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2045 MTP -- Deficiency Analysis **Performance Measures by <u>County</u>**

	County =	Chatham*	Durham	Orange	Chatham*	Durham	Orange	Chatham*	Durham	Orange
	SE Data ==>	2013 2013			2045 E+C			'13-'45 Change		
	Transportation Network ==>									
1	Performance Measures									
1.1.1	Total Vehicle Miles Traveled (VMT-daily)	1,558,913	8,391,674	4,520,352	2,722,198	13,626,815	7,670,515	75%	62%	70%
1.1.1a	Total Vehicle Miles Traveled (VMT-per capita)	37	30	33	37	29	39	1%	-4%	18%
1.2.1	Total Vehicle Hours Traveled (VHT-daily)	31,602	212,312	105,026	65,567	433,576	221,370	107%	104%	111%
1.2.1a	Total Vehicle Hours Traveled (VHT-per capita)	0.75	0.77	0.77	0.90	0.92	1.12	20%	20%	46%
<u>1.3</u>	Average Speed by Facility (miles/hour)									
1.3.1	- Freeway	N/A	57	60	N/A	49	47	N/A	-14%	-22%
1.3.2	- Arterial	62	35	35	59	30	31	-4%	-15%	-13%
1.3.3	- All Facility	53	46	50	49	40	41	-8%	-13%	-18%
<u>1.4</u>	Peak Average Speed by Facility (miles/hour)									
1.4.1	- Freeway	N/A	56	60	N/A	46	46	N/A	-18%	-24%
1.4.2	- Arterial	62	34	34	59	28	29	-5%	-18%	-16%
1.4.3	- All Facility	53	45	49	48	37	40	-10%	-18%	-20%
<u>1.5</u>	Daily Average Travel Length - All Person Trips									
1.5.1	- Travel Time (minutes)	15	13	13	17	16	16	12%	24%	23%
1.5.2	- Travel Distance (miles)	9.1	6.1	6.3	8.5	6.1	6.2	-6%	0%	-2%
<u>1.6</u>	Daily Average Travel Length - Work Trips									
1.6.1	- Travel Time	28	19	21	32	23	26	17%	23%	21%
1.6.2	- Travel Distance - Work Trips	18.0	10.1	12.5	16.7	9.6	11.6	-7%	-5%	-7%
<u>1.7</u>	Peak Average Travel Length - All Person Trips									
1.7.1	- Peak Travel Time	13	15	13	13	18	17	-1%	21%	29%
1.7.2	- Peak Travel Distance	8.0	7.5	5.7	6.7	7.0	5.7	-17%	-6%	1%
<u>1.8</u>	Daily Avg. Travel Length - Commercial Vehicle Tri	<u>ps</u>								
1.8.1	- Travel Time	11	10	10	11	11	11	-2%	12%	10%
1.8.2	- Travel Distance	9.0	6.7	7.0	8.0	6.5	6.7	-11%	-2%	-5%
<u>1.9</u>	Daily Average Travel Length - Truck Trips									
1.9.1	- Travel Time	14	11	11	14	12	13	-2%	13%	10%
1.9.2	- Travel Distance	11.1	7.7	8.4	9.8	7.6	8.0	-12%	-1%	-5%
<u>1.10</u>	Hours of Delay (daily)	535	17,549	7,753	7,232	113,704	56,361	1252%	548%	627%
1.10a	Minutes of Delay (daily) (per capita)	1	4	3	6	15	17	680%	282%	405%
1.10.1	Truck Hours of Delay (daily)	15	786	455	131	5,808	5,195	773%	639%	1042%
<u>1.11</u>	Percent of Congested VMT (volume > capacity) - A	All Day								
1.11.1	- Freeway	N/A	1%	2%	N/A	13%	10%	N/A	2050%	587%
1.11.2	- Arterial	0%	2%	2%	2%	14%	16%	N/A	581%	933%
1.11.3	- All Facility	0%	1%	1%	2%	13%	10%	N/A	1180%	692%
1.12	Percent of Congested VMT (volume > capacity) - F									
1.12.1	- Freeway	N/A	1%	2%	N/A	21%	14%	N/A	2563%	615%
1.12.2	- Arterial	0%	3%	3%	3%	21%	23%	N/A	527%	736%
1.12.3	- All Facility	0%	2%	2%	4%	20%	13%	N/A	1213%	676%
1.12.4	- Designated truck routes	0%	2%	6%	2%	16%	22%	N/A	829%	251%
1.12.5	- Facilities w/bus routes	0%	2%	4%	4%	18%	18%	N/A	1006%	348%
2	Mode Share Measures									

