2055 Long Range Transportation Plan Update

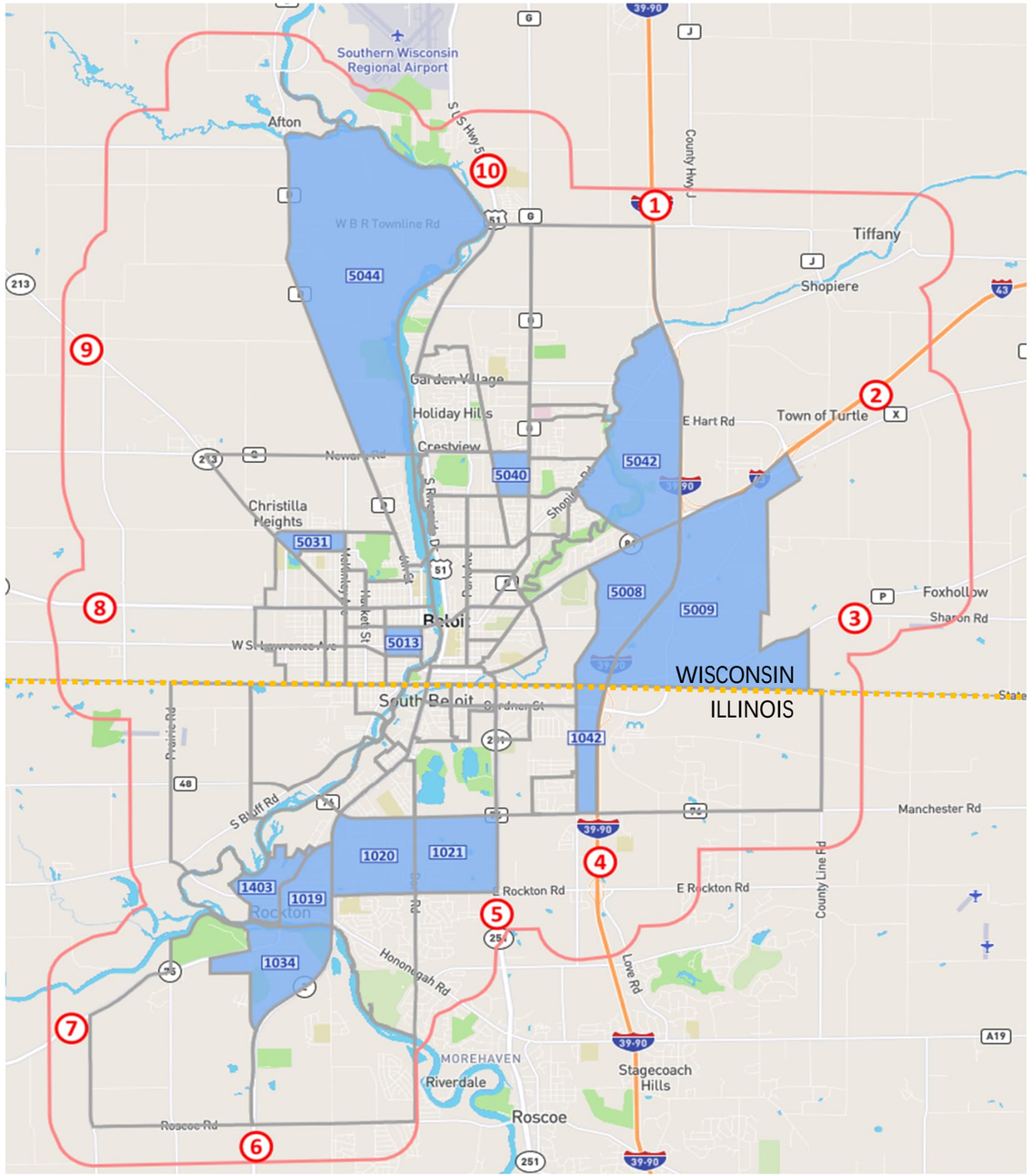
Appendix J – Regional Truck Travel Analysis

June 18, 2026

AECOM

Regional Truck Travel Analysis

	ID	Location
Origins	1	I-39 (North MPA Boundary)
	2	I-43
	3	WI 67
	4	I-39 (South MPA Boundary)
	5	IL 251 (2nd Street)
	6	IL 2 (Main Street)
	7	IL 75 (Freeport Road)
	8	WI 81 (Liberty Avenue)
	9	WI 213 (Madison Road)
	10	US 51 (North MPA Boundary)



Regional Truck Travel Analysis

Legend

AADT = Average Annual Daily Traffic

HCV = Heavy Commercial Vehicles (Trucks)

E–E = External – External Trips

E–I = External – Internal Trips

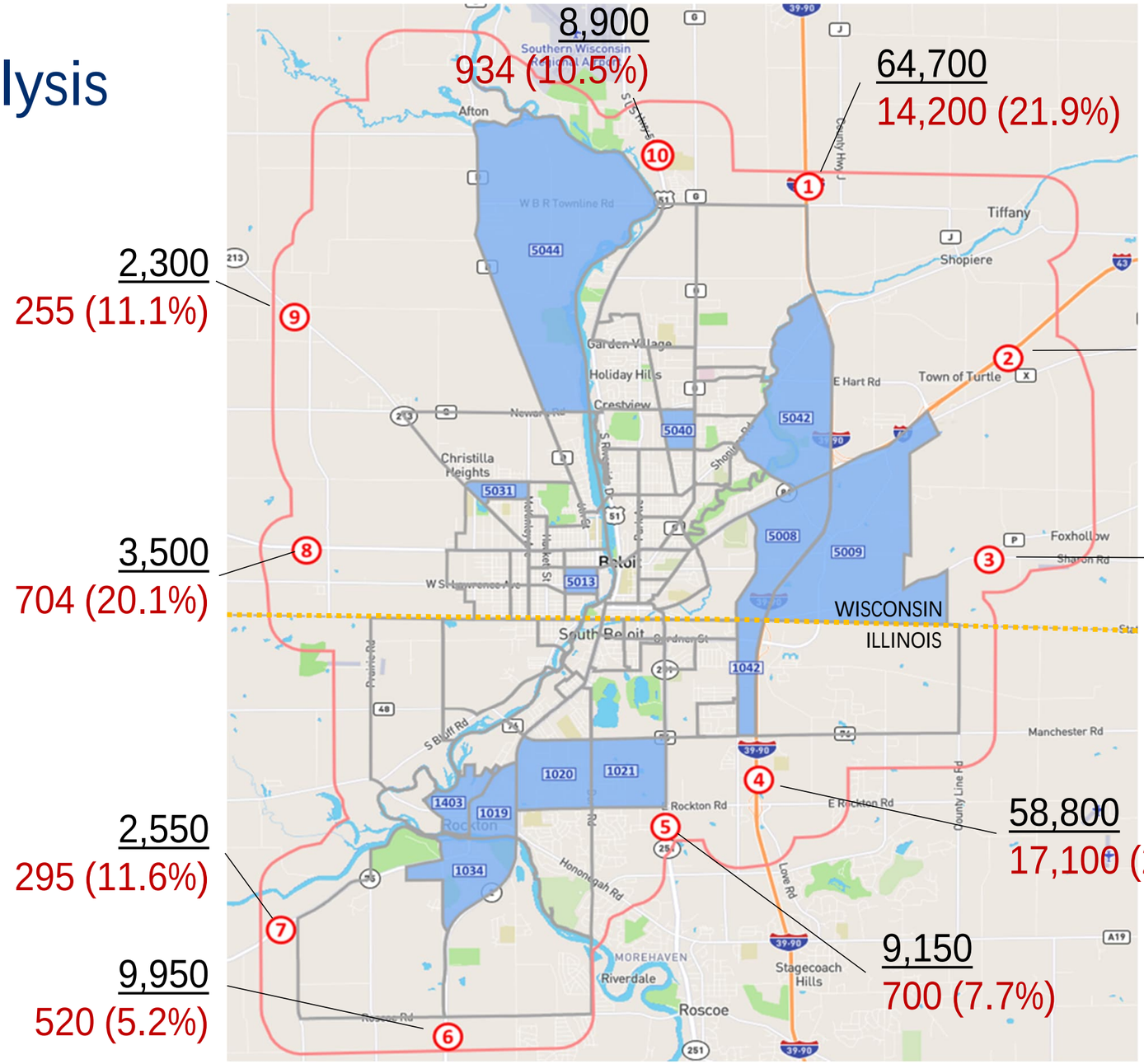
	ID	Location	AADT	HCV	HCV %	Directional (Assume 50/50 Split) AADT	Directional (Assume 50/50 Split) HCV	HCV E-E Trips	HCV E-E %	HCV E-I Trips	HCV E-I %
Origins	1	I-39 (North MPA Boundary)	64,700	14,200	21.9%	32,350	7,100	6,578	93%	522	7%
	2	I-43	16,600	3,584	21.6%	8,300	1,792	1,205	67%	587	33%
	3	WI 67	1,900	237	12.5%	950	119	41	35%	78	65%
	4	I-39 (South MPA Boundary)	58,800	17,100	29.1%	29,400	8,550	7,274	85%	1,276	15%
	5	IL 251 (2nd Street)	9,150	700	7.7%	4,575	350	74	21%	276	79%
	6	IL 2 (Main Street)	9,950	520	5.2%	4,975	260	17	7%	243	93%
	7	IL 75 (Freeport Road)	2,550	295	11.6%	1,275	148	28	19%	120	81%
	8	WI 81 (Liberty Avenue)	3,500	704	20.1%	1,750	352	203	58%	149	42%
	9	WI 213 (Madison Road)	2,300	255	11.1%	1,150	128	0	0%	128	100%
	10	S 51 (North MPA Boundary)	8,900	934	10.5%	4,450	467	48	10%	419	90%

Regional Truck Travel Analysis

- Average Annual Daily Traffic (AADT)
- Heavy Commercial Vehicle (HCV) volumes

Legend

AADT Volume
HCV Volume (HCV%)



Regional Truck Travel Analysis

- External – External Truck Trip (Percent of All Vehicles for each OD pair)

			Screenline Destination									
	ID	Location	1	2	3	4	5	6	7	8	9	10
Screenline Origin	1	I-39 (North MPA Boundary)		41%	8%	22%	11%	3%	14%	13%	0%	0%
	2	I-43	8%		0%	12%	7%	0%	5%	39%	0%	0%
	3	WI 67	47%	0%		12%	0%	0%	67%	91%	25%	0%
	4	I-39 (South MPA Boundary)	25%	16%	13%		0%	0%	0%	22%	0%	67%
	5	IL 251 (2nd Street)	39%	8%	0%	0%		0%	0%	0%	0%	7%
	6	IL 2 (Main Street)	0%	3%	0%	0%	0%		1%	2%	0%	3%
	7	IL 75 (Freeport Road)	9%	10%	0%	0%	0%	2%		0%	0%	0%
	8	WI 81 (Liberty Avenue)	2%	15%	100%	37%	33%	1%	0%		0%	0%
	9	WI 213 (Madison Road)	0%	0%	0%	0%	0%	0%	0%	0%		0%
	10	US 51 (North MPA Boundary)	0%	0%	0%	27%	2%	1%	6%	29%	33%	

Regional Truck Travel Analysis

- External – External Truck Trip (% of Origin)

			Screenline Destination										
	ID	Location	1	2	3	4	5	6	7	8	9	10	Total
Screenline Origin	1	I-39 (North MPA Boundary)		0%	0%	99%	1%	0%	0%	0%	0%	0%	100%
	2	I-43	4%		0%	74%	1%	0%	1%	18%	0%	0%	100%
	3	WI 67	61%	0%		7%	0%	0%	5%	24%	2%	0%	100%
	4	I-39 (South MPA Boundary)	86%	12%	0%		0%	0%	0%	1%	0%	0%	100%
	5	IL 251 (2nd Street)	68%	19%	0%	0%		0%	0%	0%	0%	14%	100%
	6	IL 2 (Main Street)	0%	6%	0%	0%	0%		41%	12%	0%	41%	100%
	7	IL 75 (Freeport Road)	11%	54%	0%	0%	0%	36%		0%	0%	0%	100%
	8	WI 81 (Liberty Avenue)	1%	49%	5%	44%	0%	0%	0%		0%	0%	100%
	9	WI 213 (Madison Road)	0%	0%	0%	0%	0%	0%	0%	0%		0%	0%
	10	US 51 (North MPA Boundary)	0%	0%	0%	25%	4%	8%	6%	54%	2%		100%

