

2045 MTP -- Alternatives Analysis  
Performance Measures for the **DCHC MPO**

Name =		Baseline	E+C	ModMTP	ModHwy	AspireTrans	AspireMTP
SE Data ==>		2013	2045	2045 CP	2045 CP	2045 AIM High	2045 AIM High
Transportation Network ==>		2013	E+C	2040 MTP	2040 MTP/ Hwy+, No FG	2040 MTP/ Transit+	2040 MTP
<b>1</b>	<b>Performance Measures</b>						
1.1.1	Total Vehicle Miles Traveled (VMT-daily)	12,698,821	21,108,837	22,179,755	22,533,494	20,751,593	20,822,867
1.1.1a	Total Vehicle Miles Traveled (VMT-per capita)	30	31	33	34	31	31
1.2.1	Total Vehicle Hours Traveled (VHT-daily)	314,735	665,310	626,849	638,079	563,611	567,436
1.2.1a	Total Vehicle Hours Traveled (VHT-per capita)	0.75	0.99	0.93	0.95	0.84	0.85
1.3	<u>Average Speed by Facility (miles/hour)</u>						
1.3.1	- Freeway	58	48	52	52	53	53
1.3.2	- Arterial	35	30	32	32	33	33
1.3.3	- All Facility	47	40	43	43	44	44
1.4	<u>Peak Average Speed by Facility (miles/hour)</u>						
1.4.1	- Freeway	57	45	50	50	51	51
1.4.2	- Arterial	34	28	31	31	31	31
1.4.3	- All Facility	46	37	41	41	42	42
1.5	<u>Daily Average Travel Length - All Person Trips</u>						
1.5.1	- Travel Time (minutes)	13	16	15	15	15	15
1.5.2	- Travel Distance (miles)	6.1	6.1	6.3	6.3	6.2	6.2
1.6	<u>Daily Average Travel Length - Work Trips</u>						
1.6.1	- Travel Time	20	24	22	22	21	21
1.6.2	- Travel Distance - Work Trips	10.9	10.1	10.6	10.5	10.6	10.6
1.7	<u>Peak Average Travel Length - All Person Trips</u>						
1.7.1	- Peak Travel Time	15	18	16	16	16	16
1.7.2	- Peak Travel Distance	7.1	6.7	6.9	6.9	7.0	7.0
1.8	<u>Daily Avg. Travel Length - Commercial Vehicle Trips</u>						
1.8.1	- Travel Time	10	11	11	11	10	10
1.8.2	- Travel Distance	6.7	6.5	6.7	6.7	6.8	6.8
1.9	<u>Daily Average Travel Length - Truck Trips</u>						
1.9.1	- Travel Time	11	13	12	12	12	12
1.9.2	- Travel Distance	7.8	7.7	7.9	7.9	8.0	8.0
1.10	Hours of Delay (daily)	25,323	171,007	118,700	120,310	87,452	89,177

