

2045 MTP – Alternatives Analysis – Travel Time Tables

The tables on the following eight pages show the morning and afternoon peak hour travel time in minutes between key destinations of the DCHC MPO planning area for the four Alternatives. The comparison is between the 2013 Base Year and each Alternative. There are almost 900 total data values in these tables, which makes analyzing or understanding them difficult. It is suggested that the user look for color patterns, which depict the magnitude of change from 2013 to the Alternative, to identify key destinations that will experience the most travel time degradation. For example, on page 2, the cells in the Chapel Hill column in the “percentage increase” table show a series of so-called hotter colors. This pattern indicates that travel to Chapel Hill will experience a relatively sharp increase in time.

Note that there is a “from” and “to” travel time for each destination pairs and that those times can vary quite a bit. For example, the Moderate-MTP travel is 51 minutes from Durham to Raleigh in the afternoon, but only 46 minutes from Raleigh to Durham. This shows a directional difference in congestion during the future peak hour that we can already observe today.

See the following MPO Web page for information on the composition of the four Alternatives:
www.bit.ly/DCHC-MTP-Alternatives

Moderate-MTP -- AM Peak Hour

2013 AM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		10	35	25	17	38
	RTP	10		26	23	25	32
	Raleigh DT	34	26		45	49	43
	CH/Carrboro	26	23	44		20	25
	Hillsborough	18	25	50	21		42
	Pittsboro	39	33	47	28	42	

Mod- MTP

AM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		13	44	38	19	46
	RTP	12		34	33	28	36
	Raleigh DT	46	37		63	59	53
	CH/Carrboro	32	27	54		22	26
	Hillsborough	24	32	60	31		43
	Pittsboro	54	45	64	38	43	

Compare 2013 and M1: AM Peak Travel time (percent increase)

		To					
		Durham	RTP	Raleigh	CH/Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		31%	28%	50%	15%	19%
	RTP	25%		32%	40%	13%	15%
	Raleigh DT	35%	45%		41%	20%	22%
	CH/Carrboro	26%	19%	23%		11%	8%
	Hillsborough	31%	25%	19%	50%		3%
	Pittsboro	37%	39%	36%	37%	4%	

Notes: **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.

Moderate-MTP -- PM Peak Hour

2013

PM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		10	35	28	18	39
	RTP	10		26	25	26	32
	Raleigh DT	34	25		46	50	46
	CH/Carrboro	27	25	46		23	28
	Hillsborough	18	25	50	20		42
	Pittsboro	39	32	44	26	42	

Mod-
MTP

PM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		13	51	38	25	56
	RTP	13		41	33	34	46
	Raleigh DT	46	36		62	64	65
	CH/Carrboro	44	35	69		38	40
	Hillsborough	21	29	65	25		44
	Pittsboro	47	38	57	29	43	

Compare 2013 and M1: PM Peak Travel time (percent increase)

		To					
		Durham	RTP	Raleigh	CH/Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		29%	46%	36%	37%	43%
	RTP	31%		58%	32%	31%	43%
	Raleigh DT	36%	41%		35%	28%	41%
	CH/Carrboro	61%	43%	50%		63%	40%
	Hillsborough	21%	17%	29%	24%		5%
	Pittsboro	23%	18%	30%	12%	4%	

Notes: **Hotter** color depicts a larger increase in travel time.

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Moderate-Hwy -- AM Peak Hour

2013 AM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		10	35	25	17	38
	RTP	10		26	23	25	32
	Raleigh DT	34	26		45	49	43
	CH/Carrboro	26	23	44		20	25
	Hillsborough	18	25	50	21		42
	Pittsboro	39	33	47	28	42	

Mod- Hwy

AM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		14	45	38	19	46
	RTP	13		35	33	28	37
	Raleigh DT	46	37		64	59	53
	CH/Carrboro	33	28	55		22	27
	Hillsborough	24	32	63	32		43
	Pittsboro	54	45	64	38	43	

Compare 2013 and M3: AM Peak Travel time (percent increase)

		To					
		Durham	RTP	Raleigh	CH/Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		35%	31%	53%	16%	19%
	RTP	30%		35%	41%	15%	15%
	Raleigh DT	35%	44%		41%	21%	23%
	CH/Carrboro	27%	20%	25%		12%	8%
	Hillsborough	31%	25%	27%	50%		3%
	Pittsboro	37%	38%	38%	37%	4%	

Notes: **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.

Moderate-Hwy -- PM Peak Hour

2013

PM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		10	35	28	18	39
	RTP	10		26	25	26	32
	Raleigh DT	34	25		46	50	46
	CH/Carrboro	27	25	46		23	28
	Hillsborough	18	25	50	20		42
	Pittsboro	39	32	44	26	42	

Mod-
Hwy

PM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		14	52	38	25	56
	RTP	13		41	32	34	46
	Raleigh DT	48	37		63	65	67
	CH/Carrboro	45	38	72		38	40
	Hillsborough	22	31	69	25		44
	Pittsboro	48	38	58	29	44	

Compare 2013 and M3: PM Peak Travel time (percent increase)

		To					
		Durham	RTP	Raleigh	CH/Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		38%	48%	38%	37%	44%
	RTP	34%		56%	27%	29%	42%
	Raleigh DT	41%	47%		36%	29%	44%
	CH/Carrboro	66%	55%	56%		64%	40%
	Hillsborough	26%	23%	38%	25%		6%
	Pittsboro	24%	19%	32%	12%	5%	

Notes: **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.

