	2152	925	589	33	270922
9	29	50	107	23	346	2966	2656	29006	140206	46779	5655	5109	548	25	233504
10 11	33 29	27 12	61 42	28	128 49	1070 177	586 67	4065 2152	46779 5655	168813 630	630 14320	8798 2951	675 823	5	231698 26920
12	86	42	29	7	52	206	85	925	5109	8798	2951	41364	10714	18	70584
13	8645	289	544	230	258	680	167	589	548	675	823	10714 2	8904325	1158	28929645
14	47	326	152	1678	2998	146	12	33	25	5	6	18		2882920	2889523
Total	108630	111330	39226	89754	186486	581828	199888	270922	233504	231698	26920	70584 2	8929645	2889523	33969938
Difference															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-2848	745	532	390	14	29	6	33	12	14	7	43	1151	16	145
1 2	-2848 745	745 -2806	532 385	390 1415	14 18	29 32	6 9	33 42	12 29	14 15	7	43 24	1151 109	16 64	145 86
1 2 3 4 5	-2848 745 532 390 14	745 -2806 385 1415 18	532 385 -3465 1949 86	390 1415 1949 -4486 246	14 18 86 246 -5697	29 32 51 74 3800	6 9 28 4 435	33 42 136 42 605	12 29 53 13 83	14 15 28 17 36	7 7 20 4 8	43 24 14 4	1151 109 170 103 74	16 64 32 273 385	145 86 19 50 108
1 2 3 4 5	-2848 745 532 390 14 29	745 -2806 385 1415 18	532 385 -3465 1949 86 51	390 1415 1949 -4486 246 74	14 18 86 246 -3697 3800	29 32 51 74 3800 -9224	6 9 28 4 435 1981	33 42 136 42 605 2355	12 29 53 13 83 570	14 15 28 17 36 234	7 7 20 4 8 34	43 24 14 4 13	1151 109 170 103 74 222	16 64 32 273 385 52	145 86 19 50 108 252
1 2 3 4 5 6	-2848 745 532 390 14	745 -2806 385 1415 18 32	532 385 -3465 1949 86	390 1415 1949 -4486 246 74	14 18 86 246 -3697 3800 435	29 32 51 74 3800 -9224 1981	6 9 28 4 435 1981 -4069	33 42 136 42 605 2355 954	12 29 53 13 83 570 470	14 15 28 17 36	7 7 20 4 8	43 24 14 4	1151 109 170 103 74 222 52	16 64 32 273 385 52	145 86 19 50 108 252 30
1 2 3 4 5	-2848 745 532 390 14 29	745 -2806 385 1415 18	532 385 -3465 1949 86 51 28	390 1415 1949 -4486 246 74	14 18 86 246 -3697 3800	29 32 51 74 3800 -9224	6 9 28 4 435 1981	33 42 136 42 605 2355	12 29 53 13 83 570	14 15 28 17 36 234 125	7 7 20 4 8 34 13	43 24 14 4 13 43	1151 109 170 103 74 222	16 64 32 273 385 52	145 86 19 50 108 252
1 2 3 4 5 6 7 8 9	-2848 745 532 390 14 29 6 33 12	745 -2806 385 1415 18 32 9 42 29	532 385 -3465 1949 86 51 28 136 53 28	390 1415 1949 -4486 246 74 4 42 13	14 18 86 246 -5697 3800 435 605 83 36	29 32 51 74 3800 -9224 1981 2355 570 234	6 9 28 4 435 1981 -4069 954 470 125	33 42 136 42 605 2355 954 -7616 2029 728	12 29 53 13 83 570 470 2029 -5608	14 15 28 17 36 234 125 728 1034 -3377	7 7 20 4 8 34 13 355 454 117	43 24 14 4 13 43 18 203 844 1001	1151 109 170 103 74 222 52 182 170 213	16 64 32 273 385 52 4 12 11	145 86 19 50 108 252 30 60 163 188
1 2 3 4 5 6 7 8 9	-2848 745 532 390 14 29 6 33 12 14	745 -2806 385 1415 18 32 9 42 29 15 7	532 385 -3465 1949 86 51 28 136 53 28 20	390 1415 1949 -4486 246 74 4 42 13 17	14 18 86 246 -3697 3800 435 605 83 36	29 32 51 74 3800 -9224 1981 2355 570 234 34	6 9 28 4 435 1981 -4069 954 470 125 13	33 42 136 42 605 2355 954 -7616 2029 728 355	12 29 53 13 83 570 470 2029 -5608 1034 454	14 15 28 17 36 234 125 728 1034 -3377	7 7 20 4 8 34 13 355 454 117 -1614	43 24 14 4 13 43 18 203 844 1001 386	1151 109 170 103 74 222 52 182 170 213 213	16 64 32 273 385 52 4 12 11 2	145 86 19 50 108 252 30 60 163 188 7
1 2 3 4 5 6 7 8 9	-2848 745 532 390 14 29 6 33 12	745 -2806 385 1415 18 32 9 42 29	532 385 -3465 1949 86 51 28 136 53 28	390 1415 1949 -4486 246 74 4 42 13	14 18 86 246 -5697 3800 435 605 83 36	29 32 51 74 3800 -9224 1981 2355 570 234	6 9 28 4 435 1981 -4069 954 470 125	33 42 136 42 605 2355 954 -7616 2029 728	12 29 53 13 83 570 470 2029 -5608	14 15 28 17 36 234 125 728 1034 -3377	7 7 20 4 8 34 13 355 454 117	43 24 14 4 13 43 18 203 844 1001	1151 109 170 103 74 222 52 182 170 213	16 64 32 273 385 52 4 12 11	145 86 19 50 108 252 30 60 163 188
1 2 3 4 5 6 7 8 9 10 11 12	-2848 745 532 390 14 29 6 33 12 14 7	745 -2806 385 1415 18 32 9 42 29 15 7	532 385 -3465 1949 86 51 28 136 53 28 20 14	390 1415 1949 -4486 246 74 4 42 13 17 4	14 18 86 246 -3697 3800 435 605 83 36 8	29 32 51 74 3800 -9224 1981 2355 570 234 34	6 9 28 4 435 1981 -4069 954 470 125 13	33 42 136 42 605 2355 954 -7616 2029 728 355 203	12 29 53 13 83 570 470 2029 -5608 1034 454 844	14 15 28 17 36 234 125 728 1034 -3377 117	7 7 20 4 8 34 13 355 454 117 -1614	43 24 14 4 13 43 18 203 844 1001 386	1151 109 170 103 74 222 52 182 170 213 213	16 64 32 273 385 52 4 12 11 2 3	145 86 19 50 108 252 30 60 163 188 7 63
1 2 3 4 5 6 7 8 9 10 11 12 12	-2848 743 532 390 14 29 6 33 12 14 7 43	745 -2806 385 1415 18 32 9 42 29 15 7 24	532 385 -3465 1949 86 51 28 136 53 28 20 14	390 1415 1949 -4486 246 74 4 42 13 17 4 4 103	14 18 86 246 -3697 3800 435 605 83 36 8	29 32 51 74 3800 -9224 1981 2355 570 234 43 222	6 9 28 4 435 1981 -4069 954 470 125 13 18	33 42 136 42 605 2355 954 -7616 2029 728 355 203 182	12 29 53 13 83 570 470 2029 -5608 1034 434 844 170	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213	7 7 20 4 8 34 13 355 454 117 -1614 386 213	43 24 14 4 13 43 18 203 844 1001 386 -4226 1687	1151 109 170 103 74 222 52 182 170 213 213 1687	16 64 32 273 385 52 4 12 11 2 3 8 464	145 86 19 50 108 252 30 60 163 188 7 63
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 145	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64	532 385 -3465 1949 86 51 28 136 53 28 20 14	390 1415 1949 -4486 246 74 4 42 13 17 4 4 103 273	14 18 86 246 -5697 3800 433 605 83 36 8 13 74	29 32 51 74 3800 -9224 1981 2355 570 234 43 222 52	6 9 28 4 435 1981 -4069 954 470 125 13 18 52 4	33 42 136 42 605 2355 954 -7616 2029 728 355 203 182 12	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2	7 7 20 4 8 34 13 355 454 117 -1614 386 213 3	43 24 14 4 13 43 18 203 844 1001 386 -4226 1687 8	1151 109 170 103 74 222 52 182 170 213 213 1687 134498 464	16 64 32 273 385 52 4 12 11 2 3 8 464 2622	145 86 19 50 108 252 30 60 163 188 7 63 139308
1 2 3 4 5 6 7 8 9 10 11 12 13	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 145	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64	532 385 -3465 1949 86 51 28 136 53 28 20 14	390 1415 1949 -4486 246 74 4 42 13 17 4 4 103 273	14 18 86 246 -5697 3800 433 605 83 36 8 13 74	29 32 51 74 3800 -9224 1981 2355 570 234 43 222 52	6 9 28 4 435 1981 -4069 954 470 125 13 18 52 4	33 42 136 42 605 2355 954 -7616 2029 728 355 203 182 12	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2	7 7 20 4 8 34 13 355 454 117 -1614 386 213 3	43 24 14 4 13 43 18 203 844 1001 386 -4226 1687 8	1151 109 170 103 74 222 52 182 170 213 213 1687 134498 464	16 64 32 273 385 52 4 12 11 2 3 8 464 2622	145 86 19 50 108 252 30 60 163 188 7 63 139308
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 16 145 145	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 3465 1949 86 51 28 136 53 28 20 14 170 32 19	390 1415 1949 -4486 246 74 4 4 2 13 17 4 4 4 103 273 50	14 18 86 246 -5697 3800 433 605 83 36 8 8 13 74 385 108	29 32 51 74 3800 -9224 1981 2355 5770 234 34 43 222 52 252	6 9 28 4 433 1981 -4069 954 470 125 13 18 522 4 30	33 42 136 42 605 2355 954 -7616 2029 728 355 203 182 60	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188	7 7 20 4 8 34 13 355 454 117 -1614 386 213 7	43 24 14 4 13 43 18 203 844 1001 386 -4226 1697 8 63	1151 109 170 103 74 222 52 182 170 213 213 1687 134498 464 139308	16 64 32 273 385 52 4 12 11 1 2 3 8 464 2622 3946	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2848 745 532 390 14 29 6 33 122 14 7 43 1151 16 145 145	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 136 53 28 20 14 170 32 19	390 1415 1949 -4486 246 74 4 4 21 13 17 4 4 4 103 273 50	14 18 86 246 -5697 3800 435 605 83 36 8 13 74 385 108	29 32 51 74 3800 -9224 1981 2355 570 224 34 43 222 252 252	6 9 28 4 433 1981 -4069 934 470 123 13 18 52 4 30	33 42 136 605 2355 954 -7616 2029 728 355 203 182 60	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188	7 7 7 20 4 8 34 13 353 454 117 -1614 386 213 3 7	43 24 14 4 13 43 18 203 844 1001 386 -4226 1687 8 63	1151 109 170 103 74 222 52 182 170 213 213 213 1687 134498 464 139308	16 64 32 273 385 52 4 12 12 13 8 8 464 2622 3946	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2848 745 532 390 144 29 6 33 12 14 7 43 1151 145 145 145	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 136 53 28 20 14 170 32 19	390 1415 1949 -4486 246 74 4 4 22 13 17 4 4 103 273 50	14 18 86 246 -5697 3800 433 605 83 36 8 13 74 385 108	29 32 51 74 3800 -9224 1981 2355 570 234 43 222 52 252	6 9 28 433 1981 -4069 934 470 123 13 18 52 4 30	33 42 136 42 605 2355 954 -7616 2029 728 355 203 182 12 60	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188	7 7 7 20 4 8 34 13 355 454 117 -1614 386 213 3 7	43 24 14 4 13 18 203 844 1001 386 -4226 1687 8 63	1151 109 170 103 74 222 52 182 173 213 213 213 1687 13498 464 139308	16 64 32 273 552 4 12 11 12 3 8 464 2652 3946	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-2848 745 532 390 14 29 6 33 122 14 7 43 1151 16 145 145	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 136 53 28 20 14 170 32 19	390 1415 1949 -4486 246 74 4 4 21 13 17 4 4 4 103 273 50	14 18 86 246 -5697 3800 435 605 83 36 8 13 74 385 108	29 32 51 74 3800 -9224 1981 2355 570 224 34 43 222 252 252	6 9 28 4 433 1981 -4069 934 470 123 13 18 52 4 30	33 42 136 605 2355 954 -7616 2029 728 355 203 182 60	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188	7 7 7 20 4 8 34 13 353 454 117 -1614 386 213 3 7	43 24 14 4 13 43 18 203 844 1001 386 -4226 1687 8 63	1151 109 170 103 74 222 52 182 170 213 213 213 1687 134498 464 139308	16 64 32 273 385 52 4 12 12 13 8 8 464 2622 3946	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 16 145	745 -2806 385 1415 188 32 9 42 29 15 7 24 109 64 86	532 385 -3465 1949 86 51 28 136 53 20 14 170 32 19 3 1.23 1.13 0.86 1.27	390 1415 1949 -4486 246 74 4 42 13 17 4 4 103 273 50 4 1.50 1.27 0.94	14 18 86 246 -5697 3800 435 605 83 36 8 13 74 385 108	29 32 51 74 3800 -9224 1981 2355 570 234 43 222 252 252 6 1.80 0 1.59 1.38 1.47	6 9 28 43 1981 -4069 954 470 123 13 18 52 4 30 7 7 1.83 1.96 1.62	33 42 136 42 605 2355 954 -7615 2029 728 355 203 182 12 60 8 8 1.44 1.91 1.96	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188	7 7 7 20 4 8 34 13 355 454 117 -1614 386 213 3 7	43 24 14 4 13 18 203 844 1001 386 -4226 1687 8 63	1151 109 170 103 74 222 52 182 170 213 213 1687 134498 464 139308	16 64 32 273 385 52 4 12 11 2 3 8 464 2622 3946 1.51 1.24 1.26 1.19	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426
1 2 3 4 5 6 7 8 9 100 111 12 13 14 Total 2 3 4 5 6 7	-2848 745 532 390 144 29 6 33 122 14 7 43 1151 16 145 145 10.97 1.30 1.23 1.50 1.60 1.80 1.83	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 136 53 28 20 14 170 32 19 3 1.13 0.86 1.27 1.15 0.86 1.27 1.16 1.38 1.62	390 1415 1949 -4486 246 74 4 42 13 317 4 4 4 103 273 50 4 1.50 1.25 1.27 0.94 1.23 1.47 1.40	14 18 86 246 -5697 3800 435 605 83 33 68 8 13 74 385 108 5 1.62 1.37 1.16 1.23 0.95 1.07 1.41	29 32 51 74 3800 -9224 1981 2355 570 2244 43 222 252 252 252 6 1.80 1.59 1.38 1.47 1.07 0.98 1.05	6 9 28 4 433 1981 -4069 934 470 123 13 18 52 4 30 7 1.83 1.96 1.62 1.40 1.40 1.40 1.03 0.97	33 42 136 605 2355 954 -7616 2029 728 355 203 182 12 60 8 1.44 1.91 1.36 1.74 1.19 1.09	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163 9 1.75 2.35 1.99 2.38 1.31 1.24	14 15 28 17 36 234 125 728 1034 -3377 1001 213 2 188 10 171 2.28 1.87 2.53 1.40 1.71 2.28 1.87 2.53 1.40 1.27	7 7 7 20 4 8 34 13 3353 454 117 -1614 386 213 3 7 11 129 2.46 1.91 2.63 1.21 1.23 1.24	43 24 14 4 13 43 18 203 844 1001 386 -4226 1687 8 63	1151 109 170 103 74 222 52 182 170 213 213 213 1687 13498 464 139308	16 64 32 273 385 52 4 12 11 1 2 3 8 8 464 2622 3946 1.51 1.24 1.26 1.19 1.15 1.55 1.59 1.59	145 86 19 50 108 252 30 60 163 188 7 63 139308 3945 144426
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 165 145 145 150 1.30 1.23 1.50 1.62 1.83 1.44	745 -2806 385 1415 188 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 136 53 22 20 14 170 32 19 3 1.23 1.15 0.86 1.27 1.16 1.36 1.23 1.15 1.26 1.27 1.16 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.29	390 1415 1949 -4486 246 74 4 4 21 33 50 273 50 4 1.50 1.25 1.27 0.94 1.23 1.40 1.74	14 18 86 246 -5697 3800 435 605 8 8 13 74 385 108 5 1.62 1.37 1.16 1.23 0.95 1.07 1.41 1.19	29 32 51 74 3800 -9224 1981 2355 570 234 43 222 252 252 6 1.80 1.99 1.38 1.47 1.07 0.98 1.09	6 9 28 435 1981 -4069 954 470 125 13 18 52 4 30 7 1.83 1.96 1.62 1.40 1.41 1.05 0.97 1.03	33 42 136 605 2355 954 -7616 2029 728 355 203 182 12 60 8 1.44 1.91 1.36 1.74 1.19 1.09	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163 9 1.75 2.35 1.99 2.38 1.31 1.21 1.08	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188 10 1.71 2.28 1.87 2.53 1.40 1.27 1.22	7 7 7 20 4 8 34 13 355 454 117 -1614 386 213 3 7 11 129 246 191 2.63 1.21 1.23 1.24 1.20	43 24 14 4 13 203 844 1001 386 -4226 1687 8 63 12 2.02 2.31 2.01 2.61 1.34 1.26 1.28	1151 109 170 103 74 222 52 182 173 213 213 213 214498 464 139308	16 64 32 273 385 52 4 12 11 1 2 6 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426 Total 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Factor 1 2 3 4 5 6 6 7 8 9 9	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 16 145 tor 1 0.97 1.30 1.23 1.50 1.62 1.80 1.83 1.44 1.75	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 20 14 170 32 19 3 1.15 0.86 1.15 0.86 1.15 0.86 1.15 0.86 1.15 0.86 1.15 1	390 1415 1949 -4486 246 74 4 42 13 17 4 103 273 50 4 1.50 1.25 1.27 0.94 1.23 1.47 1.47 1.47 1.47 1.47 1.47 1.47 1.47	14 18 86 246 -5697 3800 433 605 83 36 8 8 13 74 385 108 5 1.62 1.37 1.12 0.95 1.07 1.41 1.19 1.31	29 32 51 74 3800 -9224 1981 2355 5770 234 34 43 222 52 252 252 1.80 1.99 1.38 1.47 1.07 0.98 1.09 1.09	6 9 28 4 433 1981 -4069 954 470 125 13 18 52 4 30 7 1.83 1.96 1.62 1.40 1.41 1.05 0.97 1.03	33 42 136 42 605 2355 954 -7616 2029 728 355 203 182 12 60 8 1.44 1.91 1.34 1.19 1.09 1.09	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163 9 1.75 2.35 1.99 2.98 1.31 1.24 1.21 1.08	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188 10 1.71 2.28 1.87 2.18 1.27 1.40 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28	7 7 7 20 4 8 34 13 355 454 117 -1614 386 213 3 7	43 24 14 4 13 43 18 203 844 1001 386 -4226 1687 8 63	1151 109 170 103 74 222 52 182 170 213 213 1687 134498 464 139308	16 64 32 273 385 52 4 12 11 1 2 3 8 464 2622 3946 1.51 1.55 1.55 1.55 1.75	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426 Total 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 165 145 145 150 1.30 1.23 1.50 1.62 1.83 1.44	745 -2806 385 1415 188 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 136 53 22 20 14 170 32 19 3 1.23 1.15 0.86 1.27 1.16 1.36 1.23 1.15 1.26 1.27 1.16 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.28 1.29	390 1415 1949 -4486 246 74 4 4 21 33 50 273 50 4 1.50 1.25 1.27 0.94 1.23 1.40 1.74	14 18 86 246 -5697 3800 435 605 8 8 13 74 385 108 5 1.62 1.37 1.16 1.23 0.95 1.07 1.41 1.19	29 32 51 74 3800 -9224 1981 2355 570 234 43 222 252 252 6 1.80 1.99 1.38 1.47 1.07 0.98 1.09	6 9 28 435 1981 -4069 954 470 125 13 18 52 4 30 7 1.83 1.96 1.62 1.40 1.41 1.05 0.97 1.03	33 42 136 605 2355 954 -7616 2029 728 355 203 182 12 60 8 1.44 1.91 1.36 1.74 1.19 1.09	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163 9 1.75 2.35 1.99 2.38 1.31 1.21 1.08	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188 10 1.71 2.28 1.87 2.53 1.40 1.27 1.22	7 7 7 20 4 8 34 13 355 454 117 -1614 386 213 3 7 11 129 246 191 2.63 1.21 1.23 1.24 1.20	43 24 14 4 13 203 844 1001 386 -4226 1687 8 63 12 2.02 2.31 2.01 2.61 1.34 1.26 1.28	1151 109 170 103 74 222 52 182 173 213 213 213 214498 464 139308	16 64 32 273 385 52 4 12 11 1 2 6 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426 Total 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac Growth Fac 1 2 3 4 5 6 7 7 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 16 145 tor 1 0.97 1.30 1.23 1.50 1.80 1.83 1.44 1.75 1.71	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 3465 1949 86 51 28 136 53 28 20 14 170 32 19 123 1.15 0.86 1.27 1.16 1.38 1.62 1.39 1.99 1.87	390 1415 1949 -4486 246 74 4 4 4 103 273 50 1.50 1.25 1.27 0.94 1.47 1.40 1.74 1.40 1.74 1.40 1.74 1.40 1.74 1.40 1.74 1.40 1.74 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.4	14 18 86 246 -5697 3800 433 605 83 36 8 13 74 385 108 5 1.62 1.37 1.16 1.23 0.95 1.07 1.41 1.19 1.31 1.40	29 32 51 74 3800 -9224 1981 2355 5700 234 34 43 222 252 252 252 1.80 1.79 1.39 1.47 1.07 0.98 1.05 1.09 1.05	6 9 28 4 433 1981 -4069 954 470 125 13 18 522 4 30 7 1.83 1.96 1.62 1.41 1.05 0.97 1.03	33 42 136 42 605 2355 954 -7616 2029 728 3555 203 182 60 8 1.44 1.91 1.36 1.76 1.09 1.03 0.96 1.03	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163 -9 1.75 2.35 1.99 2.35 1.31 1.24 1.21 1.09 6	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188 10 1.71 2.28 1.87 2.57 2.140 1.28 1.27 1.28 1.27	7 7 7 20 4 8 34 13 355 454 117 -1614 386 213 3 7 11 129 2.46 1.91 2.63 1.21 1.23 1.24 1.20 1.09 1.23	43 24 14 4 13 43 18 203 844 1001 386 -4226 1687 8 63 12 2.02 2.31 2.01 2.61 1.34 1.27 1.26 1.28	1151 109 170 103 74 222 52 182 170 213 213 1687 134498 464 139308 1.15 1.60 1.45 1.45 1.40 1.45 1.45 1.45	16 64 32 273 385 52 4 12 11 11 12 3 3 8 464 2622 3946 14 1.51 1.24 1.26 1.19 1.15 1.55 1.59 1.57 1.75 1.79	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-2848 745 532 390 14 29 6 33 12 14 7 43 1151 16 145 tor 1 0.97 1.30 1.50 1.62 1.80 1.83 1.75 1.71 1.29 2.02 1.15	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 20 14 170 32 19 3 1.15 0.86 1.27 1.16 1.38 1.62 1.38 1.62 1.39 1.87 1.99 1.87 1.99 1.45	390 1415 1949 -4486 246 74 4 4 213 17 4 4 103 273 50 125 127 0.94 1.23 1.47 1.40 1.74 2.38 2.53 2.61 1.81	14 18 86 246 -5697 3800 433 605 83 36 8 8 13 74 385 108 5 1.62 1.37 1.16 1.23 0.95 1.07 1.41 1.19 1.40 1.21 1.34 1.40	29 32 51 74 3800 -9224 1981 2355 570 234 34 43 222 52 252 252 6 1.80 1.99 1.38 1.47 1.07 0.98 1.07 1.09 1.24 1.28 1.28 1.29 1.24 1.28 1.28 1.29 1.28 1.2	6 9 28 4 433 1981 -4069 954 470 125 13 18 52 4 30 7 1.83 1.96 1.62 1.40 1.41 1.05 0.97 1.27 1.27 1.24 1.24	33 42 136 42 605 2355 954 -7616 2029 728 355 203 182 12 60 8 1.44 1.91 1.34 1.19 1.09 1.03 0.96 1.08	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163 9 1.75 2.35 1.99 2.98 1.31 1.24 1.10 1.08 0.96 1.02 1.02 1.02 1.03	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188 10 1.71 2.28 1.87 1.40 1.28 1.27 1.20 1.28 1.29 1.20 1.	7 7 7 20 4 8 34 13 355 454 117 -1614 386 213 3 7 11 129 2.46 1.91 1.23 1.24 1.20 1.09 1.23 0.90 1.15 1.35	43 24 14 4 13 43 18 203 844 1001 386 -4226 1587 8 63 12 2.02 2.31 2.01 1.34 1.27 1.28 1.20 1.13 1.13 1.13 1.13 1.13 1.13 1.13 1.1	1151 109 170 103 74 222 52 182 170 213 213 1687 134498 464 139308 13 1.15 1.60 1.45	16 64 32 273 385 52 4 112 11 1 2 3 3 8 464 2622 3946 1.51 1.55 1.59 1.59 1.99 1.90 1.84 1.67	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 Total	-2848 745 532 390 144 29 6 33 122 144 7 43 1151 6 145 145 150 1.30 1.60 1.80 1.83 1.44 1.75 1.75 1.29 2.02	745 -2806 385 1415 18 32 9 42 29 15 7 24 109 64 86	332 385 -3465 1949 86 51 28 136 53 28 20 14 170 32 19 123 1.15 0.86 1.27 1.15 0.86 1.27 1.16 1.38 1.62 1.36 1.99	390 1415 1949 -4486 246 74 4 4 22 13 317 4 4 4 103 273 50 4 1.50 1.25 1.27 0.94 1.23 1.47 1.40 1.74 2.38 2.53 2.63 2.65 2.65	14 18 86 246 -5697 3800 435 605 83 33 66 8 13 74 385 108 5 1.62 1.37 1.16 1.23 0.95 1.07 1.41 1.19 1.31 1.41 1.21 1.	29 32 51 74 3800 -9224 1981 2355 570 234 43 222 252 252 6 1.80 1.59 1.38 1.47 1.09 1.09 1.09 1.24 1.24 1.24 1.24 1.24 1.25	6 9 28 4 433 1981 -4069 934 470 123 13 18 52 4 30 7 1.83 1.96 1.62 1.40 1.41 1.03 0.97 1.03 1.21 1.24	33 42 136 605 2355 954 -7616 2029 728 355 203 182 12 60 8 1.44 1.91 1.36 1.74 1.19 1.09 1.03 0.96 1.08	12 29 53 13 83 570 470 2029 -5608 1034 454 844 170 11 163 9 1.75 2.35 1.99 2.38 1.31 1.24 1.21 1.08 0.96 1.02 1.09 1.09	14 15 28 17 36 234 125 728 1034 -3377 117 1001 213 2 188 10 171 2.28 1.87 2.53 1.40 1.22 1.02 0.94 1.27 1.22 1.02 0.94 1.23 1.24 1.25 1.2	7 7 7 20 4 8 34 13 353 454 117 -1614 386 213 3 7 11 129 246 191 2.63 121 123 124 120 1.09 123 0.90 1.15	43 24 14 4 13 18 203 844 1001 386 4226 1687 8 63 12 2.02 2.31 2.01 2.61 1.34 1.27 1.26 1.28 1.20 1.28 1.20 1.28 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	1151 109 170 103 74 222 52 182 173 213 213 213 213 1687 13498 464 139308	16 64 32 273 385 52 4 12 111 2 3 8 4 664 2 6522 3946 1.51 1.55 1.59 1.52 1.73 1.99 1.90 1.84	145 86 19 50 108 252 30 60 163 188 7 63 139308 3946 144426 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0



