

GPS Traffic Analysis Initial Findings

May 23, 2016

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State
Smart Transportation
Initiative



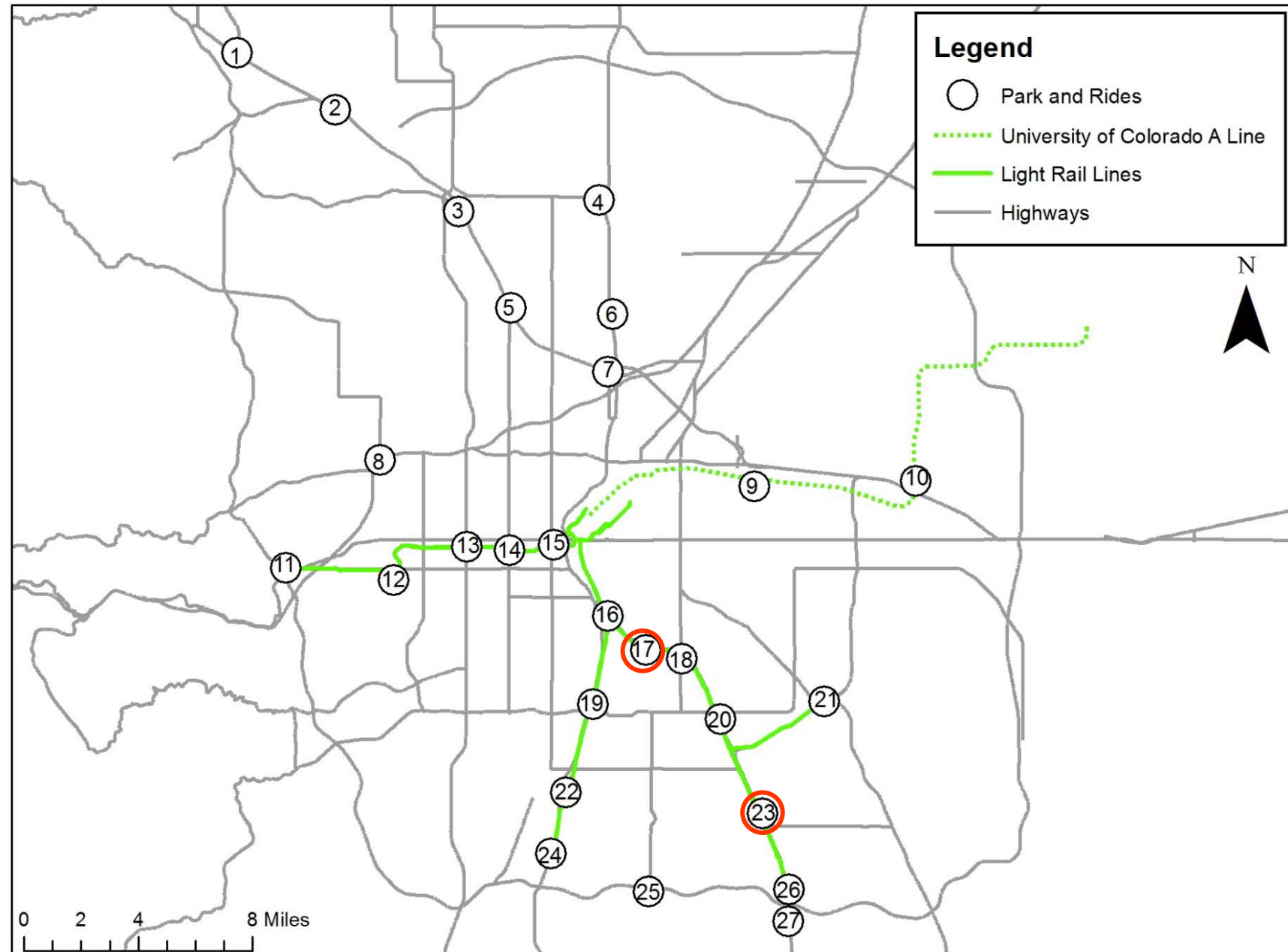
COLORADO
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Background

- Analysis based on GPS trace data from non-commercial vehicles recorded during 2015 and adjusted to approximate passenger AADT.
- Our primary goal is to develop a list of the top 20 projects that could reduce the number and length of car trips.
 - Also interested in identifying places where local trips may be clogging congested highways and arterials.

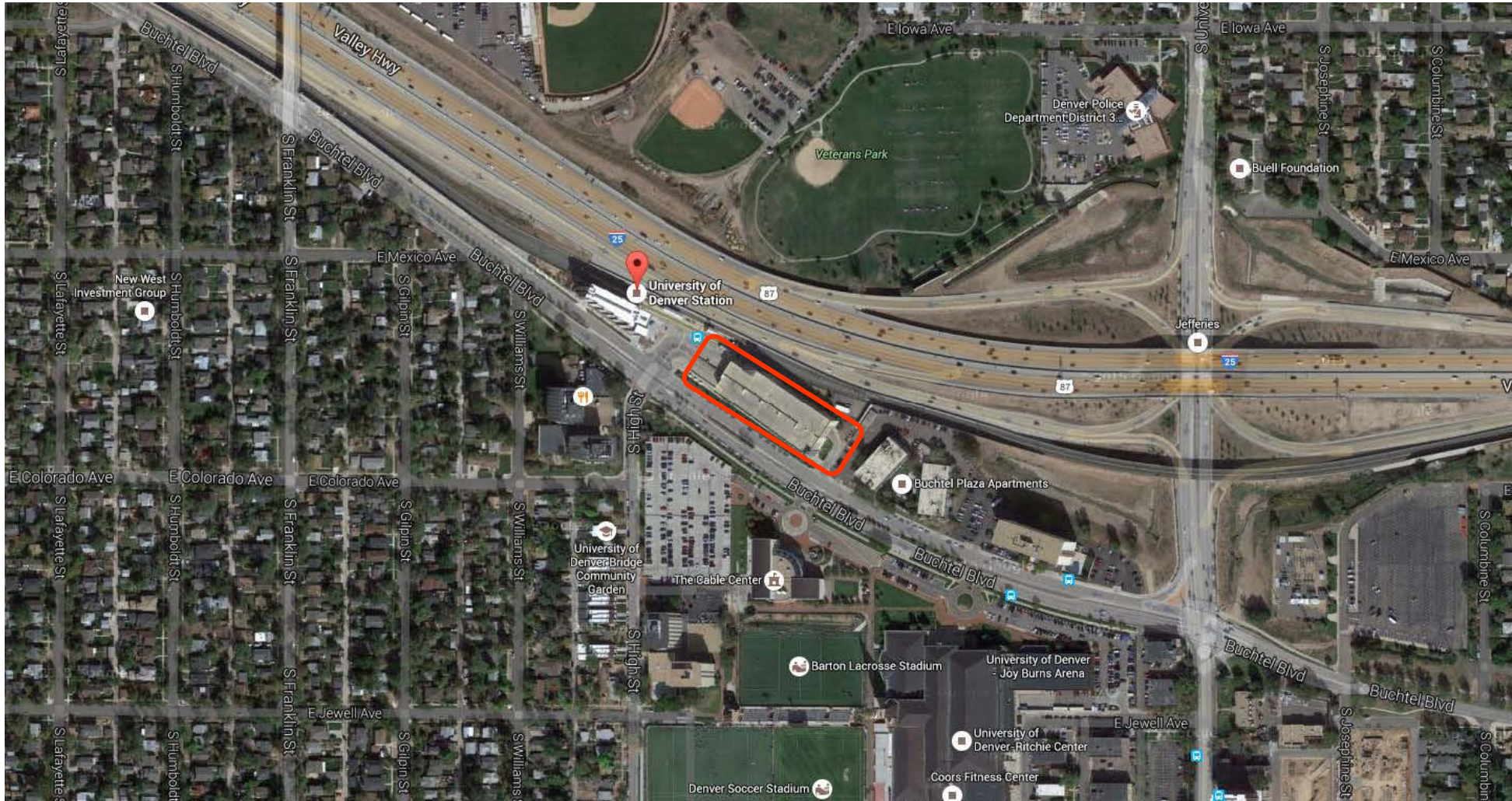
Overview

- Trips to/from Park-n-Rides
- Car trips that could be shifted to Light Rail
- Activity Centers (short trip hotspots)
 - Cherry Creek
 - Greenwood/Centennial
- Short Trips on I-70
- Comments



