

APPENDIX I

Evacuation Sensitivity Studies

APPENDIX I: EVACUATION SENSITIVITY STUDIES

A sensitivity study was performed to determine whether changes in the estimated trip generation time have an effect upon the evacuation time estimate for the entire EPZ. The case considered was Scenario 1, Region 3; a summer, midweek, midday, good weather evacuation for the entire EPZ. Table I-1 presents the results of this study.

Table I-1. Evacuation Time Estimates for Trip Generation Sensitivity Study			
Trip Generation Period	Evacuation Region		
	2-Mile Region (R01)	5-Mile Region (R02)	Entire EPZ (R03)
3 Hours	3:00	3:05	3:10
4 Hours (Base)	4:00	4:05	4:10
5 Hours	5:00	5:05	5:10

As the mobilization time is reduced, the change in traffic loading does not cause congestion. Hence the ETE reflects the duration of trip generation.

The results confirm the importance of accurately estimating the trip generation times. The evacuation time estimates closely mirror the values for the time the last evacuation trip is generated. The reason for this is the lack of significant traffic congestion during an evacuation. The results indicate that programs to educate the public and encourage them toward faster responses for a radiological emergency can considerably enhance county emergency planning programs.

A sensitivity study was conducted to determine the effects on Evacuation Time Estimates (ETE) of changes in the percentage of people who decide to relocate from the Shadow Region. The movement of people in the shadow region has a potential to impede vehicles evacuating from an Evacuation Region within the EPZ.

Table I-2 presents the evacuation time estimates for each of these cases. The ETE for all regions remain unchanged as the percentage of people who decide to relocate from areas within the shadow region increase from 15% to 60%. The population density within the shadow region is not sufficient to delay the departure of evacuees from the EPZ. There are a total of 41,439 people (23,026 vehicles) living in the Shadow Region.

Table I-2. Evacuation Time Estimates for Shadow Sensitivity Study					
Shadow Data			Evacuation Region		
Percent Shadow Evacuation	Number of Shadow Residents	Number of Shadow Resident Vehicles	2-Mile Region (R01)	5-Mile Region (R02)	Entire EPZ (R03)
15	6,216	3,454	4:00	4:05	4:10
30 (Base)	12,432	6,908	4:00	4:05	4:10
60	24,864	13,816	4:00	4:05	4:10

APPENDIX J

Evacuation Time Estimates for All Evacuation Regions and Scenarios
And
Evacuation Time Graphs for Region R03, for all Scenarios

APPENDIX J: EVACUATION TIME ESTIMATES FOR
ALL EVACUATION REGIONS AND SCENARIOS
AND
EVACUATION TIME GRAPHS FOR REGION R3, FOR ALL SCENARIOS

This appendix presents the ETE Results for all 21 Regions and all 12 Scenarios (Tables J-1A through J-1D).

Plots of Evacuating Population vs. Elapsed Time leaving the 2-mile and 5-mile circular areas around VCSNS and the entire EPZ for Region R03, for all 12 scenarios are presented. Each plot has points indicating the evacuation times corresponding to the 50th, 90th, and 95th percentiles of evacuated population.

J.1 Guidance on Using ETE Tables

Tables J-1A through J-1D present the ETE values for all 21 Evacuation Regions and all 12 Evacuation Scenarios. They are organized as follows:

Table	Contents
J-1A	ETE represents the elapsed time required for 50 percent of the population within a Region, to evacuate from that Region.
J-1B	ETE represents the elapsed time required for 90 percent of the population within a Region, to evacuate from that Region.
J-1C	ETE represents the elapsed time required for 95 percent of the population within a Region, to evacuate from that Region.
J-1D	ETE represents the elapsed time required for 100 percent of the population within a Region, to evacuate from that Region.