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2045 MTP -- Deficiency Analysis **Performance Measures by County**

	County = SE Data ==>	Chatham*	Durham 2013	Orange	Chatham*	Durham 2045	Orange	Chatham*	Durham '13-'45	Orange
	Transportation Network ==>	2013			2045 E+C			13- 45 Change		
2.1	All Trips - Daily									
2.1.1	- Drive alone (single occupant vehicle -SOV)	73,321	611,842	252,204	123598	1014315	363019	69%	66%	44%
2.1.2	- Carpool (Share ride)	61,298	479,191	203,033	104206	797296	290224	70%	66%	43%
2.1.3	- Bus	1,196	24,105	27,631	1623	32987	34215	36%	37%	
2.1.4	- Rail	-		-	-	-	-	N/A	N/A	
2.1.5	- Non-Motorized (Bike and Walk)	6,493	144,120	146,287	12769	270982	230829	97%	88%	58%
2.2	Work Trips - Daily	0,.00	_ : :,	- :0,201		270302		37,0	33,1	30,1
2.2.1	- Drive alone (single occupant vehicle -SOV)	23,265	130,906	55,438	38,650	218,798	82,612	66%	67%	49%
2.2.2	- Carpool (Share ride)	3,258	16,151	7,005	4,927	26,202	9,382	51%	62%	34%
2.2.3	- Bus	831	6,601	4,974	1,150	9,489	6,077	38%	44%	22%
2.2.4	- Rail	-	-	-	-/	-	-	N/A	N/A	
2.2.5	- Non-Motorized (Bike and Walk)	369	7,402	5,365	1,040	17,215	9,587	182%	133%	79%
2.2a	Work Trips - Mode Share		1,11	-,	_,		-,			
2.2.1a	- Drive alone (single occupant vehicle -SOV)	84%	81%	76%	84%	81%	77%	1%	-1%	1%
2.2.2a	- Carpool (Share ride)	12%	10%	10%	11%	10%	9%	-8%	-4%	-9%
2.2.3a	- Bus	3%	4%	7%	3%	3%	6%	-16%	-15%	-17%
2.2.4a	- Rail	0%	0%	0%	0%		0%	N/A	N/A	
2.2.5a	- Non-Motorized (Bike and Walk)	1%	5%	7%	2%	6%	9%	71%	38%	21%
3	Transit Measures									
3.1	Transit Ridership (regionwide)									
3.1.1	- GoTriangle (rail not included in 2013 and E+C)	:	:	11,911	:	·	20,374		:	71%
3.1.2	- GoRaleigh	16,923			36,407			115%		
3.1.3	- CHT	32,561			41,831			28%		
3.1.4	- GoDurham	21,142			27,466			30%		
3.1.5	- NCSU	17,425			20,438			17%		
3.1.6	- DUKE	8,989			9,579			7%		
3.1.7	- OPT	N/A			N/A					
3.1.8	- GoCary	1,862			3,110			67%		
3.1.9	Total	110,811			159,200			44%		
3.2	Total Rail Ridership						,			
4	Demographic Measures									
4.1	Population	41,982	276,663	136,869	72,756	469,222	197,149	73%	70%	44%
	Employment	9,339	192,877	64,212	17,708	342,456	107,575	90%	78%	68%
I b	Total Daily Person Trips	142,308	1,259,258	629,155	242,072	2,109,127	917,980	70%	67%	46%
	Work Person Trips	27,723	161,060	72,782	45,770	271,599	107,696	65%	69%	48%
4.4	Total Daily CV (commercial vehicle) Trips	9,371	88,444	33,824	16,544	152,087	52,613	77%	72%	
	Daily Truck Trips	3,567	37,287	13,458	6,418		21,414	80%	74%	

Notes:

N/A = measure is not applicable, e.g., there is no rail transit in the scenario; value cannot be divided by zero.

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

^{*} Chatham County values are for the portion of the county that is within the Triangle Regional Model area.