	Park and Ride	Parking Spaces	Total Weekday AADT	<1 Mile	<2 Miles
1	Table Mesa	824	557	16	72
2	US36/McCaslin	466	305	8	50
3	US36/Broomfield	940	813	8	26
4	Wagon Road	1540	877	25	101
5	US36/Westminster Center	1310	518	20	100
6	Thornton	817	137	2	16
7	70th Ave/Broadway	308	314	11	56
8	Ward Road	491	109	0	9
9	Stapleton	1314	300	14	67
10	Airport Blvd/40th Ave	1079	527	11	48
Jefferson Co Government-					
11	Golden Station	705	2,722	62	211
12	Federal Center Station	1000	258	11	33
13	Lakewood-Wadsworth Station	1000	300	20	78
14	Sheridan Station	800	21	0	3
15	Decatur-Federal Station	1900	298	6	82
16	1-25/Broadway Station	1248	646	37	122
17	University of Denver Station	540	616	70	239
18	Colorado Station	363	473	26	107
19	Englewood Station	910	188	11	53
20	Southmoor Station	788	733	22	93
21	Nine Mile Station	1225	1,029	15	92
22	Littleton-Downtown Station	361	215	9	62
23	Arapahoe at Village Center Station	1115	712	75	185
24	Littleton-Mineral Station	1227	2,307	23	115
25	C470/University Blvd	440	135	3	25
26	County Line Station	388	233	9	26
27	Lincoln Station	1734	2,748	16	117