Regional Truck Travel Analysis

- External – External Truck Trip (% of Destination)

			Screenline Destination									
	ID	Location	1	2	3	4	5	6	7	8	9	10
Screenline Origin	1	I-39 (North MPA Boundary)		2%	13%	86%	69%	12%	39%	1%	0%	0%
	2	I-43	1%		0%	12%	27%	0%	23%	67%	0%	0%
	3	WI 67	0%	0%		0%	0%	0%	6%	3%	33%	0%
	4	I-39 (South MPA Boundary)	98%	84%	20%		0%	0%	0%	21%	33%	41%
	5	IL 251 (2nd Street)	1%	1%	0%	0%		0%	0%	0%	0%	34%
	6	IL 2 (Main Street)	0%	0%	0%	0%	0%		23%	1%	0%	24%
	7	IL 75 (Freeport Road)	0%	1%	0%	0%	0%	59%		0%	0%	0%
	8	WI 81 (Liberty Avenue)	0%	9%	67%	1%	1%	6%	0%		0%	0%
	9	WI 213 (Madison Road)	0%	0%	0%	0%	0%	0%	0%	0%		0%
	10	US 51 (North MPA Boundary)	0%	0%	0%	0%	3%	24%	10%	8%	33%	
		Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Regional Truck Travel Analysis

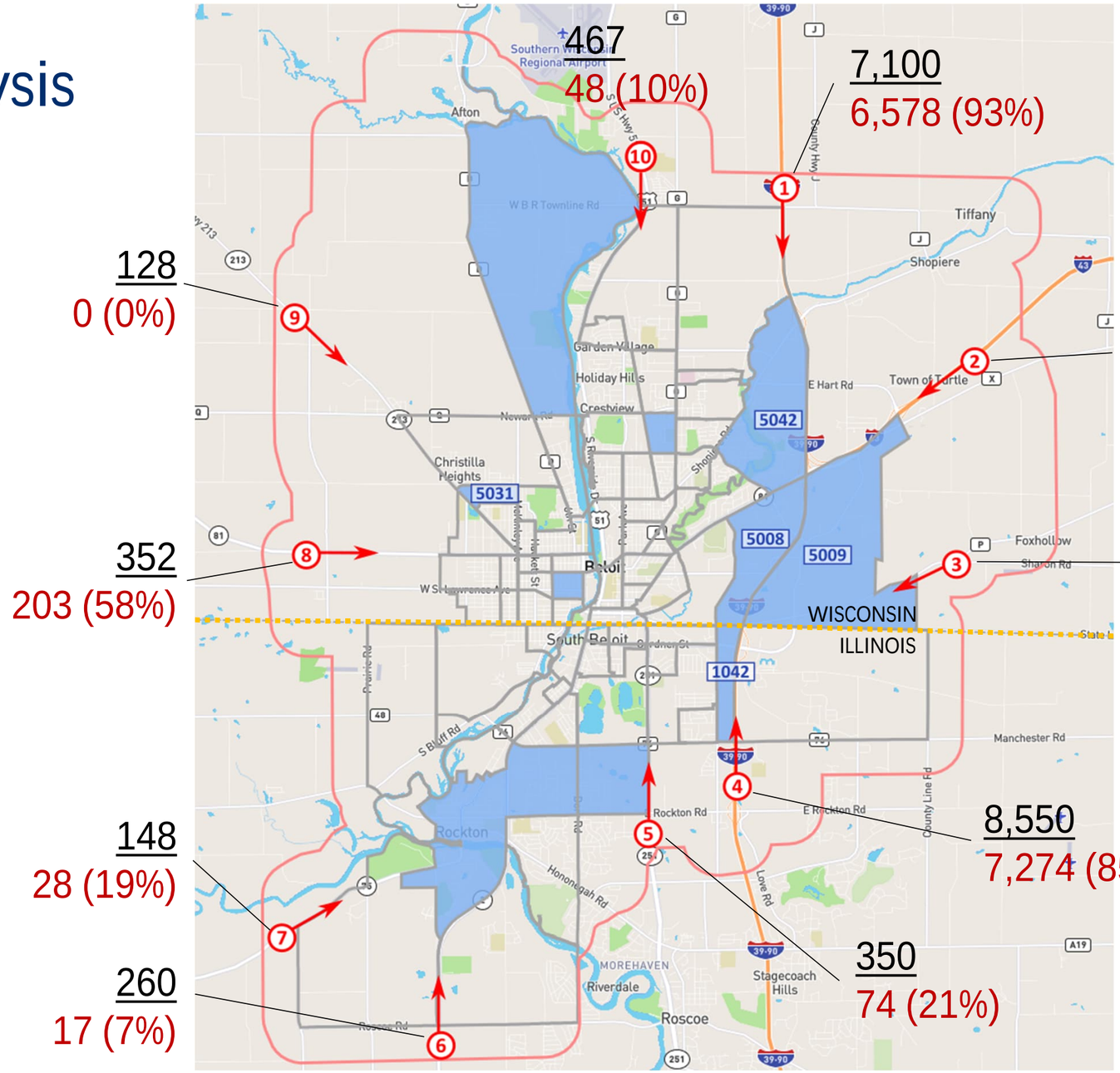
- External – External Trips

Legend

HCV Volume

E-E Trips (E-E%)

Notes:
- E-E number of daily trips are extracted from Replica for Spring 2025 (Thursday).
- Trips shown are for all trucks (medium duty [10,000-26,000 lbs] and heavy duty [>26000 lbs]).



Regional Truck Travel Analysis

- External – Internal Trips

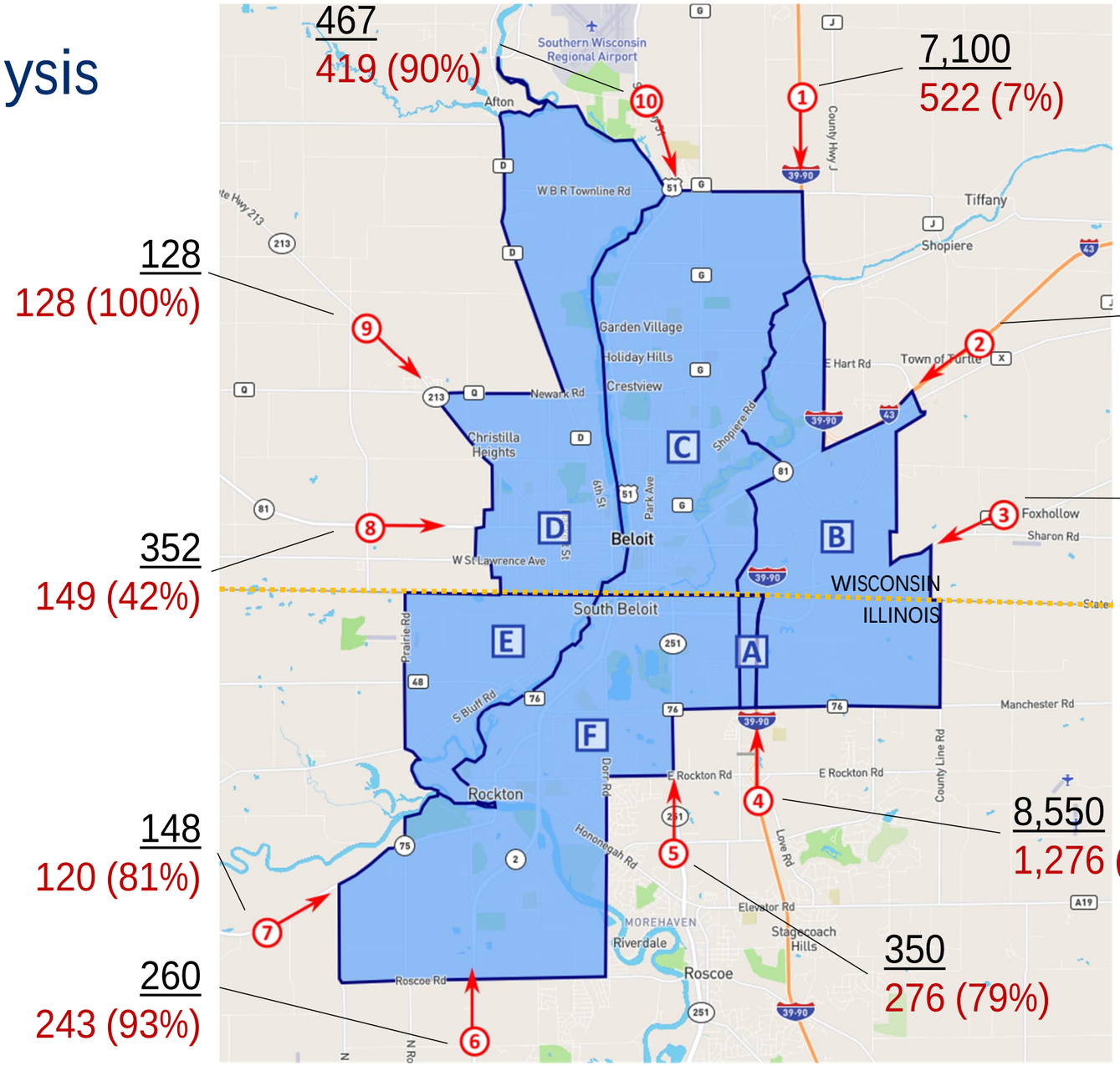
Legend

HCV Volume

E-I Trips (E-I%)

Notes:

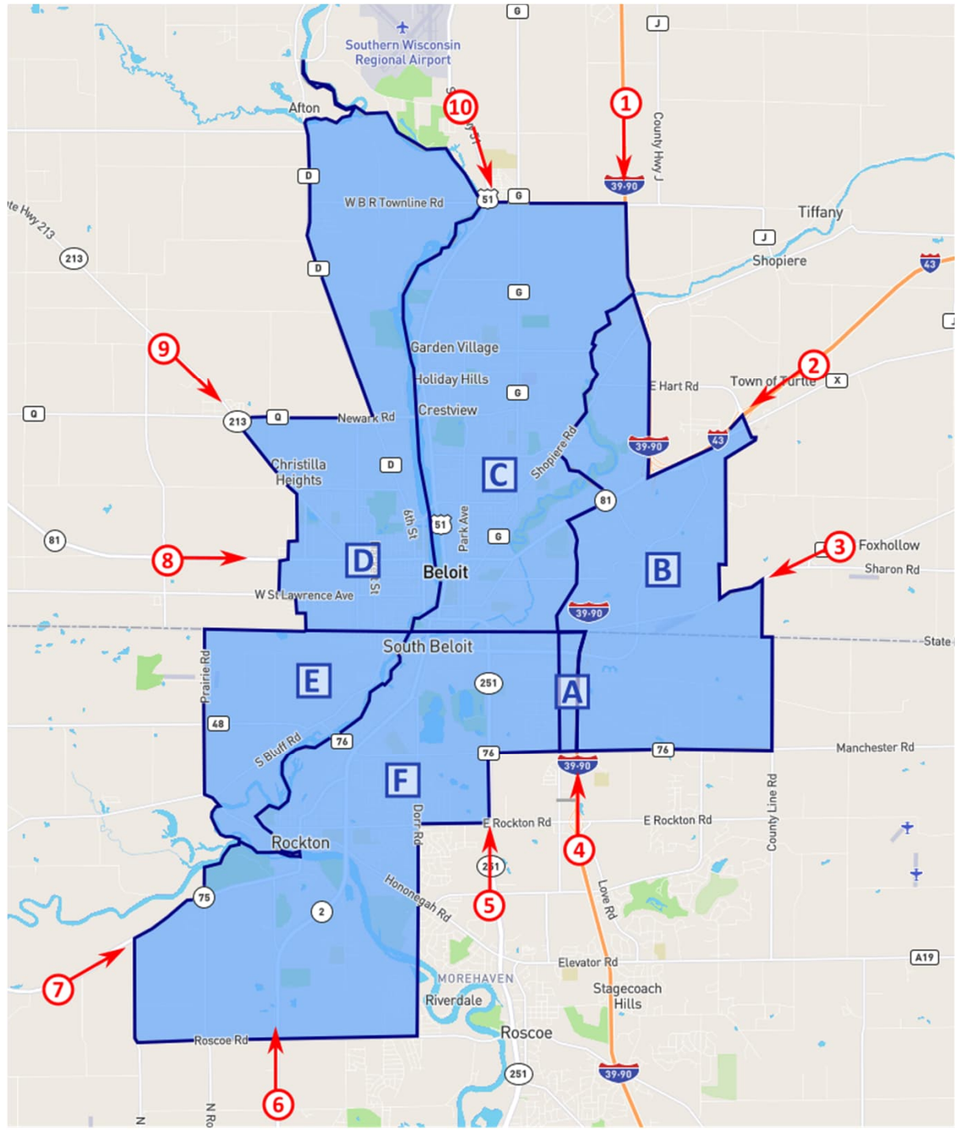
- % E-I daily trips are extracted from StreetLight for Jan-Sep 2022 (All days).
- Trips shown are for all trucks (medium duty [10,000-26,000 lbs] and heavy duty [>26000 lbs]).



