

OLYMPIAN DRIVE EXTENSION

Traffic Projections (Year 2035)

Champaign County Board

09-07-10

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CHAMPAIGN COUNTY
REGIONAL PLANNING
COMMISSION

Champaign Urbana Travel Demand Model

- In-house travel demand model developed and maintained by CUUATS staff.
- CUUATS travel demand model has been recognized as a state of the art model by FHWA and IDOT.
- Base year for the travel demand model is 2005.
- Horizon year for the travel demand model is 2035.

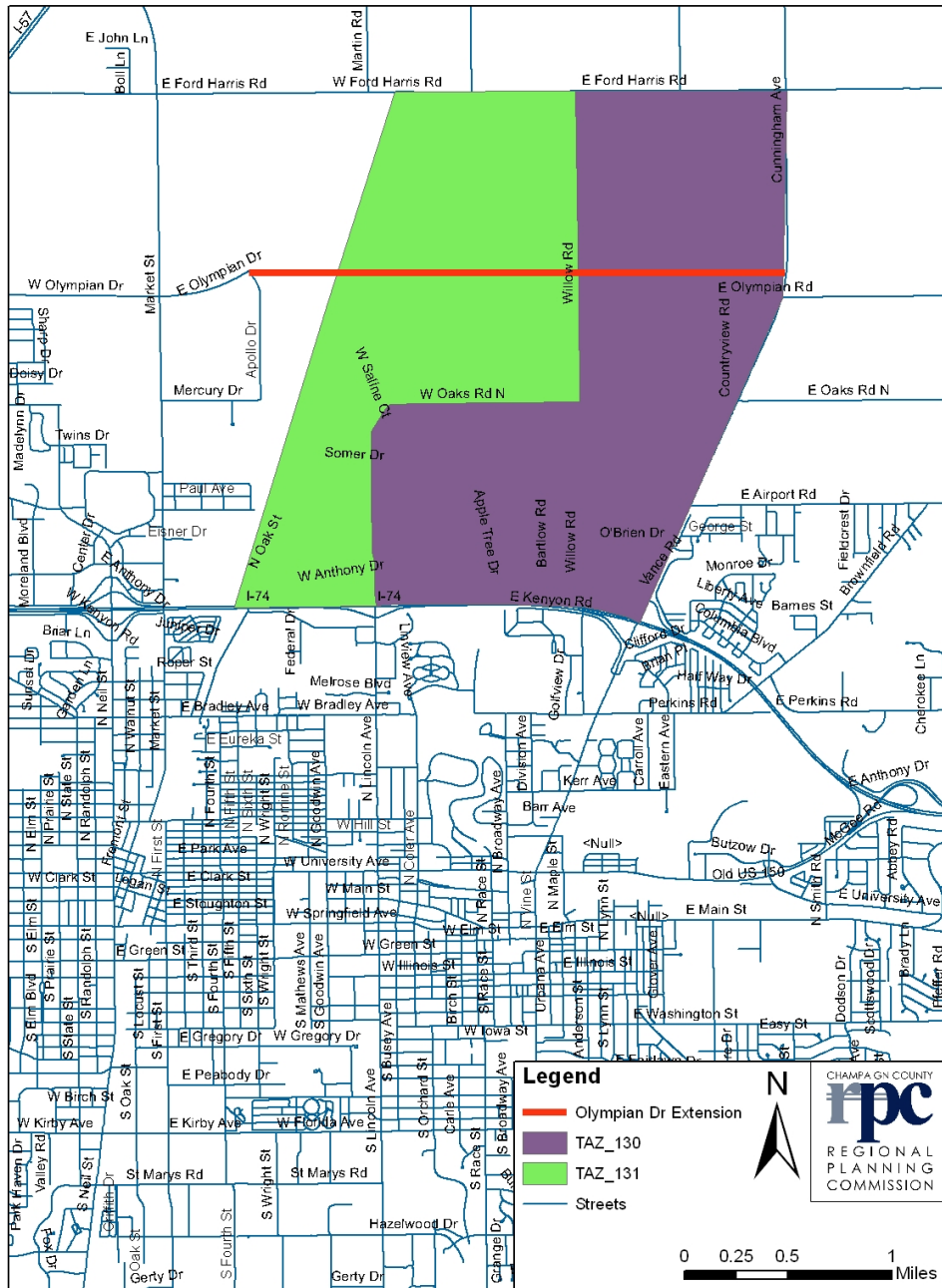
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Champaign Urbana Travel Demand Model

- The Champaign-Urbana urban area is divided into Traffic Analysis Zones (TAZs).
- Each TAZ uses input data for the travel demand model:
 - Roadway network
 - Population
 - Employment
- The travel demand model final output is:
 - Average Daily Trips (ADT)

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Olympian Drive Extension and TAZs



Olympian Drive TAZs

Population and Employment Projections

TAZ	Total Population		Increase in population	Total Employment		Increase in employment
	Base (2005)	Horizon (2035)		Base (2005)	Horizon (2035)	
130	818	818	0%	1,526	3,146	106%
131	56	56	0%	534	634	19%
Total	874	874	0%	2,060	3,780	83%

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Projected Traffic on I-74 (Year 2035)

Roadway	Segment		AADT		
	From	To	With Olympian Extension	No Olympian Extension	Difference
Interstate 74	Interstate 57	Prospect Avenue	67,050	69,600	2,550
	Prospect Avenue	Neil Street	78,400	82,200	3,800
	Neil Street	Lincoln Avenue	88,900	94,550	5,650
	Lincoln Avenue	US 45	73,900	78,000	4,100

Projected Traffic on Ford Harris Rd. (Year 2035)

Roadway	Segment		AADT		
	From	To	With Olympian Extension	No Olympian Extension	Difference
Ford Harris Road	Prospect Avenue	Market Street	2,200	5,600	3,400
	Market Street	Lincoln Avenue	800	5,100	4,300
	Lincoln Avenue	US 45	650	5,000	4,350

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Projected Traffic on US 45 (Year 2035)

Roadway	Segment		AADT		
	From	To	With Olympian Extension	No Olympian Extension	Difference
US 45	Interstate 74	Airport Road	23,600	27,000	3,400

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Projected Traffic on Olympian Drive (Year 2035)

Roadway	Segment		AADT		
	From	To	With Olympian Extension	No Olympian Extension	Difference
Olympian Drive	Interstate 57	Prospect Avenue	16,350	12,150	4,200
	Prospect Avenue	Market Street	12,400	3,000	9,400
	Market Street	Lincoln Avenue	12,650	N/A	N/A
	Lincoln Avenue	US 45	11,000	N/A	N/A

Existing Roadways with similar ADT volumes

Windsor Road:	ADT
Between Philo Road and Race Street	10,500
Between Mattis Avenue and Galen Drive	12,500
US 45 (North I-74)	10,900
IL130:	
Between Washington Ave. and University Ave.	12,300
Philo Road:	
Between Mumford Drive and Florida Avenue	11,000

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