The user first determines the percentile of population for which the ETE is sought. The applicable value of ETE within the chosen Table may then be identified using the following procedure:

1. Identify the applicable **Scenario**:
 - The Season
 - Summer (schools not in session)
 - Winter (also Autumn and Spring)
 - The Day of Week

- Midweek (work-day)
 - Weekend, Holiday
- The Time of Day
 - Midday (work and commuting hours)
 - Evening
- Weather Condition
 - Good Weather
 - Rain
 - Ice
- Special Event (if any)
 - New Plant Construction

While these Scenarios are designed, in aggregate, to represent conditions throughout the year, some further clarification is warranted:

- The conditions of a summer evening (either midweek or weekend) and rain are not explicitly identified in Tables J-1A through J-1D. For these conditions, Scenario (4) applies.
- The conditions of a winter evening (either midweek or weekend) and rain are not explicitly identified in Tables J-1A through J-1D. For these conditions, Scenario (10) applies.
- The seasons are defined as follows:
 - Summer implies that public schools are *not* in session.
 - Winter, Spring and Autumn imply that public schools *are* in session.
- Time of Day: Midday implies the time over which most commuters are at work.

2. With the Scenario (and column in the Table) identified, now identify the **Evacuation Region**:

- Determine the projected azimuth direction of the plume (coincident with the wind direction). This direction is expressed in terms of compass orientation: *from* N, NNE, NE, ...
- Determine the distance that the Evacuation Region will extend from the VC Summer Nuclear Station. The applicable distances and their associated candidate Regions are given below:
 - 2 Miles (Region R01)
 - 5 Miles (Regions R02 and R04 through R11)
 - to EPZ Boundary (Regions R03 and R12 through R21)
- Enter Table J-2 and identify the applicable group of candidate Regions based on the wind direction and on the distance that the selected Region extends from VCSNS. Select the Evacuation Region identifier in that row from the first column of the Table.

3. Determine the **ETE** for the **Scenario** identified in Step 1 and the **Region** identified in Step 2, as follows:
 - The columns of Table J-1 are labeled with the **Scenario** numbers. Identify the proper column in the selected Table using the **Scenario** number determined in Step 1.
 - Identify the row in this table that provides **ETE** values for the **Region** identified in Step 2.
 - The unique data cell defined by the column and row so determined contains the desired value of **ETE** expressed in Hours:Minutes.

Example

It is desired to identify the ETE for the following conditions:

- Sunday, August 10th at 4:00 AM.
- It is raining.
- Wind direction is *from* the southwest (SW).
- Wind speed is such that the distance to be evacuated is judged to be 10 miles (to EPZ boundary).
- The desired ETE is that value needed to evacuate 95 percent of the population from within the impacted Region.

Table J-1C is applicable because the 95-percentile population is desired. Proceed as follows:

1. Identify the Scenario as summer, weekend, evening and raining. Entering Table J-1C, it is seen that there is no match for these descriptors. However, the clarification given above assigns this combination of circumstances to Scenario 4.
2. Enter Table J-2 and locate the group entitled “Evacuate 5-Mile Ring and PAZ(s) from 5-mile to EPZ Boundary in the Wind Direction From”. Under “Wind Direction from”, identify the SW (southwest) azimuth and read REGION R13 in the first column of that row.
3. Enter Table J-1C to locate the data cell containing the value of ETE for Scenario 4 and Region R13. This data cell is in column (4) and in the row for Region R13; it contains the ETE value of **2:30**.

Table J-1A. Time To Clear The Indicated Area of 50 Percent of the Affected Population