Regional Truck Travel Analysis

- External – Internal Truck Trip (Percent of Origin)

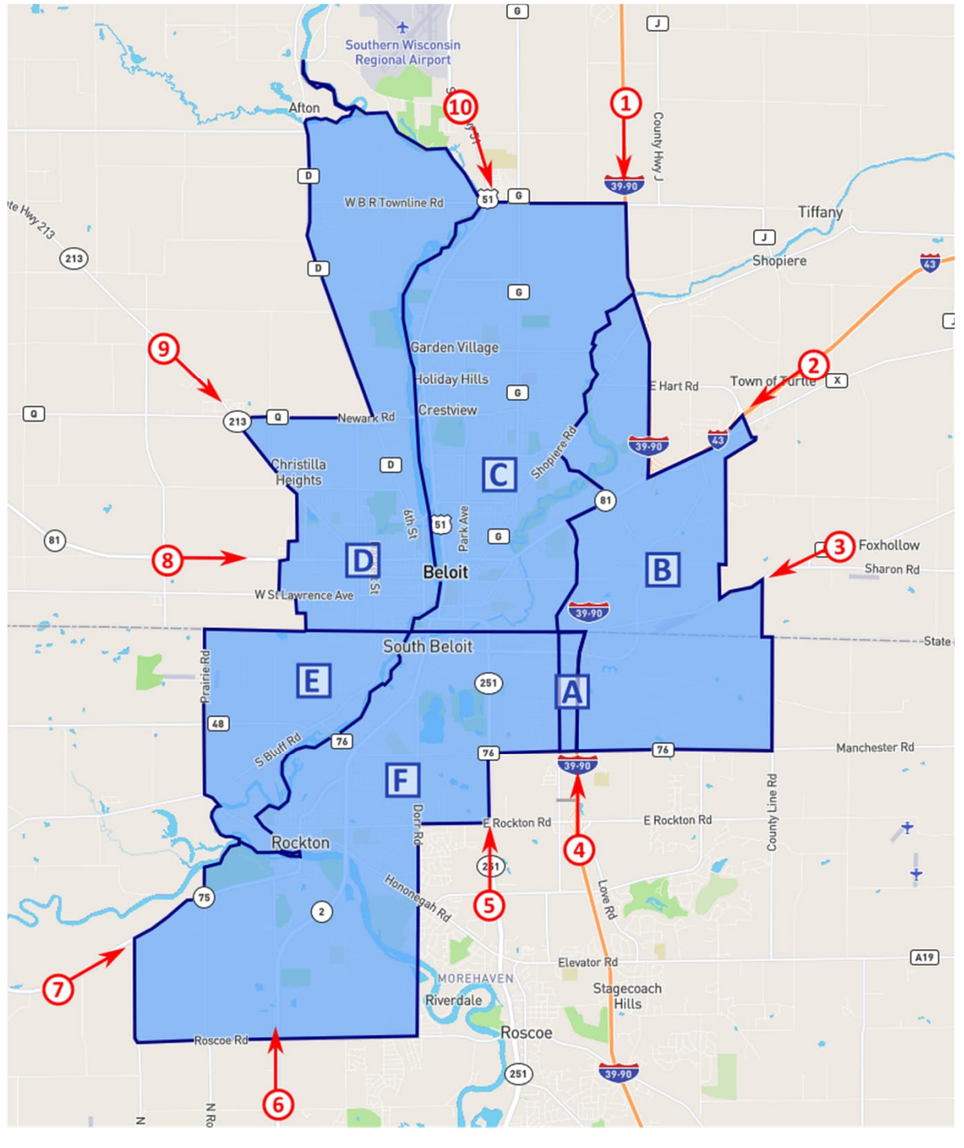
			Screenline Destination						
	ID	Location	A	B	C	D	E	F	Total
Screenline Origin	1	I-39 (North MPA Boundary)	51%	42%	3%	2%	0%	2%	100%
	2	I-43	38%	25%	8%	25%	0%	4%	100%
	3	WI 67	47%	38%	5%	3%	0%	7%	100%
	4	I-39 (South MPA Boundary)	32%	57%	3%	6%	0%	2%	100%
	5	IL 251 (2nd Street)	21%	16%	20%	11%	0%	32%	100%
	6	IL 2 (Main Street)	8%	11%	9%	5%	3%	63%	100%
	7	IL 75 (Freeport Road)	37%	12%	5%	3%	0%	43%	100%
	8	WI 81 (Liberty Avenue)	14%	47%	19%	15%	0%	5%	100%
	9	WI 213 (Madison Road)	4%	6%	2%	85%	1%	2%	100%
	10	US 51 (North MPA Boundary)	0%	1%	8%	88%	0%	3%	100%



Regional Truck Travel Analysis

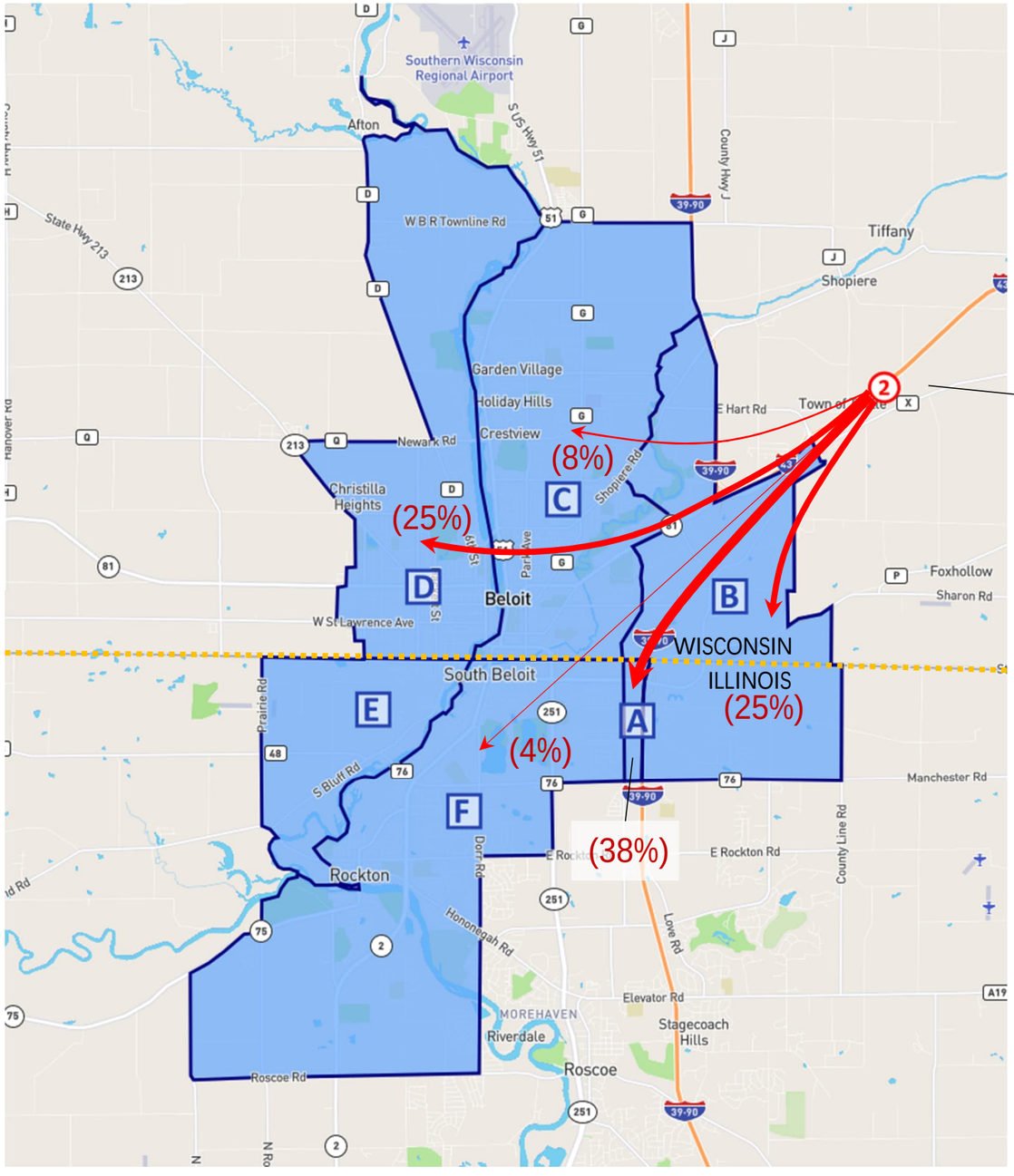
- External – Internal Truck Trip (Percent of Destination)

			Screenline Destination					
	ID	Location	A	B	C	D	E	F
Screenline Origin	1	I-39 (North MPA Boundary)	45%	30%	23%	6%	16%	22%
	2	I-43	9%	5%	17%	25%	0%	10%
	3	WI 67	0%	0%	0%	0%	0%	1%
	4	I-39 (South MPA Boundary)	43%	62%	36%	37%	0%	28%
	5	IL 251 (2nd Street)	1%	1%	10%	2%	0%	22%
	6	IL 2 (Main Street)	0%	0%	1%	0%	63%	8%
	7	IL 75 (Freeport Road)	0%	0%	0%	0%	0%	3%
	8	WI 81 (Liberty Avenue)	1%	2%	9%	3%	0%	3%
	9	WI 213 (Madison Road)	0%	0%	0%	7%	21%	0%
	10	US 51 (North MPA Boundary)	0%	0%	4%	19%	0%	2%
		Total	100%	100%	100%	100%	100%	100%