Reference (Case - 2051 - 1	<u>·UC3</u> 2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	97953	1465	1867	516	49	69	16	110	39	16	54	46	4650	75	106927
2	1426	77396	1916	3258	47	87	15	67	47	19	22	27	123	185	84636
3 4	1819 604	1925 3429	32552 3388	3321 81174	264 727	105 199	28 19	288 44	118 38	47 10	96 12	44 12	378 57	168 1621	41153 91333
5	50	44	252	686	138549	49979	552	2355	154	59	83	62	368	4130	197322
6	73	89	107	224	48082	514223	44512	20434	1963	493	155	246	1051	402	632054
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8	118	70	290	56	2361	21540	25217	159979	19064	1896	1350	459	539	91	233029
9 10	40 19	41 18	120 53	41 11	128 62	1893 513	1328 251	18804 1920	151592 46476	44993 173934	3257 233	3010 7482	1058 592	55 32	226360 231595
11	61	23	97	9	62	131	58	1324	3162	266	23023	1822	287	24	30349
12	48	24	44	13	67	245	102	411	3408	9102	1540	74560	16673	29	106268
13	5753	141	496	83	441	1211	281	648	595	435	376		45728290	702	45754740
14 Total	108026	147 84828	132 41346	1895 91304	5636 197009	634470	192946	230827	228035	231526	30274	102197	184	4050149	4058664 51985968
Total	100020	04020	41340	91304	15/005	634470	132340	230027	220033	231526	30274	103167	+3/3440/	4037702	31303300
DS - 2051 -															
.1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1 2	94141 2132	2175 74416	2728 2511	916 4431	108 91	162 178	37 36	206 165	79 124	34 50	87 60	109 73	6831 292	133 284	107746 84843
3	2621	2487	28857	5242	426	223	78	543	299	121	194	109	698	254	42151
4	1059	4676	5467	74458	1060	353	31	94	108	30	34	37	133	2300	89841
5	110	86	408	994	131675	55935	964	3208	241	104	126	103	656	5238	199847
6	173	183	230	393	54409	492940	47857	24546	2932	776	236	399	1918	782	627773
7 8	43 221	40 173	96 567	32 112	943 3227	47326 25319	113296 26587	25967 150850	1913 21782	347 2776	69 1910	160 687	441 961	70 164	190743 235336
9	82	111	321	113	204	2795	1901	21550	142084	46856	3930	4252	1619	118	225938
10	39	49	139	32	110	812	393	2861	48594	166595	361	9375	1019	72	230450
11	100	59	210	26	97	200	84	1873	3707	393	20912	2374	507	52	30594
12	114	65	112	37	109	386	156	605	4636	10998	1983	67322	21908	64	108497
13	8489	325	929	181	770	2138	502	1121	1008	772	644		15762119	1268	45801003
14 Total	109406	223 85068	203 42777	2571 89539	6752 199979	449 629218	191984	233704	137 227645	72 229924	30599	105799 4	373 45799473	4051039	4062192 52036953
Difference							_								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-3812	710	860	400	59	93	22	96	40	18	32	62	2181	58	819
1 2	-3812 705	710 -2980	860 596	400 1173	59 43	93 91	22 21	96 98	40 77	18 31	32 37	62 46	2181 170	58 99	819 207
1 2 3 4 5	-3812 705 802 455 60	710 -2980 562 1248 42	860 596 -3695 2079 156	400 1173 1921 -6715 308	59 43 162 334 -6873	93 91 117 154 5956	22 21 50 12 412	96 98 255 50 853	40 77 180 70 87	18 31 74 20 45	32 37 98 22 43	62 46 66 25 41	2181 170 320 76 287	58 99 86 679 1108	819 207 998 -1492 2525
1 2 3 4 5	-3812 705 802 435 60 100	710 -2980 562 1248 42 94	860 596 -3695 2079 156 123	400 1173 1921 -6715 308 169	59 43 162 334 -6873 6327	93 91 117 154 5956 -21283	22 21 50 12 412 3345	96 98 255 50 853 4112	40 77 180 70 87 968	18 31 74 20 45 282	32 37 98 22 43 80	62 46 66 25 41 153	2181 170 320 76 287 867	58 99 86 679 1108 380	819 207 998 -1492 2525 -4282
1 2 3 4 5 6	-3812 705 802 435 60 100 25	710 -2980 562 1248 42 94 24	860 596 -3695 2079 156 123 62	400 1173 1921 -6715 308 169	59 43 162 334 -6873 6327 407	93 91 117 154 5956 -21283 3280	22 21 50 12 412 3345 -7239	96 98 255 50 853 4112 1585	40 77 180 70 87 968 602	18 31 74 20 45 282 125	32 37 98 22 43 80 24	62 46 66 25 41 153	2181 170 320 76 287 867 204	58 99 86 679 1108 380 32	819 207 998 -1492 2525 -4282 -797
1 2 3 4 5	-3812 705 802 435 60 100	710 -2980 562 1248 42 94	860 596 -3695 2079 156 123	400 1173 1921 -6715 308 169	59 43 162 334 -6873 6327	93 91 117 154 5956 -21283	22 21 50 12 412 3345	96 98 255 50 853 4112	40 77 180 70 87 968	18 31 74 20 45 282	32 37 98 22 43 80	62 46 66 25 41 153	2181 170 320 76 287 867	58 99 86 679 1108 380	819 207 998 -1492 2525 -4282
1 2 3 4 5 6 7 8	-3812 705 802 435 60 100 25 103	710 -2980 562 1248 42 94 24 103	360 596 -3695 2079 156 123 62 277	400 1173 1921 -6715 308 169 13	59 43 162 334 -6873 6327 407 866	93 91 117 154 5956 -21283 3280 3779	22 21 50 12 412 3345 -7239 1371	96 98 255 50 853 4112 1585 -9129	40 77 180 70 87 968 602 2718	18 31 74 20 45 282 125	32 37 98 22 43 80 24	62 46 66 25 41 153 59 229	2181 170 320 76 287 867 204 422	58 99 86 679 1108 380 32 72	819 207 998 -1492 2525 -4282 -797 2307
1 2 3 4 5 6 7 8 9	-3812 705 802 455 60 100 25 103 42 20 39	710 -2980 562 1248 42 94 24 103 70 31 37	860 596 -3695 2079 156 123 62 277 201 86 112	400 1173 1921 -6715 308 169 13 56 72 21	59 43 162 334 -6873 6327 407 866 76 48 35	93 91 117 154 5956 -21283 3280 3779 902 299 69	22 21 50 12 412 3345 -7239 1371 574 142 26	96 98 255 50 853 4112 1585 -9129 2747 941 549	40 77 180 70 87 968 602 2718 -9508 2119 345	18 31 74 20 45 282 125 880 1863 -7339	32 37 98 22 43 80 24 560 673 128	62 46 66 25 41 153 59 229 1242 1893 552	2181 170 320 76 287 867 204 422 562 427 219	58 99 86 679 1108 380 32 72 62 40 28	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245
1 2 3 4 5 6 7 8 9 10 11 12	-3812 703 802 433 60 100 25 103 42 20 39 66	710 -2980 562 1248 42 94 24 103 70 31 37 41	860 596 -3695 2079 156 123 62 277 201 86 112 69	400 1173 1921 -6715 308 169 13 36 72 21 17 25	59 43 162 334 -6873 6327 407 866 76 48 35 42	93 91 117 154 5956 -21283 3280 3779 902 299 69	22 21 50 12 412 3345 -7239 1371 574 142 26	96 98 255 50 853 4112 1585 -9129 2747 941 549 194	40 77 180 70 87 968 602 2718 -9508 2119 545 1228	18 31 74 20 45 282 125 880 1863 -7339 127	32 37 98 22 43 80 24 560 673 128 -2112	62 46 66 25 41 153 59 229 1242 1893 552	2181 170 320 76 287 867 204 422 562 427 219	58 99 86 679 1108 380 32 72 62 40 28 36	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245
1 2 3 4 5 6 7 8 9 10 11 12 13	-3812 705 802 455 60 100 25 103 42 20 39 66 2736	710 -2980 562 1248 42 94 24 103 70 31 37 41	860 596 -3695 2079 156 123 62 277 201 86 112 69 433	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98	59 43 162 334 -6873 6327 407 866 76 48 35 42 329	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928	22 21 50 12 412 3345 -7239 1371 574 142 26 54 221	96 98 255 50 853 4112 1585 -9129 2747 941 549 194 474	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337	32 37 98 22 43 80 24 560 673 128 -2112 442 267	62 46 66 25 41 153 59 229 1242 1893 552 -7239	2181 170 320 76 287 867 204 422 562 427 219 5234 33828	58 99 86 679 1108 380 32 72 62 40 28 36	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263
1 2 3 4 5 6 7 8 9 10 11 12	-3812 703 802 433 60 100 25 103 42 20 39 66	710 -2980 562 1248 42 94 24 103 70 31 37 41	860 596 -3695 2079 156 123 62 277 201 86 112 69	400 1173 1921 -6715 308 169 13 36 72 21 17 25	59 43 162 334 -6873 6327 407 866 76 48 35 42	93 91 117 154 5956 -21283 3280 3779 902 299 69	22 21 50 12 412 3345 -7239 1371 574 142 26	96 98 255 50 853 4112 1585 -9129 2747 941 549 194	40 77 180 70 87 968 602 2718 -9508 2119 545 1228	18 31 74 20 45 282 125 880 1863 -7339 127	32 37 98 22 43 80 24 560 673 128 -2112	62 46 66 25 41 153 59 229 1242 1893 552	2181 170 320 76 287 867 204 422 562 427 219	58 99 86 679 1108 380 32 72 62 40 28 36	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	78812 705 802 455 600 100 25 103 42 20 39 66 273 88 1380	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76	860 596 -3695 2079 136 123 62 277 201 86 112 69 433 71	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98	59 43 162 334 -6873 6327 407 866 76 48 35 42 329	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222	22 21 50 12 412 3345 -7239 1371 574 142 26 54 221	96 98 255 50 853 4112 1585 -9129 2747 941 549 194 474 52	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39	32 37 98 22 43 80 24 560 673 128 -2112 442 267	62 46 66 25 41 133 59 229 1242 1893 552 -7239 3450 34	2181 170 320 76 287 867 204 422 562 427 219 5234 33828 189	58 99 86 679 1108 380 32 72 62 40 28 36 566 890	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529
1 2 3 4 5 6 7 8 9 10 11 12 13	-3812 705 802 455 60 100 25 103 42 20 39 66 2736 38 1380	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240	860 596 -3695 2079 135 62 277 201 86 112 69 433 71 1431	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 33 42 329 1116 2970	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222 -5253	22 21 50 412 412 3345 -7239 1371 574 142 26 54 221 27	96 98 255 50 853 4112 1585 -9129 2747 941 549 194 474 52 2877	40 77 180 70 87 968 602 2718 -958 2119 545 1228 413 70 -389	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29	62 46 66 25 41 133 59 229 1242 1893 552 -7239 5450 34 2612	2181 170 320 76 287 204 422 562 427 219 5234 33828 189 44987	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3812 705 802 455 600 100 25 103 42 20 39 66 2736 38 1380	710 -2980 562 1248 42 94 103 70 31 37 41 184 76 240	860 596 -3695 2079 136 123 62 277 201 86 112 69 433 71 1431	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 33 42 329 1116 2970	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222 -5253	22 21 50 12 412 3345 -7239 1371 574 142 26 54 221 27 -962	96 98 255 30 853 4112 1585 -9129 2747 941 549 194 474 52 2877	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389	18 31 74 20 45 282 125 880 1863 -7339 127 1893 337 39 -1602	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29 325	62 46 66 23 41 133 59 229 1242 1893 552 -7239 5450 34 2612	2181 170 320 76 287 867 204 422 562 427 219 5234 33828 189 44987	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-3812 705 802 455 60 100 25 103 42 20 39 66 2736 38 1380	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240	860 596 -3695 2079 135 62 277 201 86 112 69 433 71 1431	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 33 42 329 1116 2970	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222 -5253	22 21 50 412 412 3345 -7239 1371 574 142 26 54 221 27	96 98 255 50 853 4112 1585 -9129 2747 941 549 194 474 52 2877	40 77 180 70 87 968 602 2718 -958 2119 545 1228 413 70 -389	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29	62 46 66 25 41 133 59 229 1242 1893 552 -7239 5450 34 2612	2181 170 320 76 287 204 422 562 427 219 5234 33828 189 44987	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	78812 705 802 455 600 100 25 103 42 20 39 66 2736 38 1380	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240	860 596 -3695 2079 136 123 62 277 201 86 112 69 433 71 1431	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970	93 91 117 154 5956 -21283 3280 3779 9002 299 69 141 928 222 -5253	22 21 50 12 412 3345 -7239 1371 574 142 26 54 221 27 -962	96 98 225 50 50 833 4112 1585 -9129 2747 941 549 194 474 474 52 2877	40 77 180 70 87 968 602 2718 -9508 2119 345 1228 413 70 -389	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29 325	62 46 66 25 41 153 59 229 1242 1893 552 -7239 5450 34 2612	2181 170 320 76 287 867 204 422 562 427 219 5234 33828 189 44987	58 99 86 679 1108 380 32 72 62 40 28 366 890 4136	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac	-3812 705 802 455 60 100 25 103 42 20 39 66 2736 38 1380 ttor 1 0.96 1.49 1.44 1.75	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240 2 1.48 0.96 1.29 1.36	860 596 -3695 2079 135 62 277 201 86 112 69 433 71 1431 3 1.46 1.31 0.89 1.61	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 33 42 329 1116 2970 5 2.20 1.92 1.62	93 91 117 15956 -21283 3280 3779 902 299 141 928 222 -5253 6 2.34 2.01 1.77	22 21 50 12 412 3345 -7239 1371 574 142 26 54 221 27 -962	96 98 255 50 853 4112 1585 -9129 2747 941 549 194 474 52 2877 8 1.87 2.47 1.89 2.14	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29 325	62 46 66 25 41 133 59 229 1242 1893 552 -7239 5450 34 2612	2181 170 320 76 287 204 422 562 427 219 5234 33828 189 44987	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 45263 3529 50986 Total 1.001 1.002 0.98
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 Total Growth Fac	-3812 705 802 455 600 1000 25 103 42 20 39 65 2736 38 1380 tor 1 0.96 1.49 1.49 1.47 2.20	710 -2980 562 1248 42 94 24 103 37 41 184 76 240 2 1.48 0.96 1.29 1.36 1.94	860 596 -3695 2079 136 123 62 277 201 86 112 69 433 71 1431 3 1.46 1.31 0.89 1.61 1.62	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.46 0.95	93 91 117 154 5956 -21283 3280 3779 9002 299 69 141 928 222 -5253 6 2.34 2.04 2.11 1.77 1.12	22 21 50 12 412 3345 -7239 1371 574 142 26 54 221 27 -962 7 2.38 2.48 2.77 1.67	96 98 255 503 4112 1585 -9129 2747 941 549 194 474 52 2877 8 1.87 2.47 1.87 2.47 1.36	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29 325 11 1.60 2.65 2.02 2.88 1.52	62 46 66 25 41 153 59 1242 1893 552 -7239 5450 34 2612	2181 170 320 76 287 867 204 422 562 427 219 5234 33824 189 44987	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136 14 1.78 1.54 1.14 1.12	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 50986 Total 1.01 1.00 1.00 1.00 0.98 1.01
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Growth Fac	-3812 705 802 435 600 100 25 103 42 20 39 66 2736 38 1380 ttor 1 0.96 1.49 1.44 1.75 2.20 2.36	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240 2 1.48 0.96 1.29 1.39 1.39 1.39 1.40	860 596 -3695 2079 136 123 62 277 201 86 112 69 433 71 1431 3 1.46 1.31 0.89 1.62 2.15	400 1173 1921 -6715 308 169 13 56 72 21 17 25 9 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.62 1.62 1.09 1.13	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222 -5253 6 2.34 2.04 2.11 1.17 0.96	22 21 50 12 412 3345 -7239 1371 574 142 26 54 227 -962 7 2.38 2.48 2.77 1.75 1.08	96 98 255 50 833 4112 1585 -9129 2747 941 549 194 452 2877 8 1.87 2.47 1.89 2.14 1.36 1.20	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 -1602 10 2.07 2.61 2.56 2.96 2.96 2.75 1.57	32 37 98 22 43 80 24 360 673 128 -2112 442 267 29 325 11 160 2.65 2.02 2.88 1.52 1.52	62 46 66 25 41 153 59 229 1242 1893 552 -7239 5450 34 2612	2181 170 320 76 287 204 422 562 427 219 5234 33828 44987 13 1.47 2.38 1.85 2.33 1.78 1.83	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986 Total 1.01 1.00 1.02 0.99
1 2 3 4 5 6 7 8 9 100 111 122 13 14 Total	-3812 705 802 435 600 100 25 103 42 20 39 66 2736 38 1380 tter 1 0.96 1.49 1.44 1.75 2.20 2.36 2.38	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240 2 1,48 0,96 1,29 1,36 1,29 1,36 1,29 1,36 1,29 1,36	860 596 -3695 2079 123 62 277 201 86 112 69 433 71 1431 3 1.46 1.31 0.89 1.61 1.62 2.15 2.83	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.62 1.46 0.95 1.13	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222 -5253 6 6 2.34 2.04 2.11 1.77 1.12 0.96 1.07	22 21 50 12 412 3345 -7239 1371 574 142 26 54 227 -962 7 2.38 2.48 2.77 1.67 1.08 0.94	96 98 235 50 833 4112 1585 -9129 2747 941 549 194 474 52 2877 8 8 1.87 2.47 1.89 2.14 1.30 1.20	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389 9 2.02 2.63 2.52 2.86 1.57 1.49	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 -1602 10 2.07 2.61 2.94 1.75 1.57	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29 325 11 1.60 2.65 2.02 2.88 1.52 1.52	62 46 66 25 41 153 59 1242 1893 552 -7239 5450 34 2612 12 2.33 2.68 2.50 3.09 1.62 1.58	2181 170 320 76 287 867 204 422 562 427 219 5234 33828 189 44987 13 1.47 2.38 1.85 2.33 1.85 1.83 1.85	58 99 86 679 1108 380 32 72 62 40 28 366 590 4136 1.78 1.54 1.51 1.42 1.21 1.42 1.21	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986 Total 1.01 1.00 1.02 0.98 1.01 0.99
1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total Growth Fac	-3812 705 802 435 600 100 25 103 42 20 39 66 2736 38 1380 ttor 1 0.96 1.49 1.44 1.75 2.20 2.36	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240 2 1.48 0.96 1.29 1.39 1.39 1.49 2.41	860 596 -3695 2079 136 123 62 277 201 86 112 69 433 71 1431 3 1.46 1.31 0.89 1.62 2.15	400 1173 1921 -6715 308 169 13 56 72 21 17 25 9 676 -1765	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.62 1.62 1.09 1.13	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222 -5253 6 2.34 2.04 2.11 1.17 0.96	22 21 50 12 412 3345 -7239 1371 574 142 26 54 227 -962 7 2.38 2.48 2.77 1.75 1.08	96 98 255 50 833 4112 1585 -9129 2747 941 549 194 452 2877 8 1.87 2.47 1.89 2.14 1.36 1.20	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 -1602 10 2.07 2.61 2.56 2.96 2.96 2.75 1.57	32 37 98 22 43 80 24 360 673 128 -2112 442 267 29 325 11 160 2.65 2.02 2.88 1.52 1.52	62 46 66 25 41 153 59 229 1242 1893 552 -7239 5450 34 2612	2181 170 320 76 287 204 422 562 427 219 5234 33828 44987 13 1.47 2.38 1.85 2.33 1.78 1.83	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986 Total 1.01 1.00 1.02 0.99
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Scrowth Fac	-3812 705 802 455 60 100 25 103 42 20 39 65 2736 1380 20 149 1.44 1.75 2.20 2.38 1.87	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240 2 1.48 0.96 1.29 1.36 1.94 2.06 2.54 2.48	860 596 -3695 2079 176 123 62 277 201 86 112 69 433 71 1431 3 1.46 1.31 0.89 1.61 1.62 2.13 1.96	400 1173 1921 -6715 308 169 13 56 72 21 11 7 25 98 676 -1765 1.78 1.36 1.58 0.92 1.45 1.78 1.67 2.01	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.46 0.95 1.13 1.76 1.37	93 91 117 154 5956 -21283 3280 3779 902 299 141 928 222 -5253 6 6 2.34 2.04 2.11 1.77 1.12 0.96 1.07	22 21 50 12 412 3345 -7239 1371 574 142 26 54 221 27 -962 7 7 2.38 2.48 2.77 1.67 1.75 1.09 4 1.05	96 98 255 50 853 4112 1585 -9129 2747 941 549 194 474 52 2877 8 1.87 2.47 1.89 2.14 1.36 1.20 1.00	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389 9 2.02 2.63 2.52 2.86 1.57 1.49	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602 10 2.07 2.61 2.56 2.94 1.75 1.57 1.46	32 37 98 22 43 80 24 560 67 67 29 325 11 1.60 2.65 2.02 2.88 1.52 1.52 1.52 1.52 1.52	62 46 66 25 41 153 59 1242 1893 552 -7239 3450 34 2612 12 2.35 2.68 2.50 3.09 1.67 1.62 1.58	2181 170 320 76 287 204 422 562 427 219 5234 33828 44987 13 1.47 2.38 1.85 2.33 1.78 1.86 1.78	58 99 86 679 1108 380 32 72 62 40 28 36 566 560 4136 14 1.74 1.74 1.54 1.54 1.54 1.42 1.27	819 207 998 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986 Total 1.00 1.02 0.98 1.01 0.99
1 2 3 4 5 6 7 8 9 100 11 12 13 14 Total	-3812 705 802 435 600 100 25 103 42 20 39 66 2736 38 1380 149 1.44 1.75 2.20 2.36 2.38 1.87 2.04 2.09 1.65	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240 2 1.48 0.96 1.29 1.36 1.94 2.06 2.54 2.48 2.49 2.40	860 596 -3695 2079 136 123 62 277 201 86 112 69 433 71 1431 0.89 1.61 1.62 2.13 2.83 1.96 2.67 2.63 2.16	400 1173 1921 -6715 308 169 13 56 722 21 17 25 9676 -1765 4 1.78 1.36 1.58 0.92 1.45 1.75 1.67 2.01 2.75 2.01 2.75 2.01 2.01 2.01 2.01 2.01 2.01 2.01 2.01	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.62 1.46 0.95 1.13 1.76 1.37 1.57	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222 -5253 6 2.34 2.04 2.11 1.77 1.12 0.96 1.07 1.18 1.48 1.58 1	22 21 50 12 412 3345 -7239 1371 574 226 54 227 -962 7 2.38 2.48 2.77 1.75 1.08 0.94 1.05 1.37	96 98 235 50 833 4112 1385 -9129 2747 941 549 194 474 72 2877 8 1.87 2.47 1.89 2.14 1.36 1.20 1.07 0.94 1.14 1.14 1.15	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389 9 2.02 2.63 2.52 2.86 1.57 1.49 1.46 1.14 0.95 1.17	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 -1602 10 2.07 2.61 2.96 2.96 2.97 1.57 1.57 1.46 1.04 0.96 1.48	32 37 98 22 43 80 24 360 673 128 -2112 442 267 29 325 11 1.60 2.65 2.02 2.88 1.52 1.52 1.52 1.52 1.52 1.51 1.52 1.53	62 46 66 25 41 153 59 1242 1893 552 -7239 5450 34 2612 12 2.35 2.68 2.50 3.09 1.67 1.62 1.58 1.50 1.41	2181 170 320 76 287 204 422 562 427 219 5234 33828 44987 13 1.47 2.38 1.85 2.33 1.78 1.83 1.78 1.72 1.75	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136 1.78 1.54 1.51 1.42 1.27 1.94 1.84 1.79 2.13 2.24 2.20	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 45263 3529 50986 Total 1.01 1.00 1.02 0.98 1.01 1.00 1.02
1 2 3 4 5 6 7 8 9 10 11 2 2 3 4 4 5 6 7 8 9 10 11 12 13 14 Total	-3812 705 802 455 600 100 25 103 42 20 39 66 2736 38 1380 149 1.44 1.75 2.20 2.36 2.38 1.87 2.04 2.04 2.04 2.05 2	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240 2 1.48 0.96 1.29 1.36 1.94 2.06 2.54 2.48 2.70 2.68 2.68	860 596 -3695 2079 123 62 277 201 86 112 69 433 71 1431 3 1.46 1.31 0.89 1.61 1.62 2.15 2.83 1.96 2.67 2.63 2.63 2.63 2.64 2.75 2.65 2.75 2.65 2.75	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765 4 1.78 1.36 1.58 0.92 1.47 2.16 1.78 1.36 1.58 0.92 1.47 1.78 1	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.62 1.46 0.95 1.13 1.76 1.37 1.59	93 91 117 154 5956 -21283 3280 3779 902 299 141 928 2222 -5253 6 6 2.34 2.04 2.11 1.77 1.12 0.96 1.07 1.18 1.48 1.53 1.57	22 21 50 12 412 3345 -7239 1371 574 142 26 54 227 -962 7 2.38 2.48 2.77 1.67 1.08 0.94 1.05 1.43 1.53	96 98 235 50 833 4112 1585 -9129 2747 941 549 194 474 52 2877 8 1.87 2.47 1.89 2.14 1.30 1.20 1.07 0.94 1.15 1.47	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389 2.02 2.63 2.52 2.86 1.57 1.49 1.46 1.14 0.94 1.09 1.17 1.36	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602 10 2.07 2.61 2.94 1.77 1.57 1.46 1.04 0.96 1.48 1.21	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29 325 11 1.60 2.65 2.02 2.88 1.52 1.52 1.41 1.21 1.50	62 46 66 25 41 153 59 229 1242 1893 552 -7239 5450 34 2612 12 2.35 2.68 2.50 3.09 1.67 1.62 1.58 1.50 1.41 1.23 1.24 1.24 1.25 1.25 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26	2181 170 320 76 287 204 422 562 427 219 5234 33828 1.47 2.38 1.85 2.33 1.78 1.85 1.85 1.83 1.78 1.7	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136 1.74 1.74 1.54 1.74 1.79 2.13 2.20 2.24	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986 Total 1.01 1.00 1.02 0.98 1.01 0.99 1.00 1.00 1.00 1.00 1.00 1.00
1 2 3 4 5 6 6 7 7 8 8 9 10 11 12 13 14 Total 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-3812 705 802 455 600 1000 25 103 42 20 39 66 2736 38 1380 ttor 1 0.96 1.49 1.49 1.47 2.20 2.36 2	710 -2980 562 1248 42 94 24 103 37 41 184 76 240 2 1.48 0.96 1.29 1.36 1.94 2.06 2.54 2.48 2.70 2.68 2.68 2.68 2.68 2.30	860 596 -3695 2079 136 123 62 277 201 86 112 86 112 143 1431 1431 3 1.46 1.31 0.89 1.62 2.15 2.83 2.15 2.63 2.16 2.63 2.16 2.63 2.16 2.63 2.63 2.74 2.75	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765 4 1.78 1.36 1.58 1.92 1.45 1.75 1.67 2.01 2	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.46 0.95 1.13 1.75 1.59 1.77 1.53	93 91 117 154 5956 -21283 3280 3779 902 299 69 141 928 222 -5253 6 2.34 2.04 2.11 1.17 1.12 0.96 1.07 1.18 1.38 1	22 21 50 12 412 3343 -7239 1371 574 142 26 54 221 27 -962 7 2.38 2.48 2.77 1.67 1.08 0.94 1.05 1.05 1.43 1.57 1.43 1.57 1.43 1.57 1.43 1.57 1.43 1.57 1.43 1.57 1.43 1.57 1.43 1.57 1.43 1.43 1.43 1.43 1.43 1.43 1.43 1.43	96 98 255 500 833 4112 1585 -9129 2747 941 549 194 474 52 2877 2.47 1.87 2.47 1.87 2.14 1.36 1.20 1.07 1.49 1.41 1.41 1.41 1.42 1.44 1.47 1.47	40 777 1800 779 968 602 2718 -9508 2119 545 1228 413 70 -389 2.02 2.63 2.52 6.157 1.49 1.46 1.05 1.14 1.05 1.14 1.05 1.14 1.05 1.14 1.05 1.14 1.05 1.14 1.05 1.14 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602 10 2.07 2.61 2.94 1.75 1.57 1.57 1.57 1.46 1.04 0.96 1.48 1.21 1.78	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29 325 11 1.60 2.65 2.05 2.05 2.05 2.152 1.52 1.52 1.52 1.53 1.55	62 46 66 25 41 153 59 1242 1893 532 -7239 5450 34 2612 12 2.35 2.68 2.50 9.1.67 1.62 1.35 1.30 0.90 0.91	2181 170 320 76 287 867 204 422 562 427 219 5234 33828 189 44987 13 1.47 2.38 1.85 1.78 1.83 1.78 1.85 1.78 1.53 1.78 1.53 1.72 1.72 1.73 1.73 1.73 1.73 1.74 1.75	38 99 86 679 1108 380 32 72 40 28 366 566 890 4136 1.78 1.54 1.71 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.42 1.27 1.94 1.78 1	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
1 2 3 4 5 6 7 8 9 10 11 2 2 3 4 4 5 6 7 8 9 10 11 12 13 14 Total	-3812 705 802 455 600 100 25 103 42 20 39 66 2736 38 1380 149 1.44 1.75 2.20 2.36 2.38 1.87 2.04 2.04 2.04 2.05 2	710 -2980 562 1248 42 94 24 103 70 31 37 41 184 76 240 2 1.48 0.96 1.29 1.36 1.94 2.06 2.54 2.48 2.70 2.68 2.68	860 596 -3695 2079 123 62 277 201 86 112 69 433 71 1431 3 1.46 1.31 0.89 1.61 1.62 2.15 2.83 1.96 2.67 2.63 2.63 2.63 2.64 2.75 2.65 2.75 2.65 2.75	400 1173 1921 -6715 308 169 13 56 72 21 17 25 98 676 -1765 4 1.78 1.36 1.58 0.92 1.47 2.16 1.78 1.36 1.58 0.92 1.47 1.78 1	59 43 162 334 -6873 6327 407 866 76 48 35 42 329 1116 2970 5 2.20 1.92 1.62 1.46 0.95 1.13 1.76 1.37 1.59	93 91 117 154 5956 -21283 3280 3779 902 299 141 928 2222 -5253 6 6 2.34 2.04 2.11 1.77 1.12 0.96 1.07 1.18 1.48 1.53 1.57	22 21 50 12 412 3345 -7239 1371 574 142 26 54 227 -962 7 2.38 2.48 2.77 1.67 1.08 0.94 1.05 1.43 1.53	96 98 235 50 833 4112 1585 -9129 2747 941 549 194 474 52 2877 8 1.87 2.47 1.89 2.14 1.30 1.20 1.07 0.94 1.15 1.47	40 77 180 70 87 968 602 2718 -9508 2119 545 1228 413 70 -389 2.02 2.63 2.52 2.86 1.57 1.49 1.46 1.14 0.94 1.09 1.17 1.36	18 31 74 20 45 282 125 880 1863 -7339 127 1896 337 39 -1602 10 2.07 2.61 2.94 1.77 1.57 1.46 1.04 0.96 1.48 1.21	32 37 98 22 43 80 24 560 673 128 -2112 442 267 29 325 11 1.60 2.65 2.02 2.88 1.52 1.52 1.41 1.21 1.50	62 46 66 25 41 153 59 229 1242 1893 552 -7239 5450 34 2612 12 2.35 2.68 2.50 3.09 1.67 1.62 1.58 1.50 1.41 1.23 1.24 1.24 1.25 1.25 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26	2181 170 320 76 287 204 422 562 427 219 5234 33828 1.47 2.38 1.85 2.33 1.78 1.85 1.85 1.83 1.78 1.7	58 99 86 679 1108 380 32 72 62 40 28 36 566 890 4136 1.74 1.74 1.54 1.74 1.79 2.13 2.20 2.24	819 207 988 -1492 2525 -4282 -797 2307 -422 -1145 245 2229 46263 3529 50986 Total 1.01 1.00 1.02 0.98 1.01 0.99 1.00 1.00 1.00 1.00 1.00 1.00