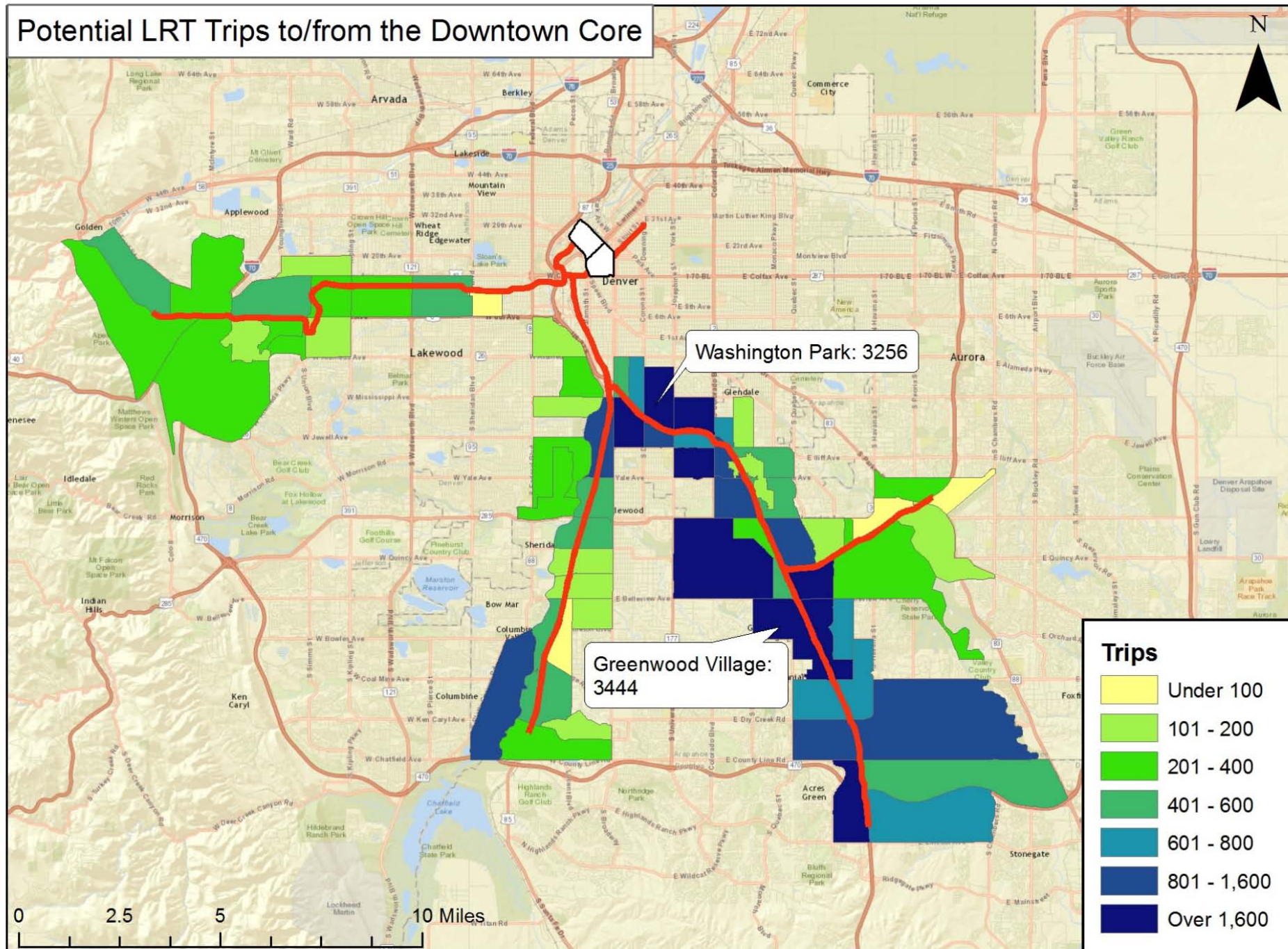
University of Denver Station



Arapahoe at Village Center Station

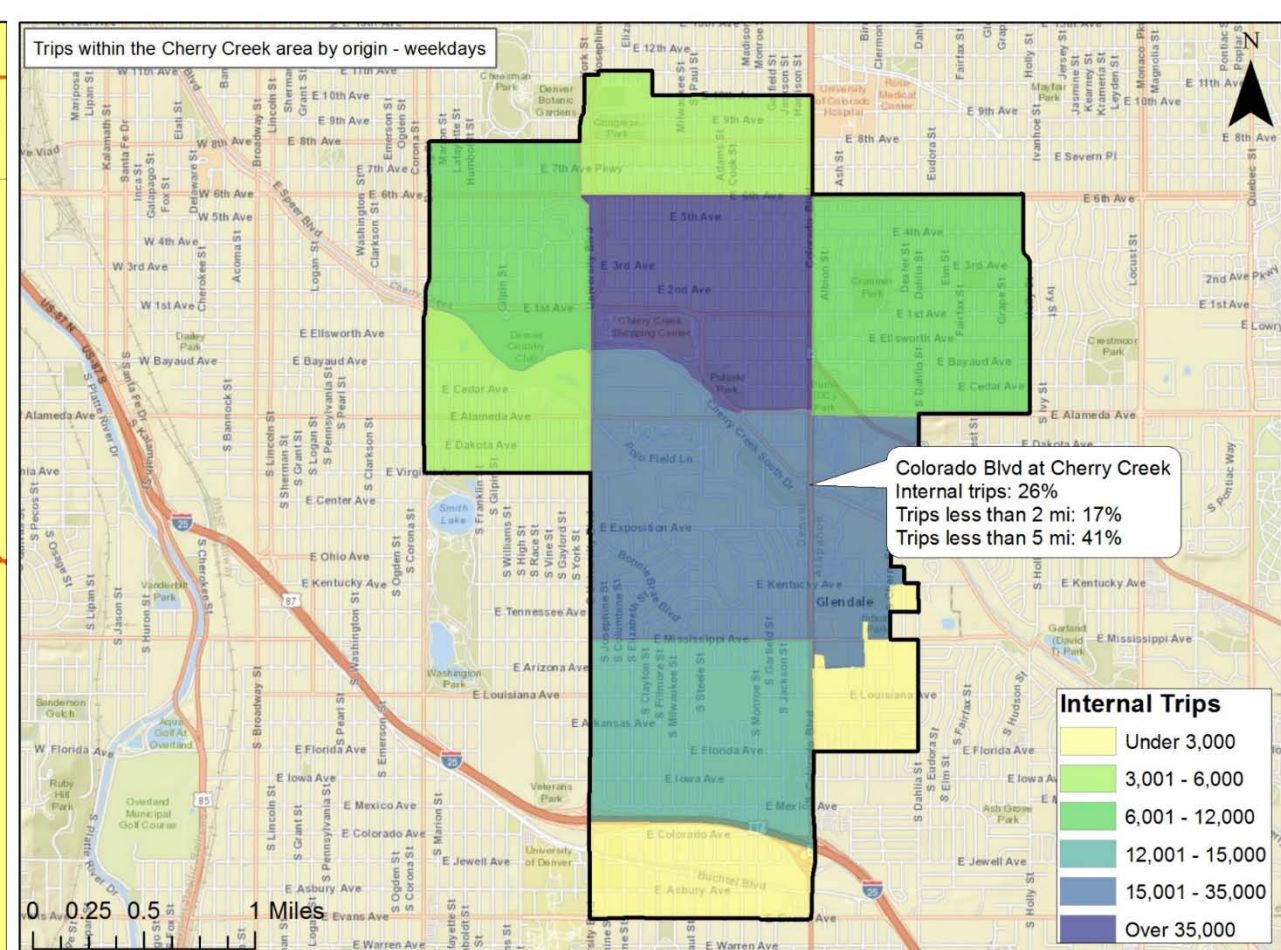
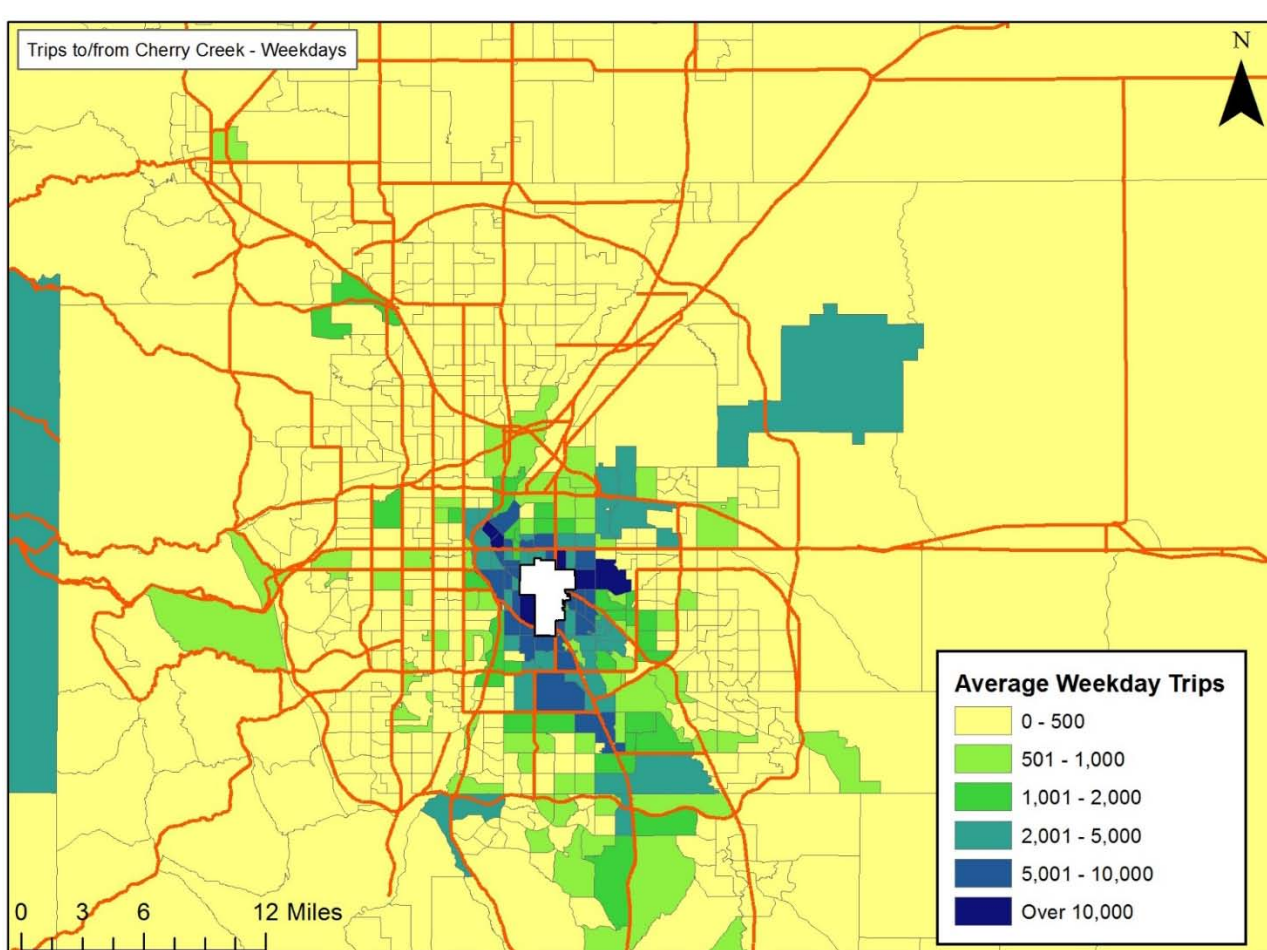