Regional Truck Travel Analysis

- External – Internal Trips
  % of origin from Zone 2



Legend

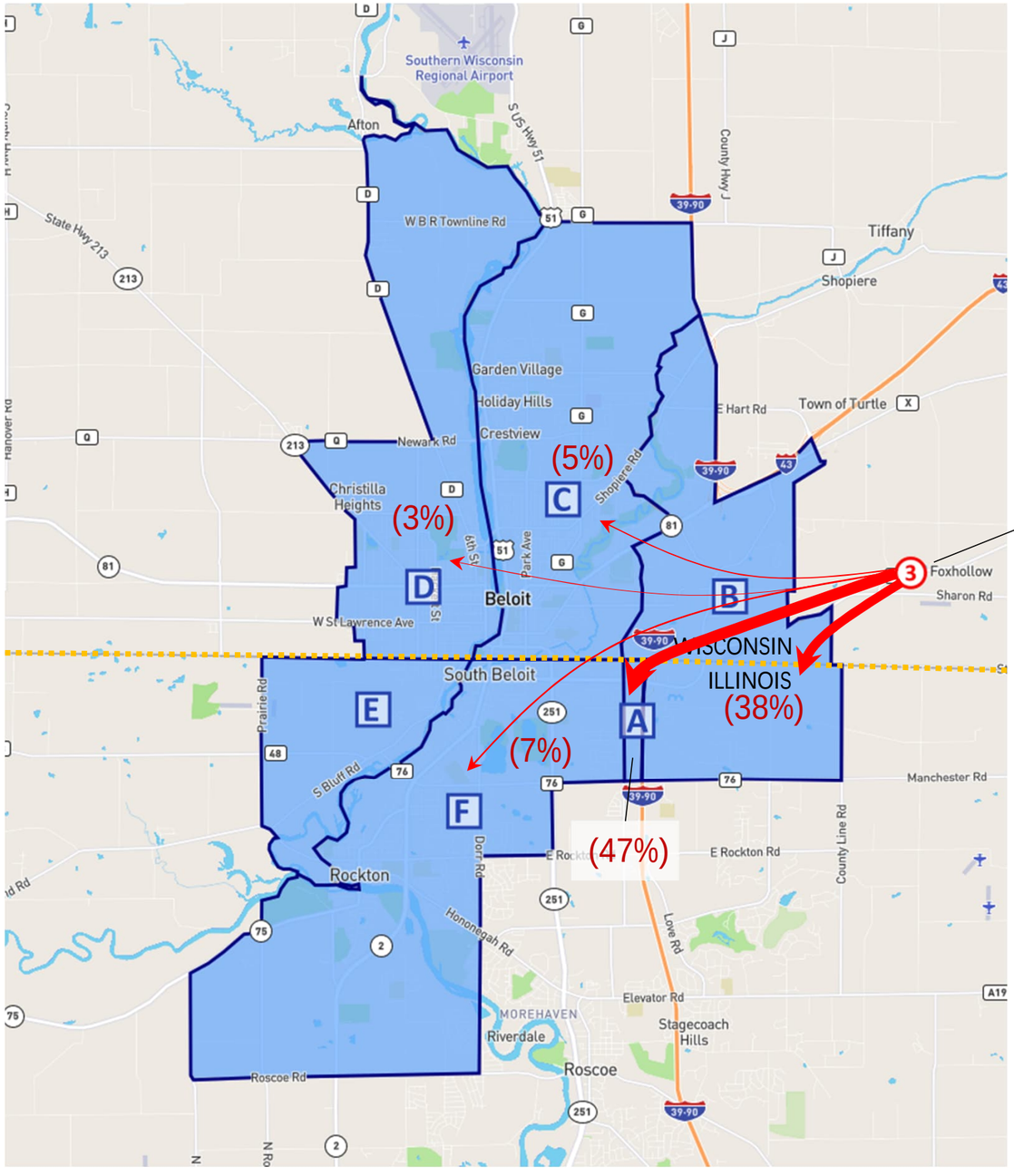
E-I HCV Trips (% of origin)

Regional Truck Travel Analysis

- External – Internal Trips
  % of origin from Zone 3

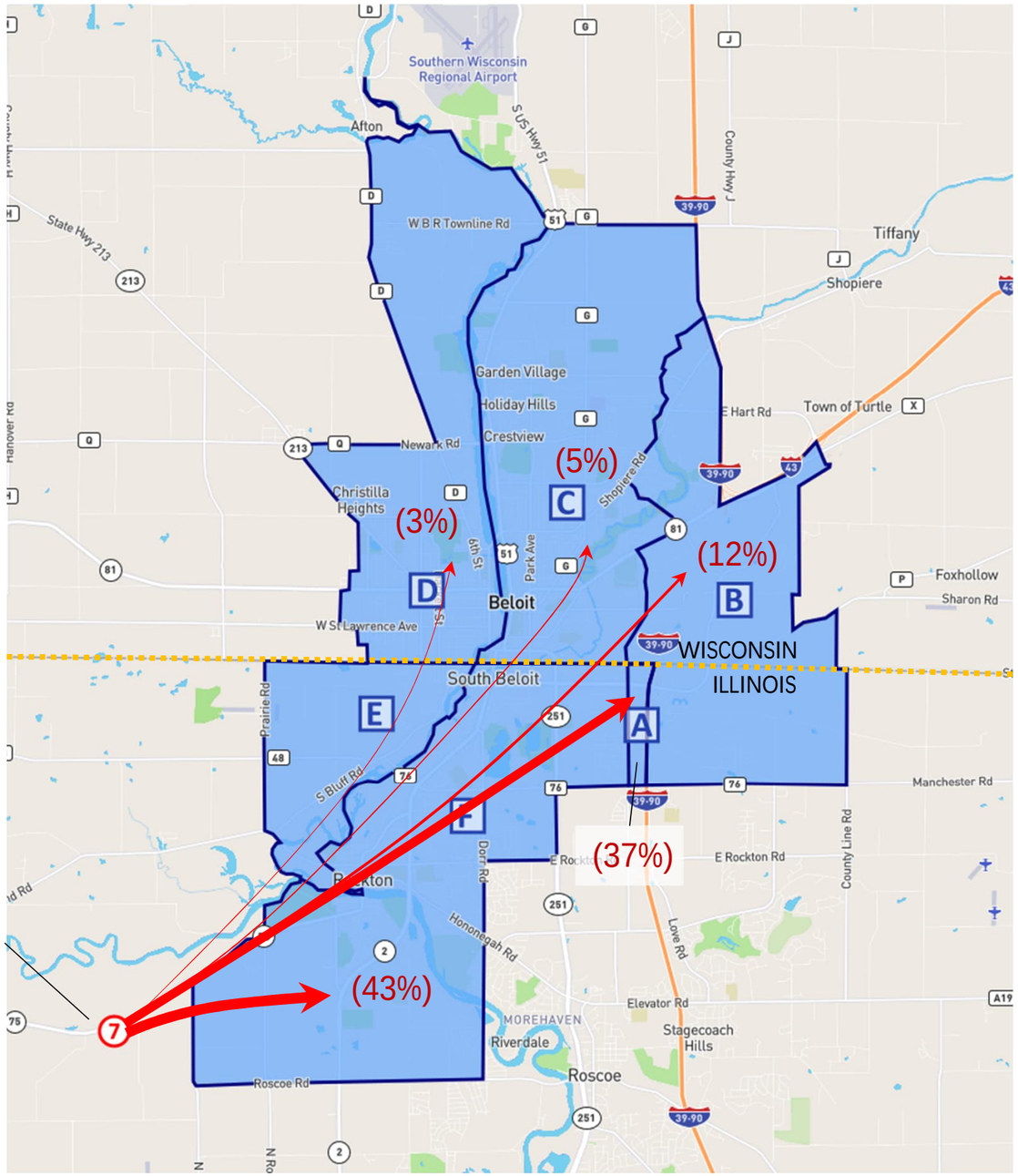
Legend

E-I HCV Trips (% of origin)



Regional Truck Travel Analysis

- External – Internal Trips
  % of origin from Zone 7



Legend

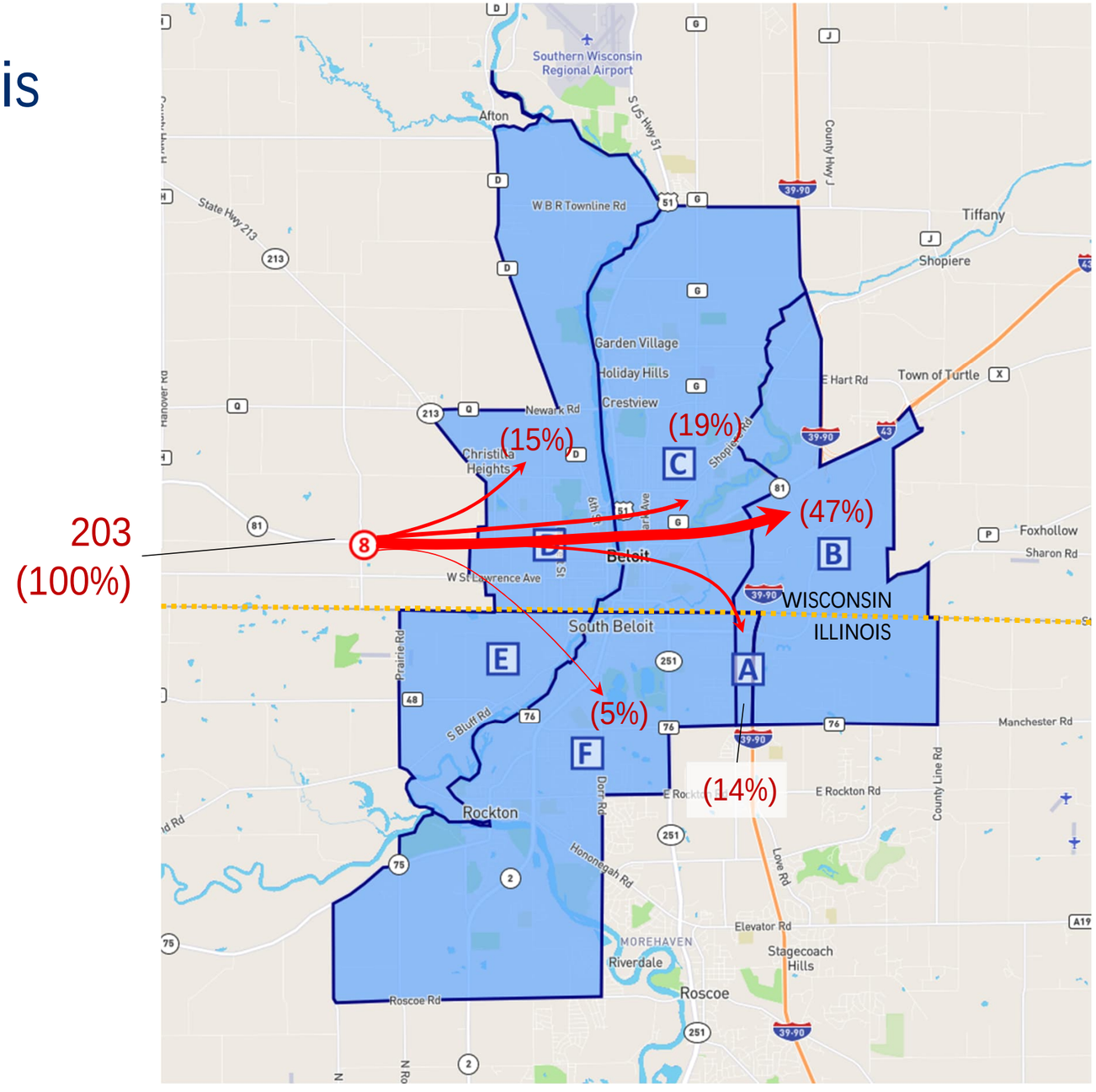
E-I HCV Trips (% of origin)

