

LoopID1

SegmentID (Multiple Items)

ModelID (Multiple Items)

TimeID1

Mode...

1

2

1 - Highways
2 - PT

Sum.Trip

Column Labels

Row Labels

1

2

3

4

Grand Total

North

TPS

South

Wales

1

2,094,572

20,372

6,025

238

2,121,206

2

21,266

3,566,522

68,142

15,737

3,671,667

3

8,340

79,670

10,779,162

19,457

10,886,629

4

308

18,930

20,637

741,892

781,766

Grand Total

2,124,484

3,685,494

10,873,966

777,323

17,461,267

LoopID6

SegmentID (Multiple Items)

ModelID (Multiple Items)

TimeID1

Segm...

1

2

3

4

5

100

1 - HBEB
2 - HBW
3 - HBO
4 - NHBEB
5 - NHBO

LoopID6

SegmentID (Multiple Items)

ModelID (Multiple Items)

TimeID1

TimeID

0

1

2

3

4

0 - 24-hour
1 - AM period
2 - Inter-Peak Period
3 - PM Period
4 - Off-Peak Period

Sum.Trip

Column Labels

Row Labels

1

2

3

4

Grand Total

North

TPS

South

Wales

1

2,097,341

22,879

5,632

228

2,126,080

2

25,566

3,523,301

82,830

17,556

3,649,253

3

7,698

92,252

10,799,602

24,442

10,923,995

4

319

20,112

25,733

738,649

784,813

Grand Total

2,130,923

3,658,544

10,913,798

780,875

17,484,141

Change in Demand as the impacts of VDM					
Sum of Derr Column Labels					
Row Labels	1	2	3	4	Grand Total
North	2,769	2,506	-392	-9	4,874
TPS	4,300	-43,221	14,687	1,819	-22,414
South	-642	12,583	20,440	4,985	37,366
Wales	12	1,182	5,097	-3,243	3,048
Grand Total	6,439	-26,950	39,832	3,552	22,874

Demand Responses								
Period	Car				Rail			
	Business	Commute	Other	Total	Business	Commute	Other	Total
Reference Demand								
AM Peak	1,266,425	7,115,329	7,967,726	16,349,481	147,552	748,961	215,273	1,111,786
Inter-Peak	2,322,985	6,913,195	20,066,673	29,302,852	103,255	98,972	352,932	555,159
PM Peak	1,283,365	7,200,327	11,199,745	19,683,437	137,878	775,738	235,340	1,148,956
Off-Peak	1,042,930	4,438,938	10,333,761	15,815,629	62,131	213,881	117,939	393,950
Total	5,915,705	25,667,788	49,567,906	81,151,399	450,816	1,837,552	921,484	3,209,851
Post-VDM demand								
AM Peak	1,256,297	7,072,013	7,959,302	16,287,612	155,114	808,731	232,683	1,196,529
Inter-Peak	2,309,793	6,880,032	20,037,318	29,227,143	108,681	106,870	381,973	597,524
PM Peak	1,271,711	7,152,965	11,174,691	19,599,367	145,123	837,645	255,095	1,237,863
Off-Peak	1,056,459	4,429,467	10,363,037	15,848,963	65,944	230,949	127,846	424,740
Total	5,894,261	25,534,476	49,534,348	80,963,085	474,863	1,984,195	997,598	3,456,656
Change								
AM Peak	-10,128	-43,316	-8,425	-61,869	7,562	59,770	17,410	84,743
Inter-Peak	-13,191	-33,163	-29,356	-75,710	5,426	7,898	29,041	42,365
PM Peak	-11,654	-47,362	-25,054	-84,070	7,245	61,907	19,755	88,907
Off-Peak	13,529	-9,471	29,276	33,335	3,814	17,068	9,907	30,790
Total	-21,444	-133,312	-33,558	-188,314	24,047	146,643	76,114	246,805
%Change								
AM Peak	-0.8%	-0.6%	-0.1%	-0.4%	5.1%	8.0%	8.1%	7.6%
Inter-Peak	-0.6%	-0.5%	-0.1%	-0.3%	5.3%	8.0%	8.2%	7.6%
PM Peak	-0.9%	-0.7%	-0.2%	-0.4%	5.3%	8.0%	8.4%	7.7%
Off-Peak	1.3%	-0.2%	0.3%	0.2%	6.1%	8.0%	8.4%	7.8%
Total	-0.4%	-0.5%	-0.1%	-0.2%	5.3%	8.0%	8.3%	7.7%