Potential LRT Trips to/from the Downtown Core

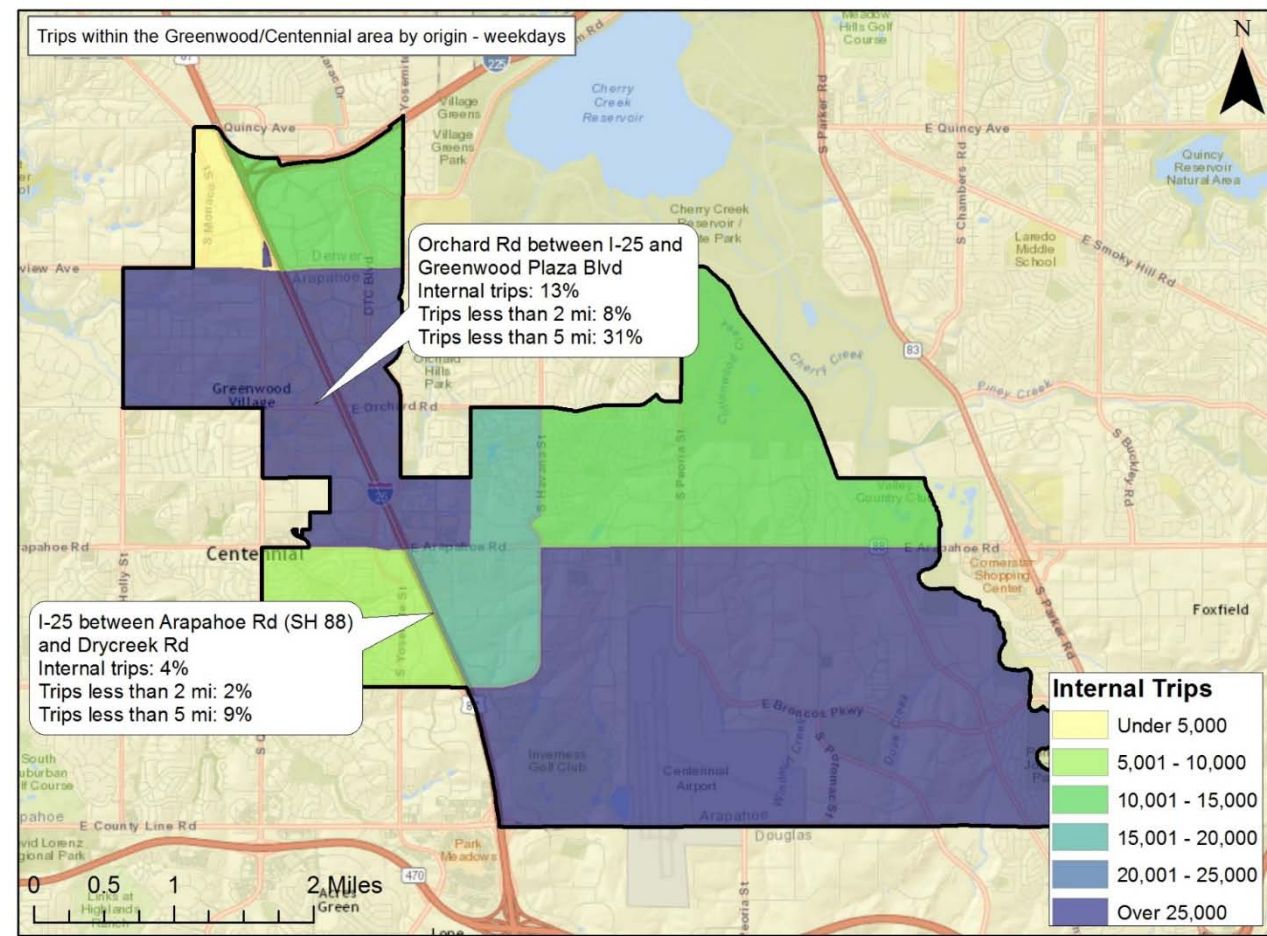
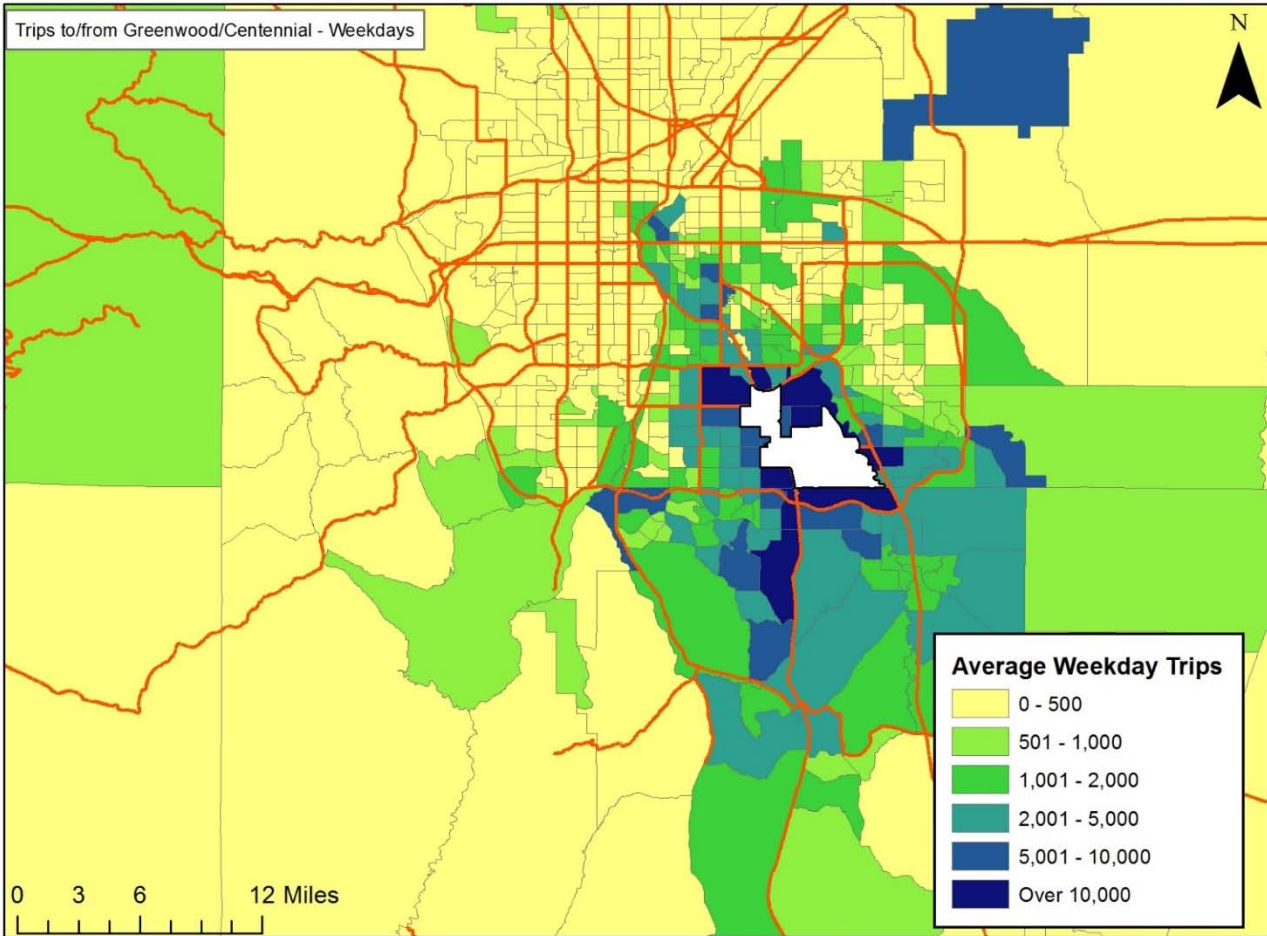


Park-n-Rides

- Other questions about traffic to/from park-n-rides?
- Other comments?