DM - 2029 -	<u>UC1</u> 1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	11168	1352	944	1171	75	96	19	161	58	26	90	84	5730	326	21300
2	1347	8142	1173	1496	105	155	19	97	55	30	27	36	1327	538	14546
3	977 1203	1179 1521	1841 497	534 7243	193 674	136 726	33 21	283 194	119 61	93 13	122	69 25	2646 1307	791 1695	9014 15207
5	76	101	199	729	14778	9024	512	1481	357	191	185	119	1352	2266	31369
6	98	162	140	755	9526	47313	5623	6394	2447	1198	584	524	4238	778	79783
7	20	20	36	21	563	5398	11249	2806	759	433	167	194	995	78	22740
8	186 54	110 50	333 110	206 58	1489 329	6140 2098	2702 675	15346 3452	3976 13682	1765 5199	742 481	609 973	4306 4074	200	38110 31341
10	24	27	91	13	197	1257	448	1600	4958	14507	298	1632	3947	107 57	29058
11	117	30	142	27	163	555	184	655	478	345	1647	397	1711	74	6526
12	85	34	66	24	121	514	199	590	1134	1952	386	4755	8160	49	18069
13 14	7608 571	1687 737	3686 1385	1956 2261	1686 3965	5402 1311	1296 116	5600 340	4232 189	4290 81	2563 144	9307 96	7432244 9991	9555 681990	7491114 703176
Total	23533	15152	10643	16494	33864	80126	23096	38998	32505	30123	7466	18819	7482030	698505	8511353
_															
DS - 2029 - I	_		_		_	_	_	_	_						
1	11155	1346	942	1167	75	99	20	164	62	10 27	91	12 89	13 5734	14 325	Total 21294
2	1337	8092	1170	1487	104	155	20	106	65	35	32	43	1361	534	14541
3	962	1164	1808	529	191	137	36	303	137	106	138	80	2695	782	9068
4	1198	1512	495	7208	672	725	21	201	70	14	34	30	1340	1686	15207
5	76 101	100 162	198 141	728 756	14778 9528	9024 47310	512 5623	1481 6393	357 2445	191 1197	185 583	118 523	1350 4233	2266 779	31364 79775
7	22	22	40	21	563	5398	11244	2806	758	432	167	193	994	78	22739
8	188	122	364	213	1488	6136	2700	15321	3967	1762	741	610	4298	204	38115
9	57	58	127	66	329	2095	674	3448	13664	5194	479	971	4068	114	31344
10 11	26 119	32 36	105 164	15 32	197 162	1256 550	448 182	1598 651	4954 474	14497 343	297 1639	1631 395	3943 1706	61 81	29059 6534
12	90	39	78	28	120	513	199	589	1131	1949	385	4748	8148	54	18072
13	7618	1730	3807	2011	1683	5393	1294	5590	4228	4284	2561	9295	7431863	9736	7491094
14	570	732	1396	2255	3963	1311	116	351	203	87	163	107	10192	681711	703156
Total	23516	15148	10835	16517	33854	80104	23089	39002	32515	30120	7494	18832	7481925	698411	8511363
Difference															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-14	-6	-2	-4	0	3	1	2	4	2	1	4	4	-1	-6
1 2	-14 -10	-6 -50	-2 -3	-4 -9	0 -1	3	1	2 10	4 10	2	1 5	4 7	4 33	-1 -4	-6 -6
1 2 3 4 5	-14 -10 -15 -5 0	-6 -50 -16 -9 0	-2 -3 -32 -2 -1	-4 -9 -5 -35	0 -1 -2 -1 -1	3 0 1 -1	1 1 3 0	2 10 20 6 0	4 10 18 10 0	2 5 13 2 0	1 5 15 6 0	4 7 11 5 0	4 33 49 33 -2	-1 -4 -8 -9	-6 -6 54 0 -5
1 2 3 4 5	-14 -10 -15 -5 0	-6 -50 -16 -9 0	-2 -3 -32 -2 -1 1	-4 -9 -5 -35 0	0 -1 -2 -1 -1	3 0 1 -1 0	1 3 0 0	2 10 20 6 0	4 10 18 10 0 -2	2 5 13 2 0 -1	1 5 15 6 0	4 7 11 5 0	4 33 49 33 -2 -5	-1 -4 -8 -9 0	-6 -6 54 0 -5
1 2 3 4 5 6	-14 -10 -15 -5 0	-6 -50 -16 -9 0	-2 -3 -32 -2 -1	-4 -9 -5 -35	0 -1 -2 -1 -1	3 0 1 -1	1 1 3 0	2 10 20 6 0	4 10 18 10 0	2 5 13 2 0	1 5 15 6 0	4 7 11 5 0	4 33 49 33 -2	-1 -4 -8 -9	-6 -6 54 0 -5 -7
1 2 3 4 5	-14 -10 -15 -5 0 3	-6 -50 -16 -9 0	-2 -3 -32 -2 -1 1	-4 -9 -5 -35 0 1	0 -1 -2 -1 -1 2	3 0 1 -1 0 -3	1 1 3 0 0 -1 -4	2 10 20 6 0 -1	4 10 18 10 0 -2 -1	2 5 13 2 0 -1	1 5 15 6 0 -1	4 7 11 5 0 -1	4 33 49 33 -2 -5	-1 -4 -8 -9 0 0	-6 -6 54 0 -5
1 2 3 4 5 6 7 8 9	-14 -10 -15 -5 0 3 1 2 3	-6 -50 -16 -9 0 0 1 12 8	-2 -3 -32 -2 -1 1 4 31 17	-4 -9 -5 -35 0 1 0 7	0 -1 -2 -1 -1 2 0 -1 0	3 0 1 -1 0 -3 -1 -3 -3 -3	1 3 0 0 -1 -4 -2 -1	2 10 20 6 0 -1 -1 -24 -4	4 10 18 10 0 -2 -1 -9 -17	2 5 13 2 0 -1 0 -4 -5	1 5 15 6 0 -1 0 -1 -2 -1	4 7 11 5 0 -1 0 1 -2	4 33 49 33 -2 -5 -1 -8 -6 -4	-1 -4 -8 -9 0 0 4 7	-6 -6 54 0 -5 -7 -2 4 4
1 2 3 4 5 6 7 8 9	-14 -10 -15 -5 0 3 1 2 3	-6 -50 -16 -9 0 0 1 12 8 4	-2 -3 -32 -2 -1 1 4 31 17 14 22	-4 -9 -5 -35 0 1 0 7 8 2	0 -1 -2 -1 -1 2 0 -1 0	3 0 1 -1 0 -3 -1 -3 -3 -1 -5	1 1 3 0 0 -1 -4 -2 -1 -1	2 10 20 6 0 -1 -1 -24 -4 -2	4 10 18 10 0 -2 -1 -9 -17 -4	2 5 13 2 0 -1 0 -4 -5 -10	1 5 15 6 0 -1 0 -1 -2 -1 -8	4 7 11 5 0 -1 0 1 -2 -1 -2	4 33 49 33 -2 -5 -1 -8 -6 -4	-1 -4 -8 -9 0 0 4 7 4	-6 -6 54 0 -5 -7 -2 4 4 1 8
1 2 3 4 5 6 7 8 9	-14 -10 -15 -5 0 3 1 2 3	-6 -50 -16 -9 0 0 1 12 8	-2 -3 -32 -2 -1 1 4 31 17	-4 -9 -5 -35 0 1 0 7	0 -1 -2 -1 -1 2 0 -1 0	3 0 1 -1 0 -3 -1 -3 -3 -3	1 3 0 0 -1 -4 -2 -1	2 10 20 6 0 -1 -1 -24 -4	4 10 18 10 0 -2 -1 -9 -17	2 5 13 2 0 -1 0 -4 -5	1 5 15 6 0 -1 0 -1 -2 -1	4 7 11 5 0 -1 0 1 -2	4 33 49 33 -2 -5 -1 -8 -6 -4	-1 -4 -8 -9 0 0 4 7	-6 -6 54 0 -5 -7 -2 4 4
1 2 3 4 5 6 7 8 9 10 11 12	-14 -10 -15 -5 0 3 1 2 3	-6 -30 -16 -9 0 0 1 12 8 4 6	-2 -3 -32 -2 -1 1 4 31 17 14 22	-4 -9 -5 -35 0 1 0 7 8 2	0 -1 -2 -1 -1 2 0 -1 0	3 0 1 -1 0 -3 -1 -3 -3 -1 -5 -1	1 3 0 0 -1 -4 -2 -1 -1 -2	2 10 20 6 0 -1 -1 -24 -4 -2 -4	4 10 18 10 0 -2 -1 -9 -17 -4 -4 -3	2 5 13 2 0 -1 0 -4 -5 -10 -3 -2	1 5 15 6 0 -1 0 -1 -2 -1 -8 -1	4 7 7 11 5 0 0 -1 1 0 1 -2 -1 -2 -6	4 33 49 33 -2 -5 -1 -8 -6 -4 -6	-1 -4 -8 -9 0 0 0 4 7 4 7	-6 -6 54 0 -5 -7 -2 4 4 1 8 4 -19
1 2 3 4 5 6 7 8 9 10 11 12 13	-14 -10 -15 -5 0 3 1 2 3 1 2 5	-6 -50 -16 -9 0 0 1 12 8 4 6 6	-2 -3 -32 -2 -1 1 4 31 17 14 22 12	-4 -9 -5 -35 0 1 0 7 8 2 5	0 -1 -2 -1 -1 2 0 -1 0 0 -1	3 0 1 -1 0 -3 -1 -3 -3 -1 -5 -1 -9	1 1 3 0 0 -1 -4 -2 -1 -1 -2 -1 -2	2 10 20 6 0 -1 -1 -24 -4 -2 -4 0 -9	4 10 18 10 0 -2 -1 -9 -17 -4 -4 -3 -3	2 5 13 2 0 -1 0 -4 -5 -10 -3 -2 -5	1 5 15 6 0 -1 0 -1 -2 -1 -8 -1 -2	4 77 111 5 0 -1 0 1 -2 -1 -2 -6 -13	4 33 49 33 -2 -5 -1 -6 -4 -6 -13	-1 -4 -8 -9 0 0 4 7 4 7	-6 -6 54 0 -5 -7 -2 4 4 1 8 4 -19
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total	-14 -10 -15 -5 0 3 1 2 3 1 2 5 10 -2	-6 -50 -16 -9 0 0 1 12 8 4 6 6 43 -4	-2 -3 -32 -2 -1 1 4 31 17 14 22 12 121	-4 -9 -5 -35 0 1 0 7 8 2 5 5 5 -7	0 -1 -2 -1 -1 2 0 -1 0 -1 0	3 0 1 1 0 3 1 3 3 1 5	1 1 3 0 0 -1 -4 -2 -1 -1 -2 -1 -2 -1	2 10 20 6 0 -1 -1 -24 -4 -2 -4 0 -9	4 10 18 10 0 -2 -1 -9 -17 -4 -4 -3 -3	2 5 13 2 0 -1 0 -4 -5 -10 -3 -2 -5 6	1 5 15 6 0 -1 0 -1 -2 -1 -8 -1 -2 19	4 7 11 5 0 -1 0 1 -2 -1 -2 -6 -13	4 33 49 33 -2 -5 -1 -8 -6 -4 -6 -13 -382 201	-1 -4 -8 -9 0 0 4 7 4 7 4 7 180	-6 -6 54 0 -5 -7 -2 4 4 1 8 4 -19
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3 4	2371 848	2585 5870	21701 7379	7379 64235	541 1055	130 164	12	359 62	53 10	31 12	3	15 3	385 150	116 1349	35734 81151
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1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 Total	-3 0 -18 -1 0 0 4 2 2 2 3 3 1 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 -57 -2 -1 0 1 3 13 12 6 3 10 12 2 0 0	-18 -2 -57 -33 -1 3 9 42 23 14 8 7 9 -1 2 3 0.99 1.00 1.00 1.00 1.00 1.00 1.02 1.20	-1 -1 -33 3 4 1 0 9 5 7 2 2 2 5 1 1 1 1.00 1.00 1.00 1.00 1.00 1.01 1.01	0 0 1-1 4 -11 6 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1 3 1 6 -18 2 2 -1 -1 -1 -1 0 0 0 -2 1.10 1.02 1.02 1.01 1.00 1.00	2 3 9 0 1 2 -16 2 -2 0 0 0 0 0 0 0 7 1.18 1.28 1.20 1.01 1.00	2 13 42 9 2 2 2 -123 17 -1 16 16 15 1 1 0 8 1.03 1.26 1.12 1.15 1.00 1.00	3 12 23 5 0 -2 -2 17 -17 -12 -20 -10 0 2 0 9 119 153 144 144 100 100	3 6 14 7 0 -1 0 -1 -12 -13 -2 -3 0 0 1 0 1 10 115 151 146 155 100 100	1 3 8 2 0 -1 0 16 -20 -2 -5 0 -1 1 1.03 1.53 1.58 1.00 1.00	8 10 7 2 0 -1 0 15 -10 -3 0 -23 -7 2 0 1.16 1.51 1.43 1.55 1.00 1.00	1 12 9 5 0 0 0 1 1 -7 -55 46 6 1.00 1.07 1.02 1.04 1.00 1.00	0 0 0 -1 -1 0 0 0 1 1 2 40 -45 0 1.00 0.09 1.00 0.09 1.00	Total 1.00 1.00 1.00 1.00
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1 2 3 4 5 6 6 7 7 8 9 10 11 12 13 14 Total	-3 0 -18 -1 0 0 4 2 2 2 3 3 1 8 1 0 0 0 0 0 0 1.00 0.09 1.00 0.09 1.00 1.00	0 -57 -2 -1 0 0 1 3 13 12 6 3 10 12 0 0 0	-18 -2 -57 -33 -1 -3 -9 -42 -23 -14 -8 -7 -9 -1 -2	-1 -1 -33 3 4 4 1 0 9 9 5 7 7 2 2 2 5 5 -1 1 1 1 0 0 1.00 1.00 1.00 1.00 1.00 1	0 0 1 4 -11 6 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 1 3 1 6 -18 2 2 -2 -1 -1 -1 -1 0 0 0 -2 2 1.00 1.00 1.00 1.00 1.00	2 3 9 0 1 1 2 -16 2 -2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 13 42 9 2 2 2 -123 17 -1 16 16 16 1 1 0 8 8 1.03 1.26 1.12 1.15 1.00 1.00 1.00	3 12 23 5 0 -2 -2 17 -17 -12 -20 -10 0 2 0 119 1.53 1.44 1.44 1.00 1.00 1.00	3 6 14 7 0 -1 0 -1 -12 -13 -2 -3 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 3 8 2 0 -1 0 16 -20 -2 -5 0 -1 1 1 0 11 1.03 1.53 1.33 1.58 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	8 10 7 2 0 -1 0 16 -10 -3 0 -23 -7 2 0 1.16 1.51 1.43 1.55 1.00 1.00 1.00	1 12 9 5 0 0 0 0 0 1 1 -7 -7 -35 40 6 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	0 0 0 -1 -1 0 0 0 1 1 2 40 -45 0 1.00 1.00 1.00 1.00 1.00	Total Total 1.00 1.00 1.00 1.00 1.00 1.00
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DM - 2029 -	UC3														
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2	1524	68610	1922	3313	57	105	17	74	51	21	25	31	144	205	76101
3	1901 663	1912 3460	27549 3864	3730 69703	285 729	118	31 21	298 50	127 44	51 12	98 13	48 14	423 70	178 1632	36749 80500
5	61	3460	271	682	115852	44343	639	2323	170	70	93	72	417	3771	168818
6	85	106	120	247	42823	423360	39516	19082	2027	537	160	269	1159	445	529935
7	20	18	37	21	622	39177	100354	21316	1321	237	49	109	263	42	163586
8	128	77	300	62	2327	19964	21984	133878	17170	1953	1349	480	596	98	200367
9	43	44	130	46	142	1947	1323	16910	125447	39210	3137	3029	1098	59	192566
10	20	20	56	12	74	559	267	1983	40483	147611	242	7140	645	35	199148
11	61 58	24 27	101 47	10 14	70 78	134 267	61 109	1323 426	3012 3383	276 8630	20062 1507	1815 64669	311 16605	26 31	27286 95852
13	5959	162	558	97	499	1323	308	708	640	481	407		38982772		39010110
14	50	161	143	1893	5080	243	37	68	73	36	28	30		3535633	3543686
Total	96219	76227	37053	80397	168698	531843	164685	198560	193991	199143	27224	93189	39009502	3543007	44419739
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DS - 2029 - L															
-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	85593	1549	1955	364 3309	60	88	21 22	126 99	49 78	21 32	56 38	64 46	4794	83	95025 76088
2	1520 1889	68477 1908	1923 27493	3309 3703	57 285	107 124	44	99 354	78 188	32 78	38 129	46 72	175 443	204 177	76088 36888
4	664	3457	3843	69624	732	224	21	58	65	19	21	22	78	1629	80456
5	60	54	271	684	115845	44346	640	2325	170	70	93	72	415	3771	168816
6	93	108	127	248	42826	423338	39515	19082	2025	536	159	269	1158	445	529930
7	24	24	54	21	622	39177	100321	21310	1319	237	48	109	264	42	163573
8	135	103	365	70	2329	19965	21977	133752	17160	1951	1383	487	597	102	200373
9	50	68	197	67	142	1944	1321	16906	125355	39184	3120	3023	1096	70	192542
10 11	24 65	30 38	87 139	19 16	74 69	559 133	267 61	1983 1352	40462 2983	147569 273	241 20009	7137 1805	645 311	42 34	199137 27288
12	68	41	73	23	77	266	109	431	3376	8625	1503	64626	16592	40	95850
13	5969	196	594	110	497	1324	309	709	643	482	406		38982589	834	39010080
14	50	161	142	1889	5080	243	38	71	86	43	37	39	230	3535588	3543695
Total	96205	76213	37263	80349	168695	531836	164666	198558	193957	199121	27244	93187	39009388	3543063	44419744
-1															
Difference		,		4	5	6	,	8	9	10	- 11	12	13	14	Total
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Difference 1 2	-51 -4	-3 -133	3 1 1	-1 -4	5 0 0	6 8 2		8 7 25	9 7 27	10 3 11	11 3 14	12 8 15	13 7 31	14 0 -1	Total -9 -13
1	-51	-3	1	-1	0	8	4	7	7	3	3	8	7	0	-9
1 2 3 4	-51 -4	-3 -133	1 -55 -21	-1 -4	0 0 0 3	8 2 6 1	4 5	7 25	7 27	3 11 27 7	3 14 31 7	8 15 24 8	7 31	0 -1 -1 -3	-9 -13 139 -44
1 2 3 4 5	-51 -4 -12 -1 0	-3 -133 -4 -4 0	1 -55 -21 0	-1 -4 -27 -78 3	0 0 0 3 -7	8 2 6 1 3	4 5 14 0	7 25 56 8	7 27 61 21 0	3 11 27 7 0	3 14 31 7 0	8 15 24 8 0	7 31 20 9 -2	0 -1 -1 -3 0	-9 -13 139 -44 -2
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4	1426 91	1712 116	545 226	6976 840	782 15718	890 10121	25 602	233 1728	74 422	15 226	32 210	29 134	1566 1585	1989 2652	16295 34671
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14 Total	693 25557	832 16064	1621	2626 17776	4620 38078	1650 87771	144 25165	416 43425	233 35837	99 32836	171 8245	20611	12217 8162655	752194 772124	777632 9297957
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Difference															
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DM - 2	2044 -	UC2														
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	2	3086	93841	2878	6772 8667	61 608	80	14	63	29	16 38	7	25	251	312	107433
	3	2712 1099	2878 6772	21439 8667	66323	1251	167 215	57 15	423 79	66 14	16	28	18 4	493 205	146 1601	37739 86263
	5	34	61	608	1251	113566	55418	1434	3553	335	124	48	51	249	2861	179593
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	10	27	16 7	38 28	16 3	124 48	1036	564 66	3901 2024	45004 5523	162340	606 14006	8417 2827	635 779	3	222727
	11	26 68	25	18	4	51	172 201	83	864	4913	606 8417	2827	40864	10249	13	26121 68597
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	. ⊢	89390	3086	2701	1097	34	61	14	101	27	10 31	27	12 80	8192	14 44	Total 104885
	2	3086	93750	2878	6772	62	82	18	83	47	25	11	39	270	312	104885
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т	otal	104885	107433	37742	86264	179593	557475	192348	260875	224507	222726	26121	68597	27905254	2780138	32753959
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-	1 2 3 4 5 6 7 8 9 10 11 1 2 3 4 5 6 7 8 9 10 11 1 1 2 3 4 5 6 7 8 9 10 11	-20 0 -11 -2 6 2 3 5 4 1 12 1 0 1.00 1.00 1.00 1.00 1.10 1.11 1.03 1.21 1.11 1.01	0 -91 0 0 0 2 5 20 18 9 4 15 19 0 0 0 1.00 1.00 1.00 1.03 1.35 1.32 1.62 1.60 1.64	-11 0 -74 -72 -2 4 13 58 33 20 11 9 15 -2 3 1.00 1.00 0.99 1.00 1.03 1.23 1.14 1.59	-2 0 -72 19 9 2 0 15 8 8 10 2 3 3 8 8 -2 1 1.00 1.00 0.99 1.00 1.01 1.01 1.01 1.	0 0 0 -2 9 -15 7 1 2 0 0 0 0 0 -1 0 0 0 0 1.00 1.00 1.00 1.0	6 2 4 4 2 7 7 -10 -8 6 -5 3 -1 -1 -1 0 1.03 1.03 1.03 1.01 1.000 1.00 1.00	2 5 13 0 1 1 -8 -6 -1 1 -1 0 0 0 0 0 0 1.00 1.00 1.00 0.99	3 20 58 15 2 6 -1 -167 17 -5 30 21 0 0 1 0 8 1.03 1.32 1.14 1.19 1.00 1.00 1.00 1.00	5 18 33 8 0 -5 -4 17 35 -26 -59 -24 -1 1 3 -1 1.62 1.50 1.00 1.00 1.00 1.00 1.00 1.00 0.99	4 9 20 10 0 -3 -1 -5 -6 -6 -6 -1 1 0 107 1.54 1.60 1.54 1.60 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1 4 11 2 0 -1 -1 30 0 -59 -6 14 3 -1 1 0 0 11 1.04 1.64 1.39 1.69 1.00 0.99 0.99 1.01 0.99 0.99 1.01 0.99 1.00 0.99 0.99	12 15 9 3 0 -1 0 21 -24 -6 3 -19 -15 4 0 1.18 1.59 1.49 1.65 1.00 0.99 1.00 1.00	1 19 15 8 8 -1 1 -1 10 0 0 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 3 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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6 7	141	161 27	191	359	51029	466906 44805	45264 108298	23027 24528	2730 1780	727 324	220	375 150	1753	700 64	593583
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1 2 3 4 5 6 7 8 9 100 111 122 13 14 Total Growth Fac	-93 -9 -5 -4 1 15 7 12 12 12 6 6 17 16 0 -19 tor 1 1.00 1.00 1.00 1.01 1.10 1.10 1.12 1.06 1.20	-8 -226 -2 -8 0 0 5 10 46 40 17 22 23 58 -1 -24 2 1.00 1.00 1.00 1.00 1.03 1.35 1.41 1.65	17 5 -55 -45 0 144 30 106 110 50 57 41 62 -3 388 31.01 1.00 0.99 1.00 1.07 1.53 1.26 1.60	-3 -9 -33 -136 6 4 0 16 37 12 10 14 21 -8 -91 4 1.00 1.00 1.00 1.01 1.01 1.01 1.01 1	1 0 -1 5 -8 3 1 2 0 0 0 -1 -1 -1 -4 1 -2 5 1.01 1.00 1.00 1.00 1.00 1.00	13 4 12 3 5 -46 -31 -1 -9 -3 -2 -3 -4 1 -59 6 1.10 1.03 1.06 1.01 1.00 1.00 1.00	6 8 25 0 0 1 1-14 -16 -12 -4 -1 1 1 0 0 -8 1 23 1.34 1.53 1.00 1.00 1.00 1.00 1.00 1.00 1.00	11 43 90 15 2 2 4 -10 -195 -13 -4 52 8 -2 5 5 5 8 1.06 1.40 1.22 1.20 1.00 1.00 1.00	12 43 97 36 0 0 -7 -4 -27 -120 -45 -65 -20 3 23 -73 -73 -73 -119 1.56 1.58 1.00 1.00 1.00	5 17 42 11 0 0 -2 -1 -6 -50 -5 -9 1 12 -30 10 121 1.59 1.63 1.00 1.00 1.00	4 22 46 12 0 0 -1 -1 55 -45 -65 -7 -1 14 29 11 1.06 1.67 1.35 1.66 1.00 0.99	15 25 38 13 0 -2 -1 9 -18 -7 -13 -59 -20 14 -6 112 1.18 1.59 1.67 1.00 0.99 0.99 0.99	10 53 35 15 -4 1 -2 -3 -1 -1 -24 -286 29 -185 13 1.00 1.25 1.06 1.14 0.99 1.00 1.00 1.00	0 -1 -3 -6 -1 1 1 1 0 7 19 13 13 14 99 -75 82 14 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	-111 -24 -266 -89 -3 -32 -14 -9 -45 -13 -6 -6 -56 -12 -6 Total -1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac	-93 -9 -5 -4 1 15 7 12 6 6 17 15 0 -19 tor 1 1.00 1.00 1.00 1.01 1.10 1.22 1.06 1.20 1.21	-8 -226 -2 -8 0 5 10 46 40 17 22 23 38 -1 -24 2 1.00 1.00 1.00 1.00 1.00 1.03 1.35 1.41 1.65 1.62	17 5 -55 -45 0 14 30 1006 110 50 57 41 62 -3 388 388 3 1.01 1.00 1.00 1.00 1.07 1.53 1.26 1.60 1.64	-3 -9 -53 -136 6 4 0 16 37 12 10 14 21 -8 -91 1.00 1.00 0.99 1.00 1.01 1.01 1.01 1.	1 0 -1 5 -8 3 1 2 0 0 0 -1 -1 -1 -1 -1 -2 -2 -5 1.01 1.00 1.00 1.00 1.00 1.00 1.00 1.0	13 4 12 3 5 -46 -31 -1 -9 -3 -2 -3 -4 1 1 -59 -59 -6 1.10 1.03 1.06 1.00 1.00 1.00 1.00	6 8 25 0 0 1 1 -14 -16 -12 -4 -4 -1 1 0 0 -8 1 34 1.53 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	11 43 90 15 2 4 -10 -195 -13 52 8 -2 2 5 5 5 8 1.06 1.40 1.22 1.20 1.00 1.00 1.00	12 43 97 36 0 -7 -120 -45 -65 -20 3 3 3 -73 -73 -9 1.19 1.61 1.56 1.56 1.00 1.00 1.00 1.00	17 42 11 0 -2 -1 -6 -50 -45 -5 -9 1 12 -30 -1 121 159 1.62 1.00 1.00 1.00 1.00	4 22 46 12 0 -1 -1 55 -4 -65 -7 -1 14 29 11 1.06 1.67 1.35 1.66 1.00 0.99 0.99	15 25 38 13 0 -2 -1 1 9 -18 -7 -13 -59 -20 14 -6 12 1.18 1.59 1.60 1.60 0.99 0.99 1.01	10 53 35 15 -4 1 -2 -5 -1 -1 -24 -286 29 -185 13 1.00 1.25 1.06 1.14 0.99 1.00 1.	0 -1 -3 -6 -6 -1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-11 -24 -266 -89 -3 -32 -14 -9 -45 -13 -6 -6 -56 -56 -12 -6 -100 -1.00 -
1 2 3 4 5 6 7 8 9 10 11 2 2 3 3 4 5 6 7 8 9 10 11 10 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	-93 -9 -5 -4 1 13 7 12 6 6 17 16 0 -19 tor 1 1.00 1.00 1.00 1.01 1.10 1.22 1.06 1.20 1.07	-8 -226 -2 -8 -0 -5 -10 -46 -40 -17 -22 -23 -58 -1 -24 -24 -24 -20 -1.00 -1.00 -1.00 -1.00 -1.00 -1.00 -1.01 -1.01 -1.02 -1.03 -1.35 -1.41 -1.62 -1.68	17 5 -55 -45 0 14 30 106 110 50 57 41 62 -3 388 3 1.01 1.00 0.99 1.00 0.99 1.00 1.07 1.53 1.26 1.64 1.42	-3 -9 -33 -136 6 4 0 16 37 12 10 14 21 -8 -91 4 1.00 0.99 1.00 1.01 1.01 1.01 1.01 1.01	1 0 -1 5 -8 3 1 2 0 0 -1 -1 -1 -4 1 -2 -2 -5 1.01 1.00 1.00 1.00 1.00 1.00 1.00 1.0	13 4 12 3 5 -46 -31 -1 -9 -3 -2 -3 -4 1 -59 -6 1.10 1.03 1.06 1.01 1.00 1.00 1.00 1.00 1.00 1.00	6 8 23 0 0 1 1-14 -16 -12 -4 1 -1 1 0 -8 1 1 34 1 1 33 1 1 1 1 1 1 1 1 1 1 1 1 1	11 43 90 15 2 4 -10 -195 -13 -4 52 8 -2 5 5 5 8 1.06 1.40 1.22 1.20 1.00 1.00 1.00 1.00 1.00	12 43 97 36 0 -7 -120 -45 -65 -20 3 3 -73 -73 -73 -156 1.00 1.00 1.00 1.00 1.00 0.98	17 42 11 0 -2 -1 -50 -45 -5 -9 1 12 -30 10 121 1.59 1.62 1.63 1.00 1.00 1.00 1.00 1.00 0.99	4 22 46 12 0 -1 -1 55 -4 -65 -7 -1 14 29 11 1.06 1.67 1.35 1.66 1.00 0.99 0.99 1.03	15 25 38 13 0 -2 -1 9 -18 -7 -13 -59 -20 14 -6	10 53 35 15 -4 -4 1 -2 -5 -1 -1 -24 -286 29 -185 13 1.00 1.25 1.06 1.14 0.99 1.00	0 -1 -3 -6 -6 -1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-11 -24 -266 -89 -3 -32 -14 -9 -45 -13 -6 -6 -56 -12 -6 -100 -1.00
1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac	-93 -9 -5 -4 1 15 7 12 6 6 17 15 0 -19 tor 1 1.00 1.00 1.00 1.01 1.10 1.22 1.06 1.20 1.21	-8 -226 -2 -8 0 5 10 46 40 17 22 23 38 -1 -24 2 1.00 1.00 1.00 1.00 1.00 1.03 1.35 1.41 1.65 1.62	17 5 -55 -45 0 14 30 1006 110 50 57 41 62 -3 388 388 3 1.01 1.00 1.00 1.00 1.07 1.53 1.26 1.60 1.64	-3 -9 -53 -136 6 4 0 16 37 12 10 14 21 -8 -91 1.00 1.00 0.99 1.00 1.01 1.01 1.01 1.	1 0 -1 5 -8 3 1 2 0 0 0 -1 -1 -1 -1 -1 -2 -2 -5 1.01 1.00 1.00 1.00 1.00 1.00 1.00 1.0	13 4 12 3 5 -46 -31 -1 -9 -3 -2 -3 -4 1 1 -59 -59 -6 1.10 1.03 1.06 1.00 1.00 1.00 1.00	6 8 25 0 0 1 1 -14 -16 -12 -4 -4 -1 1 0 0 -8 1 34 1.53 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	11 43 90 15 2 4 -10 -195 -13 52 8 -2 2 5 5 5 8 1.06 1.40 1.22 1.20 1.00 1.00 1.00	12 43 97 36 0 -7 -120 -45 -65 -20 3 3 3 -73 -73 -9 1.19 1.61 1.56 1.56 1.00 1.00 1.00 1.00	17 42 11 0 -2 -1 -6 -50 -45 -5 -9 1 12 -30 -1 121 159 1.62 1.00 1.00 1.00 1.00	4 22 46 12 0 -1 -1 55 -4 -65 -7 -1 14 29 11 1.06 1.67 1.35 1.66 1.00 0.99 0.99	15 25 38 13 0 -2 -1 1 9 -18 -7 -13 -59 -20 14 -6 12 1.18 1.59 1.60 1.60 0.99 0.99 1.01	10 53 35 15 -4 1 -2 -5 -1 -1 -24 -286 29 -185 13 1.00 1.25 1.06 1.14 0.99 1.00 1.	0 -1 -3 -6 -6 -1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-11 -24 -266 -89 -3 -32 -14 -9 -45 -13 -6 -6 -56 -56 -12 -6 -100 -1.00 -
1 2 3 4 5 6 6 7 8 9 10 11 12 2 3 3 4 5 6 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-93 -9 -5 -4 1 13 7 12 12 12 6 6 17 16 0 -19 tor 1 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	-8 -226 -2 -8 0 5 100 46 40 17 22 23 58 -1 -24 -24 -2 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	17 5 -55 -45 0 14 30 106 110 50 57 41 62 -3 388 3 1.01 1.00 0.99 1.00 0.99 1.00 1.64 1.64 1.42	-3 -9 -53 -136 6 4 0 16 37 12 10 14 21 -8 -91 4 1.00 0.99 1.00 1.01 1.01 1.18 1.56 1.63 1.71 1.69	1 0 -1 5 -8 3 1 2 0 0 0 -1 -1 -4 1 -2 -2 -5 1.01 1.00 1.00 1.00 1.00 1.00 1.00 1.0	13 4 12 3 5 -46 -31 -1 -9 -3 -2 -3 -4 1 1 -59 6 1.10 1.03 1.06 1.01 1.00 1.00 1.00 1.00 1.00 1.00	6 8 23 0 0 1 1-14 -16 -12 -4 1 -1 1 0 -8 1 1 34 1 1 53 1 00 1 1 00 0 1 00 0 1 00 0 0 9 9 0 9 9 0 9 9 0 9 9	11 43 90 15 2 4 -10 -195 -13 -3 -4 -2 5 5 5 5 8 -2 1.06 1.40 1.22 1.20 1.00 1.00 1.00 1.00 1.00 1.0	12 43 97 36 0 -7 -4 -27 -120 3 23 -73 -73 -73 -9 1.19 1.56 1.56 1.58 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	17 42 11 10 -2 -1 -6 -50 -5 -5 -9 1 12 -30 10 121 159 1.62 1.63 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	4 22 46 12 0 -1 -1 55 -4 -65 -7 -1 14 29 11 1.06 1.67 1.35 1.66 1.00 0.99 0.99 1.03 0.99	15 25 38 13 0 -2 -1 9 -18 -7 -13 -59 -20 14 -6 12 1.18 1.59 1.60 1.67 1.00 0.99 1.01 1.00 1.00 1.00 1.00 1.00	10 53 35 15 -4 -4 1 -2 -5 -1 -24 -286 -286 -185 1.00 1.25 1.06 1.14 0.99 1.00	0 -1 -3 -6 -6 -1 1 1 1 0 7 7 19 13 13 14 9 9 9 -75 82 14 1.00 0.99 1.00 1.00 1.00 1.00 1.00 1.00	-11 -24 -266 -89 -3 -32 -14 -9 -45 -13 -6 -6 -56 -56 -100 -100 -100 -100 -100 -100 -100 -10
1 2 3 4 5 6 7 8 9 100 111 2 2 3 4 5 6 7 7 8 9 100 11 1 2 1 3 1 4 1 5 6 6 7 7 8 9 100 111 12 12 13	-93 -9 -5 -4 1 15 7 12 12 12 6 6 17 16 0 -19 tor 1 1.00 1.00 1.01 1.10 1.10 1.12 1.06 1.20 1.21 1.07 1.20 1.00	-8 -226 -2 -8 0 5 10 46 40 17 22 23 58 -1 -24 2 1.00 1.00 1.00 1.00 1.00 1.01 1.01 1	17 5 -55 -45 0 14 30 106 110 50 57 41 62 -3 388 3 1.01 1.00 0.99 1.00 0.99 1.00 1.07 1.53 1.26 1.60 1.64	-3 -9 -33 -136 6 4 0 16 37 12 10 14 21 -8 -91 1.00 0.99 1.00 1.01 1.02 1.03 1.04 1.05	1 0 -1 5 -8 3 1 2 0 0 0 -1 -1 -4 1 -2 -2 -2 -5 1.01 1.00 1.00 1.00 1.00 1.00 1.00 1.0	13 4 12 3 5 -46 -31 -1 -9 -3 -2 -3 -4 1.05 1.06 1.01 1.00 1.00 1.00 1.00 1.00 1.00	6 8 25 0 0 1 1-14 -16 -12 -4 -1 1 1 0 0 -8 1-12 3 1.34 1.53 1.01 1.00 1.00 1.00 0.00 9.99 1.00	11 43 90 15 2 4 -10 -195 -13 -4 -4 -5 5 5 5 5 1.06 1.40 1.00 1.00 1.00 1.00 1.00 1.00 1.00	12 43 97 36 0 0 -7 -4 -27 -120 -45 -65 -20 3 -73 -73 -73 -73 -119 1.61 1.56 1.58 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	17 42 11 0 0 -2 -1 -6 -50 -5 -9 1 122 -30 10 121 1.59 1.62 1.63 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	11 1.06 1.00 0.99 0.99 0.99 1.00 1.00	15 25 38 13 0 0 -2 -1 9 -18 -7 -13 -59 -20 14 -6 1.18 1.59 1.60 1.67 1.00 0.99 1.01 1.00 1.00 0.00 1.00	10 53 35 15 -4 -4 1 -2 -5 -1 -1 -24 -286 -285 -185 -185 -100 1.00	0 -1 -3 -6 -6 -1 -1 -1 -3 -6 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	-111 -24 -266 -89 -3 -32 -14 -9 -45 -43 -6 -56 -56 -12 -6 Total -1.00 -