Regional Truck Travel Analysis

- External – Internal Trips
  % of origin from Zone 8

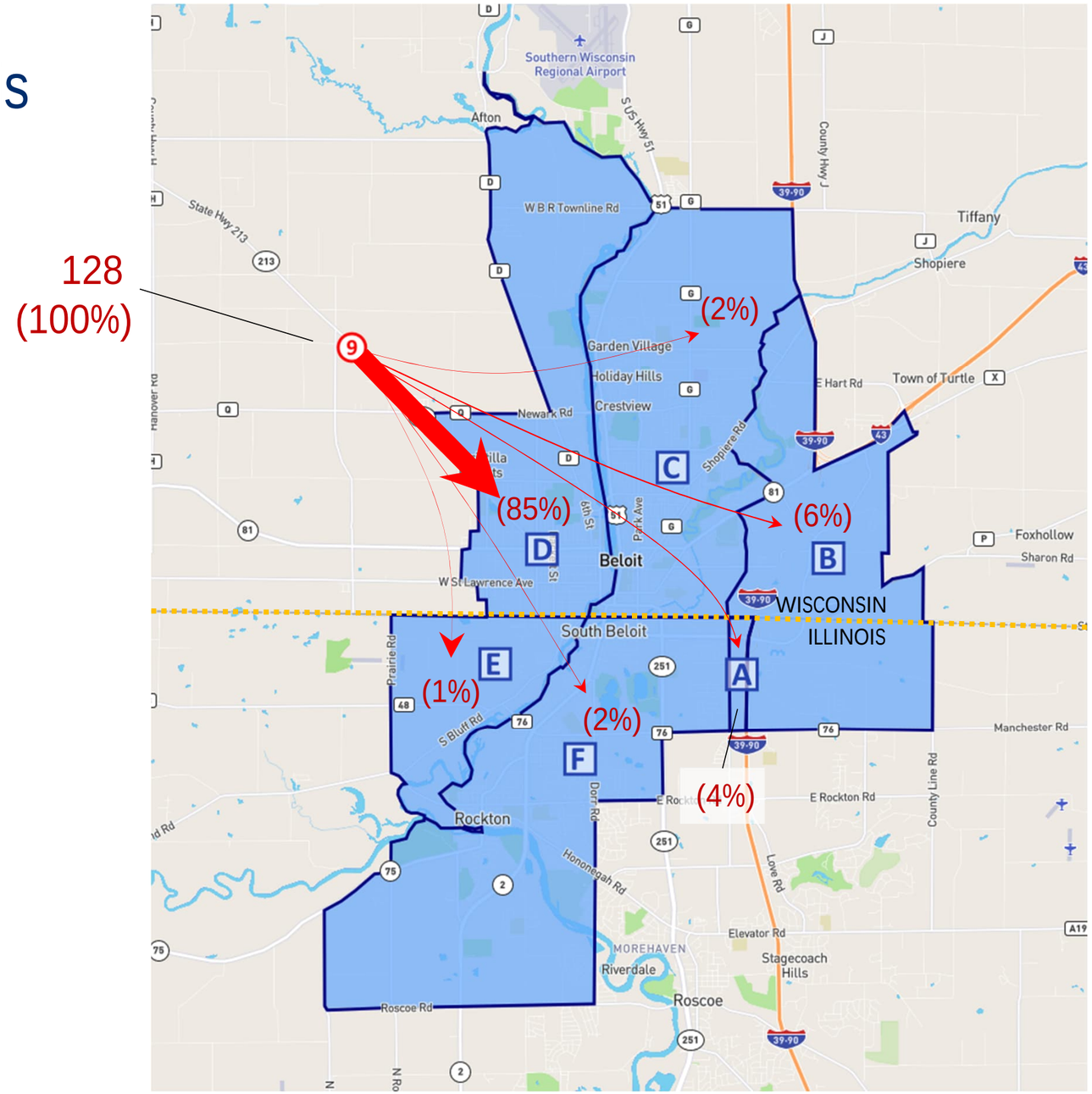
Legend

E-I HCV Trips (% of origin)



Regional Truck Travel Analysis

- External – Internal Trips
  % of origin from Zone 9



Legend

E-I HCV Trips (% of origin)

Regional Truck Travel Analysis

- Internal – External Trips

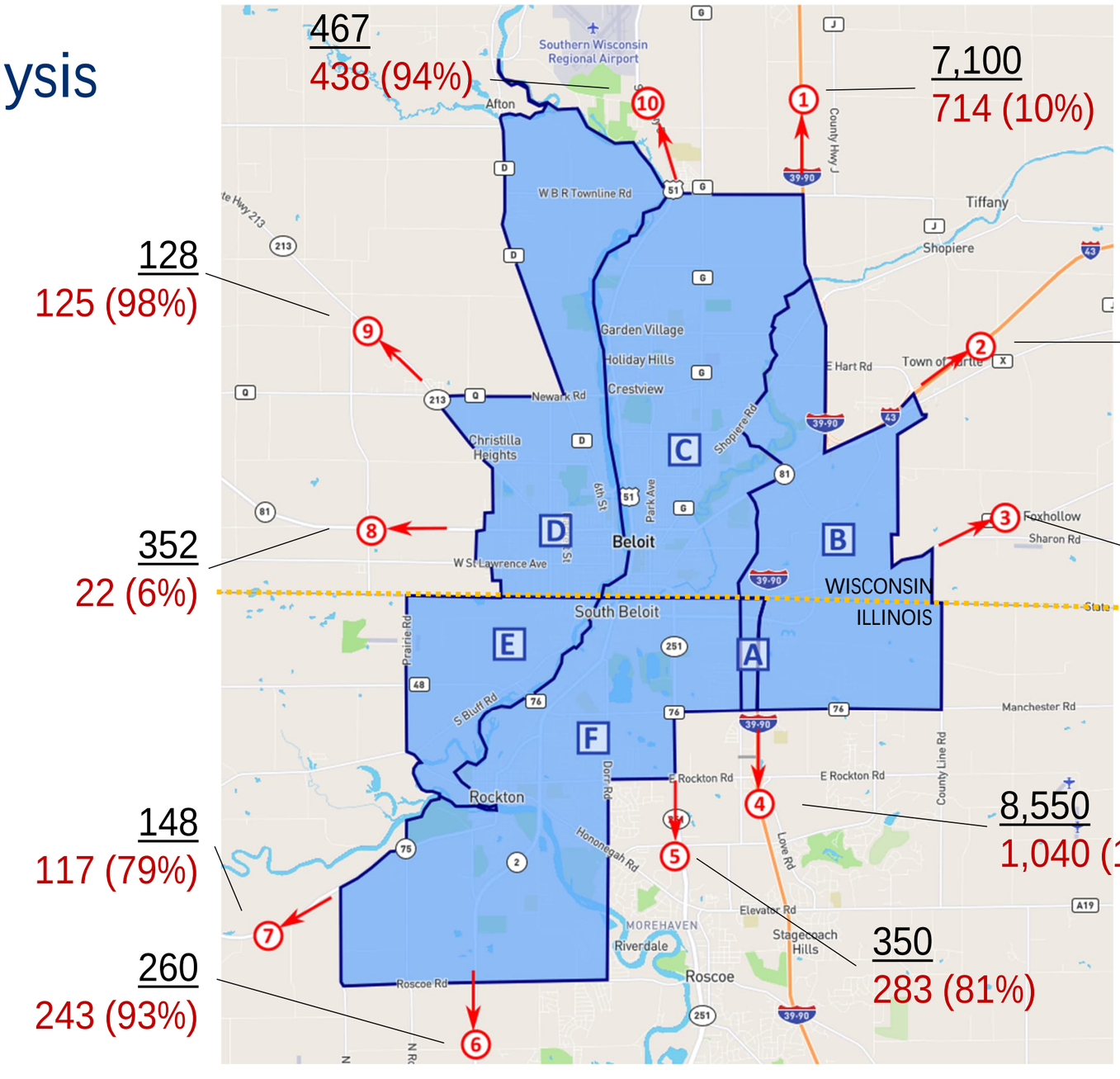
Legend

HCV Volume

I-E Trips (I-E%)

Notes:

- % I-E daily trips are extracted from StreetLight for Jan-Sep 2022 (All days).
- Trips shown are for all trucks (medium duty [10,000-26,000 lbs] and heavy duty [>26000 lbs]).

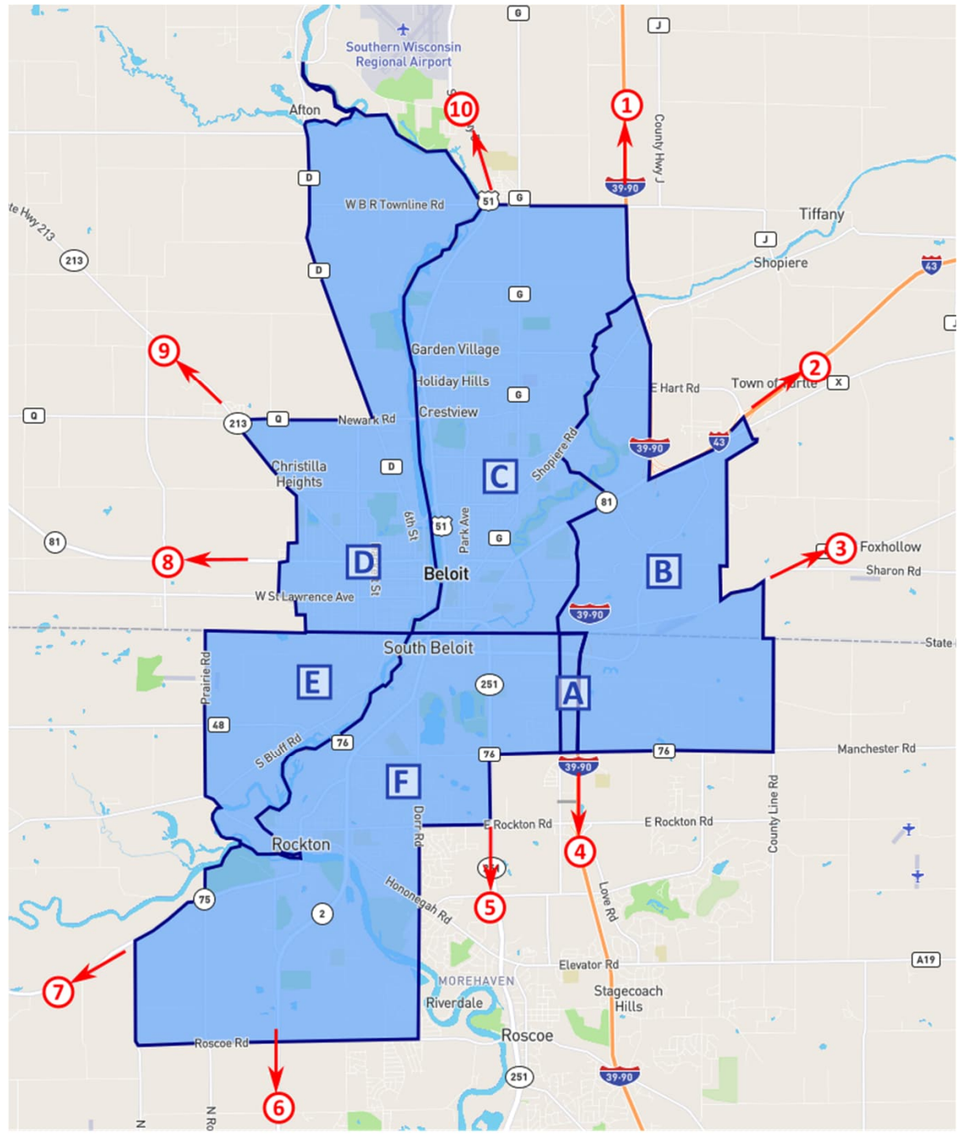


Regional Truck Travel Analysis

- Internal – External Truck Trip (Percent of Origin)

Screenline Destination

Screenline Origin ID	1 I-39 (North MPA Boundary)	2 I-43	3 WI 67	4 I-39 (South MPA Boundary)	5 IL 251 (2nd Street)	6 IL 2 (Main Street)	7 IL 75 (Freeport Road)	8 WI 81 (Liberty Avenue)	9 WI 213 (Madison Road)	10 US 51 (North MPA Boundary)	Total
A	25%	6%	0%	66%	1%	0%	0%	1%	0%	0%	100%
B	32%	11%	0%	53%	1%	0%	0%	3%	0%	1%	100%
C	10%	19%	0%	50%	9%	1%	0%	4%	1%	6%	100%
D	1%	30%	0%	29%	1%	0%	0%	1%	8%	29%	100%
E	0%	15%	0%	40%	15%	15%	0%	0%	0%	15%	100%
F	9%	14%	0%	37%	30%	4%	2%	3%	0%	2%	100%