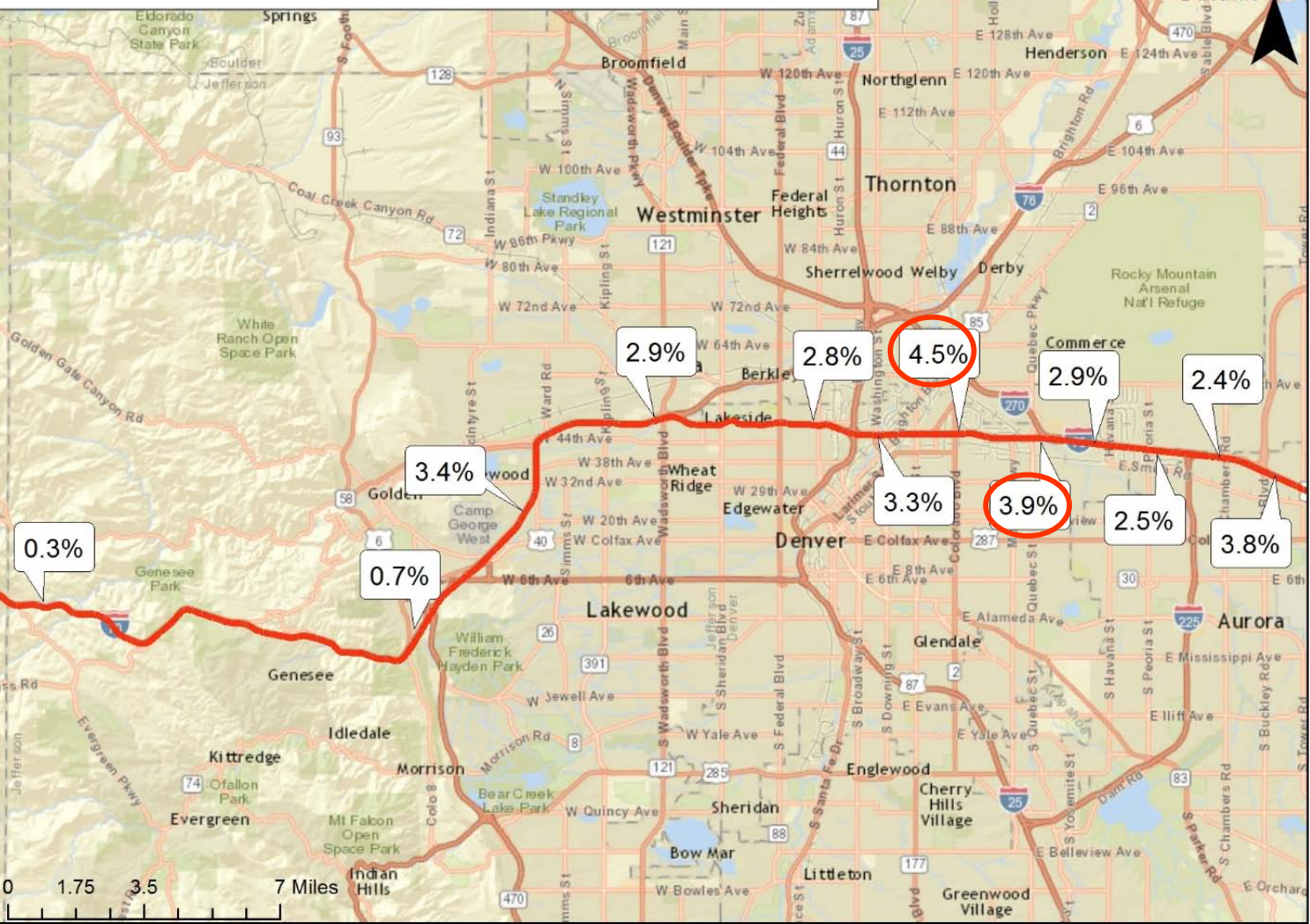


	Total Trips	0-1mi	0-2mi	0-5mi	Circuitous Trips
Internal	160,251	46,969	124,806	157,565	10,773
External	563,203	15,515	89,603	320,523	18,454



	Total Trips	0-1mi	0-2mi	0-5mi	Circuitous Trips
Internal	132,301	22,724	70,944	124,738	13,039
External	638,567	7,206	44,453	196,978	28,836

Trips under 5 miles as a percentage of total I-70 weekday traffic



Location	Percent of trips under 5 mi	Location	Percent of trips under 5 mi
I-70 between Soda Creek Rd & SR 103	0.3%	I-70 between Dahlia St & Colorado Blvd (SH 2)	4.5%
I-70 between Rooney Rd & Colfax Ave (US 40)	0.7%	I-70 between I-270 and Quebec St	3.9%
I-70 between 20th Ave & 26th Ave	3.4%	I-70 between N Havana St & N Central Park Blvd	2.9%
I-70 between Kipling St and Wadsworth Blvd (SH 121)	2.9%	I-70 between Peoria St & I-225	2.5%
I-70 between Pecos St & Federal Blvd	2.8%	I-70 between Chambers Rd & I-225	2.4%
I-70 between 44th St and N Washington St	3.3%	I-70 between Airport Blvd & Tower Rd	3.8%

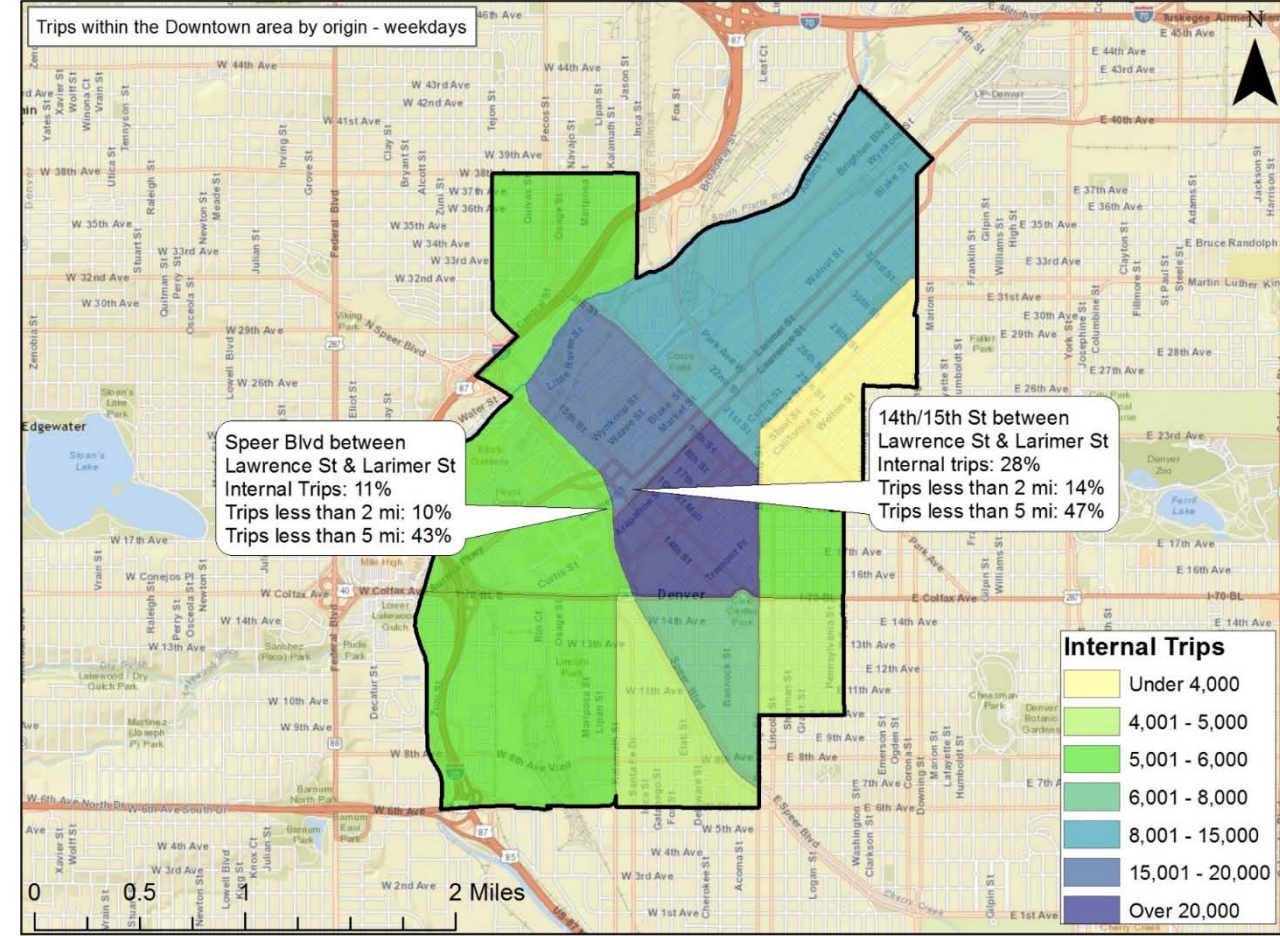
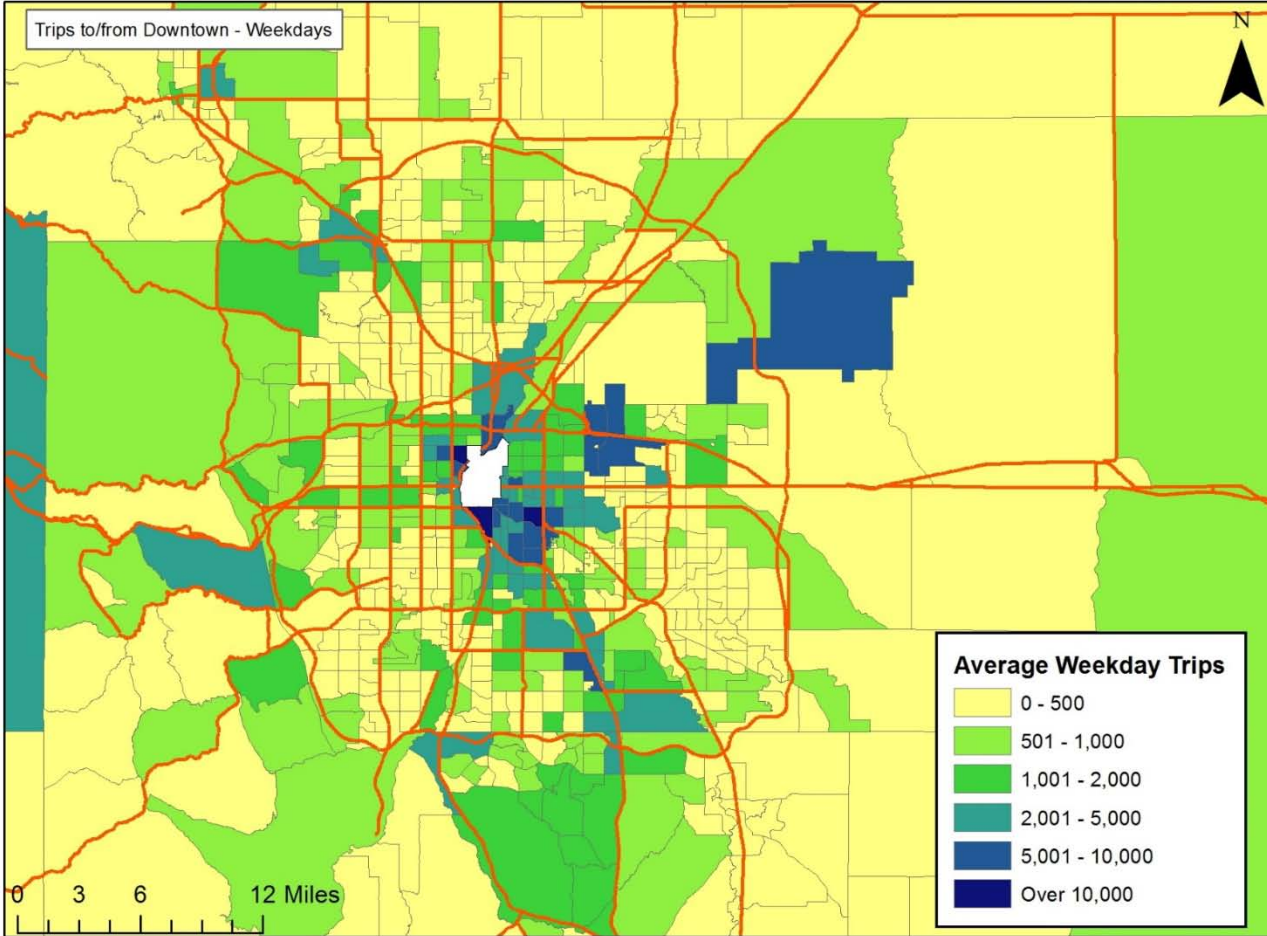
Next Steps