DM - 2051 -	UC1														
<u></u>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
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2	1632 1146	8324 1359	1400 1715	1776 603	127 230	199 174	24 42	120 343	69 145	37 112	32 140	43 79	1631 3171	648 948	16061 10207
4	1516	1804	574	7159	825	948	26	248	79	16	34	31	1668	2106	17036
5	97	122	240	890	16388	10620	634	1819	445	237	219	139	1666	2801	36318
6 7	132 28	212 26	185 48	1014 28	11803 734	51912 6101	6318 12354	7753 3265	3244 1011	1572 584	777 228	664 251	5630 1326	1095	92309 26089
8	240	141	422	266	1864	7215	3031	16325	4761	2242	902	775	5547	264	43995
9	68	62	138	75	409	2717	875	4178	14625	5715	552	1240	5436	140	36231
10	30	34	114	16	248	1647	594	2076	5462	15422	379	2034	5265	75	33397
11	141 105	35 40	166 76	32 28	190 140	662 621	220 242	765 710	511 1321	412 2248	1520 429	450 4440	2041 9522	90 60	7236 19982
13	9173	2104	4520	2508	2077	6930	1672	7090	5419	5482	3117	11076	8437712	12351	8511231
14	731	871	1710	2776	4864	1752	152	440	246	104	179	120	12906	784822	811673
Total	26668	16764	12416	18624	39992	91624	26208	45333	37411	34215	8611	21445	8500271	805910	9685493
DS - 2051 - U															
٦,	11605	1619	1113	1444	93	130	7 26	203	78	10 34	107	111	13 6755	14 403	Total 23719
1 2	1617	1619 8252	1399	1761	125	200	26	135	78 83	34 45	107 39	111	1681	403 641	16056
3	1127	1337	1679	596	227	176	47	374	171	131	162	94	3243	933	10297
4	1508	1790	567	7114	825	949	26	258	95	19	43	39	1716	2091	17039
5 6	97 136	122 213	239 187	891 1018	16386 11806	10621 51907	634 6318	1819 7757	444 3238	237 1570	218 774	139 661	1662 5615	2802 1096	36312 92299
7	30	28	55	28	735	6098	12349	3265	1009	583	227	250	1323	107	26087
8	244	161	473	278	1862	7208	3028	16293	4746	2237	899	776	5526	271	44003
9	73	75	165	89	409	2712	873	4173	14601	5710	547	1236	5420	152	36235
10 11	32 144	40 44	136 199	19 40	248 189	1645 654	594 217	2074 759	5458 502	15408 407	376 1511	2032 447	5254 2033	81 100	33398 7247
12	113	48	93	35	139	618	241	710	1314	2245	427	4433	9503	67	19987
13	9192	2169	4719	2592	2070	6905	1667	7064	5404	5471	3111	11051	8437157	12612	8511184
14 Total	728 26645	864 16763	1718	2766 18672	4863 39978	1753 91576	152 26199	457 45341	268 37412	113 34211	207 8648	136 21459	13172 8500059	784446 805801	811644 9685506
TOTAL	20043	10/63	12742	100/2	33376	313/6	20133	43341	3/412	34211	0040	21455	0300033	002001	3663306
-															
Difference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
Difference 1	-24	-11	3	4	5	6	7 2	8	9	10	11	12	13	14	Total
1 2	-24 -16	-11 -72	5 -2	-8 -15	0 -1	4	2 2	3 15	5 14	2 7	2	7 10	7 50	-2 -7	-7 -5
1 2 3	-24 -16 -19	-11 -72 -22	-2 -36	-8 -15 -7	0 -1 -3	4 0 2	2 2 6	3 15 31	5 14 26	2 7 19	2 8 22	7 10 15	7 50 72	-2 -7 -15	-7 -5 90
1 2	-24 -16	-11 -72	5 -2	-8 -15	0 -1	4	2 2	3 15	5 14	2 7	2	7 10	7 50	-2 -7	-7 -5
1 2 3 4 5	-24 -16 -19 -9 0	-11 -72 -22 -15 -1	5 -2 -36 -6 -1 3	-8 -15 -7 -46 2	0 -1 -3 0 -2	4 0 2 1 1	2 2 6 0 0	3 15 31 11	5 14 26 16 -1 -6	2 7 19 3 0	2 8 22 8 -1 -3	7 10 15 8 0	7 50 72 48 -4 -15	-2 -7 -15 -15 1	-7 -5 90 3 -6 -10
1 2 3 4 5 6	-24 -16 -19 -9 0 5	-11 -72 -22 -15 -1 1	5 -2 -36 -6 -1 3	-8 -15 -7 -46 2 5	0 -1 -3 0 -2 3	4 0 2 1 1 -4 -3	2 2 6 0 0	3 15 31 11 0 4	5 14 26 16 -1 -6	2 7 19 3 0 -2 -1	2 8 22 8 -1 -3 -1	7 10 15 8 0 -2 -1	7 50 72 48 -4 -15	-2 -7 -15 -15 1 2	-7 -5 90 3 -6 -10
1 2 3 4 5 6 7	-24 -16 -19 -9 0 5 2	-11 -72 -22 -15 -1 1 3	5 -2 -36 -6 -1 3 8	-8 -15 -7 -46 2 5 0	0 -1 -3 0 -2 3 1	4 0 2 1 1 -4 -3 -7	2 6 0 0 -5	3 15 31 11 0 4 -1	5 14 26 16 -1 -6 -2	2 7 19 3 0 -2 -1	2 8 22 8 -1 -3 -1	7 10 15 8 0 -2 -1 2	7 50 72 48 -4 -15 -3 -21	-2 -7 -15 -15 1 2 0	-7 -5 90 3 -6 -10 -2 8
1 2 3 4 5 6	-24 -16 -19 -9 0 5	-11 -72 -22 -15 -1 1	5 -2 -36 -6 -1 3	-8 -15 -7 -46 2 5	0 -1 -3 0 -2 3	4 0 2 1 1 -4 -3	2 2 6 0 0	3 15 31 11 0 4	5 14 26 16 -1 -6	2 7 19 3 0 -2 -1	2 8 22 8 -1 -3 -1	7 10 15 8 0 -2 -1	7 50 72 48 -4 -15	-2 -7 -15 -15 1 2	-7 -5 90 3 -6 -10
1 2 3 4 5 6 7 8 9	-24 -16 -19 -9 0 5 2 4 5	-11 -72 -22 -15 -1 1 3 20 13 6	5 -2 -36 -6 -1 3 8 51 27 22 32	-8 -15 -7 -46 2 5 0 12 14 3 8	0 -1 -3 0 -2 3 1 -1 0	4 0 2 1 1 -4 -3 -7 -5 -2 -8	2 6 0 0 -5 -3 -1 -1	3 15 31 11 0 4 -1 -31 -5 -2	5 14 26 16 -1 -6 -2 -16 -24 -4	2 7 19 3 0 -2 -1 -5 -5 -14	2 8 22 8 -1 -3 -1 -3 -5 -2 -9	7 10 15 8 0 -2 -1 2 -4 -2	7 50 72 48 -4 -15 -3 -21 -16 -10 -8	-2 -7 -15 -15 1 2 0 7 12 6	-7 -5 90 3 -6 -10 -2 8 5 1
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1	92286	3265	2846	1178	36	59	12	104	24	29	28	73	8642	48	108630
2	3265 2846	97090 2978	2978 22072	7096 9162	64 639	83 178	14 59	66 449	30 70	16 39	7 30	25 19	268 526	326 155	111330 39222
4	1178	7096	9162	68735	1313	228	15	84	14	17	4	4	221	1679	89752
5	36	64	639	1313	117566	57823	1500	3714	346	128	49	52	259	2997	186486
6 7	59 12	83 14	178 59	228 15	57823 1500	450721 39810	39810 126612	27670 28285	2971 2661	1071 588	179 68	207 85	682 167	146 12	581829 199888
8	104	66	449	84	3714	27670	28285	173868	28978	4065	2117	901	589	32	270922
9	24	30	70	14	346	2971	2661	28978	140218	46760	5727	5135	550	21	233504
10 11	29 28	16 7	39 30	17 4	128 49	1071 179	588 68	4065 2117	46760 5727	168866 637	637 14297	8803 2948	676 824	5	231698 26920
12	73	25	19	4	52	207	85	901	5135	8803	2948	41584	10733	14	70583
13	8642	268	526	221	259	682	167	589	550	676	824		28904409		28929641
14 Total	108630	326 111330	155 39222	1679 89752	2997 186486	146 581829	199888	270922	233504	231698	26920	70583	1095 28929641	2882992	2889525 33969931
	200030	111330	33222	03732	200-100	302023	177000	2,0022	233304	232030	20320	,,,,,,	20323042	2007727	33303331
DS - 2051 -	UC2 1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	92255	3265	2841	1176	36	65	14	107	29	33	29	86	8645	47	108630
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3	2841	2983	22015	9046	636	183	73	513	107	61	42	29	544	152	39226
4 5	1176 36	7096 64	9046 636	68789 1326	1326 117542	231 57834	16 1501	100 3716	23 346	28 128	6 49	7 52	230 258	1678 2998	89754 186486
6	65	86	183	231	57834	450694	39809	27680	2966	1070	177	206	680	146	581828
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8	107 29	88 50	513 107	100 23	3716 346	27680 2966	28286 2656	173663 29006	29006 140206	4065 46779	2152 5655	925 5109	589 548	33 25	270922 233504
10	33	27	61	28	128	1070	586	4065	46779	168813	630	8798	675	5	231698
11	29	12	42	6	49	177	67	2152	5655	630	14320	2951	823	6	26920
12 13	86 8645	42 289	29 544	7 230	52 258	206 680	85 167	925 589	5109 548	8798 675	2951 823	41564	10714 28904325	18 1158	70584 28929645
14	47	326	152	1678	2998	146	12	33	25	5	6	18	1158	2882920	2889523
Total	108630	111330	39226	89754	186486	581828	199888	270922	233504	231698	26920	70584	28929645	2889523	33969938
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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
1	-32	0	-5	-2	0	6	2	3	5	5	1	14	3	0	1
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac 7 8 9 10 11 12 13 14 7 14 7 14 1 1 1 1 1 1 1 1 1 1 1 1 1	-32 0 -5 -2 0 6 2 3 5 1 14 3 0 1 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0 -106 5 0 0 0 2 2 5 1 0 0 5 16 22 2 0 0 0 1 0 0 1 0 0 1 0 0 1 0 1 1 0 3 1 3 7 1 3 3 1 6 4 1 6 3	-5 5 -57 -116 -3 4 14 63 37 22 12 10 18 -3 3 1.00 1.00 0.99 1.00 1.03 1.24 1.14 1.52 1.57	-2 0 -116 54 13 3 0 16 9 11 1 3 3 9 -1 1 1 1 0 0 16 9 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 3 13 -24 12 2 2 2 0 0 0 0 -1 0 0 5 1.00 1.01 1.00 1.00 1.00 1.00	6 2 4 4 3 12 -27 -1 100 -5 -1 -1 -1 -2 0 0 -1 100 1.00 1.00 1.00 1.00 1.00 1.0	2 5 14 0 0 2 -1 -17 1 -5 -1 0 0 -1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1	3 22 63 16 2 2 10 1 1 -205 28 0 35 24 -1 2 0 8 1.03 1.33 1.13 1.19 1.00 1.00 1.00	5 20 37 9 0 0 -5 -5 -2 28 -12 19 -72 -26 -2 4 0 0 9 1.21 1.64 1.50 1.00 1.00 1.00 1.00 1.00	5 10 22 11 0 -2 -1 0 19 -53 -7 -5 -1 1 0 10 117 163 157 1.67 1.00 1.00 1.00 1.00	1 5 12 3 0 -1 -1 35 -72 -7 23 3 -1 1 0 11 1.04 1.67 1.41 1.72 1.00 0.99 0.99	14 16 10 3 0 -1 0 24 -26 -5 3 -21 -19 4 0 1.63 1.53 1.68 1.00 0.99 1.00	3 22 18 9 -1 -2 -1 -1 -1 -19 -84 63 4 13 1.00 1.08 1.03 1.04 1.00 1.00 1.00 1.00 1.00	0 0 0 -3 -1 0 0 0 0 0 2 2 4 4 1.0 4 63 -72 -2 14 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	1 0 0 3 1 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 Total Growth Fac 7 8 9 10 11 12 13 14 7 14 7 14 1 1 1 1 1 1 1 1 1 1 1 1 1	-32 0 -5 -2 0 6 2 3 5 1 14 3 0 1 1.00 1.00 1.00 1.00 1.00 1.00 1.0	0 -106 5 0 0 0 2 2 5 1 0 0 5 16 22 2 0 0 0 1 0 0 1 0 0 1 0 0 1 0 1 1 0 3 1 3 7 1 3 3 1 6 4 1 6 3	-5 5 -57 -116 -3 4 14 63 37 22 12 10 18 -3 3 1.00 1.00 0.99 1.00 1.03 1.24 1.14 1.52 1.57	-2 0 -116 54 13 3 0 16 9 11 1 3 3 9 -1 1 1 1 0 0 16 9 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 3 13 -24 12 2 2 2 0 0 0 0 -1 0 0 5 1.00 1.01 1.00 1.00 1.00 1.00	6 2 4 4 3 12 -27 -1 100 -5 -1 -1 -1 -2 0 0 -1 100 1.00 1.00 1.00 1.00 1.00 1.0	2 5 14 0 0 2 -1 -17 1 -5 -1 0 0 -1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1	3 22 63 16 2 2 10 1 1 -205 28 0 35 24 -1 2 0 8 1.03 1.33 1.13 1.19 1.00 1.00 1.00	5 20 37 9 0 0 -5 -5 -2 28 -12 19 -72 -26 -2 4 0 0 9 1.21 1.64 1.50 1.00 1.00 1.00 1.00 1.00	5 10 22 11 0 -2 -1 0 19 -53 -7 -5 -1 1 0 10 117 163 157 1.67 1.00 1.00 1.00 1.00	1 5 12 3 0 -1 -1 35 -72 -7 23 3 -1 1 0 11 1.04 1.67 1.41 1.72 1.00 0.99 0.99	14 16 10 3 0 -1 0 24 -26 -5 3 -21 -19 4 0 1.63 1.53 1.68 1.00 0.99 1.00	3 22 18 9 -1 -2 -1 -1 -1 -19 -84 63 4 13 1.00 1.08 1.03 1.04 1.00 1.00 1.00 1.00 1.00	0 0 0 -3 -1 0 0 0 0 0 2 2 4 4 1.0 4 63 -72 -2 14 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	100 100 1.00 1.00 1.00 1.00 1.00 1.00 1
1 2 3 4 5 6 6 7 7 8 9 10 11 12 2 3 3 4 5 6 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	-32 0 -5 -2 0 6 2 3 5 5 1 14 3 0 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0 -106 5 0 0 0 2 2 5 22 20 0 5 16 22 2 0 0 0 0 1.00 1.00 1.00 1.00 1.03 1.37 1.33 1.64 1.63 1.67 1.63	-5 5 -57 -116 -3 4 14 63 37 22 12 10 18 -3 3 3 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.03 1.24 1.14 1.52 1.41 1.52	-2 0 -116 54 13 3 0 16 9 11 3 3 9 -1 1 1 1 1 4 1.00 0.99 1.00 1.01 1.01 1.01 1.01 1.01	0 0 0 -3 13 -24 12 2 2 0 0 0 0 0 -1 0 0 0 0 0 1.01 1.00 1.00 1	6 2 4 4 3 12 -27 -1 10 -5 -5 -2 -1 -1 -1 -2 0 1.03 1.03 1.01 1.00 1.00 1.00 1.00 1.	2 5 14 0 0 2 -1 -17 1 -1 0 0 -1 0 0 1.00 1.00 1.00 0.99 1.00	3 22 63 16 2 10 1 1 -205 28 0 35 24 -1 2 0 8 1.03 1.33 1.14 1.19 1.00 1.00 1.00 1.00 1.00	5 20 37 9 0 -5 -5 28 -12 19 -72 -26 -2 4 0 0 9 1.21 1.64 1.52 1.60 1.00 1.00 1.00 1.00 1.00 1.00 1.00	5 10 22 11 0 -2 -1 0 19 -53 -7 -5 -1 1 0 10 117 1.63 1.57 1.67 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1 5 12 3 0 -1 -1 35 -72 3 3 -1 1 0 0 11 1.04 1.67 1.41 1.72 1.00 0.99 1.02 0.99 1.00 1.00 1.00	14 16 10 3 0 -1 0 24 -26 -5 3 -21 -19 1.63 1.52 1.68 1.00 0.99 1.00 1.03 0.99 1.00 1.00	3 22 18 9 -1 -2 -1 -1 -19 -84 4 -100 1.08 1.03 1.04 1.00 1.00 1.00 1.00 1.00 1.00	0 0 0 -3 -1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1.00 0 0 0 4 -22 7 Total 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0