Impacts of TPTS on Demand								
Period	Car				Rail			
	Business	Commute	Other	Total	Business	Commute	Other	Total
Do-Minimum VDM								
AM Peak	1,255,744	7,071,401	7,958,372	16,285,517	155,315	808,883	232,739	1,196,938
Inter-Peak	2,309,851	6,880,404	20,038,639	29,228,895	108,826	106,890	382,061	597,777
PM Peak	1,271,592	7,152,423	11,172,966	19,596,981	145,308	837,803	255,151	1,238,262
Off-Peak	1,056,520	4,429,909	10,364,233	15,850,663	66,033	230,993	127,876	424,901
Total	5,893,707	25,534,137	49,534,211	80,962,056	475,482	1,984,568	997,828	3,457,878
TPTS Only VDM								
AM Peak	1,255,863	7,071,637	7,958,561	16,286,062	155,190	808,775	232,704	1,196,670
Inter-Peak	2,309,864	6,880,406	20,038,478	29,228,749	108,736	106,876	382,007	597,618
PM Peak	1,271,559	7,152,605	11,173,872	19,598,036	145,193	837,691	255,116	1,238,000
Off-Peak	1,056,765	4,429,730	10,363,386	15,849,880	65,978	230,962	127,857	424,797
Total	5,894,051	25,534,378	49,534,298	80,962,727	475,098	1,984,304	997,684	3,457,085
Optimised Package VDM								
AM Peak	1,256,297	7,072,013	7,959,302	16,287,612	155,114	808,731	232,683	1,196,529
Inter-Peak	2,309,793	6,880,032	20,037,318	29,227,143	108,681	106,870	381,973	597,524
PM Peak	1,271,711	7,152,965	11,174,691	19,599,367	145,123	837,645	255,095	1,237,863
Off-Peak	1,056,459	4,429,467	10,363,037	15,848,963	65,944	230,949	127,846	424,740
Total	5,894,261	25,534,476	49,534,348	80,963,085	474,863	1,984,195	997,598	3,456,656
TPTS Only vs. Do-Minimum VDM								
AM Peak	120	236	189	545	-125	-108	-35	-268
Inter-Peak	13	2	-161	-146	-90	-14	-55	-159
PM Peak	-33	182	906	1,055	-115	-112	-35	-262
Off-Peak	245	-180	-847	-783	-55	-31	-19	-104
Total	344	241	87	671	-384	-265	-144	-793
Optimised Package vs. TPTS Only								
AM Peak	434	376	740	1,550	-76	-44	-21	-141
Inter-Peak	-71	-375	-1,161	-1,606	-55	-6	-33	-94
PM Peak	152	360	819	1,332	-70	-46	-21	-137
Off-Peak	-306	-263	-349	-917	-34	-13	-11	-57
Total	210	99	50	358	-235	-108	-86	-429

Period	Car				Change			
	Business	Commute	Other	Total	Business	Commute	Other	Total
Do-Minimum VDM								
AM Peak	1,087,760	7,613,034	7,390,589	16,091,383				
Inter-Peak	2,291,211	5,798,975	18,777,903	26,868,089				
PM Peak	1,140,469	7,166,550	10,551,612	18,858,632				
Off-Peak	1,134,335	4,028,112	10,254,768	15,417,215				
Total	5,653,775	24,606,671	46,974,872	77,235,318				
TPTS Only and Change from Do-Minimum								
AM Peak	1,087,071	7,612,447	7,390,229	16,089,748	-689	-587	-359	-1,635
Inter-Peak	2,290,642	5,799,120	18,778,584	26,868,345	-569	145	680	256
PM Peak	1,139,687	7,166,697	10,551,791	18,858,174	-782	146	178	-458
Off-Peak	1,135,614	4,028,322	10,254,571	15,418,507	1,278	211	-197	1,292
Total	5,653,014	24,606,586	46,975,175	77,234,774	-761	-85	302	-544
Optimised Package and Change from TPTS Only								
AM Peak	1,087,419	7,612,684	7,390,534	16,090,636	348	236	304	888
Inter-Peak	2,290,560	5,799,011	18,778,221	26,867,793	-82	-108	-362	-552
PM Peak	1,139,439	7,166,484	10,551,758	18,857,681	-248	-213	-32	-493
Off-Peak	1,135,454	4,028,281	10,254,241	15,417,976	-160	-41	-330	-531
Total	5,652,872	24,606,460	46,974,754	77,234,086	-142	-126	-421	-688