- Get data for additional select links around activity centers.
- Truth test potential policies to reduce the number/length of car trips.
- Final report with a list of policies to reduce the length or number of car trips.

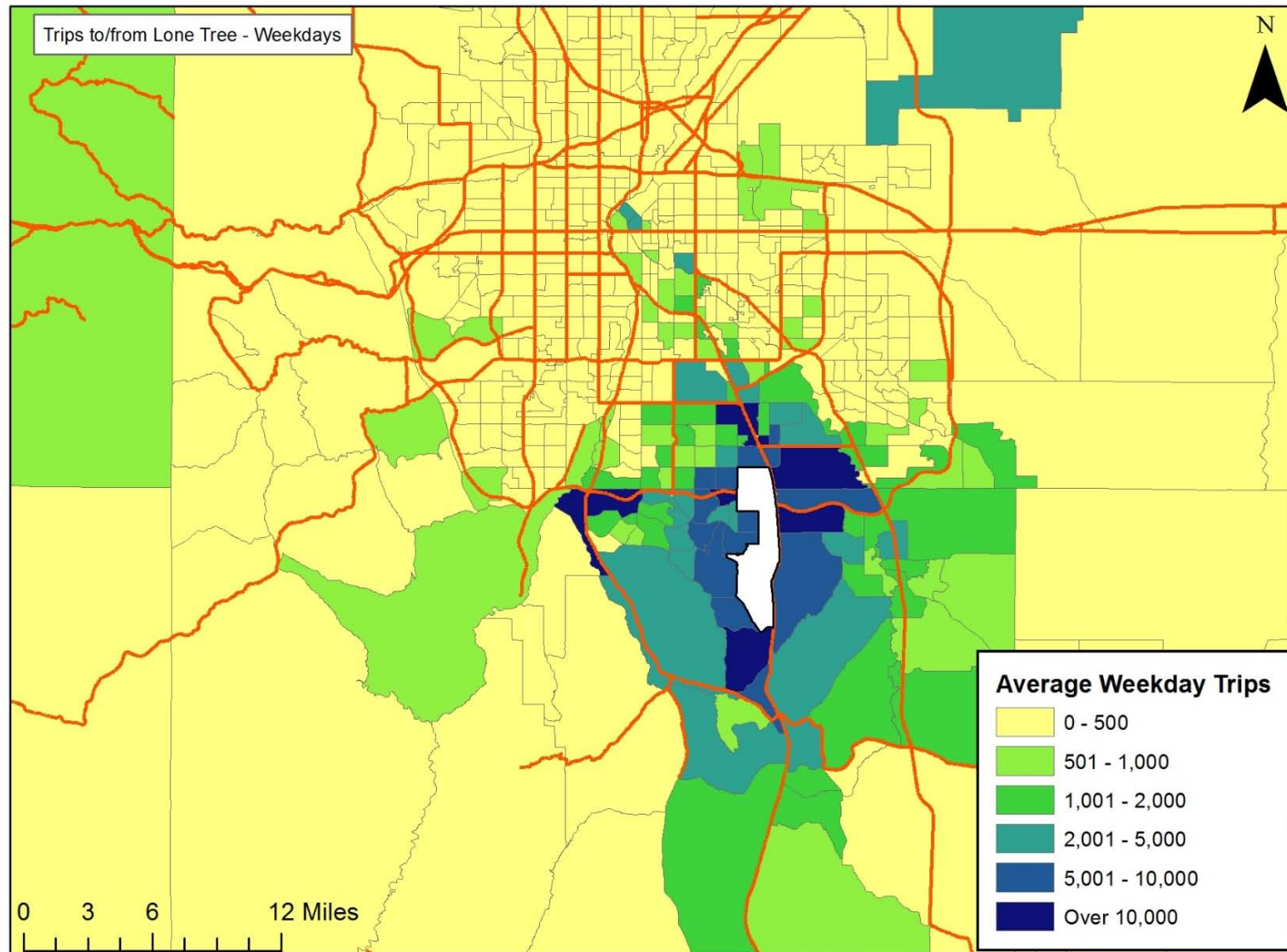
Conclusion

- Other comments/questions?
- Feel free to email me with additional comments about the places covered in the presentation or in the handout, or identify other areas/issues you are interested in.