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2	2142	74672	2502	4442	90 427	173	26 51	116 442	76	31 73	35	45	232	286 259	84870 41842
4	2619 1063	2485 4687	28897 5545	5322 74588	1053	209 349	31	78	190 68	18	142 20	67 22	658 116	2307	89944
5	109	86	408	985	131698	55922	963	3206	242	104	126	104	660	5238	199850
6	157	177	215	388	54390	493001	47866	24546	2939	777	238	401	1924	781	627800
7 8	35 207	29 121	62 448	32 94	941 3226	47345 25325	113334 26602	25979 151072	1918 21807	347 2779	70 1849	161 678	440 964	70 156	190762 235327
9	68	67	198	71	204	2803	1907	21561	142257	46872	3987	4272	1626	96	225989
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11 12	94 95	34 40	146 67	15 22	97 110	203 389	85 157	1814 597	3787 4659	400 11005	20979 1992	2388 67388	508 21939	38 48	30589 108505
13	8469	258	858	157	775	2144	501	1124	1005	771	645		45762439	1159	45801070
14	82	224	207	2580	6751	448	61	109	112	58	40	46	341	4051120	4062180
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3	2621	2487	28857	5242	426	223	78	543	299	121	194	109	698	254	42151
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5 6	110 173	86 183	408 230	994 393	131675 54409	55935 492940	47857	3208 24546	241 2932	104 776	126 236	103 399	656 1918	5238 782	627773
7	43	40	96	32	943	47326	113296	25967	1913	347	69	160	441	70	190743
8	221	173	567	112	3227	25319	26587	150850	21782	2776	1910	687	961	164	235336
9 10	82 39	111 49	321 139	113 32	204 110	2795 812	1901 393	21550 2861	142084 48594	46856 166595	3930 361	4252 9375	1619 1019	118 72	225938 230450
11	100	59	210	26	97	200	84	1873	3707	393	20912	2374	507	52	30594
12	114	65	112	37	109	386	156	605	4636	10998	1983	67322	21908	64	108497
13 14	8489 82	325 223	929 203	181 2571	770 6752	2138 449	502 61	1121	1008	772 72	644 55	20738 4	45762119 373	1268 4051039	45801003 4062192
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Difference															
Difference	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
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1 2 3 4 5	-113 -11 1 -4 1	-10 -256 1 -10	28 10 -40 -78 0	-3 -11 -80 -129	1 0 -1 8 -23	15 5 13 4 13	7 10 28 0 1	12 48 102 16 2	13 48 109 40 0	6 19 48 12 0	5 24 52 14 -1	17 28 42 15 0	12 61 40 16 -4	-1 -1 -5 -7	-10 -27 310 -103 -3
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1 2 3 4 5 6 7 8 9	-113 -11 1 -4 1 17 8 13 14 7	-10 -256 1 -10 0 6 11 52 45	28 10 -40 -78 0 15 34 120	-3 -11 -80 -129 8 5 0 18 42 13	1 0 -1 8 -23 18 1 1 0	15 5 13 4 13 -61 -18 -6 -8 -2	7 10 28 0 1 -10 -38 -14 -5 -1	12 48 102 16 2 0 -12 -222 -10	13 48 109 40 0 -7 -5 -26 -173 -13 -80	6 19 48 12 0 -1 -1 -3 -16 -93	5 24 52 14 -1 -2 -1 62 -57 -5	17 28 42 15 0 -2 -1 10 -20 -6	12 61 40 16 -4 -6 1 -3 -6 -1	-1 -1 -3 -7 1 2 0 8 22 14	-10 -27 310 -103 -3 -27 -19 10 -51 -14
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1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 Total Growth Fac	-113 -11 1 -4 1 17 8 13 14 7 6 19 20 0 -21	-10 -256 1 -10 0 6 11 52 45 19 25 25 66 -1 -26	28 10 -40 -78 0 15 34 120 123 56 63 46 71 -4 442	-3 -11 -80 -129 8 5 0 18 42 13 11 16 24 -9 -96	1 0 -1 8 -23 18 1 1 0 0 0 -1 -1 -5 1	15 5 13 4 13 -61 -18 -6 -8 -2 -2 -3 -6 1	7 10 28 0 1 -10 -38 -14 -5 -1 -1 -1 -1 7 7 1.23	12 48 102 16 2 0 -12 -222 -10 -2 59 9 -3 6 4	13 48 109 40 0 -7 -5 -26 -173 -13 -80 -23 3 25 -89	6 19 48 12 0 -1 -1 -3 -16 -93 -6 -6 1 13 -28	5 24 52 14 -1 -2 -1 62 -57 -57 -9 -2 15 29	17 28 42 13 0 0 -2 -1 10 -20 -66 -14 -66 -26 15 -9	12 61 40 16 -4 -6 1 1 -3 -6 -1 2 -31 -320 31 -212	-1 -1 -3 -7 1 2 0 8 222 14 14 16 109 -81 91	-10 -27 310 -103 -3 -27 -19 10 -51 -14 -5 -8 -67 12 -7 Total
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C Core Scenario Forecast Flows – Design Year



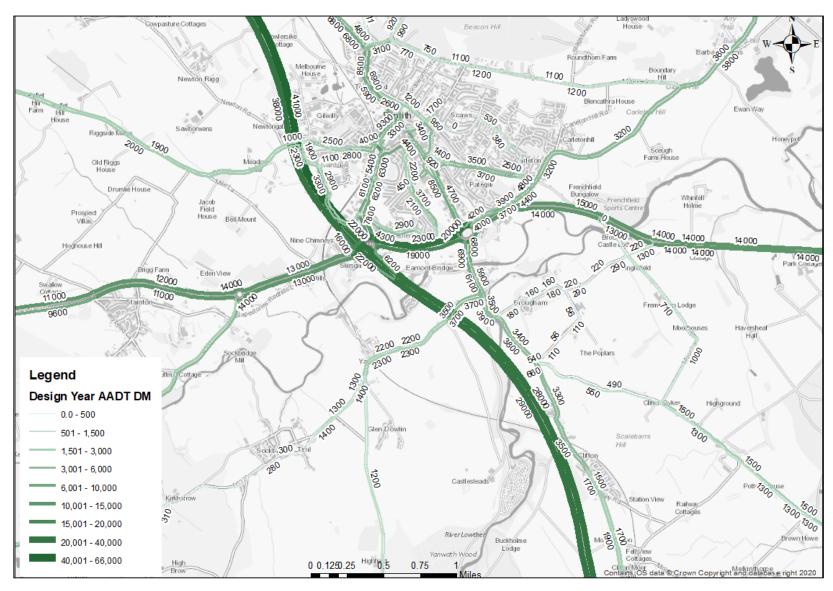


Figure 11-1: M6 Junction 40 and Kemplay Bank: Forecast Year DM Flows



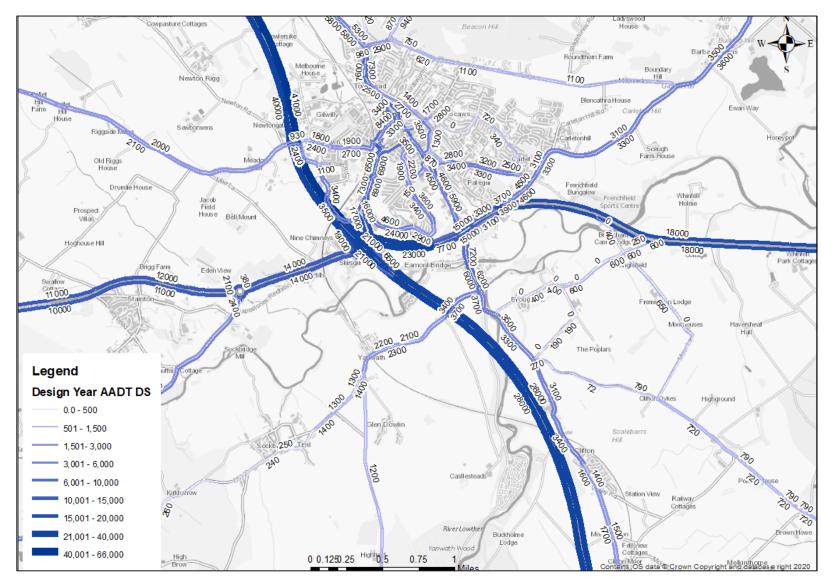


Figure 11-2: M6 Junction 40 and Kemplay Bank: Forecast Year DS Flows



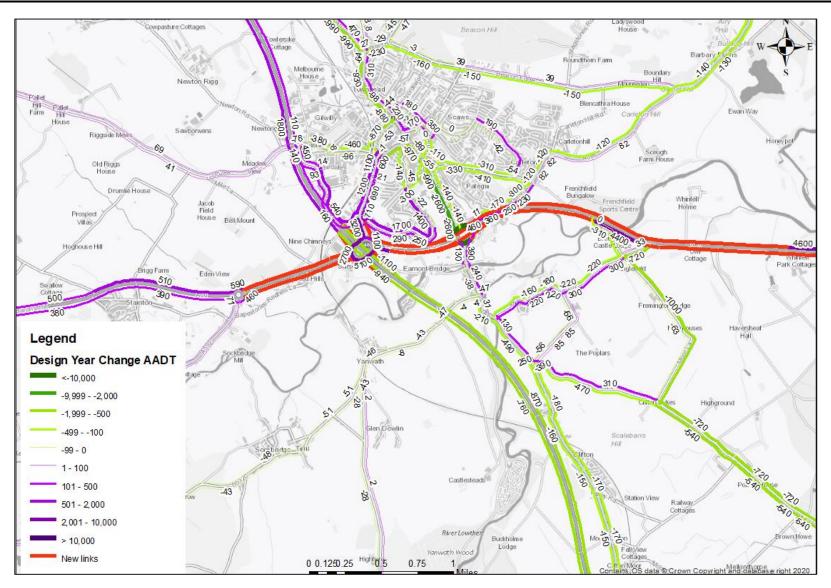


Figure 11-3: M6 Junction 40 and Kemplay Bank: Forecast Year DS Flow (Changes from DM)



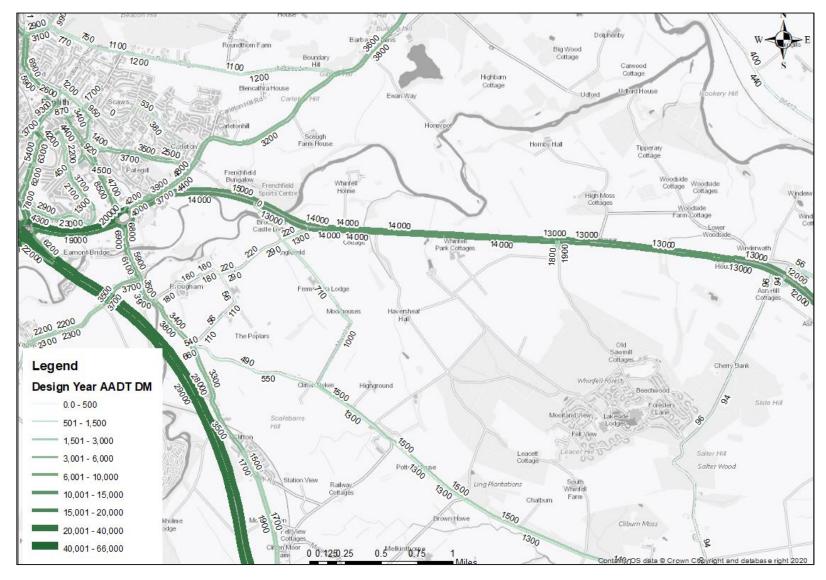


Figure 11-4: Penrith to Temple Sowerby: Forecast Year DM Flows



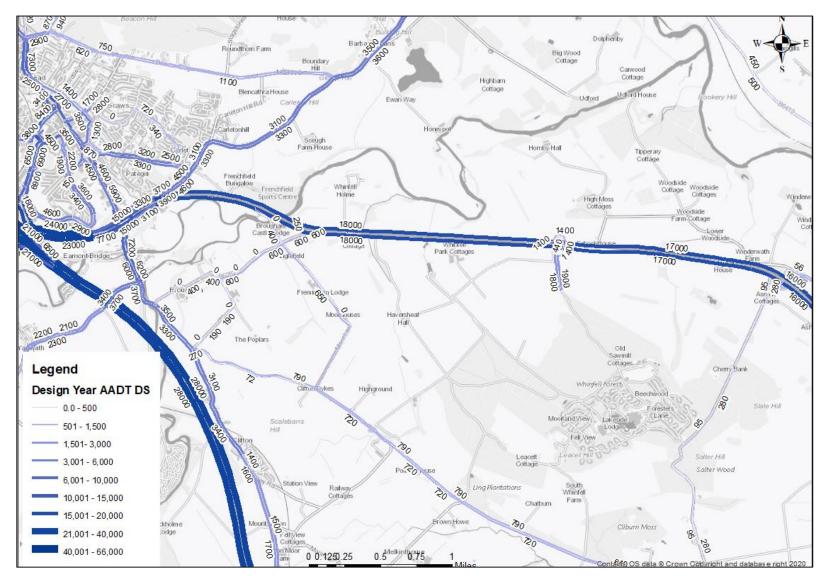


Figure 11-5: Penrith to Temple Sowerby: Forecast Year DS Flows



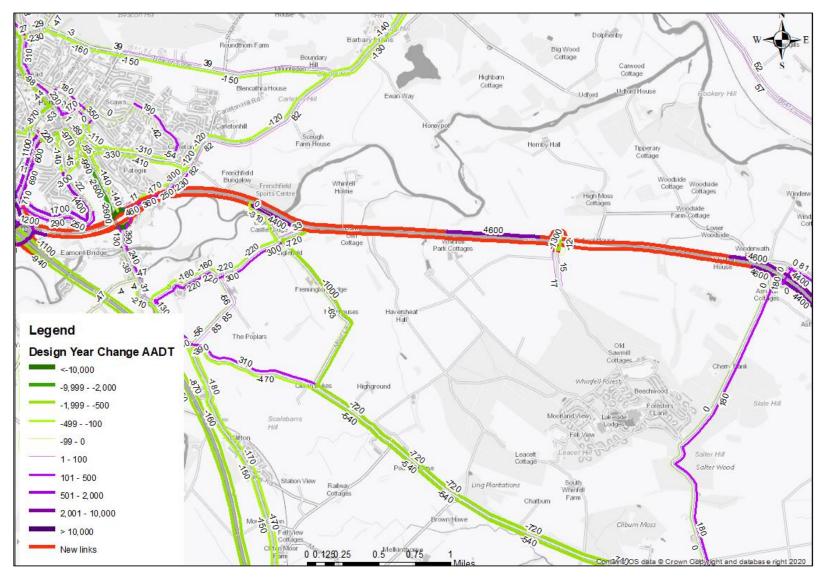


Figure 11-6: Penrith to Temple Sowerby: Forecast Year DS Flow (Changes from DM)



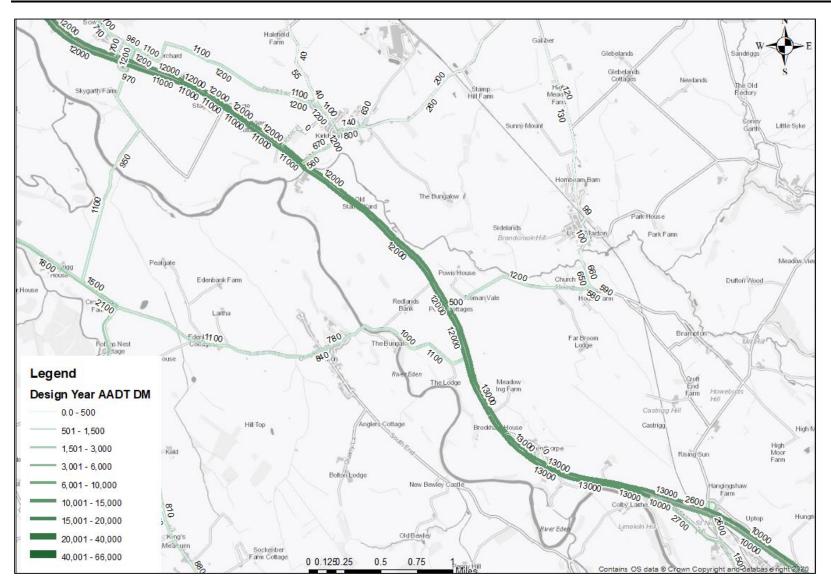


Figure 11-7: Temple Sowerby to Appleby: Forecast Year DM Flows



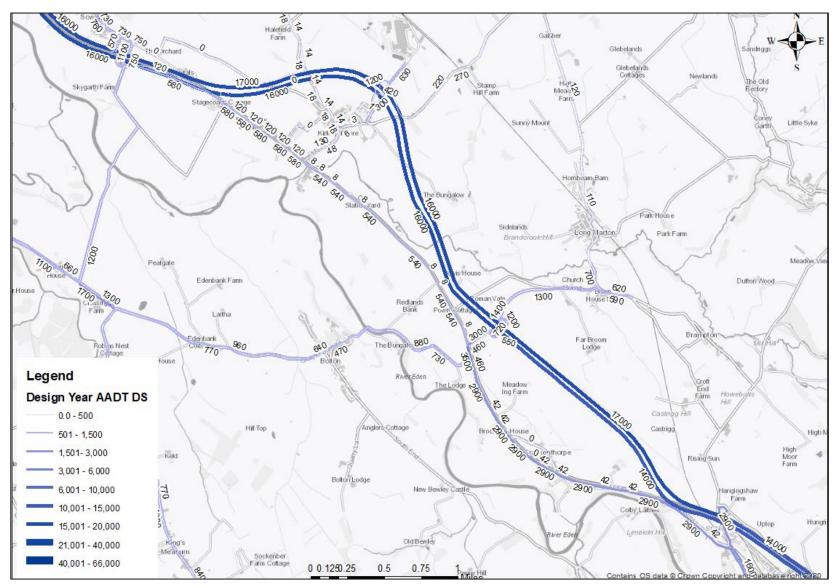


Figure 11-8: Temple Sowerby to Appleby BLUE ROUTE Forecast Year DS Flow



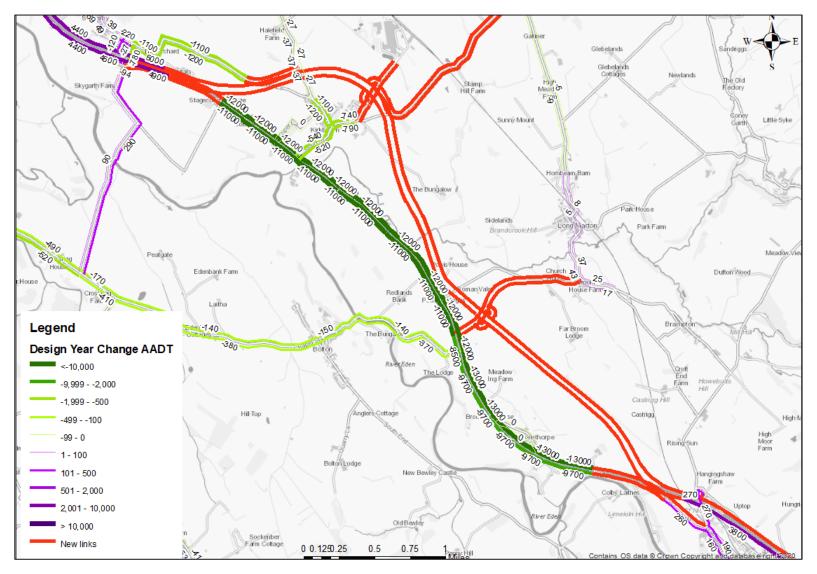


Figure 11-9: Temple Sowerby to Appleby **BLUE ROUTE** Forecast Year DS Flow (Changes from DM)



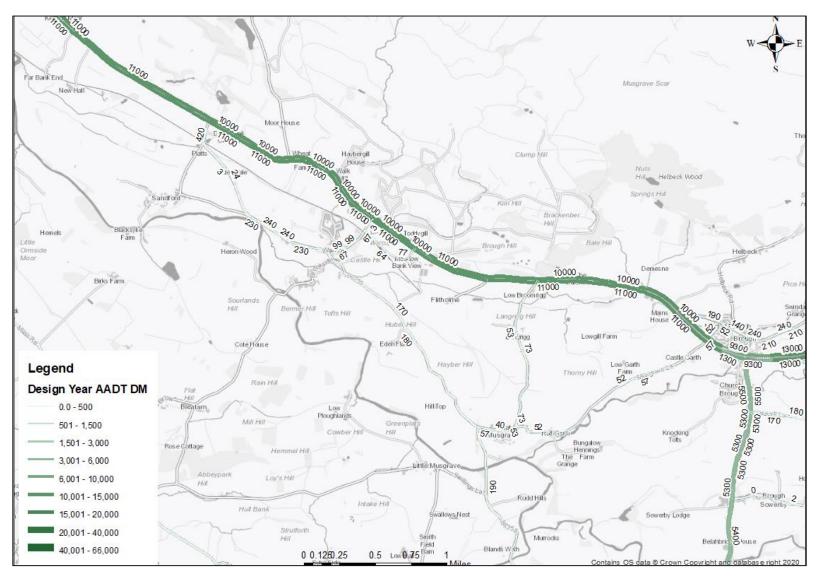


Figure 11-10: Appleby to Brough: Forecast Year DM Flows



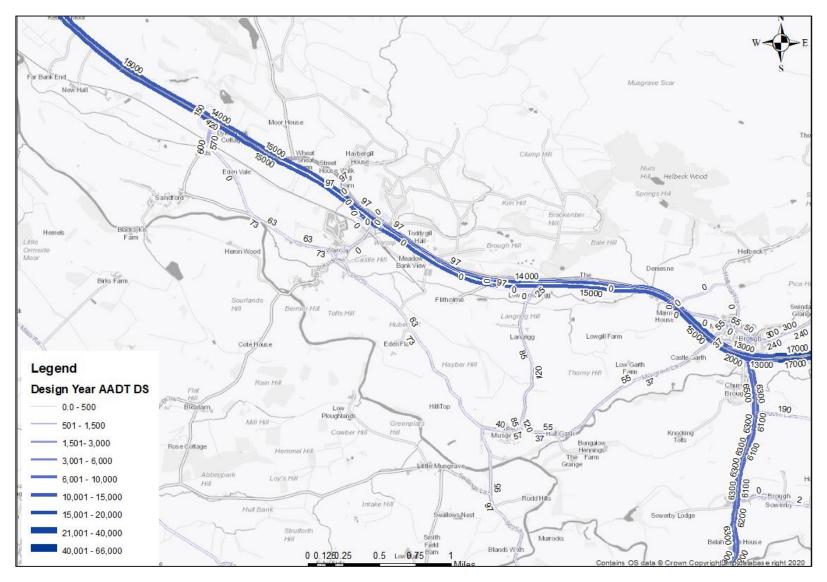


Figure 11-11: Appleby to Brough BLACK-BLUE-BLACK ROUTE: Forecast Year DS Flow



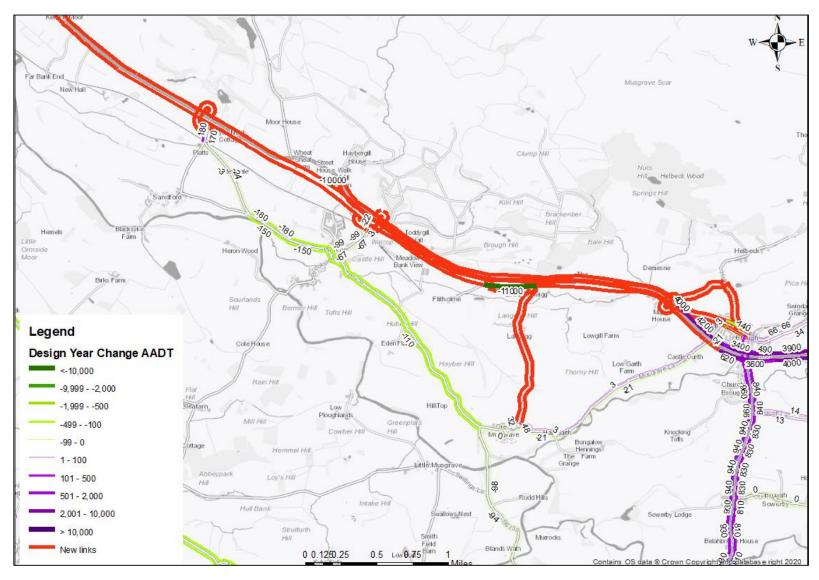


Figure 11-12: Appleby to Brough **BLACK-BLUE-BLACK ROUTE**: Forecast Year DS Flow (Changes from DM)