Scenario: Wind From:	Summer			Summer			Summer			Winter			Winter			Winter			Summer								
	Midweek (1)	Midday Good Weather	Rain	Weekend (2)	Midday Good Weather	Rain	Weekend (3)	Midday Good Weather	Rain	Midweek (4)	Midday Good Weather	Rain	Weekend (5)	Midweek (6)	Midday Good Weather	Rain	Ice	Weekend (7)	Midweek (8)	Weekend (9)	Midday Good Weather	Rain	Midweek (10)	Weekend (11)	Evening Good Weather	Midweek (12)	New Plant Construction
R01 2-mile ring	0:50	0:50	0:50	0:50	0:50	0:50	0:55	0:55	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:50	0:55	0:55	R01 2-mile ring	1:30
R02 5-mile ring	1:15	1:15	0:55	0:55	0:55	0:55	1:00	1:00	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	0:55	0:55	0:55	1:00	1:00	1:00	R02 5-mile ring	1:30
R03 Entire EPZ	1:20	1:25	1:00	1:05	1:05	1:05	1:05	1:05	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:00	1:00	1:05	1:05	1:05	1:05	R03 Entire EPZ	1:35
2-Mile Ring and PAZ(s) From 2 miles to 5 Miles in the Wind Direction From:																											
R04 S, SSW	1:05	1:05	0:50	0:50	0:50	0:55	0:55	0:55	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	0:50	0:50	0:50	0:55	0:55	0:55	R04 S, SSW	1:30
R05 SW, WSW	1:10	1:10	0:55	0:55	0:55	0:55	0:55	0:55	1:10	1:10	1:10	1:10	1:10	1:10	1:10	1:10	1:10	1:10	1:10	0:55	0:55	0:55	0:55	0:55	0:55	R05 SW, WSW	1:30
R06 W	1:05	1:05	0:55	0:55	0:55	0:55	0:55	0:55	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	0:55	0:55	0:55	0:55	0:55	0:55	R06 W	1:30
R07 WNW, NW	1:00	1:05	0:55	0:55	0:55	0:55	0:55	0:55	1:00	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	0:55	0:55	0:55	0:55	0:55	0:55	R07 WNW, NW	1:30
R08 NNW, N	1:10	1:10	0:55	0:55	0:55	0:55	0:55	0:55	1:10	1:10	1:10	1:10	1:10	1:10	1:10	1:10	1:10	1:10	1:10	0:55	0:55	0:55	1:00	1:00	1:00	R08 NNW, N	1:30
R09 NNE, NE	1:05	1:05	0:55	0:55	0:55	0:55	0:55	0:55	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	0:55	0:55	0:55	0:55	0:55	0:55	R09 NNE, NE	1:30
R10 ENE, E	1:05	1:05	0:55	0:55	0:55	0:55	0:55	0:55	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	0:55	0:55	0:55	0:55	0:55	0:55	R10 ENE, E	1:30
R11 ESE, SE, SSE	1:05	1:05	0:50	0:50	0:50	0:50	0:55	0:55	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	1:05	0:50	0:50	0:50	0:55	0:55	0:55	R11 ESE, SE, SSE	1:30
5-Mile Ring and PAZ(s) From 5 miles to EPZ Boundary in the Wind Direction From:																											
R12 S	1:20	1:20	0:55	1:00	1:00	1:00	1:00	1:00	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:00	1:00	1:00	1:00	1:00	1:00	R12 S	1:35
R13 SSW, SW	1:20	1:20	0:55	1:00	1:00	1:00	1:00	1:00	1:20	1:20	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:00	1:00	1:00	1:00	1:00	1:00	R13 SSW, SW	1:35
R14 WSW, W	1:20	1:25	1:00	1:00	1:00	1:00	1:00	1:00	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:00	1:00	1:00	1:00	1:00	1:00	R14 WSW, W	1:35
R15 WNW, NW	1:20	1:20	1:00	1:00	1:00	1:00	1:00	1:00	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:25	1:00	1:00	1:00	1:00	1:00	1:00	R15 WNW, NW	1:35
R16 NNW	1:20	1:20	1:00	1:00	1:00	1:00	1:00	1:00	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:00	1:00	1:00	1:00	1:00	1:00	R16 NNW	1:30
R17 N, NNE	1:15	1:20	1:00	1:00	1:00	1:00	1:00	1:00	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:00	1:00	1:00	1:00	1:00	1:00	R17 N, NNE	1:30
R18 NE	1:15	1:20	1:00	1:00	1:00	1:00	1:00	1:00	1:15	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:00	1:00	1:00	1:00	1:00	1:00	R18 NE	1:30
R19 ENE, E	1:15	1:15	1:00	1:00	1:00	1:00	1:00	1:00	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:00	1:00	1:00	1:00	1:00	1:00	R19 ENE, E	1:30
R20 ESE	1:15	1:15	0:55	1:00	1:00	1:00	1:00	1:00	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	1:15	0:55	0:55	0:55	1:00	1:00	1:00	R20 ESE	1:30
R21 SE, SSE	1:15	1:20	1:00	1:00	1:00	1:00	1:00	1:00	1:15	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:20	1:00	1:00	1:00	1:00	1:00	1:00	R21 SE, SSE	1:30

Table J-1B. Time To Clear The Indicated Area of 90 Percent of the Affected Population