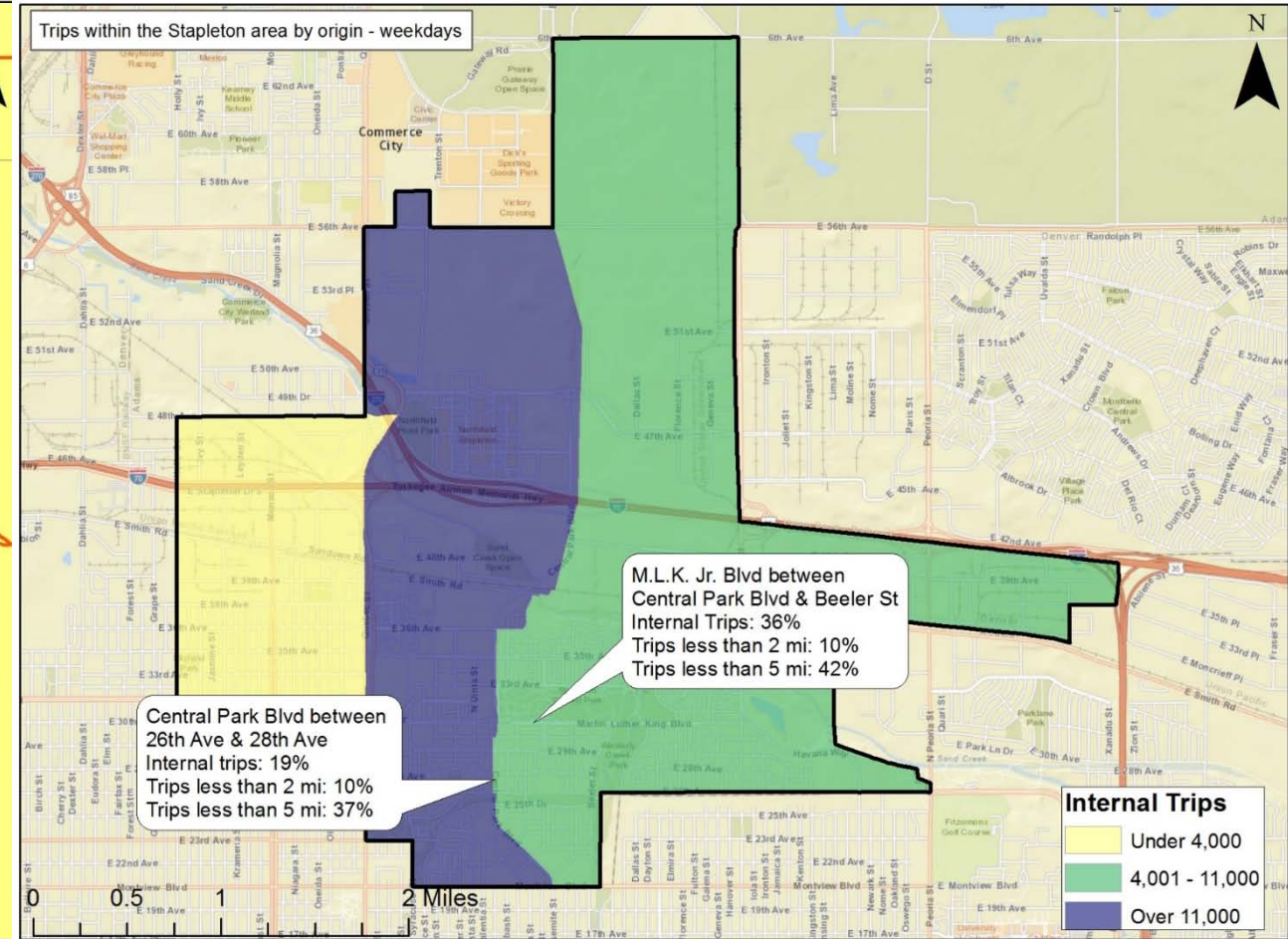
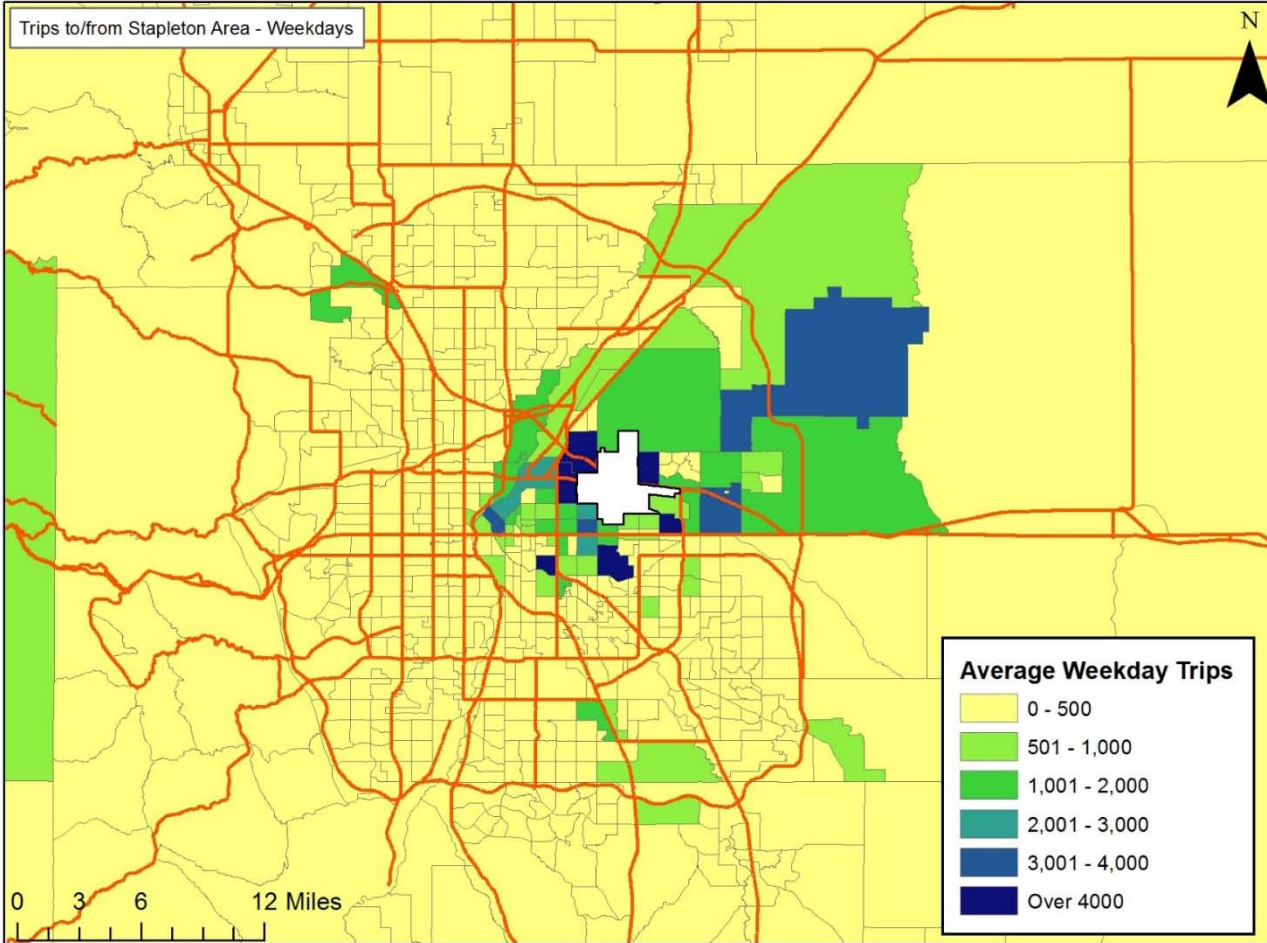
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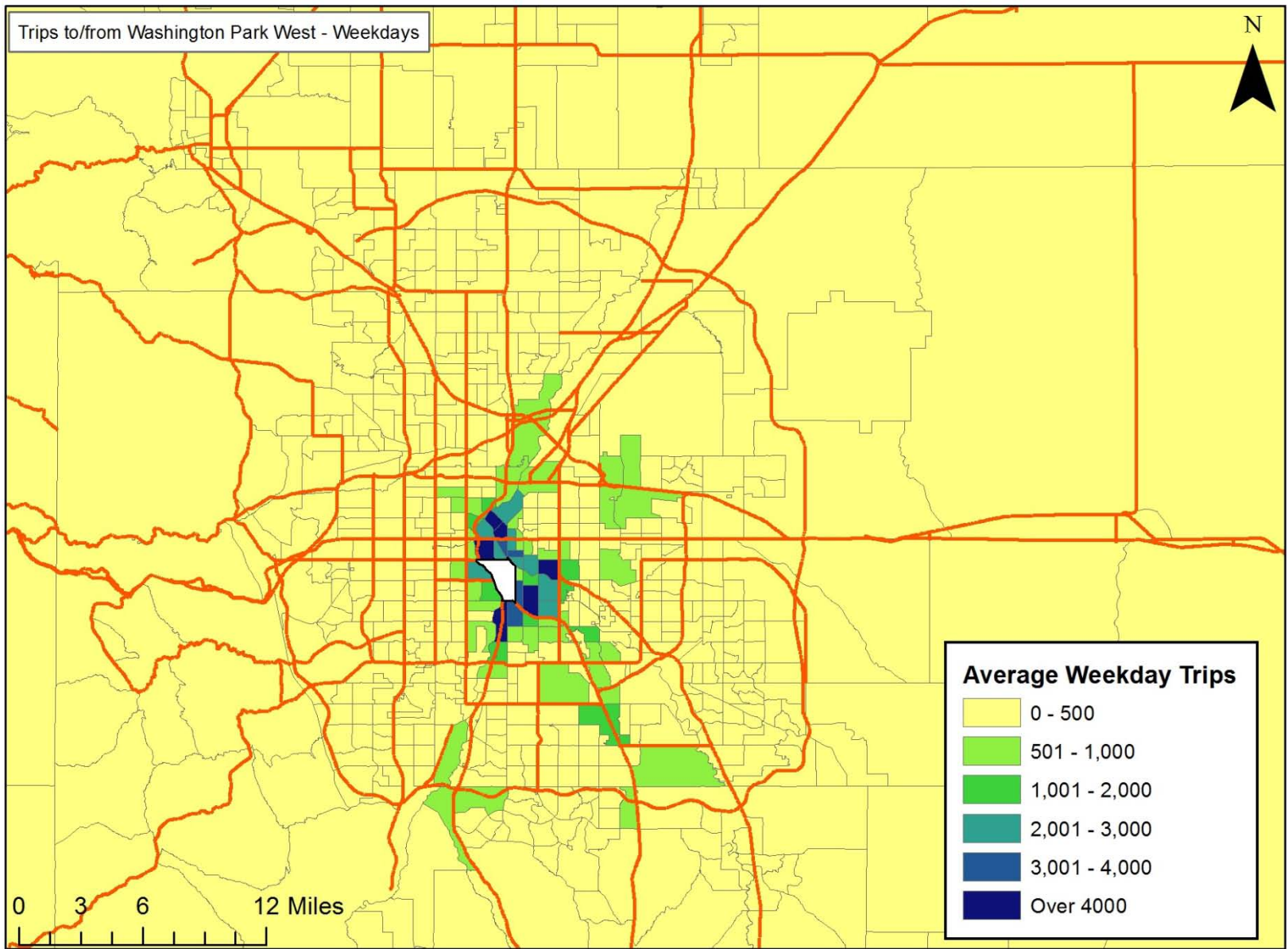
	Total Trips	0-1mi	0-2mi	0-5mi	Circuitous Trips
Internal	97,103	39,495	82,054	95,517	11,024
External	593,260	12,354	62,775	225,724	19,339