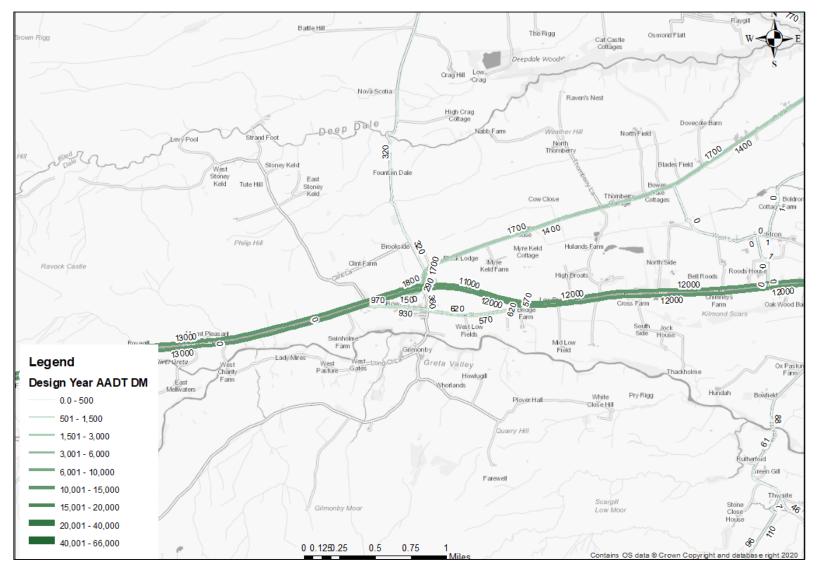


Figure 11-13: Bowes Bypass: Forecast Year DM Flows



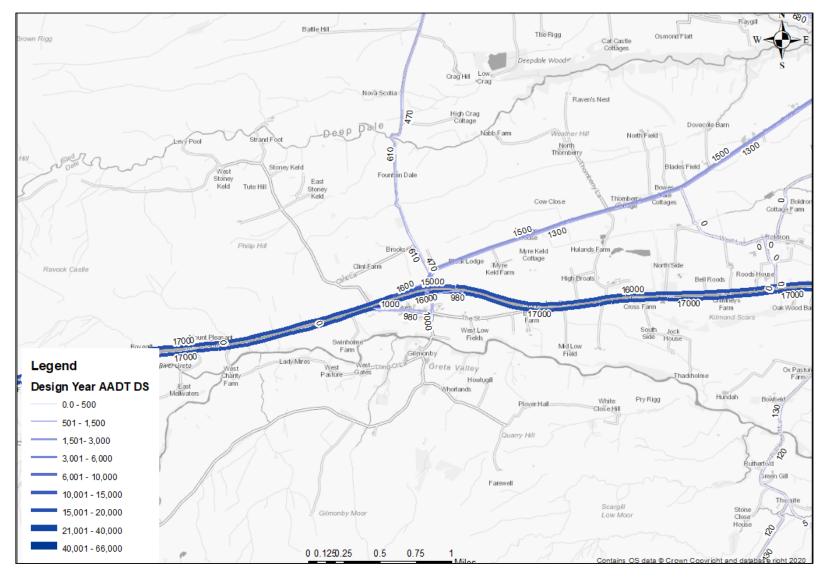


Figure 11-14: Bowes Bypass: Forecast Year DS Flow



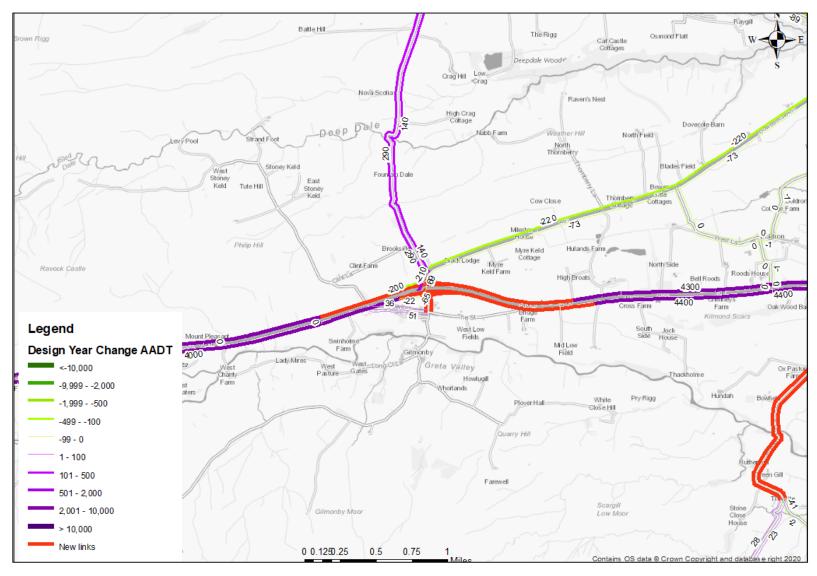


Figure 11-15: Bowes Bypass: Forecast Year DS Flow (Changes from DM)



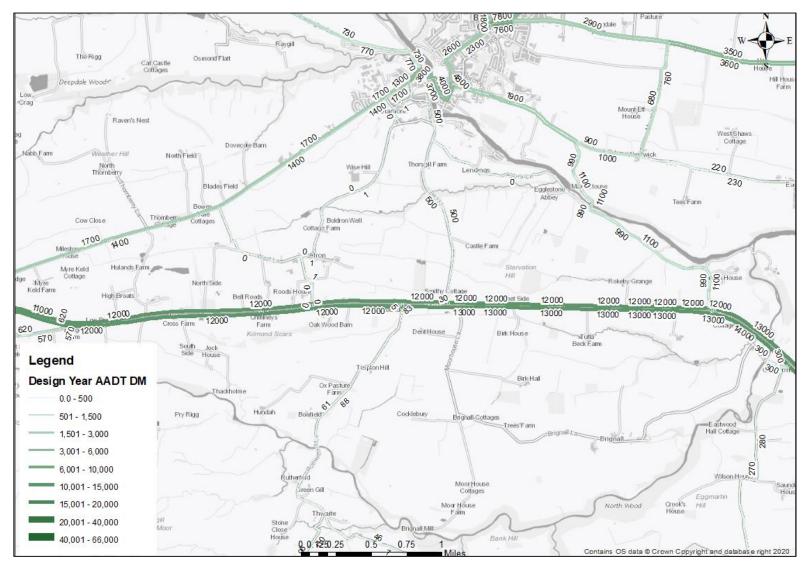


Figure 11-16: Cross Lanes to Rokeby: Forecast Year DM Flows



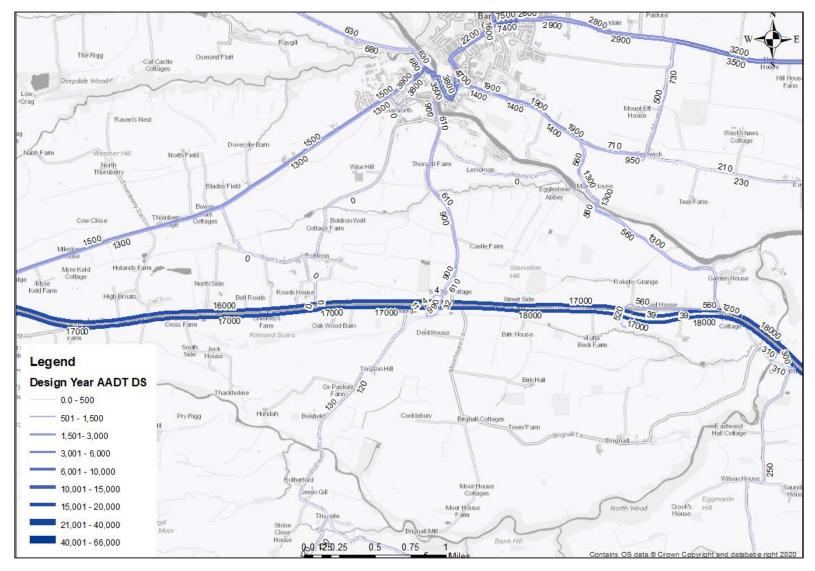


Figure 11-17: Cross Lanes to Rokeby: BLACK ROUTE Forecast Year DS Flow



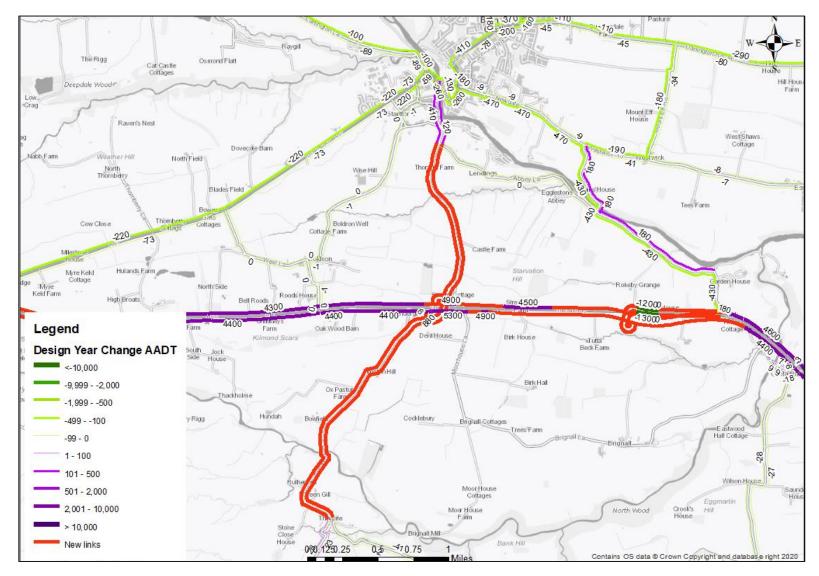


Figure 11-18: Cross Lanes to Rokeby: **BLACK ROUTE** Forecast Year DS Flow (Changes from DM)



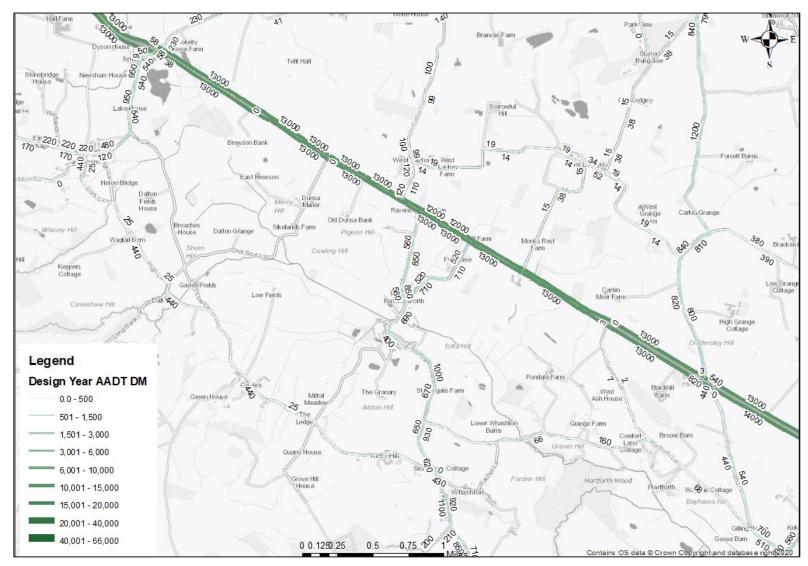


Figure 11-19: Stephen Bank to Carkin Moor: Forecast Year DM Flows



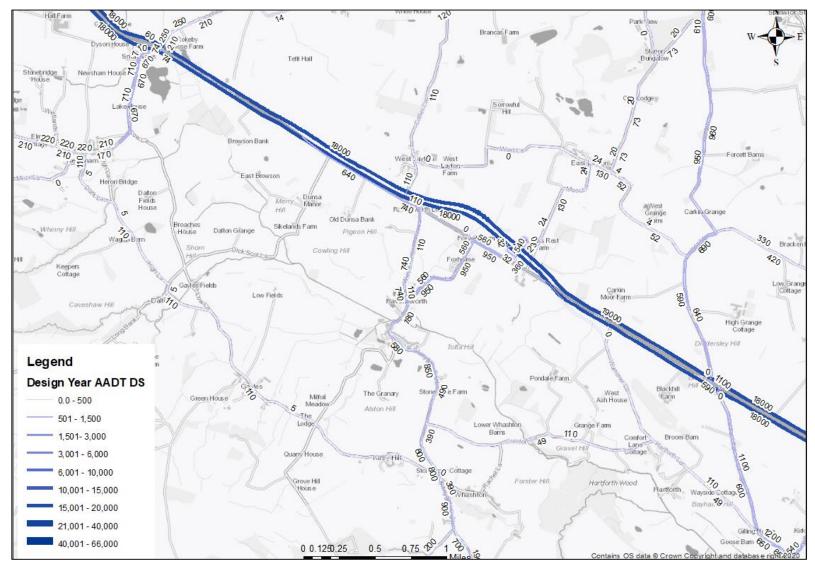


Figure 11-20: Stephen Bank to Carkin Moor: Forecast Year DS Flow



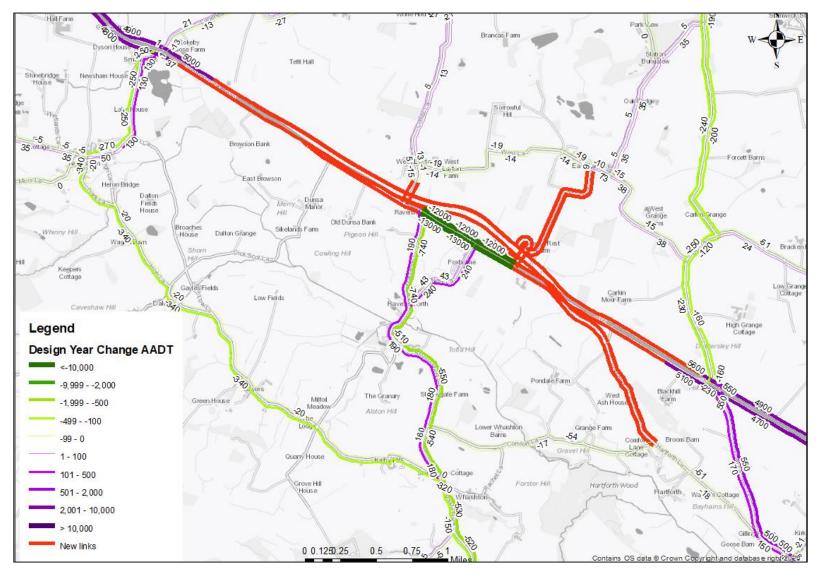


Figure 11-21: Stephen Bank to Carkin Moor: Forecast Year DS Flow (Changes from DM)



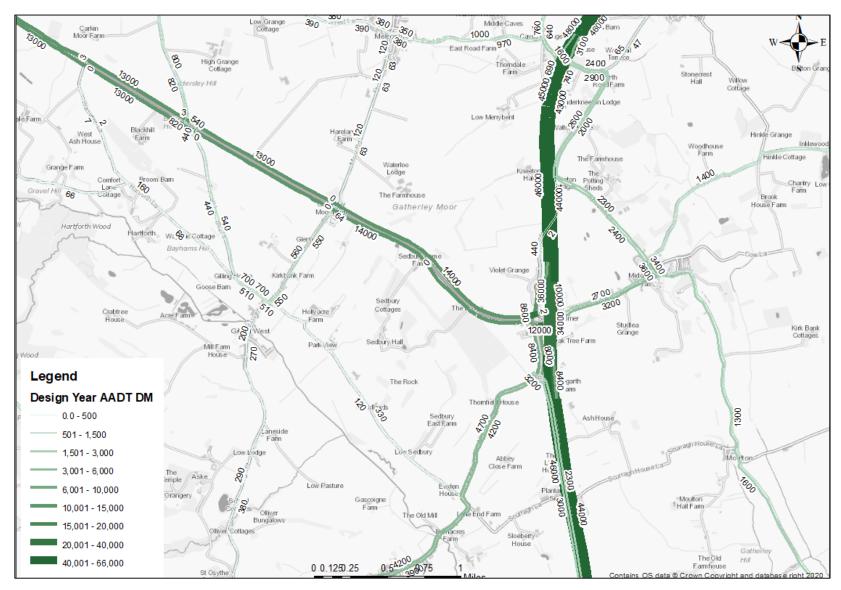


Figure 11-22: A1(M) Scotch Corner: Forecast Year DM Flows



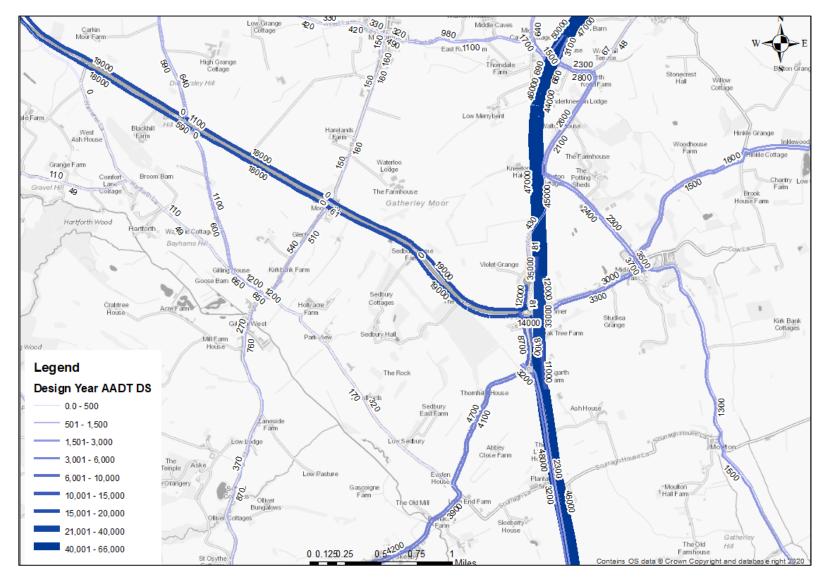


Figure 11-23: A1(M) Scotch Corner - Forecast Year DS Flow



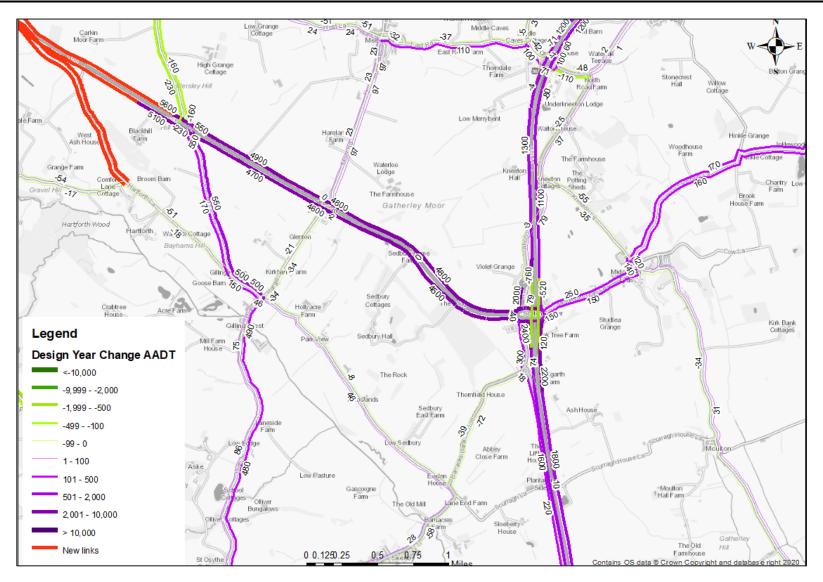


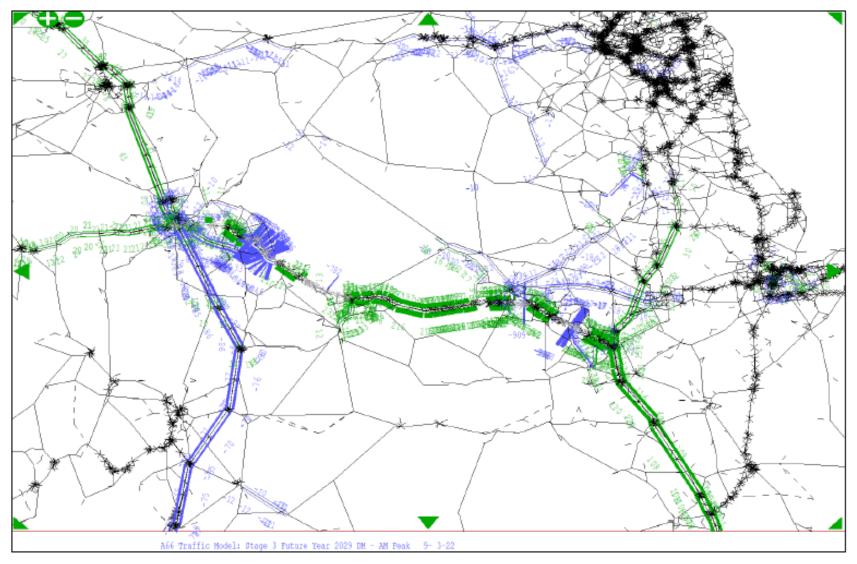
Figure 11-24: A1(M) Scotch Corner - Forecast Year DS Flow (Changes from DM)



D Core Scenario Flow Difference Plots by Period

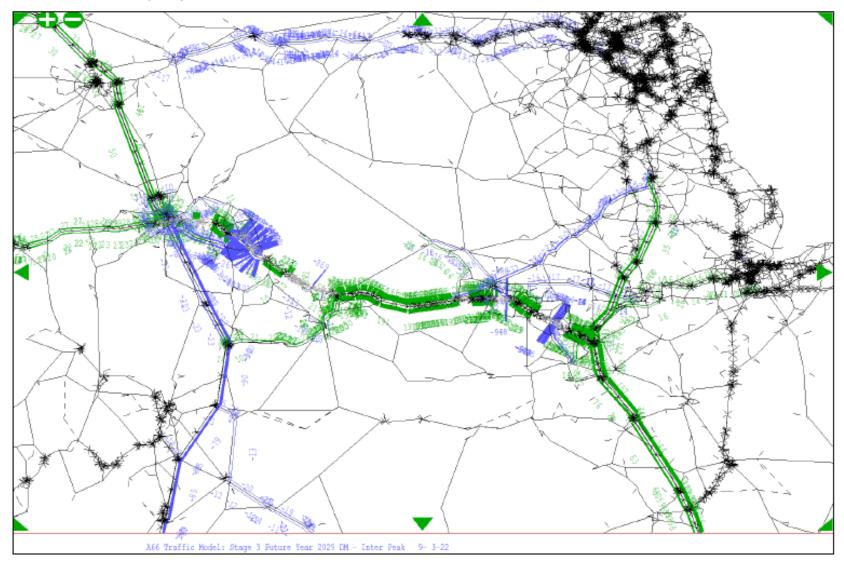


AM 2029 Flow Difference (PCUs) DS vs. DM



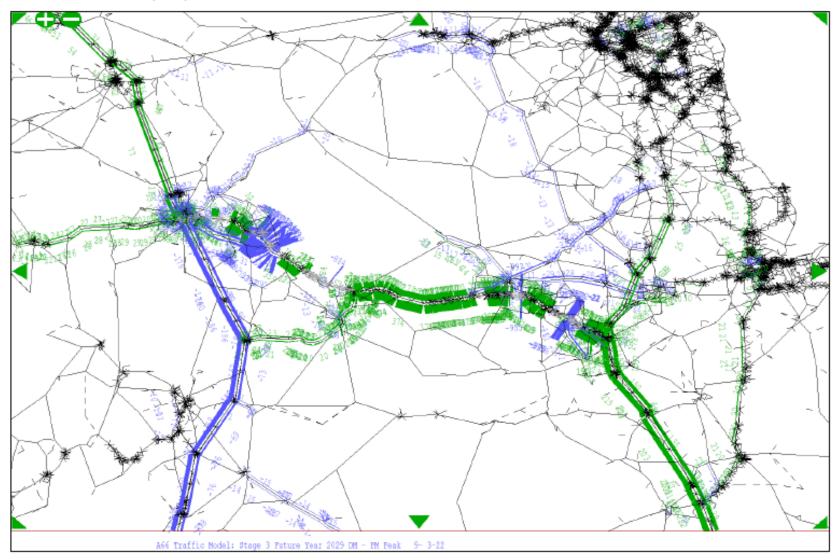


IP 2029 Flow Difference (PCUs) DS vs. DM



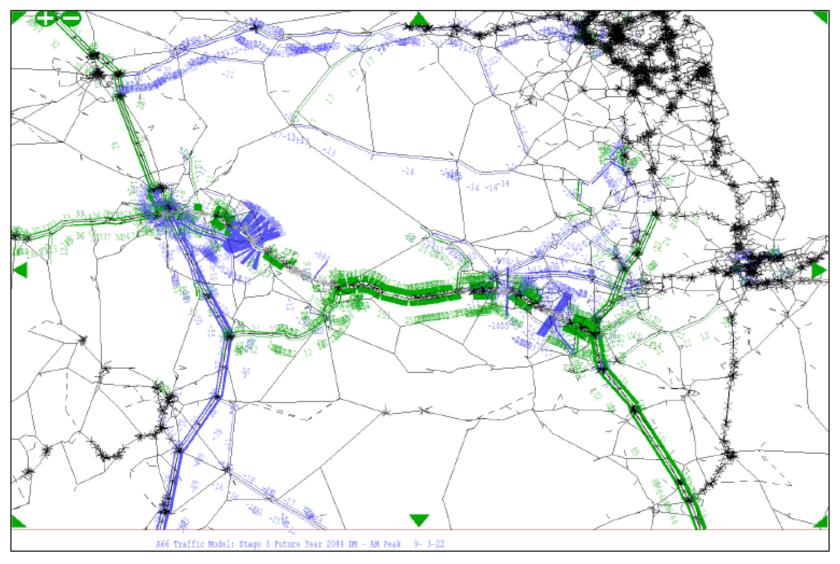


PM 2029 Flow Difference (PCUs) DS vs. DM



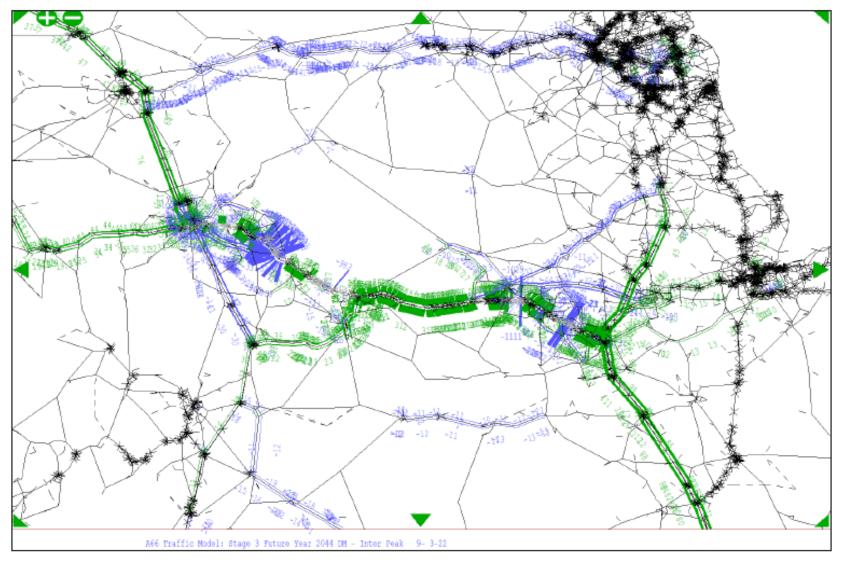


AM 2044 Flow Difference (PCUs) DS vs. DM



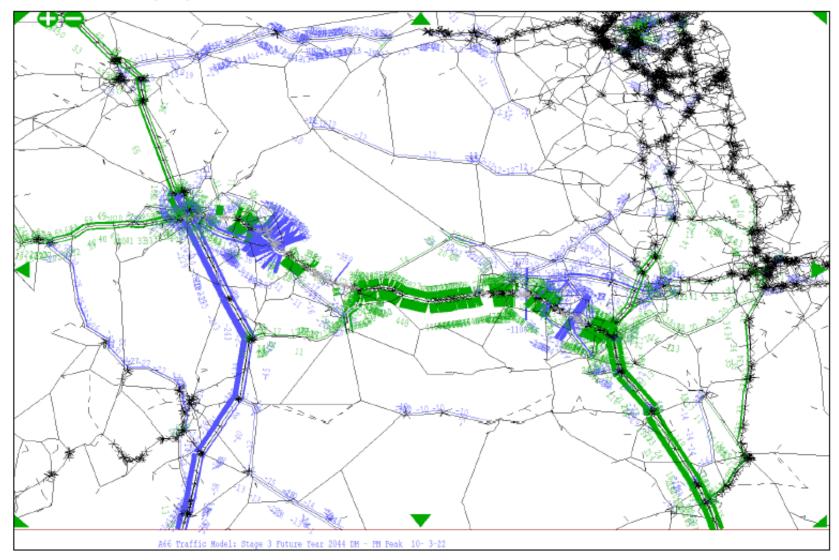


IP 2044 Flow Difference (PCUs) DS vs. DM



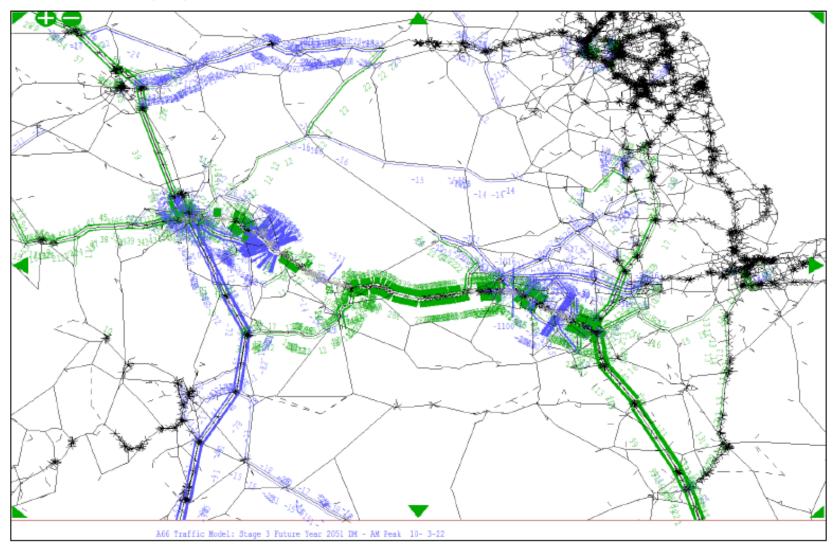


PM 2044 Flow Difference (PCUs) DS vs. DM



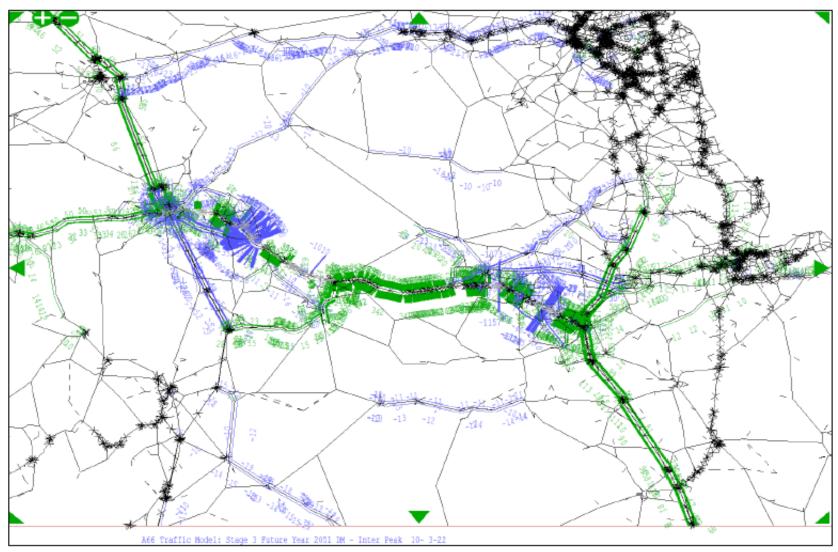


AM 2051 Flow Difference (PCUs) DS vs. DM



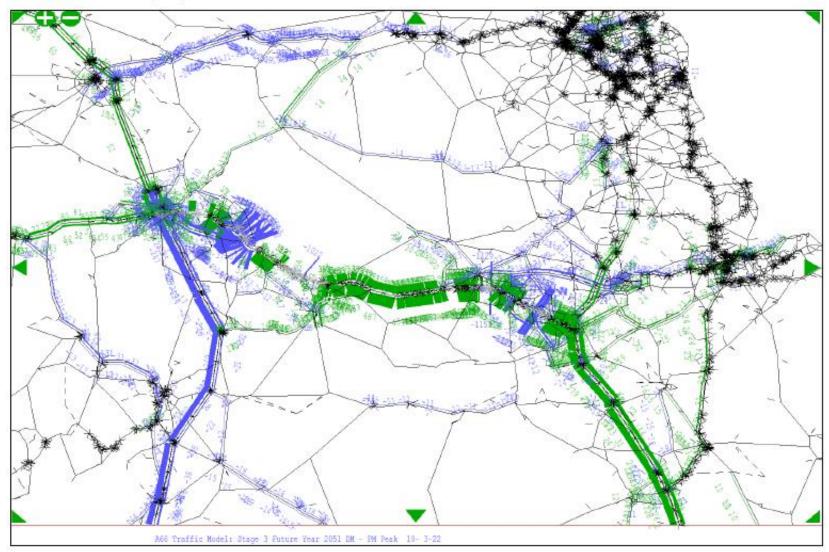


IP 2051 Flow Difference (PCUs) DS vs. DM





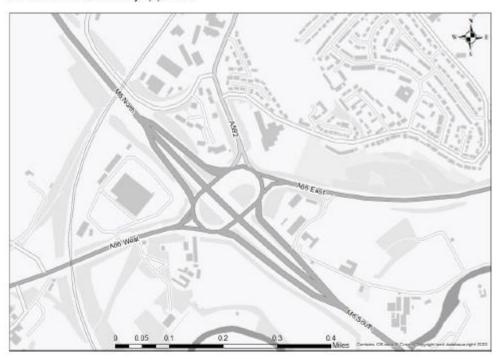
PM 2051 Flow Difference (PCUs) DS vs. DM