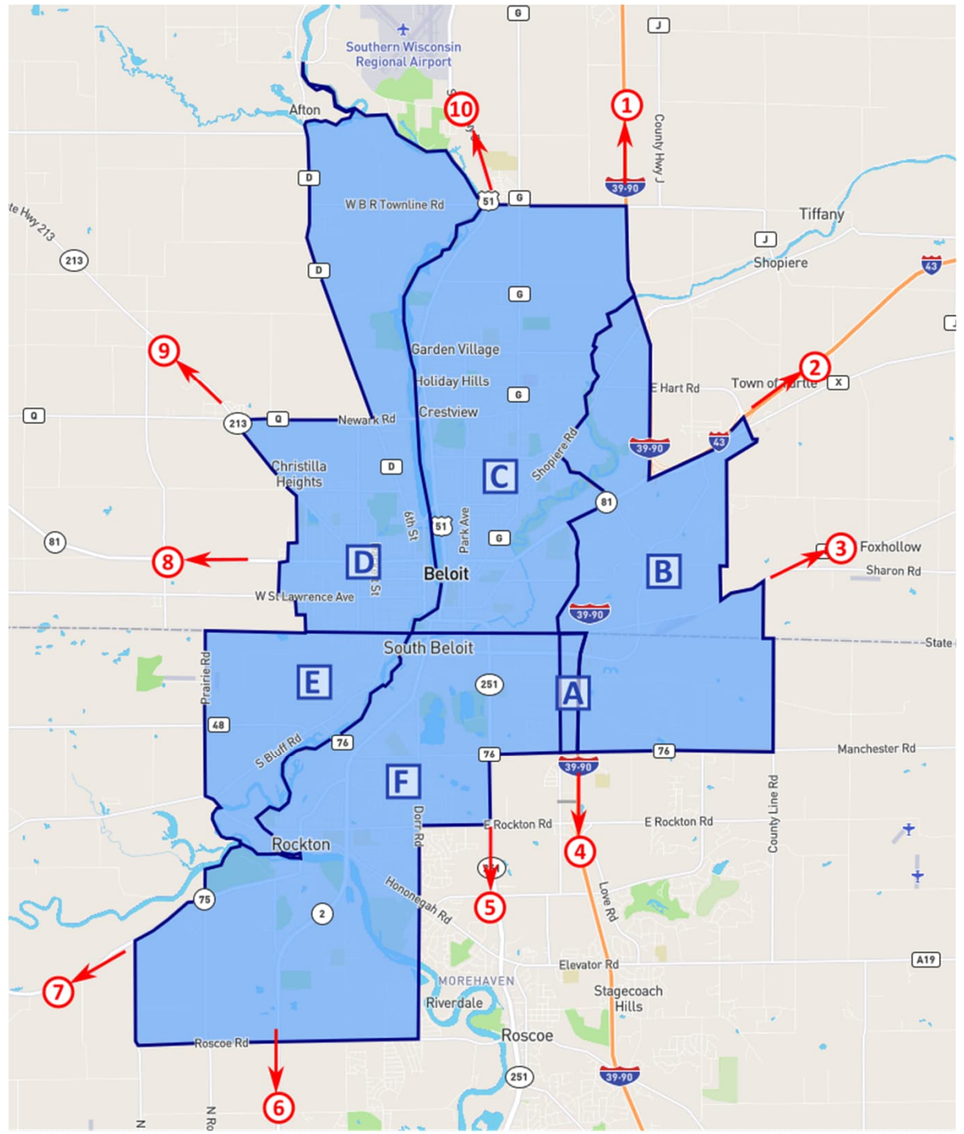


Regional Truck Travel Analysis

- Internal – External Truck Trip (Percent of Destination)

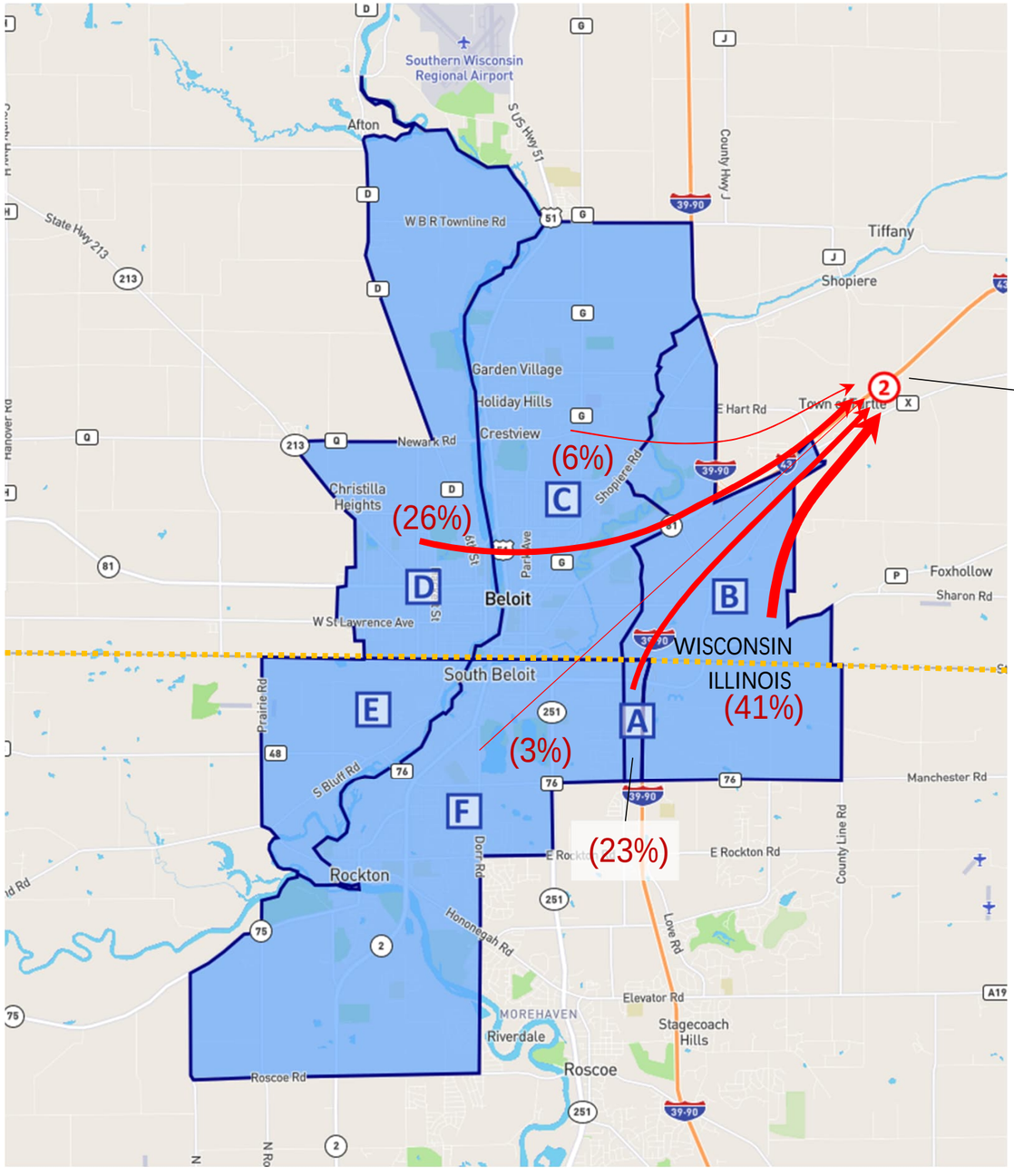
Screenline Destination

Screenline Origin	Location	I-39 (North MPA Boundary)	I-43	WI 67	I-39 (South MPA Boundary)	IL 251 (2nd Street)	IL 2 (Main Street)	IL 75 (Freeport Road)	WI 81 (Liberty Avenue)	WI 213 (Madison Road)	US 51 (North MPA Boundary)
	ID	1	2	3	4	5	6	7	8	9	10
	A	43%	23%	69%	50%	26%	23%	58%	25%	6%	2%
	B	54%	41%	22%	40%	16%	12%	13%	59%	3%	6%
	C	1%	6%	2%	3%	14%	8%	2%	8%	3%	6%
	D	1%	26%	5%	5%	5%	9%	2%	5%	88%	84%
	E	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%
	F	1%	3%	2%	2%	39%	47%	24%	4%	0%	1%
	Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%



Regional Truck Travel Analysis

- Internal – External Trips
  % of destination to Zone 2



Legend

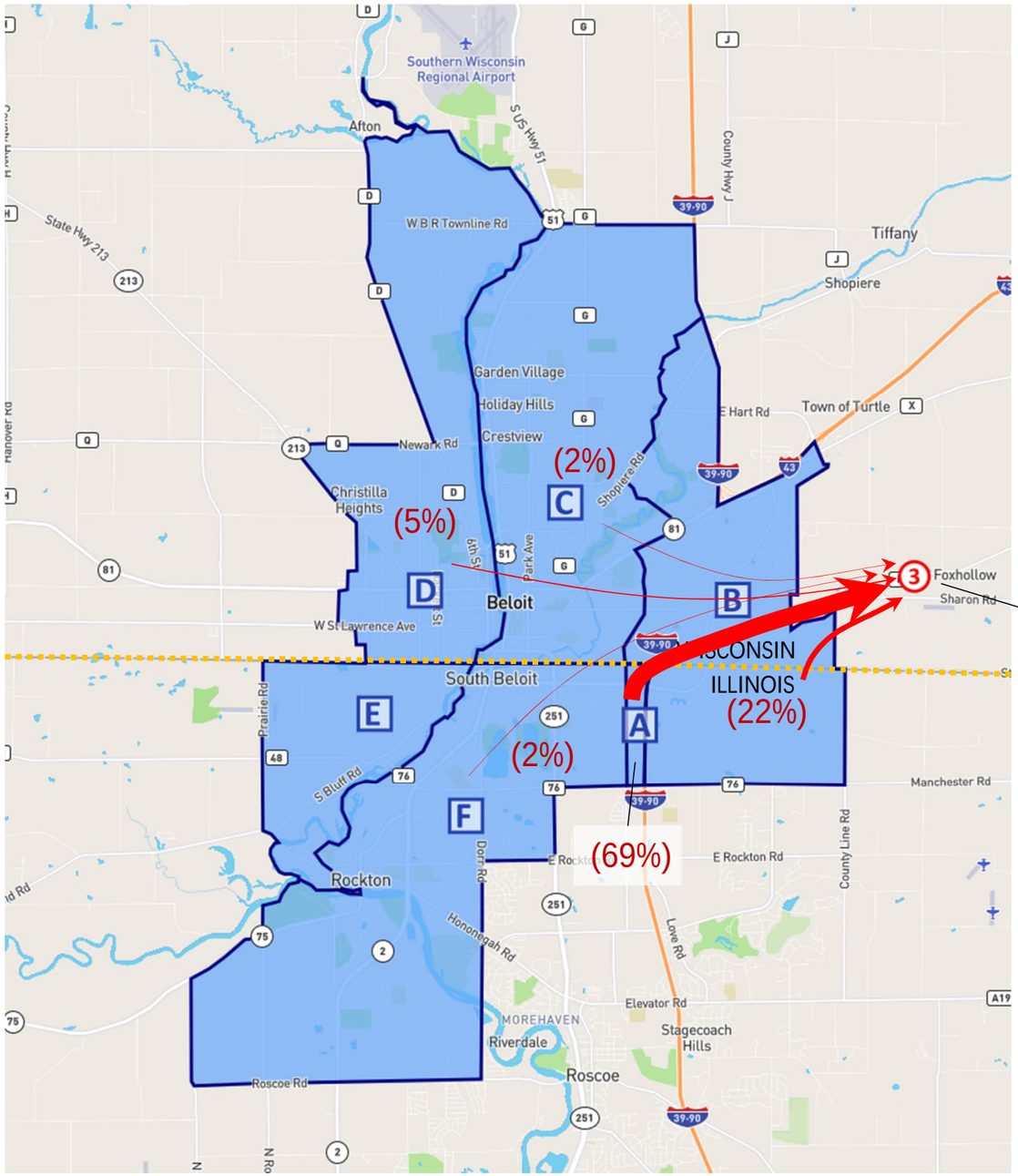
I-E HCV Trips (% of destination)