Aspirational-Transit -- AM Peak Hour

2013 AM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		10	35	25	17	38
	RTP	10		26	23	25	32
	Raleigh DT	34	26		45	49	43
	CH/Carrboro	26	23	44		20	25
	Hillsborough	18	25	50	21		42
	Pittsboro	39	33	47	28	42	

Asp- Transit AM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		13	44	35	23	54
	RTP	12		34	31	32	44
	Raleigh DT	46	37		61	63	69
	CH/Carrboro	38	31	59		32	36
	Hillsborough	21	28	56	24		43
	Pittsboro	47	38	53	28	43	

Compare 2013 and Asp1: AM Peak Travel time (percent increase)

		To					
		Durham	RTP	Raleigh	CH/Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		26%	28%	40%	40%	40%
	RTP	26%		33%	30%	30%	40%
	Raleigh DT	36%	43%		36%	29%	59%
	CH/Carrboro	47%	37%	33%		62%	46%
	Hillsborough	15%	11%	13%	13%		4%
	Pittsboro	20%	17%	13%	3%	3%	

Notes: **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.

Aspirational-Transit -- PM Peak Hour

2013

PM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		10	35	28	18	39
	RTP	10		26	25	26	32
	Raleigh DT	34	25		46	50	46
	CH/Carrboro	27	25	46		23	28
	Hillsborough	18	25	50	20		42
	Pittsboro	39	32	44	26	42	

Asp-
Transit

PM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		13	46	33	19	45
	RTP	12		37	30	27	36
	Raleigh DT	40	32		55	53	50
	CH/Carrboro	31	27	56		22	27
	Hillsborough	23	31	60	27		42
	Pittsboro	51	43	67	34	43	

Compare 2013 and Asp1: PM Peak Travel time (percent increase)

		To					
		Durham	RTP	Raleigh	CH/Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		26%	30%	21%	4%	15%
	RTP	21%		40%	21%	4%	12%
	Raleigh DT	18%	26%		20%	5%	7%
	CH/Carrboro	15%	10%	22%		-7%	-6%
	Hillsborough	29%	22%	20%	35%		1%
	Pittsboro	33%	36%	53%	32%	2%	

Notes: **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.

Aspirational-MTP -- AM Peak Hour

2013 AM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		10	35	25	17	38
	RTP	10		26	23	25	32
	Raleigh DT	34	26		45	49	43
	CH/Carrboro	26	23	44		20	25
	Hillsborough	18	25	50	21		42
	Pittsboro	39	33	47	28	42	

Asp- MTP

AM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		13	46	33	19	45
	RTP	12		37	30	27	36
	Raleigh DT	40	32		56	53	50
	CH/Carrboro	32	27	56		22	27
	Hillsborough	23	31	60	27		42
	Pittsboro	52	44	68	34	43	

Compare 2013 and Asp2: AM Peak Travel time (percent increase)

		To					
		Durham	RTP	Raleigh	CH/Carrboro	Hillsborough	Pittsboro
<u>From</u>	Durham DT		30%	34%	33%	13%	18%
	RTP	20%		42%	29%	10%	14%
	Raleigh DT	18%	25%		24%	8%	14%
	CH/Carrboro	24%	19%	28%		10%	8%
	Hillsborough	28%	22%	21%	30%		2%
	Pittsboro	32%	35%	46%	24%	3%	

Notes: **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.

Aspirational-MTP -- PM Peak Hour

2013

PM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
From	Durham DT		10	35	28	18	39
	RTP	10		26	25	26	32
	Raleigh DT	34	25		46	50	46
	CH/Carrboro	27	25	46		23	28
	Hillsborough	18	25	50	20		42
	Pittsboro	39	32	44	26	42	

Asp-
MTP

PM Peak Hr Travel time

		To					
		Durham	RTP	Raleigh	CH/ Carrboro	Hillsborough	Pittsboro
From	Durham DT		13	44	36	24	54
	RTP	13		35	31	32	45
	Raleigh DT	47	37		62	63	70
	CH/Carrboro	38	31	59		32	36
	Hillsborough	21	28	56	24		43
	Pittsboro	47	38	53	28	43	

Compare 2013 and Asp2: PM Peak Travel time (percent increase)

		To					
		Durham	RTP	Raleigh	CH/Carrboro	Hillsborough	Pittsboro
From	Durham DT		25%	26%	28%	30%	38%
	RTP	28%		32%	24%	23%	38%
	Raleigh DT	38%	47%		34%	26%	50%
	CH/Carrboro	38%	27%	28%		36%	28%
	Hillsborough	18%	13%	13%	17%		3%
	Pittsboro	22%	19%	21%	10%	2%	

Notes: **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.