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	Transportation Network ==>	2013	E+C	2040 MTP	2040 MTP/ Hwy+, No FG	2040 MTP/ Transit+	2040 MTP
1.10a	Minutes of Delay (daily) (per capita)	4	15	11	11	8	8
1.10.1	Truck Hours of Delay (daily)	1,216	10,643	6,475	6,611	5,679	5,737
1.11	Percent of Congested VMT (volume > capacity) - All Day						
1.11.1	- Freeway	1%	12%	9%	8%	5%	5%
1.11.2	- Arterial	2%	15%	9%	9%	6%	6%
1.11.3	- All Facility	1%	12%	8%	8%	5%	5%
1.12	Percent of Congested VMT (volume > capacity) - Peak						
1.12.1	- Freeway	1%	20%	14%	13%	8%	8%
1.12.2	- Arterial	3%	22%	14%	14%	9%	10%
1.12.3	- All Facility	2%	18%	13%	12%	8%	8%
1.12.4	- Designated truck routes	3%	17%	12%	12%	8%	8%
1.12.5	- Facilities w/bus routes	2%	18%	12%	11%	7%	7%
<b>2</b>	<b>Mode Share Measures</b>						
2.1	All Trips - Daily						
2.1.1	- Drive alone (single occupant vehicle -SOV)	874,455	1,389,181	1,346,402	1,386,502	1,329,781	1,339,957
2.1.2	- Carpool (Share ride)	689,154	1,096,707	1,111,535	1,105,431	1,097,897	1,103,303
2.1.3	- Bus	52,350	68,187	81,544	77,320	86,744	75,082
2.1.4	- Rail	-	-	28,413	-	22,480	24,097
2.1.5	- Non-Motorized (Bike and Walk)	291,735	503,083	510,437	510,188	521,451	520,040
2.2	Work Trips - Daily						
2.2.1	- Drive alone (single occupant vehicle -SOV)	190,325	305,947	309,003	313,843	297,653	300,655
2.2.2	- Carpool (Share ride)	23,413	35,811	36,198	35,832	34,039	34,675
2.2.3	- Bus	11,930	16,207	19,595	21,426	23,063	18,678
2.2.4	- Rail	-	-	6,679	-	6,285	6,672
2.2.5	- Non-Motorized (Bike and Walk)	12,869	27,085	24,368	24,782	24,456	24,834
2.2a	Work Trips - Mode Share						
2.2.1a	- Drive alone (single occupant vehicle -SOV)	80%	79%	78%	79%	77%	78%
2.2.2a	- Carpool (Share ride)	10%	9%	9%	9%	9%	9%
2.2.3a	- Bus	5%	4%	5%	5%	6%	5%

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2.2.4a	- Rail	N/A	N/A	2%	N/A	2%	2%
2.2.5a	- Non-Motorized (Bike and Walk)	5%	7%	6%	6%	6%	6%
<b>3</b>	<b>Transit Measures</b>						
3.1	Transit Ridership (regionwide)						
3.1.1	- GoTriangle (rail included in rail scenarios)	11,911	20,374	64,721	14,079	77,630	51,978
3.1.2	- GoRaleigh	16,923	36,407	84,834	70,701	101,139	83,532
3.1.3	- CHT	32,561	41,831	58,334	54,920	62,853	56,745
3.1.4	- GoDurham	21,142	27,466	52,920	37,111	53,122	40,910
3.1.5	- NCSU	17,425	20,438	20,627	19,604	21,453	21,452
3.1.6	- DUKE	8,989	9,579	10,082	10,486	10,492	10,775
3.1.7	- OPT	N/A	N/A	N/A	N/A	N/A	N/A
3.1.8	- GoCary	1,862	3,110	4,603	3,703	7,674	5,036
3.1.9	Total	110,811	159,200	296,118	210,600	334,360	270,426
3.2	Total Rail Ridership	N/A	N/A	46,732	N/A	48,882	37,519
<b>4</b>	<b>Demographic Measures</b>						
4.1	Population	418,123	672,377	672,377	672,377	669,866	669,866
4.2	Employment	257,781	449,898	449,898	449,898	448,731	448,731
4.3	Total Daily Person Trips	1,907,694	3,057,158	3,078,331	3,079,441	3,058,353	3,062,479
4.3.1	Work Person Trips	238,537	385,050	395,843	395,883	385,496	385,514
4.4	Total Daily CV (commercial vehicle) Trips	121,623	202,550	202,550	202,550	201,174	201,174
4.4.1	Daily Truck Trips	50,122	84,686	84,686	84,686	84,005	84,005
4.5.1	Total Highway Lane Miles	2,533	2,605	2,902	2,985	2,902	2,902
4.5.2	Transit Service Miles	N/A	61,581	83,353	78,259	264,256	83,353

N/A = measures is not applicable, e.g., there is no rail transit in the 2013 scenario.

Note: Values are rounded so some math operations will appear incorrect, e.g., 90 - 89 = 0