Regional Truck Travel Analysis

- Internal – External Trips
  % of destination to Zone 3

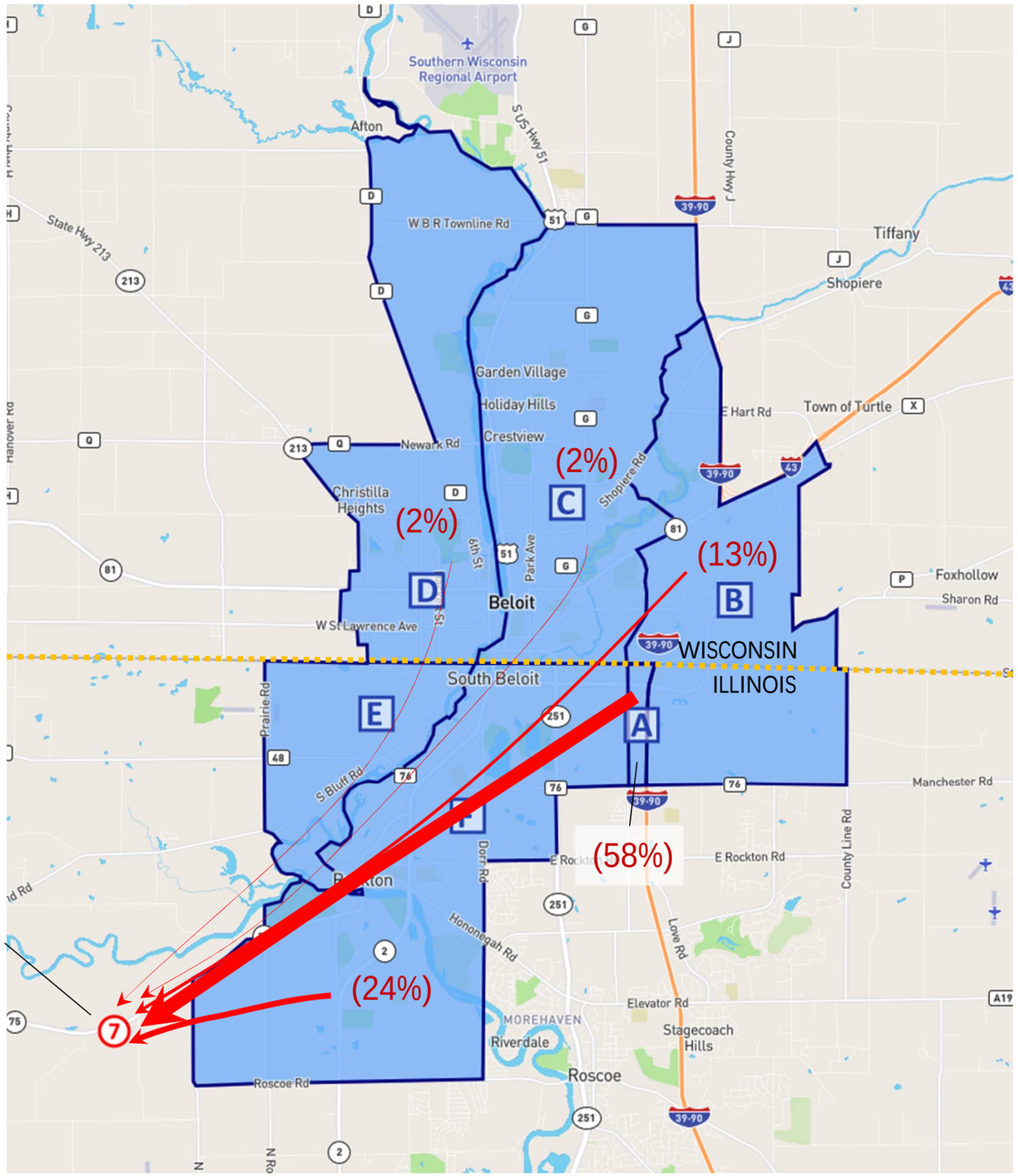
Legend

I-E HCV Trips (% of destination)



Regional Truck Travel Analysis

- Internal – External Trips
  % of destination to Zone 7



Legend

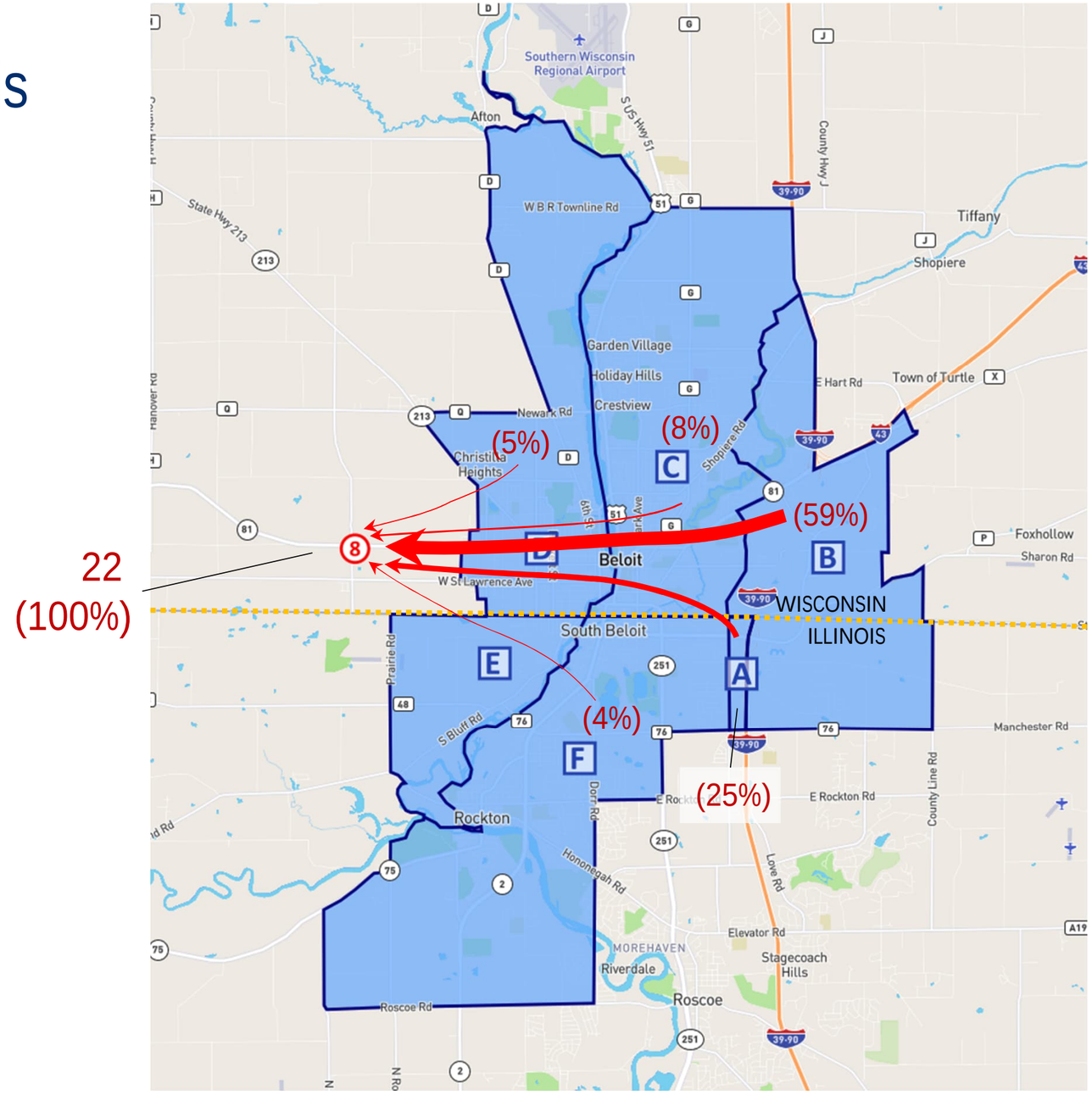
I-E HCV Trips (% of destination)

Regional Truck Travel Analysis

- Internal – External Trips
  % of destination to Zone 8

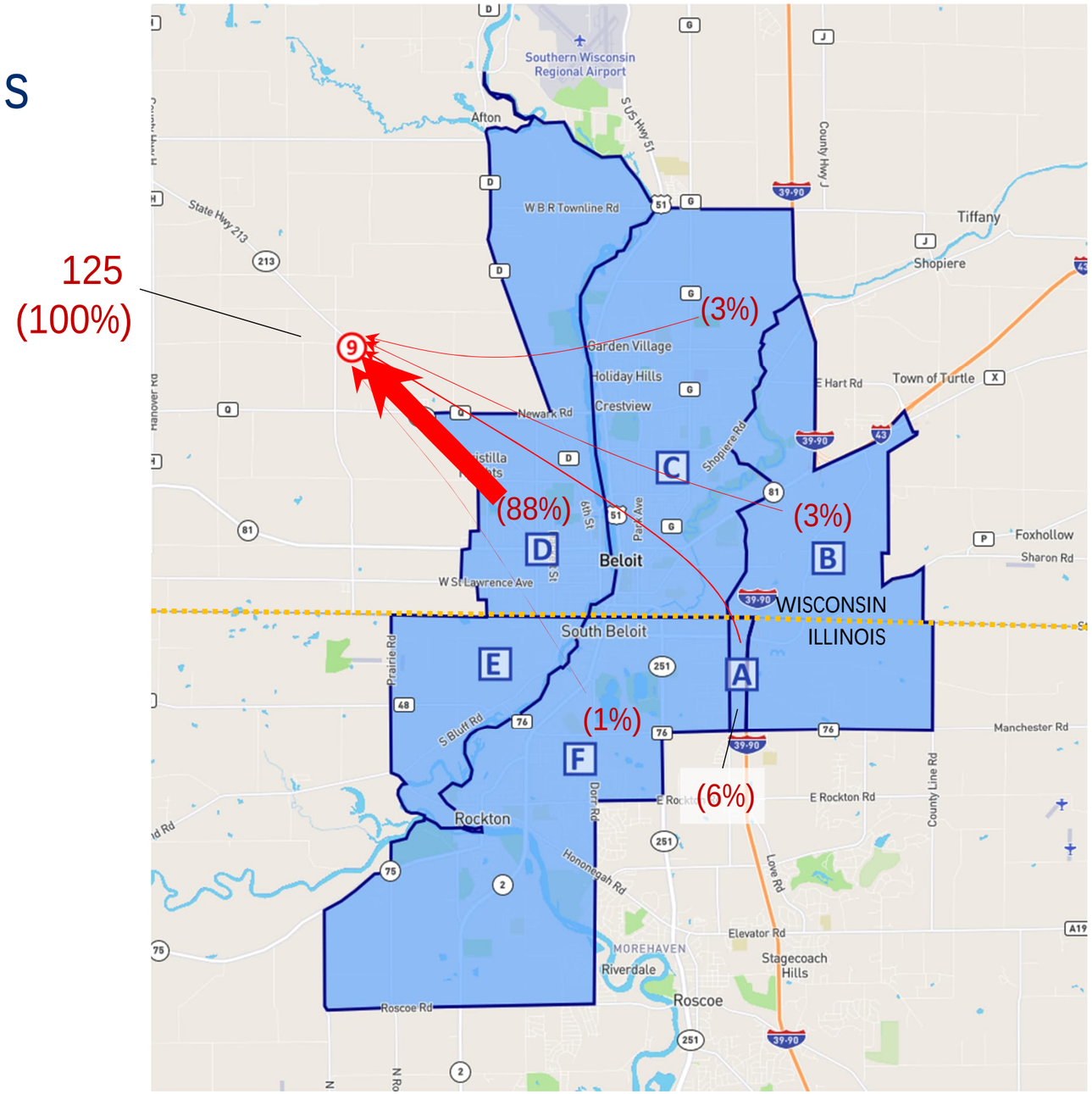
<u>Legend</u>

I-E HCV Trips (% of destination)