E Core Scenario Forecast Delay

Junction 40 Forecast Delays (s) - 2029



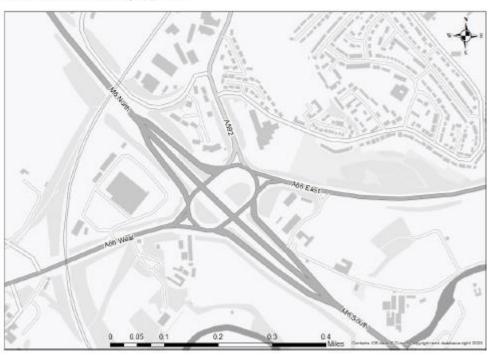
AM	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A592	30	43	20	13 (45%)	-23 (-53%)
A66 East	18	19	19	1 (5%)	1 (4%)
M6 South	38	41	22	3 (9%)	-19 (-47%)
A66 West	24	40	22	16 (65%)	-18 (-45%)
M6 North	17	23	25	6 (34%)	2 (8%)

IP	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A592	24	40	14	15 (64%)	-26 (-65%)
A66 East	14	17	12	3 (24%)	-6 (-33%)
M6 South	42	54	26	12 (30%)	-28 (-52%)
A66 West	22	32	22	11 (48%)	-10 (-31%)
M6 North	15	17	27	2 (12%)	10 (57%)

PM.	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A592	28	87	15	59 (210%)	-72 (-83%)
A66 East	14	18	13	4 (26%)	-6 (-31%)
M6 South	47	77	26	30 (64%)	-51 (-88%)
A66 West	22	36	23	14 (64%)	-14 (-37%)
M6 North	16	18	29	2 (14%)	11 (61%)



Junction 40 Forecast Delays (s) - 2051



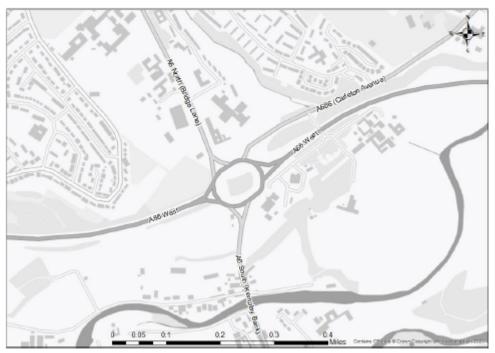
AM	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A592	30	77	21	48 (160%)	-58 (-72%)
A66 East	18	20	22	3 (16%)	2 (9%)
M6 South	38	78	23	40 (107%)	-55 (-71%)
A66 West	24	72	23	48 (200%)	-50 (-69%)
M6 North	17	34	38	17 (100%)	3 (10%)

IP	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A592	24	71	15	47 (193%)	-56 (-79%)
A66 East	14	19	13	5 (33%)	-6 (-32%)
M6 South	42	113	27	71 (170%)	-86 (-76%)
A66 West	22	56	24	35 (159%)	-33 (-58%)
M6 North	15	19	35	4 (25%)	15 (80%)

PM	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A592	28	113	16	85 (303%)	-97 (-86%)
A66 East	14	20	14	6 (40%)	-6 (-31%)
M6 South	47	147	27	100 (214%)	-120 (-81%)
A66 West	22	123	25	101 (457%)	-98 (-80%)
M6 North	16	20	63	4 (28%)	43 (212%)



Kemplay Bank Forecast Delays (s) - 2029



AM	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	61	77	27	16 (25%)	-50 (-65%)
A66 East	21	22	17	1 (6%)	-5 (-22%)
A6 South (Kemplay Bank)	20	21	21	1 (6%)	0 (0%)
A66 West	14	18	30	4 (27%)	12 (67%)
A6 North (Bridge Lane)	18	26	26	8 (41%)	0 (1%)

IP	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	44	49	28	5 (12%)	-21 (-43%)
A66 East	20	29	21	9 (43%)	-9 (-29%)
A6 South (Kemplay Bank)	24	30	30	6 (27%)	0 (0%)
A66 West	11	13	16	2 (23%)	2 (19%)
A6 North (Bridge Lane)	18	25	25	7 (41%)	0 (2%)

PM	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	59	72	30	14 (23%)	-42 (-58%)
A66 East	21	33	21	12 (59%)	-12 (-36%)
A6 South (Kemplay Bank)	25	36	35	11 (42%)	0 (-1%)
A66 West	11	14	17	3 (26%)	4 (25%)
A6 North (Bridge Lane)	19	27	27	8 (44%)	0 (1%)



Kemplay Bank Forecast Delays (s) - 2051



AM	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	61	119	30	58 (94%)	-89 (-74%)
A66 East	21	29	18	9 (41%)	-12 (-40%)
A6 South (Kemplay Bank)	20	20	21	0 (0%)	1 (6%)
A66 West	14	24	50	9 (66%)	27 (113%)
A6 North (Bridge Lane)	18	26	27	8 (42%)	1 (3%)

IP	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	44	67	30	23 (52%)	-36 (-54%)
A66 East	20	55	22	34 (168%)	-33 (-60%)
A6 South (Kemplay Bank)	24	33	32	9 (39%)	0 (-1%)
A66 West	11	15	16	4 (40%)	1 (6%)
A6 North (Bridge Lane)	18	25	26	8 (43%)	0 (2%)

РМ	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A686 (Carleton Avenue)	59	108	36	49 (84%)	-72 (-87%)
A66 East	21	85	23	64 (306%)	-82 (-73%)
A6 South (Kemplay Bank)	25	49	41	24 (97%)	-9 (-18%)
A66 West	11	16	18	5 (41%)	3 (18%)
A6 North (Bridge Lane)	19	29	28	10 (55%)	-1 (-2%)



Scotch Comer Forecast Delays (s) - 2029



АМ	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A1(M) North	15	16	17	1 (6%)	1 (4%)
Middleton Tyas Ln	7	8	9	1 (11%)	1 (7%)
A1(M) South	21	21	22	1 (2%)	1 (4%)
A6108 (Barracks Bank)	19	20	20	1 (4%)	0 (0%)
A66	12	13	14	0 (3%)	1 (7%)
A6055	6	6	6	0 (2%)	0 (3%)

IP	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A1(M) North	18	20	21	2 (10%)	1 (6%)
Middleton Tyas Ln	7	8	9	1 (16%)	1 (9%)
A1(M) South	14	15	15	0 (3%)	0 (3%)
A6108 (Barracks Bank)	15	16	16	1 (7%)	0 (0%)
A66	14	15	16	0 (3%)	2 (10%)
A6055	6	6	6	0 (3%)	0 (4%)

PM	Base 2019	DM 2029	DS 2029	DM vs. Base	DS vs. DM
A1(M) North	19	22	24	3 (17%)	2 (10%)
Middleton Tyas Ln	8	10	11	2 (30%)	1 (12%)
A1(M) South	14	15	16	1 (4%)	1 (9%)
A6108 (Barracks Bank)	16	18	18	3 (17%)	0 (0%)
A66	14	15	17	1 (4%)	2 (13%)
A6055	6	6	6	0 (4%)	1 (9%)



Scotch Comer Forecast Delays (s) - 2051



AM	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A1(M) North	15	17	18	2 (11%)	1 (7%)
Middleton Tyas Ln	7	10	12	3 (41%)	2 (16%)
A1(M) South	21	22	24	1 (7%)	1 (6%)
A6108 (Barracks Bank)	19	21	21	2 (8%)	0 (0%)
A66	12	13	15	1 (8%)	2 (13%)
A6055	6	6	6	0 (5%)	0 (8%)

IP	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A1(M) North	18	21	25	3 (18%)	3 (16%)
Middleton Tyas Ln	7	11	12	3 (48%)	2 (15%)
A1(M) South	14	15	16	1 (7%)	1 (5%)
A6108 (Barracks Bank)	15	16	16	2 (10%)	0 (0%)
A66	14	16	18	1 (9%)	2 (15%)
A6055	6	6	6	0 (6%)	0 (8%)

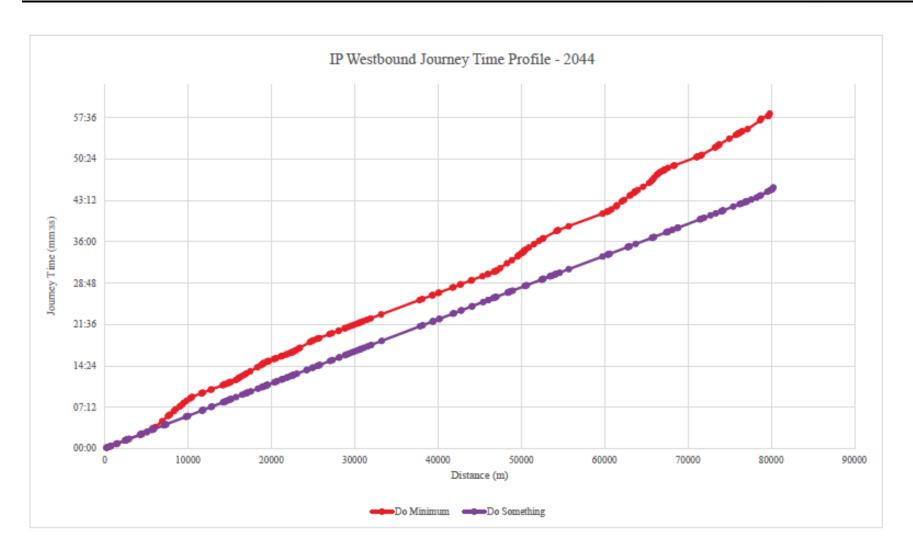
PM	Base 2019	DM 2051	DS 2051	DM vs. Base	DS vs. DM
A1(M) North	19	24	26	5 (27%)	2 (10%)
Middleton Tyas Ln	8	14	15	7 (88%)	1 (7%)
A1(M) South	14	16	18	1 (8%)	2 (12%)
A6108 (Barracks Bank)	16	20	20	4 (28%)	0 (1%)
A66	14	16	19	1 (10%)	3 (19%)
A6055	6	6	7	1 (13%)	1 (13%)



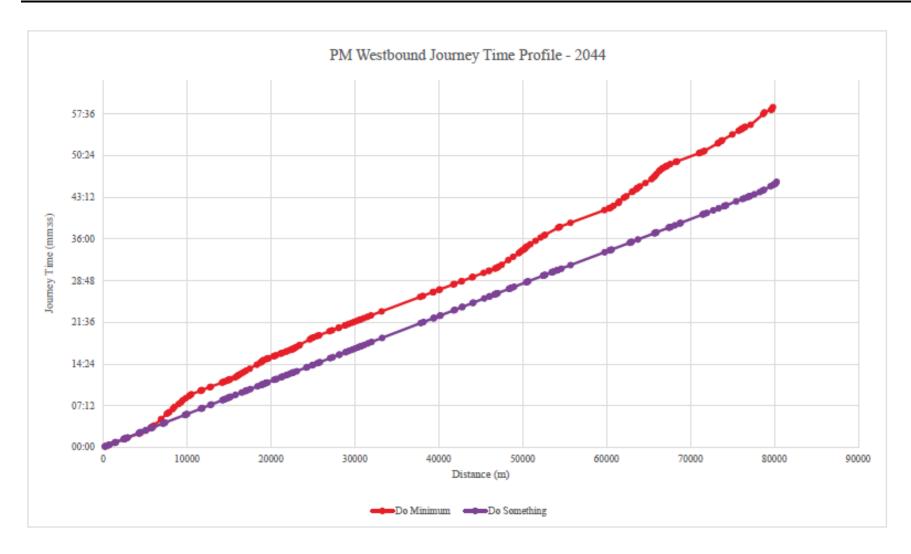
F Core Scenario Journey Time Profiles



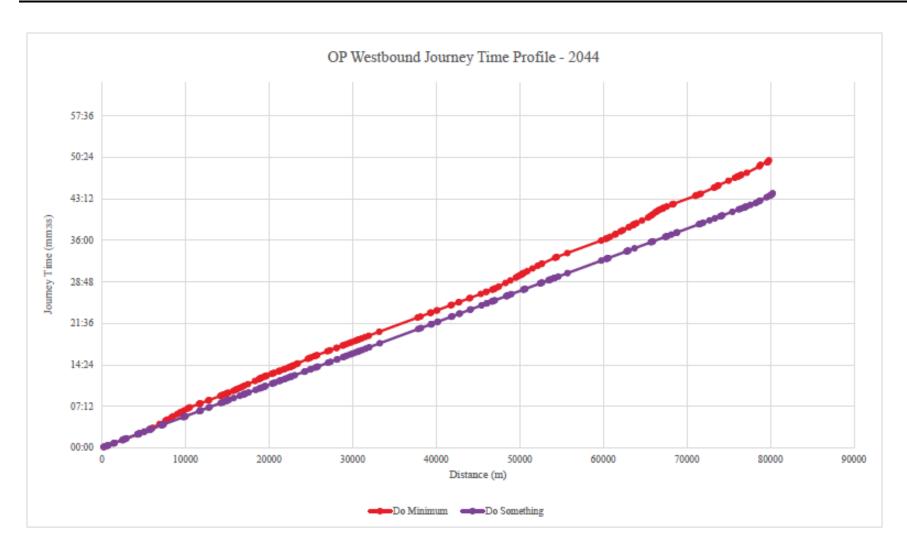








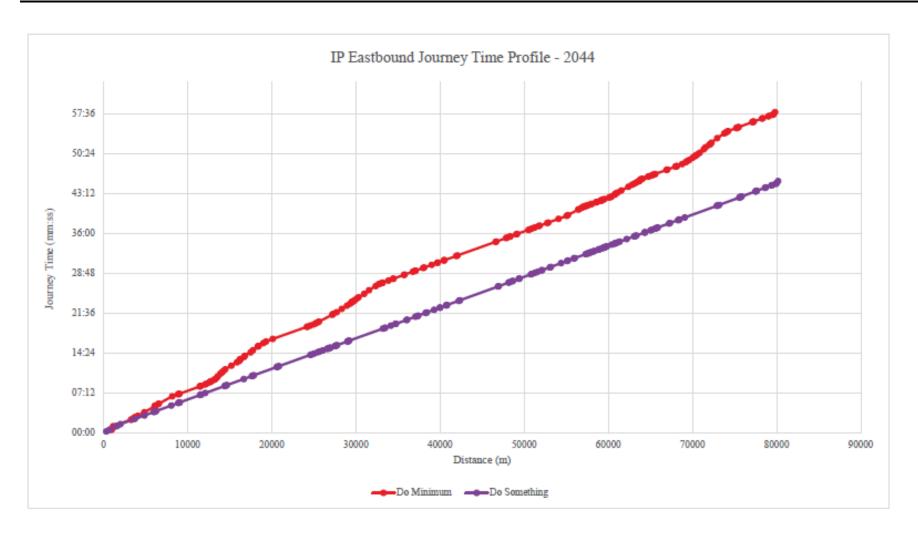




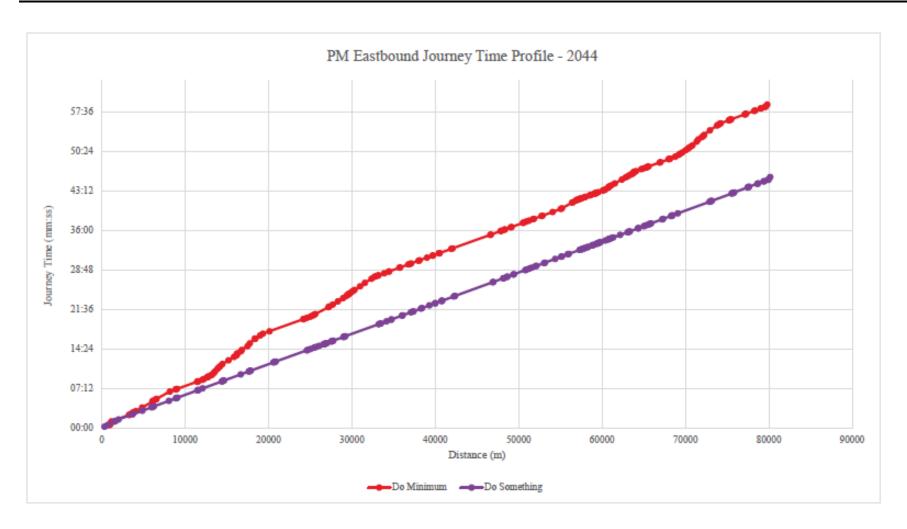




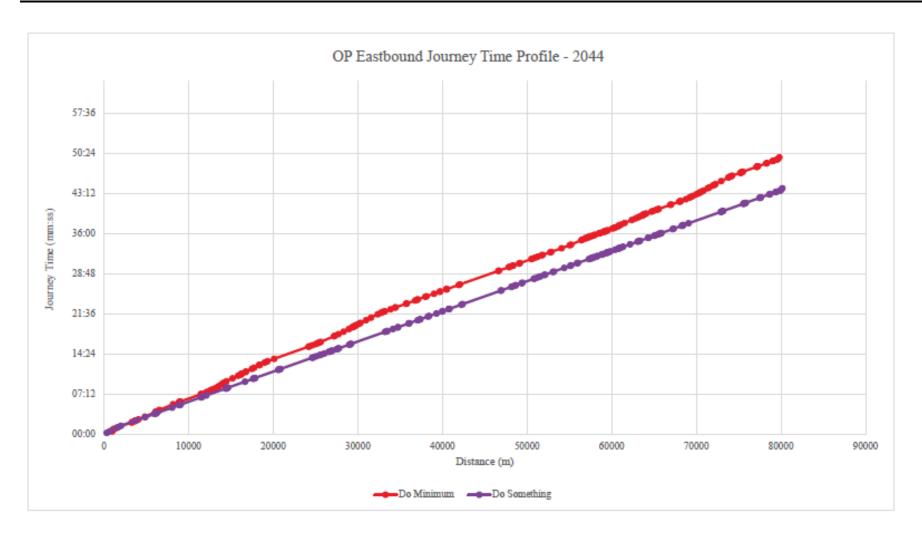














G Sensitivity Test Assignment Convergence

Low Scenario Convergence Statistics

Do Minimum 2029

AM Peak			Inter Pea	k		PM Peak			
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP	
22	98.8	0.000	19	99.3	0.001	25	98.8	0.002	
23	99.3	0.000	20	98.6	0.000	26	98.8	0.001	
24	98.8	0.000	21	99.7	0.000	27	98.8	0.002	
25	98.8	0.000	22	99.2	0.000	28	98.8	0.001	

Do Minimum 2044

AM Peak			Inter Pea	k		PM Peak		
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP
22	98.7	0.000	19	98.8	0.000	28	98.9	0.001
23	99.1	0.000	20	98.9	0.001	29	98.9	0.001
24	99.4	0.000	21	99	0.000	30	98.7	0.001
25	98.7	0.000	22	98.6	0.000	31	99.0	0.001

Do Minimum 2051

AM Peak			Inter Pea	k		PM Peak			
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP	
23	98.6	0.001	19	98.7	0.000	27	98.6	0.002	
24	99	0.001	20	98.9	0.001	28	98.7	0.001	
25	98.7	0.000	21	99	0.000	29	99	0.001	
26	98.9	0.000	22	98.8	0.000	30	99.0	0.002	

Do Something 2029

AM Peak			Inter Pea	k		PM Peak		
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP
20	98.9	0.000	18	99.1	0.000	23	98.6	0.001
21	98.8	0.000	19	98.6	0.000	24	98.7	0.001
22	98.7	0.000	20	99.3	0.000	25	98.8	0.001
23	99.0	0.000	21	98.9	0.000	26	98.7	0.001

Do Something 2044

AM Peak			Inter Pea	k		PM Peak			
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP	
26	99.6	0.000	18	98.6	0.001	30	98.6	0.001	
27	99.2	0.000	19	99	0.000	31	99.1	0.001	
28	98.8	0.000	20	98.5	0.000	32	99	0.001	
29	99.4	0.000	21	98.6	0.001	33	98.7	0.001	



Do Something 2051

AM Peak			Inter Pea	k		PM Peak			
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP	
25	98.9	0.000	17	98.7	0.001	31	98.7	0.002	
26	99.2	0.001	18	98.6	0.000	32	98.5	0.001	
27	98.6	0.000	19	98.7	0.000	33	98.8	0.001	
28	99.1	0.000	20	98.8	0.001	34	98.7	0.001	

High Scenario Convergence Statistics

Do Minimum 2029

AM Peak			Inter Pea	Inter Peak			PM Peak			
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP		
26	98.8	0.001	19	98.6	0.000	32	98.8	0.001		
27	98.6	0.000	20	99	0.000	33	99	0.001		
28	99	0.000	21	98.9	0.000	34	98.9	0.002		
29	99.1	0.000	22	99.1	0.000	35	98.7	0.001		

Do Minimum 2044

AM Peak			Inter Peak			PM Peak		
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP
38	98.6	0.001	28	98.7	0.001	41	98.7	0.002
39	98.7	0.001	29	99	0.001	42	98.5	0.002
40	98.7	0.001	30	99	0.001	43	98.9	0.002
41	98.7	0.001	31	98.7	0.001	44	98.7	0.002

Do Minimum 2051

AM Peak In			Inter Pea	Inter Peak			PM Peak			
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP		
37	98.6	0.001	39	99.1	0.001	46	98.7	0.002		
38	98.6	0.002	40	98.9	0.000	47	99	0.001		
39	98.6	0.001	41	99.2	0.000	48	98.8	0.003		
40	98.7	0.002	42	99.4	0.001	49	98.8	0.001		

Do Something 2029

AM Peak			Inter Pea	Inter Peak			PM Peak			
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP		
26	99.2	0.000	18	98.6	0.000	26	98.6	0.002		
27	99.2	0.000	19	98.5	0.000	27	98.5	0.002		
28	98.7	0.000	20	98.8	0.000	28	98.8	0.001		
29	99.4	0.000	21	98.8	0.000	29	99.0	0.001		



Do Something 2044

AM Peak			Inter Peak			PM Peak			
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP	
44	98.5	0.001	27	98.7	0.000	40	98.8	0.002	
45	98.7	0.001	28	98.7	0.000	41	98.8	0.002	
46	98.9	0.001	29	99	0.001	42	99.1	0.001	
47	98.5	0.001	30	99.0	0.001	43	98.8	0.002	

Do Something 2051

AM Peak			Inter Peak			PM Peak		
Loop	% Flow	% GAP	Loop	% Flow	% GAP	Loop	% Flow	% GAP
42	99.3	0.001	31	98.6	0.001	47	98.9	0.001
43	98.9	0.002	32	98.6	0.001	48	99.1	0.001
44	98.7	0.001	33	98.8	0.001	49	99	0.002
45	99.2	0.001	34	98.7	0.002	50	98.6	0.002



H Sensitivity Test Network Statistics



Forecast Network Performance - Network Statistics High & Low

Values in the tables represent the following:

- Time Total Travel Time, pcu hours (000)
- Distance Total Distance Travelled, pcu kms (000)
- Speed Total Average Speed, kph
- Trips Total Trip, (pcu/hr)

Network Statistics - 2029 Values (Low)

Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
Reference Forecast	AM	1,707	119,130	70	1,534,862
	IP	1,194	86,222	72	1,156,390
	PM	1,636	114,199	70	1,548,242
DM Post VDM	AM	1,803	125,921	70	1,596,815
	IP	1,260	91,029	72	1,202,244
	PM	1,733	121,073	70	1,612,817
DS Post VDM	AM	1,803	125,951	70	1,596,816
	IP	1,260	91,076	72	1,202,314
	PM	1,733	121,124	70	1,612,850

Network Statistics - 2029 Differences (Low)

Scenario	Time Period	Time	Distance	Speed	Trips
Reference vs.	AM	5 (0%)	-1,099 (-1%)	-1 (-1%)	-10,959 (-1%)
Base	IP	6 (0%)	-719 (-1%)	-1 (-1%)	-5,007 (0%)
	PM	6 (0%)	-883 (-1%)	-1 (-1%)	-7,417 (0%)
DM Post VDM vs	AM	96 (6%)	6,791 (6%)	0 (0%)	61,953 (4%)
Reference	IP	66 (6%)	4,807 (6%)	0 (0%)	45,853 (4%)
	PM	98 (6%)	6,874 (6%)	0 (0%)	64,575 (4%)
DS Post VDM vs	AM	0 (0%)	30 (0%)	0 (0%)	1 (0%)
DM Post VDM	IP	0 (0%)	47 (0%)	0 (0%)	70 (0%)
	PM	0 (0%)	51 (0%)	0 (0%)	33 (0%)

