

## 2031 MTP – Deficiency Analysis – Travel Time

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These tables show the morning and afternoon peak hour travel time in minutes between key destinations of the DCHC MPO planning area. The comparison is between the year 2016 and the 2050 E+C, which is basically the 2050 population and employment using the current transportation network (sometimes called the No Build).

Note that the destination name at the top of the column is the “to” destination, while the place name in each row is the “from,” or origin, of the trips. The “to” and “from” travel time for a pair of places can vary quite a bit. For example, the 2050 E+C afternoon peak hour travel is 81 minutes from Durham to Raleigh, but only 74 minutes from Raleigh to Durham. This shows a directional difference in congestion during the peak hour, and in this case is likely caused by the relatively heavy eastbound afternoon traffic on I-40.

The next two pages show the tables. A few notes:

- In the comparison table, the **Hotter** color depicts a larger increase in travel time.
- The number display has been rounded to the nearest minute but the calculations use the decimal number so the percentages might appear slightly off.

# 2050 MTP -- Deficiency Analysis

## Morning Peak-Hour Travel Time

2016 MORNING Peak Hour Travel Time (minutes)						
To ==>	Durham DWTN	RTP	Raleigh DWTN	Chapel Hill	H'borough	Pittsboro
Durham DWTN		15	41	33	22	43
RTP	18		30	31	31	34
Raleigh DWTN	45	32		57	58	47
Chapel Hill	34	28	51		25	28
Hillsborough	24	30	55	27		46
Pittsboro	48	37	54	35	46	

2050 (E+C) MORNING Peak Hour Travel Time (minutes)						
To ==>	Durham DWTN	RTP	Raleigh DWTN	Chapel Hill	H'borough	Pittsboro
Durham DWTN		21	65	48	26	55
RTP	20		50	49	36	42
Raleigh DWTN	73	59		99	89	76
Chapel Hill	46	44	83		28	32
Hillsborough	35	44	89	39		47
Pittsboro	81	68	100	56	58	

Compare 2016 and 2050 MORNING Peak (percent increase)						
To ==>	Durham DWTN	RTP	Raleigh DWTN	Chapel Hill	H'borough	Pittsboro
Durham DWTN		38%	61%	46%	19%	29%
RTP	11%		65%	55%	16%	23%
Raleigh DWTN	62%	83%		75%	54%	60%
Chapel Hill	35%	53%	65%		15%	11%
Hillsborough	43%	50%	61%	45%		2%
Pittsboro	68%	85%	87%	63%	25%	

# 2050 MTP -- Deficiency Analysis

## Afternoon Peak-Hour Travel Time

2016 AFTERNOON Peak Hour Travel Time (minutes)						
To ==>	Durham DWTN	RTP	Raleigh DWTN	Chapel Hill	H'borough	Pittsboro
Durham DWTN		17	47	36	23	47
RTP	16		33	31	30	36
Raleigh DWTN	40	29		54	55	52
Chapel Hill	35	32	58		28	33
Hillsborough	24	32	61	27		46
Pittsboro	45	36	50	32	46	

2050 (E+C) AFTERNOON Peak Hour Travel Time (minutes)						
To ==>	Durham DWTN	RTP	Raleigh DWTN	Chapel Hill	H'borough	Pittsboro
Durham DWTN		21	81	54	39	87
RTP	22		65	53	52	73
Raleigh DWTN	74	56		101	103	112
Chapel Hill	57	53	108		44	59
Hillsborough	32	40	101	34		60
Pittsboro	64	48	91	36	48	

Compare 2016 and 2050AFTERNOON Peak (percent increase)						
To ==>	Durham DWTN	RTP	Raleigh DWTN	Chapel Hill	H'borough	Pittsboro
Durham DWTN		18%	74%	49%	70%	87%
RTP	41%		93%	70%	73%	106%
Raleigh DWTN	82%	90%		87%	89%	114%
Chapel Hill	62%	63%	86%		58%	78%
Hillsborough	31%	26%	64%	27%		30%
Pittsboro	41%	35%	82%	13%	5%	