Regional Truck Travel Analysis

- Internal – External Trips
  % of destination to Zone 9

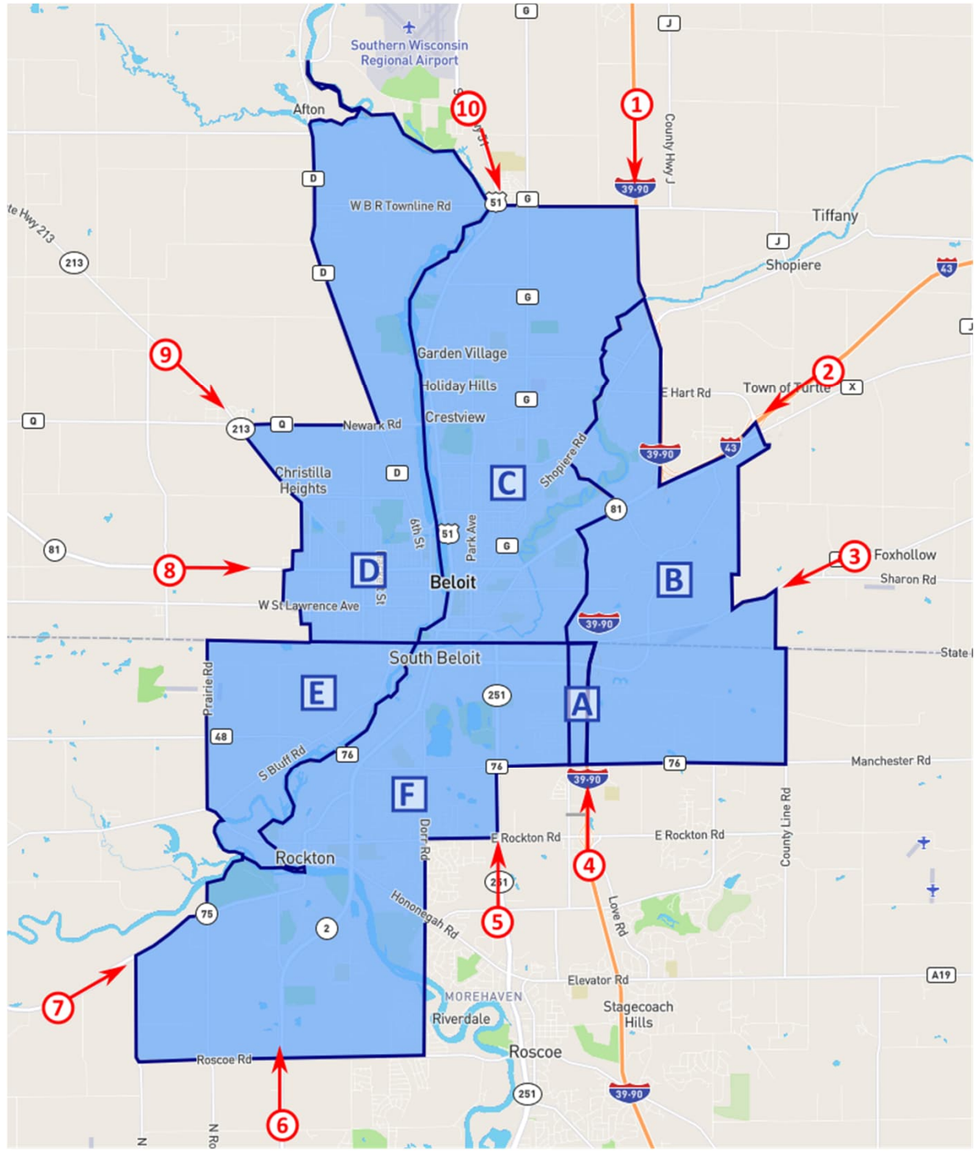


Legend

I-E HCV Trips (% of destination)

Regional Truck Travel Analysis Summary

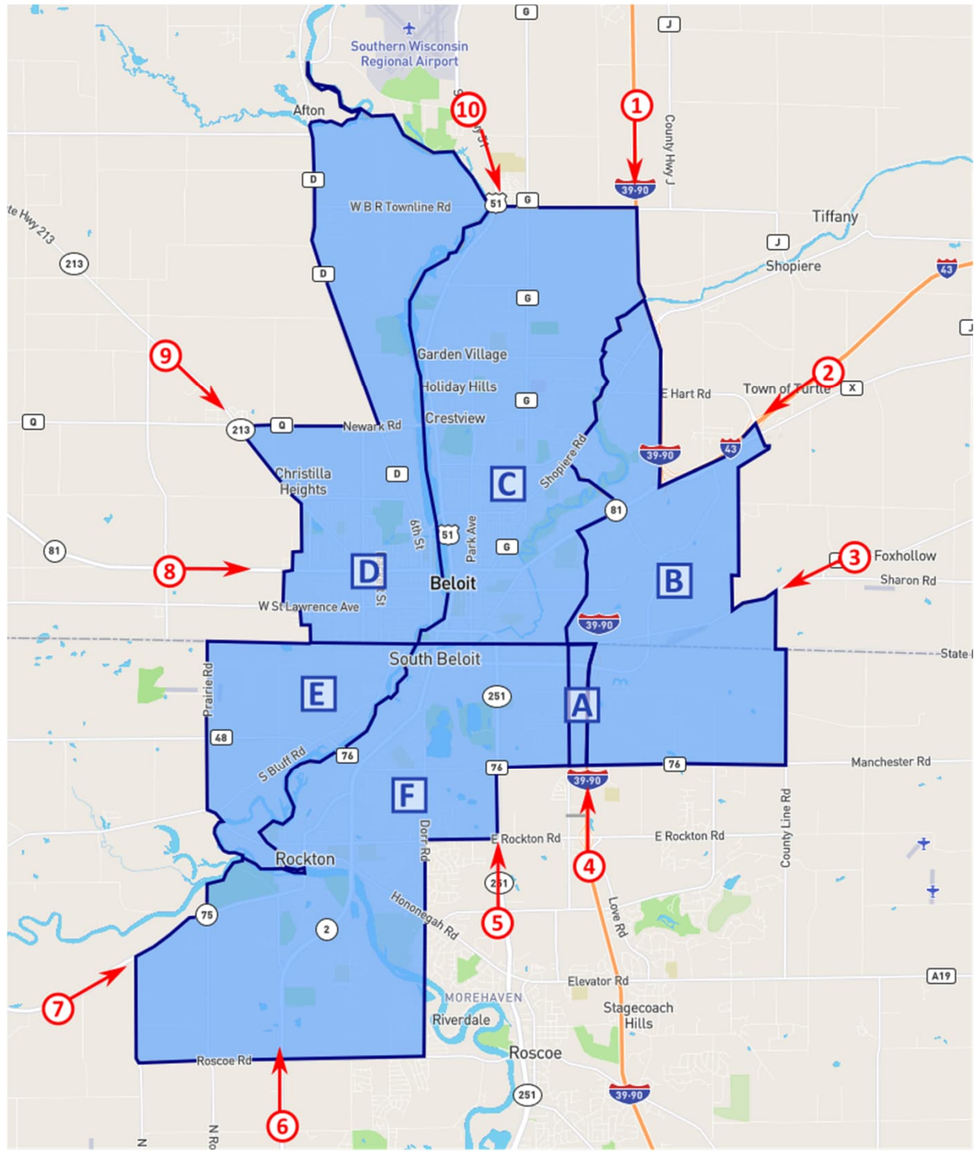
- Approximately 15,500 trucks per day pass through the SLATS MPA
  - Most interstate truck trips are pass-through trips (remain on the Interstate)
  - The highest pass-through truck volumes occur on I-39/90, traveling north-south between zones 1 and 4
- In contrast, most truck trips using a US or State Highway begin or end in the SLATS MPA (non-pass-through trips)
- Approximately 3,800 trucks per day are destined to the SLATS MPA (zones A-F)
  - 63% travel on the Interstate
  - 37% travel on the US and State Highways



Regional Truck Travel Analysis Summary

East-West Travel in the Region

- About 18% of trucks traveling on I-43 (from zone 2) continue west on WI 81 (to zone 8)
- Roughly 20 trucks per day travel east-west across the SLATS MPA via state highways (zones 3, 7, 8, and 9)
- Trucks traveling to or from the SLATS MPA typically use the closest access point to their destination, rather than crossing the entire region (for example, trucks entering from Zone 9 are generally destined for Zone D).
- Most trucks traveling to the SLATS MPA are destined for areas along the I-39/90 corridor (zones A and B)



X Access Point

SLATS MPA

Regional Truck Travel Analysis Summary

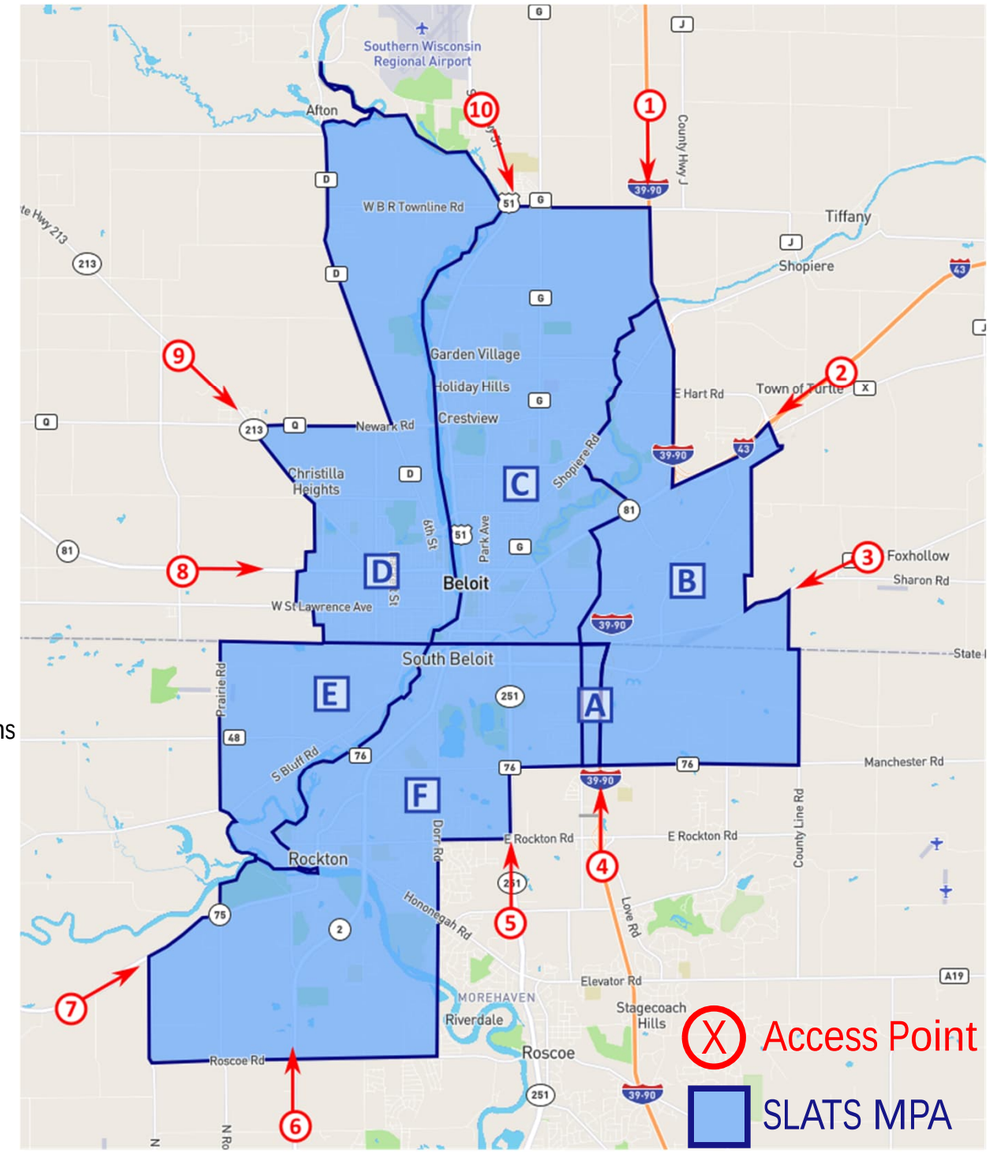
External-External Trips that do not stop in the SLATS MPA	Daily Truck Trips 15,468
Interstate only	14,662
Interstate & US/State Highway	
US/State Highway only	

Route	Daily Truck Trips
1 -> 4	6,481
1 -> 2	26
4 -> 1	6,251
4 -> 2	902
2 -> 1	47
2 -> 4	889

*Trips might not add up due to u-turns

External trips begin from:	
US Highway	419
State Highway	994

Origin	Daily Truck Trips
1	522
2	587
4	1,276



Regional Truck Travel Analysis Summary

	Daily Truck Trips
Internal-External Trips start within SLATS MPA but end outside the MPA	3,798
Zone A	1,628
Zone B	2,059
Zone C	53
Zone D	20
Zone E	0
Zone F	36