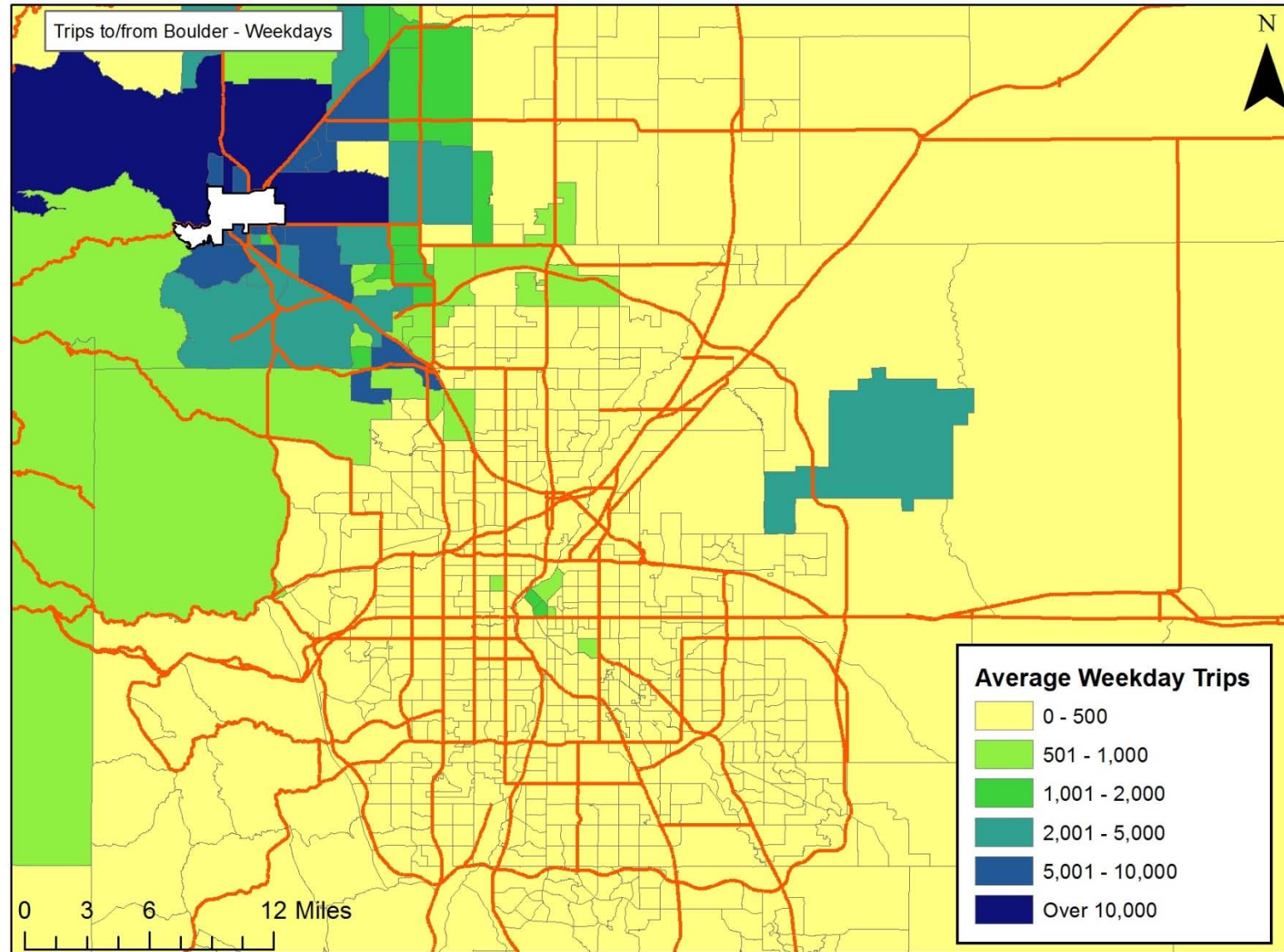
	Total Trips	0-1mi	0-2mi	0-5mi	Circuitous Trips
Internal	56,447	11,311	32,679	51,555	7,281
External	385,390	5,490	35,436	139,609	22,260



	Total Trips	0-1mi	0-2mi	0-5mi	Circuitous Trips
Internal	33,041	6,024	17,966	31,743	3,650
External	169,895	2,239	13,186	56,362	7,898



	Total Trips	0-1mi	0-2mi	0-5mi	Circuitous Trips
Internal	12,137	6,059	11,138	11,982	846
External	157,260	6,714	35,548	96,259	5,739



	Total Trips	0-1mi	0-2mi	0-5mi	Circuitous Trips
Internal	93,430	19,221	64,261	90,485	8,318
External	241,190	5,511	35,285	117,093	9,865