Network Statistics - 2029 Values (High)

Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
Reference Forecast	AM	1,983	138,145	70	1,779,278
	IP	1,387	99,962	72	1,340,023
	PM	1,902	132,406	70	1,794,198
DM Post VDM	AM	2,093	145,900	70	1,849,931
	IP	1,482	105,428	72	1,392,619
	PM	2,011	140,200	70	1,866,707
DS Post VDM	AM	2,093	145,938	70	1,849,940
	IP	1,462	105,486	72	1,392,710
	PM	2,012	140,259	70	1,866,749



Network Statistics - 2029 Differences (High)

Scenario	Time Period	Time	Distance	Speed	Trips
Reference vs. Base	AM	282 (17%)	17,917 (15%)	-1 (-2%)	233,457 (15%)
	IP	198 (17%)	13,021 (15%)	-1 (-1%)	178,627 (15%)
	PM	272 (17%)	17,325 (15%)	-1 (-1%)	238,539 (15%)
DM Post VDM vs	AM	110 (6%)	7,755 (6%)	0 (0%)	70,653 (4%)
Reference	IP	75 (5%)	5,466 (5%)	0 (0%)	52,595 (4%)
	PM	110 (6%)	7,794 (6%)	0 (0%)	72,508 (4%)
DS Post VDM vs	AM	0 (0%)	38 (0%)	0 (0%)	9 (0%)
DM Post VDM	IP	0 (0%)	58 (0%)	0 (0%)	91 (0%)
	PM	0 (0%)	59 (0%)	0 (0%)	42 (0%)

Network Statistics - 2044 Values (Low)

Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
Reference Forecast	AM	1,847	126,931	69	1,636,777
	IP	1,294	91,974	71	1,236,854
	PM	1,768	121,513	69	1,650,753
DM Post VDM	AM	2,095	144,169	69	1,792,493
	IP	1,466	104,276	71	1,354,543
	PM	2,020	139,029	69	1,813,846
DS Post VDM	AM	2,095	144,211	69	1,792,502
	IP	1,466	104,340	71	1,354,645
	PM	2,020	139,093	69	1,813,872

Network Statistics - 2044 Differences (Low)

Scenario	Time Period	Time	Distance	Speed	Trips
Reference vs. Base	AM	146 (9%)	6,703 (6%)	-2 (-3%)	90,956 (6%)
	IP	105 (9%)	5,032 (6%)	-2 (-3%)	75,457 (6%)
	PM	138 (8%)	6,432 (6%)	-2 (-3%)	95,094 (6%)
DM Post VDM vs	AM	249 (13%)	17,238 (14%)	0 (0%)	155,716 (10%)
Reference	IP	172 (13%)	12,303 (13%)	0 (0%)	117,689 (10%)
	PM	252 (14%)	17,516 (14%)	0 (0%)	163,093 (10%)
DS Post VDM vs	AM	0 (0%)	41 (0%)	0 (0%)	10 (0%)
DM Post VDM	IP	0 (0%)	64 (0%)	0 (0%)	101 (0%)
	PM	0 (0%)	65 (0%)	0 (0%)	26 (0%)

Network Statistics - 2044 Values (High)

Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
Reference Forecast	AM	2,295	157,033	68	2,023,232
	IP	1,605	113,713	71	1,527,203
	PM	2,199	150,350	68	2,039,668



DM Post VDM	AM	2,601	178,342	69	2,215,703
	IP	1,816	128,787	71	1,672,395
	PM	2,506	171,834	69	2,238,807
DS Post VDM	AM	2,601	178,394	69	2,215,727
	IP	1,816	128,870	71	1,672,523
	PM	2,506	171,913	69	2,238,836

Network Statistics - 2044 Differences (High)

Scenario	Time Period	Time	Distance	Speed	Trips
Reference vs.	AM	593 (35%)	36,804 (31%)	-2 (-3%)	477,411 (31%)
Base	IP	416 (35%)	26,772 (31%)	-2 (-3%)	365,807 (31%)
	PM	570 (35%)	35,268 (31%)	-2 (-3%)	484,009 (31%)
DM Post VDM vs	AM	306 (13%)	21,309 (14%)	0 (0%)	192,471 (10%)
Reference	IP	211 (13%)	15,074 (13%)	0 (0%)	145,192 (10%)
	PM	307 (14%)	21,484 (14%)	0 (0%)	199,138 (10%)
DS Post VDM vs	AM	0 (0%)	52 (0%)	0 (0%)	24 (0%)
DM Post VDM	IP	0 (0%)	83 (0%)	0 (0%)	127 (0%)
	PM	0 (0%)	79 (0%)	0 (0%)	30 (0%)

Network Statistics - 2051 Values (Low)

Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
Reference Forecast	AM	1,914	130,962	68	1,689,690
	IP	1,342	94,981	71	1,279,119
	PM	1,833	125,444	68	1,706,322
DM Post VDM	AM	2,199	150,683	69	1,867,315
	IP	1,541	109,133	71	1,414,312
	PM	2,123	145,484	69	1,892,400
DS Post VDM	AM	2,199	150,728	69	1,867,342
	IP	1,541	109,205	71	1,414,411
	PM	2,124	145,554	69	1,892,461

Network Statistics - 2051 Differences (Low)

Scenario	Time Period	Time	Distance	Speed	Trips
Reference vs.	AM	213 (13%)	10,733 (9%)	-2 (-3%)	143,869 (9%)
Base	IP	154 (13%)	8,039 (9%)	-2 (-3%)	117,722 (10%)
	PM	204 (13%)	10,362 (9%)	-2 (-3%)	150,663 (10%)
DM Post VDM vs	AM	286 (15%)	19,721 (15%)	0 (0%)	177,625 (11%)
Reference	IP	199 (15%)	14,152 (15%)	0 (0%)	135,194 (11%)
	PM	290 (16%)	20,040 (16%)	0 (0%)	186,078 (11%)
DS Post VDM vs	AM	0 (0%)	44 (0%)	0 (0%)	27 (0%)
DM Post VDM	IP	0 (0%)	71 (0%)	0 (0%)	98 (0%)
	PM	0 (0%)	70 (0%)	0 (0%)	61 (0%)

Network Statistics - 2051 Values (High)



Scenario	Time Period	Time	Distance	Speed	Trips
Base 2019	AM	1,701	120,229	71	1,545,821
	IP	1,189	86,941	73	1,161,397
	PM	1,629	115,082	71	1,555,659
Reference Forecast	AM	2,424	165,032	68	2,126,915
	IP	1,697	119,582	71	1,607,611
	PM	2,326	158,092	68	2,146,329
DM Post VDM	AM	2,780	189,745	68	2,349,505
	IP	1,943	137,116	71	1,776,252
	PM	2,682	182,973	68	2,376,035
DS Post VDM	AM	2,780	189,802	68	2,349,529
	IP	1,943	137,208	71	1,776,380
	PM	2,682	183,058	68	2,376,080

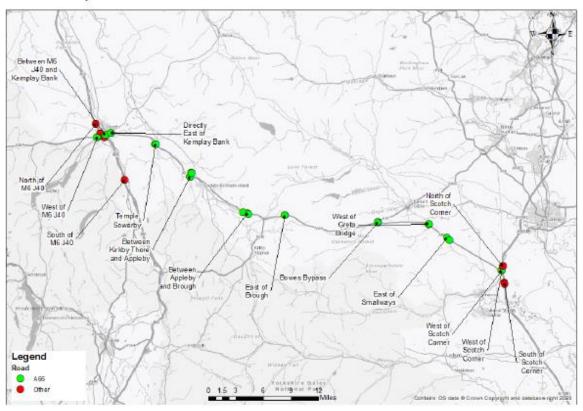
Network Statistics - 2051 Differences (High)

Scenario	Time Period	Time	Distance	Speed	Trips
Reference vs.	AM	723 (42%)	44,803 (37%)	-3 (-4%)	581,094 (38%)
Base	IP	508 (43%)	32,640 (38%)	-3 (-4%)	446,214 (38%)
	PM	696 (43%)	43,011 (37%)	-3 (-4%)	590,670 (38%)
DM Post VDM vs	AM	356 (15%)	24,713 (15%)	0 (0%)	222,591 (10%)
Reference	IP	246 (15%)	17,534 (15%)	0 (0%)	168,641 (10%)
	PM	356 (15%)	24,881 (16%)	0 (0%)	229,706 (11%)
DS Post VDM vs	AM	0 (0%)	58 (0%)	0 (0%)	24 (0%)
DM Post VDM	IP	0 (0%)	92 (0%)	0 (0%)	128 (0%)
	PM	0 (0%)	85 (0%)	0 (0%)	45 (0%)



Sensitivity Test A66 Flow Tables

Forecast Sensitivity Test Traffic Flows - 2029 & 2051



Low Scenario 12-Hour Traffic Flows (vehicles, two-way) - 2029

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	DS Post VDM vs. DM Post VDM
A66	West of M6 J40	16,584	16,378	17,411	17,963	-206 (-1%)	1,034 (6%)	552 (3%)
A66	Between M6 J40 and Kemplay Bank	25,699	25,773	27,658	31,015	73 (0%)	1,885 (7%)	3,357 (12%)
A66	Directly East of Kemplay Bank	17,598	17,852	18,846	23,602	254 (1%)	994 (6%)	4,756 (25%)
A66	Temple Sowerby	14,459	14,738	15,606	21,051	280 (2%)	868 (6%)	5,445 (35%)
A66	Between Kirkby Thore and Appleby	15,629	15,733	16,703	19,448	104 (1%)	970 (6%)	2,745 (16%)
A66	Between Appleby and Brough	13,038	12,996	13,854	18,854	-42 (0%)	859 (7%)	5,000 (36%)
A66	East of Brough	14,793	15,077	16,331	21,066	284 (2%)	1,253 (8%)	4,736 (29%)
A66	Bowes Bypass	12,701	13,220	14,198	19,272	519 (4%)	978 (7%)	5,074 (36%)
A66	West of Greta Bridge	15,422	15,902	17,034	22,431	480 (3%)	1,132 (7%)	5,397 (32%)
A66	East of Smallways	15,196	15,729	16,813	22,743	533 (4%)	1,084 (7%)	5,930 (35%)
A66	West of Scotch Comer	15,652	16,520	17,578	23,472	868 (6%)	1,058 (6%)	5,894 (34%)
A1(M)	North of Scotch Comer	49,043	52,183	57,532	59,343	3,140 (6%)	5,349 (10%)	1,810 (3%)
A1(M)	South of Scotch Corner	51,079	52,371	57,540	60,124	1,291 (3%)	5,169 (10%)	2,584 (4%)
M6	North of M6 J40	42,658	43,172	47,919	49,049	514 (1%)	4,747 (11%)	1,130 (2%)
M6	South of M6 J40	31,472	31,225	34,286	32,848	-248 (-1%)	3,061 (10%)	-1,438 (-4%)



Low Scenario 12-Hour Traffic Flows (vehicles, two-way) - 2051

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	DS Post VDM vs. DM Post VDM
A66	West of M6 J40	16,584	18,012	20,937	21,823	1,428 (9%)	2,925 (16%)	886 (4%)
A66	Between M6 J40 and Kemplay Bank	25,699	27,889	32,081	37,033	2,190 (9%)	4,192 (15%)	4,953 (15%)
A66	Directly East of Kemplay Bank	17,598	19,647	22,074	29,152	2,049 (12%)	2,427 (12%)	7,079 (32%)
A66	Temple Sowerby	14,459	16,228	18,388	26,244	1,769 (12%)	2,160 (13%)	7,856 (43%)
A66	Between Kirkby Thore and Appleby	15,629	17,171	19,542	24,371	1,542 (10%)	2,371 (14%)	4,829 (25%)
A66	Between Appleby and Brough	13,038	14,261	16,486	23,709	1,223 (9%)	2,225 (16%)	7,223 (44%)
A66	East of Brough	14,793	17,046	20,478	27,558	2,253 (15%)	3,433 (20%)	7,079 (35%)
A66	Bowes Bypass	12,701	15,300	18,020	25,191	2,598 (20%)	2,720 (18%)	7,171 (40%)
A66	West of Greta Bridge	15,422	18,142	20,955	29,047	2,720 (18%)	2,813 (16%)	8,092 (39%)
A66	East of Smallways	15,198	17,916	20,409	29,435	2,720 (18%)	2,493 (14%)	9,026 (44%)
A66	West of Scotch Comer	15,652	18,881	21,645	29,991	3,229 (21%)	2,765 (15%)	8,346 (39%)
A1(M)	North of Scotch Comer	49,043	58,449	71,294	73,362	9,406 (19%)	12,845 (22%)	2,068 (3%)
A1(M)	South of Scotch Corner	51,079	58,539	71,151	74,370	7,459 (15%)	12,613 (22%)	3,219 (5%)
M6	North of M6 J40	42,658	48,479	60,096	61,761	5,821 (14%)	11,618 (24%)	1,664 (3%)
M6	South of M6 J40	31,472	35,192	43,659	41,871	3,720 (12%)	8,466 (24%)	-1,788 (-4%)

High Scenario 12-Hour Traffic Flows (vehicles, two-way) - 2029

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	DS Post VDM vs. DM Post VDM
A66	West of M6 J40	16,584	19,027	19,905	20,658	2,443 (15%)	878 (5%)	753 (4%)
A66	Between M6 J40 and Kemplay Bank	25,699	29,341	30,957	35,724	3,642 (14%)	1,616 (6%)	4,767 (15%)
A66	Directly East of Kemplay Bank	17,598	20,440	21,163	27,093	2,842 (16%)	723 (4%)	5,931 (28%)
A66	Temple Sowerby	14,459	16,522	17,181	24,053	2,063 (14%)	659 (4%)	6,872 (40%)
A66	Between Kirkby Thore and Appleby	15,629	17,919	18,661	22,243	2,290 (15%)	742 (4%)	3,582 (19%)
A66	Between Appleby and Brough	13,038	14,726	15,352	21,619	1,688 (13%)	626 (4%)	6,267 (41%)
A66	East of Brough	14,793	17,030	18,117	23,943	2,237 (15%)	1,088 (6%)	5,826 (32%)
A66	Bowes Bypass	12,701	15,060	15,895	22,042	2,358 (19%)	835 (6%)	6,147 (39%)
A66	West of Greta Bridge	15,422	18,141	19,074	25,695	2,718 (18%)	934 (5%)	6,620 (35%)
A66	East of Smallways	15,198	17,846	18,693	25,995	2,650 (17%)	847 (5%)	7,302 (39%)
A66	West of Scotch Comer	15,652	18,703	19,546	26,728	3,052 (19%)	843 (5%)	7,182 (37%)
A1(M)	North of Scotch Comer	49,043	59,830	64,353	66,351	10787 (22%)	4,523 (8%)	1,998 (3%)
A1(M)	South of Scotch Corner	51,079	60,211	64,897	67,950	9,132 (18%)	4,685 (8%)	3,053 (5%)
M6	North of M6 J40	42,658	49,881	54,547	56,097	7,223 (17%)	4,666 (9%)	1,550 (3%)
M6	South of M6 J40	31,472	36,608	39,665	38,187	5,135 (16%)	3,058 (8%)	-1478 (-4%)



High Scenario 12-Hour Traffic Flows (vehicles, two-way) - 2051

Road	Location	Base 2019	Reference	DM Post VDM	DS Post VDM	DM Ref vs. Base	DM Post VDMvs. Ref	D\$ Post VDM vs. DM Post VDM
A66	West of M6 J40	16,584	22,923	24,793	26,646	6,340 (38%)	1,870 (8%)	1,853 (7%)
A66	Between M6 J40 and Kemplay Bank	25,699	32,898	35,745	42,802	7,199 (28%)	2,847 (9%)	7,057 (20%)
A66	Directly East of Kemplay Bank	17,598	23,860	24,957	33,833	6,263 (36%)	1,096 (5%)	8,877 (36%)
A66	Temple Sowerby	14,459	18,918	20,175	29,938	4,460 (31%)	1,256 (7%)	9,763 (48%)
A66	Between Kirkby Thore and Appleby	15,629	20,469	21,935	27,887	4,840 (31%)	1,465 (7%)	5,952 (27%)
A66	Between Appleby and Brough	13,038	16,901	18,448	27,161	3,863 (30%)	1,547 (9%)	8,713 (47%)
A66	East of Brough	14,793	20,561	23,368	31,103	5,768 (39%)	2,807 (14%)	7,735 (33%)
A66	Bowes Bypass	12,701	18,341	20,221	28,322	5,640 (44%)	1,880 (10%)	8,100 (40%)
A66	West of Greta Bridge	15,422	21,575	23,699	33,096	6,153 (40%)	2,124 (10%)	9,397 (40%)
A66	East of Smallways	15,196	20,496	21,724	33,090	5,300 (35%)	1,228 (6%)	11366 (52%)
A66	West of Scotch Comer	15,652	22,339	23,721	33,179	6,687 (43%)	1,382 (6%)	9,459 (40%)
A1(M)	North of Scotch Comer	49,043	70,597	79,615	81,576	21553 (44%)	9,018 (13%)	1,961 (2%)
A1(M)	South of Scotch Corner	51,079	71,709	82,397	84,999	20630 (40%)	10687 (15%)	2,603 (3%)
М6	North of M6 J40	42,658	60,823	72,403	74,139	18165 (43%)	11580 (19%)	1,736 (2%)
M6	South of M6 J40	31,472	45,934	55,058	54,154	14461 (46%)	9,124 (20%)	-904 (-2%)



Low Scenario Vehicle Flows by Vehicle Type (two-way) - 2029

Road	Location	Scenario	AM (veh/ hr)		IP (veh/ h	r)	PM (veh/ hr)	
			Lights	Heavies	Lights	Heavies	Lights	Heavies
		Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)
A66	East of M6 J40	DM	2,079 (84%)	388 (16%)	1,890 (83%)	376 (17%)	2,280 (87%)	334 (13%)
		DS	2,335 (85%)	403 (15%)	2,130 (84%)	391 (16%)	2,650 (88%)	355 (12%)
	East of Brough	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)
A66		DM	1,078 (81%)	247 (19%)	1,178 (82%)	261 (18%)	1,225 (83%)	256 (17%)
		DS	1,382 (84%)	267 (16%)	1,554 (85%)	275 (15%)	1,751 (86%)	276 (14%)
		Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)
A66	West of Scotch Corner	DM	1,200 (83%)	251 (17%)	1,182 (80%)	296 (20%)	1,413 (83%)	284 (17%)
		DS	1,576 (85%)	273 (15%)	1,654 (84%)	310 (16%)	2,077 (87%)	305 (13%)

High Scenario Vehicle Flows by Vehicle Type (two-way) - 2029

Road	Location	Scenario	AM (veh/ hr) IP (veh/ hr		r) PM (veh/ hr)		hr)	
			Lights	Heavies	Lights	Heavies	Lights	Heavies
		Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)
A66	East of M6 J40	DM	2,317 (84%)	448 (16%)	2,115 (83%)	436 (17%)	2,501 (87%)	388 (13%)
		DS	2,666 (85%)	473 (15%)	2,469 (84%)	458 (16%)	3,009 (88%)	416 (12%)
	East of Brough	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)
A66		DM	1,186 (81%)	286 (19%)	1,295 (81%)	305 (19%)	1,335 (82%)	299 (18%)
		DS	1,574 (83%)	313 (17%)	1,755 (84%)	322 (16%)	1,971 (86%)	324 (14%)
	West of Scotch Corner	Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)
A66		DM	1,323 (82%)	294 (18%)	1,310 (79%)	346 (21%)	1,525 (82%)	332 (18%)
		DS	1,816 (85%)	323 (15%)	1,871 (84%)	363 (16%)	2,324 (87%)	357 (13%)



Low Scenario Vehicle Flows by Vehicle Type (two-way) - 2051

Road	Location	Scenario	AM (veh/ hr)		IP (veh/ hr)		PM (veh/ hr)	
			Lights	Heavies	Lights	Heavies	Lights	Heavies
		Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)
A66	East of M6 J40	DM	2,447 (86%)	394 (14%)	2,261 (86%)	383 (14%)	2,681 (89%)	338 (11%)
		DS	2,802 (87%)	406 (13%)	2,662 (87%)	392 (13%)	3,197 (90%)	357 (10%)
	East of Brough	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)
A66		DM	1,397 (85%)	251 (15%)	1,538 (85%)	269 (15%)	1,603 (86%)	260 (14%)
		DS	1,861 (87%)	272 (13%)	2,132 (88%)	278 (12%)	2,354 (89%)	279 (11%)
	West of Scotch Corner	Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)
A66		DM	1,497 (85%)	260 (15%)	1,547 (84%)	305 (16%)	1,767 (86%)	285 (14%)
	Conner	DS	2,090 (88%)	282 (12%)	2,244 (88%)	315 (12%)	2,617 (90%)	305 (10%)

High Scenario Vehicle Flows by Vehicle Type (two-way) - 2051

Road	Location	Scenario	AM (veh/ hr) IP (veh/ hr)		r)	PM (veh/ hr)		
			Lights	Heavies	Lights	Heavies	Lights	Heavies
		Base	1,926 (82%)	415 (18%)	1,702 (81%)	407 (19%)	2,010 (85%)	363 (15%)
A66	East of M6 J40	DM	2,697 (85%)	492 (15%)	2,510 (84%)	471 (16%)	2,862 (88%)	401 (12%)
		DS	3,233 (86%)	513 (14%)	3,019 (86%)	497 (14%)	3,647 (89%)	453 (11%)
	East of Brough	Base	939 (78%)	264 (22%)	1,019 (78%)	281 (22%)	1,073 (80%)	276 (20%)
A66		DM	1,581 (83%)	320 (17%)	1,721 (83%)	341 (17%)	1,776 (84%)	332 (16%)
		DS	2,078 (86%)	344 (14%)	2,364 (87%)	354 (13%)	2,608 (88%)	356 (12%)
	West of Scotch Corner	Base	1,026 (79%)	269 (21%)	1,008 (76%)	319 (24%)	1,180 (79%)	305 (21%)
A66		DM	1,699 (86%)	286 (14%)	1,679 (83%)	354 (17%)	1,845 (85%)	333 (15%)
		DS	2,333 (87%)	358 (13%)	2,433 (86%)	402 (14%)	2,786 (88%)	369 (12%)



J Sensitivity Test Journey Times

Low Scenario Journey Times (mm:ss)

2029

Time Period	Direction	Base 2019	Do- Minimum (DM)	Do- Something DS)	DM vs. Base	D\$ vs. DM
AM	A66 - Eastbound	53:20	53:50	44:39	00:30 (1%)	-09:12 (-17%)
	A66 - Westbound	54:11	54:37	44:55	00:26 (1%)	-09:42 (-18%)
IP	A66 - Eastbound	54:11	54:46	44:55	00:35 (1%)	-09:52 (-18%)
	A66 - Westbound	54:05	54:51	44:48	00:45 (1%)	-10:02 (-18%)
РМ	A66 - Eastbound	54:49	55:23	45:01	00:34 (1%)	-10:22 (-19%)
	A66 - Westbound	54:26	55:14	45:08	00:49 (1%)	-10:06 (-18%)
OP	A66 - Eastbound	49:25	49:27	44:07	00:02 (0%)	-05:20 (-11%)
	A66 - Westbound	49:24	49:34	44:09	00:10 (0%)	-05:25 (-11%)

2044

Time Period	Direction	Base 2015	Do- Minimum (DM)	Do- Something DS)	DM vs. Base	D\$ vs. DM
AM	A66 - Eastbound	53:20	55:08	44:56	01:47 (3%)	-10:12 (-18%)
	A66 - Westbound	54:11	55:56	45:12	01:45 (3%)	-10:45 (-19%)
IP	A66 - Eastbound	54:11	56:28	45:19	02:17 (4%)	-11:09 (-20%)
	A66 - Westbound	54:05	56:46	45:11	02:40 (5%)	-11:35 (-20%)
PM	A66 - Eastbound	54:49	57:24	45:28	02:35 (5%)	-11:56 (-21%)
	A66 - Westbound	54:26	56:54	45:37	02:29 (5%)	-11:17 (-20%)
OP	A66 - Eastbound	49:25	49:33	44:08	00:09 (0%)	-05:25 (-11%)
	A66 - Westbound	49:24	49:45	44:10	00:20 (1%)	-05:34 (-11%)

2051

Time Period	Direction	Base 2019	Do- Minimum (DM)	Do- Something (DS)	DM vs. Base	DS vs. DM
AM	A66 - Eastbound	53:20	55:39	45:02	02:18 (4%)	-10:37 (-19%)
	A66 - Westbound	54:11	56:30	45:20	02:19 (4%)	-11:10 (-20%)
IP	A66 - Eastbound	54:11	57:08	45:27	02:57 (5%)	-11:41 (-20%)
	A66 - Westbound	54:05	57:25	45:20	03:20 (6%)	-12:05 (-21%)
PM	A66 - Eastbound	54:49	58:01	45:36	03:12 (6%)	-12:24 (-21%)
	A66 - Westbound	54:26	57:44	45:50	03:19 (6%)	-11:54 (-21%)
OP	A66 - Eastbound	49:25	49:37	44:08	00:12 (0%)	-05:28 (-11%)
	A66 - Westbound	49:24	49:49	44:11	00:25 (1%)	-05:38 (-11%)



High Scenario Journey Times (mm:ss)

2029

Time Period	Direction	Base 2019	Do- Minimum (DM)	Do- Something DS)	DM vs. Base	D\$ vs. DM
AM	A66 - Eastbound	53:20	55:25	44:55	02:05 (4%)	-10:30 (-19%)
	A66 - Westbound	54:11	56:16	45:13	02:05 (4%)	-11:03 (-20%)
IP	A66 - Eastbound	54:11	56:30	45:15	02:19 (4%)	-11:15 (-20%)
	A66 - Westbound	54:05	56:43	45:05	02:38 (5%)	-11:38 (-21%)
РМ	A66 - Eastbound	54:49	57:28	45:23	02:39 (5%)	-12:05 (-21%)
	A66 - Westbound	54:26	57:05	45:32	02:40 (5%)	-11:33 (-20%)
OP	A66 - Eastbound	49:25	49:37	44:08	00:13 (0%)	-05:30 (-11%)
	A66 - Westbound	49:24	49:43	44:10	00:19 (1%)	-05:33 (-11%)

2044

Time Period	Direction	Base 2015	Do- Minimum (DM)	Do- Something DS)	DM vs. Base	DS vs. DM
AM	A66 - Eastbound	53:20	57:35	45:22	04:15 (8%)	-12:13 (-21%)
	A66 - Westbound	54:11	59:27	45:46	05:16 (10%)	-13:41 (-23%)
IP	A66 - Eastbound	54:11	59:26	45:42	05:15 (10%)	-13:44 (-23%)
	A66 - Westbound	54:05	00:09	45:45	06:04 (11%)	-14:24 (-24%)
PM	A66 - Eastbound	54:49	00:39	45:55	05:50 (11%)	-14:44 (-24%)
	A66 - Westbound	54:26	01:11	46:19	06:45 (12%)	-14:51 (-24%)
OP	A66 - Eastbound	49:25	49:53	44:10	00:28 (1%)	-05:43 (-11%)
	A66 - Westbound	49:24	50:06	44:12	00:41 (1%)	-05:54 (-12%)

2051

Time Period	Direction	Base 2019	Do- Minimum (DM)	Do- Something (DS)	DM vs. Base	DS vs. DM
AM	A66 - Eastbound	53:20	58:19	45:25	04:59 (9%)	-12:54 (-22%)
	A66 - Westbound	54:11	00:58	46:03	06:47 (13%)	-14:55 (-24%)
IP	A66 - Eastbound	54:11	00:25	45:58	06:14 (12%)	-14:27 (-24%)
	A66 - Westbound	54:05	01:36	45:57	07:31 (14%)	-15:39 (-25%)
РМ	A66 - Eastbound	54:49	02:02	46:11	07:13 (13%)	-15:50 (-26%)
	A66 - Westbound	54:26	02:40	46:37	08:14 (15%)	-16:03 (-26%)
OP	A66 - Eastbound	49:25	50:00	44:11	00:36 (1%)	-05:49 (-12%)
	A66 - Westbound	49:24	50:14	44:13	00:49 (2%)	-06:00 (-12%)