



Maidstone Transport Strategy

Option Testing Summary Tables



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1 Introduction

This report details summary tables for the four option tests carried out by Jacobs using the Maidstone VISUM Model Planning Suite. The model study area is show below in figure 1.1.



Figure 1.1 – Model Study Area

The four options tested are:

- Option A 11,080 new homes, of which 3,725 would be in a south east urban extension
- Option B 10,080 new homes, using amore dispersed pattern of development
- Option C 8,200 new homes, also with dispersed distribution
- Option S (the "Optimal" distribution) 10,080 new homes

The report contains details on mode share, cordon traffic movements, journey times and travel demand. Figures 1.2 and 1.3 show the locations of cordon sites and the journey time routes.



Figure 1.2 – Location of Cordons



Figure 1.3 – Journey Time Routes

Mode Share – AM Peak

		AM Peak - Person Trips by Mode Share						
Mode	Base 2007	Option A	Option B	Option C	Option S			
Car	26,043	34,926	31,580	28,457	30,932			
Bus	4,837	5,587	6,921	7,439	6,056			
Rail	3,517	3,610	5,355	7,285	5,499			
PnR	979	1,735	1,606	1,830	2,317			
Total	35,376	45,858	45,462	45,011	44,804			

		AM Peak - Person Trips by Mode Share (%)						
Mode	Base 2007	Option A	Option B	Option C	Option S			
Car	73	76	69	63	69			
Bus	14	12	15	17	14			
Rail	10	8	12	16	12			
PnR	3	4	4	4	5			
Total	100	100	100	100	100			



Mode Share – PM Peak

		PM Peak - Person Trips by Mode Share						
Mode	Base 2007	Option A	Option B	Option C	Option S			
Car	24,247	32,516	29,161	24,201	28,107			
Bus	3,259	4,168	5,171	5,550	4,518			
Rail	3,347	3,444	4,536	6,170	4,658			
PnR	593	1,348	1,248	1,422	1,800			
Total	31,446	41,476	40,116	37,343	39,083			

		PM Peak - Person Trips by Mode Share (%)						
Mode	Base 2007	Option A	Option B	Option C	Option S			
Car	77	78	73	65	72			
Bus	10	10	13	15	12			
Rail	11	8	11	17	12			
PnR	2	4	3	3	4			
Total	100	100	100	100	100			



Cordon Traffic Movements – AM Peak

	AM Peak - Inner Cordon Traffic Flow					
Direction	Base 2007	Option A	Option B	Option C	Option S	
In	7,477	9,462	8,364	6,765	9,374	
Out	5,043	5,804	7,227	5,210	7,406	
Two way	12,520	15,266	15,591	11,975	16,780	
		AM Peak -	Outer Cordon T	raffic Flow		
Direction	Base 2007	Option A	Option B	Option C	Option S	
In	8,757	9,804	10,676	7,542	10,030	
Out	6,996	8,497	10,384	7,002	9,481	
Two way	15,753	18,301	21,060	14,544	19,511	





Cordon Traffic Movements – PM Peak

	PM Peak - Inner Cordon Traffic Flow						
Direction	Base 2007	Option A	Option B	Option C	Option S		
In	5,446	6,637	6,374	5,157	7,254		
Out	7,610	8,820	7,512	7,013	8,501		
Two way	13,056	15,457	13,866	12,170	15,755		
		PM Peak -	Outer Cordon Ti	raffic Flow			
Direction	Base 2007	Option A	Option B	Option C	Option S		
In	7,756	7,434	8,934	6,899	8,100		
Out	9,044	8,208	9,343	7,421	8,081		
Two way	16,800	15,642	18,273	14,320	16,181		







AM and PM cordon flows - 2007 Base Model

Journey Times – AM Peak

		AM Peak Journey Time (mm:ss)					
Route	Location	Base 2007	Option A	Option B	Option C	Option S	
А	A274 Sutton Road	16:20	19:23	23:21	19:40	20:19	
В	A20 Ashford Road	14:24	14:11	19:12	12:56	14:43	
С	A249 Sittingbourne Road	16:59	28:22	44:47	25:03	30:41	
D	A229 Royal Engineers Way	10:08	19:12	28:42	16:35	18:34	
Е	A20 London Road	08:05	14:04	18:11	09:21	10:39	
F	A26 Tonbridge Road	10:34	19:04	09:36	15:19	17:56	



Journey Times – PM Peak

		PM Peak Journey Time (mm:ss)					
Route	Location	Base 2007	Option A	Option B	Option C	Option S	
А	A274 Sutton Road	09:47	12:50	27:50	09:58	14:23	
В	A20 Ashford Road	15:12	12:56	18:40	12:47	12:57	
С	A249 Sittingbourne Road	06:34	05:28	05:35	04:45	05:17	
D	A229 Royal Engineers Way	06:00	17:58	24:04	15:17	17:02	
E	A20 London Road	07:58	08:43	09:07	08:01	08:39	
F	A26 Tonbridge Road	08:14	06:14	06:04	15:59	06:57	



Travel Demand – Vehicle Kilometres

	Total Vehicle Kilometres						
	Base 2007	Option A	Option B	Option C	Option S		
AM Peak	1,667,863	1,948,256	2,173,599	1,840,795	2,226,001		
PM Peak	1363670	1454248	1675420	1481724	1748887		



Travel Demand – Person Trips

	Total Travel Demand (Person Trips)						
	Base 2007	Option A	Option B	Option C	Option S		
AM Peak	35,376	45,858	45,462	45,011	44,804		
PM Peak	31,446	41,476	40,116	37,343	39,083		