Scenario: Wind Region From:	Summer		Summer		Summer		Winter		Winter		Winter		Summer	
	Midweek (1)	Midweek Weather (2)	Weekend (3)	Weekend Weather (4)	Evening Good Weather (5)	Scenario: Region Wind From:	Midweek		Weekend		Midweek		Midweek	
							Good Weather (6)	Rain (7)	Good Weather (8)	Ice (9)	Good Weather (10)	Evening Good Weather (11)	Scenario: Region Wind From:	
R01 2-mile ring	1:50	2:30	1:50	1:30	2:00	Entire 2-Mile Region, 5-Mile Region, and EPZ	1:50	1:50	1:30	1:30	1:50	1:30	2:00	R01 2-mile ring
R02 5-mile ring	2:30	2:40	1:50	1:50	1:50	R02 5-mile ring	2:30	2:30	2:30	1:50	1:50	1:50	1:50	R02 5-mile ring
R03 Entire EPZ	2:40	2:40	2:00	2:00	2:10	R03 Entire EPZ	2:40	2:40	2:40	2:00	2:00	2:00	2:10	R03 Entire EPZ
2-Mile Ring and PAZ(s) From 2 miles to 5 Miles in the Wind Direction From:														
R04 S, SSW	2:20	2:20	1:50	1:50	2:00	R04 S, SSW	2:20	2:20	2:20	1:50	1:50	1:50	2:00	R04 S, SSW
R05 SW, WSW	2:30	2:30	1:50	1:50	2:00	R05 SW, WSW	2:30	2:30	2:30	1:50	1:50	1:50	2:00	R05 SW, WSW
R06 W	2:20	2:20	1:50	1:50	2:00	R06 W	2:20	2:20	2:20	1:50	1:50	1:50	2:00	R06 W
R07 WNW, NW	2:20	2:20	1:50	1:50	2:00	R07 WNW, NW	2:10	2:20	2:20	1:50	1:50	1:50	2:00	R07 WNW, NW
R08 NNW, N	2:20	2:20	1:45	1:45	1:50	R08 NNW, N	2:20	2:20	2:20	1:45	1:45	1:45	1:50	R08 NNW, N
R09 NNE, NE	2:10	2:10	1:40	1:40	1:50	R09 NNE, NE	2:10	2:10	2:10	1:40	1:40	1:40	1:50	R09 NNE, NE
R10 ENE, E	2:10	2:10	1:40	1:40	1:50	R10 ENE, E	2:10	2:10	2:10	1:40	1:40	1:40	1:50	R10 ENE, E
R11 ESE, SE, SSE	2:20	2:20	1:50	1:50	2:00	R11 ESE, SE, SSE	2:20	2:20	2:20	1:50	1:50	1:50	2:00	R11 ESE, SE, SSE
5-Mile Ring and PAZ(s) From 5 miles to EPZ Boundary in the Wind Direction From:														
R12 S	2:30	2:30	1:50	1:50	2:00	R12 S	2:30	2:30	2:35	1:50	1:50	1:50	2:00	R12 S
R13 SSW, SW	2:40	2:40	1:50	1:50	2:00	R13 SSW, SW	2:40	2:40	2:40	1:50	1:50	1:50	2:00	R13 SSW, SW
R14 WSW, W	2:40	2:40	2:00	2:00	2:10	R14 WSW, W	2:40	2:40	2:40	2:00	2:00	2:00	2:10	R14 WSW, W
R15 WNW, NW	2:40	2:40	2:00	2:00	2:10	R15 WNW, NW	2:40	2:40	2:40	2:00	2:00	2:00	2:10	R15 WNW, NW
R16 NNW	2:30	2:30	2:00	2:00	2:10	R16 NNW	2:30	2:30	2:30	2:00	2:00	2:00	2:10	R16 NNW
R17 N, NNE	2:30	2:30	1:50	1:50	2:00	R17 N, NNE	2:30	2:30	2:30	1:50	1:50	1:50	2:00	R17 N, NNE
R18 NE	2:30	2:30	1:50	1:50	2:00	R18 NE	2:30	2:30	2:30	1:50	1:50	1:50	2:00	R18 NE
R19 ENE, E	2:30	2:30	1:50	1:50	2:00	R19 ENE, E	2:30	2:30	2:30	1:45	1:45	1:50	1:50	R19 ENE, E
R20 ESE	2:30	2:30	1:50	1:50	2:00	R20 ESE	2:30	2:30	2:30	1:50	1:50	1:50	2:00	R20 ESE
R21 SE, SSE	2:30	2:30	1:50	1:50	2:00	R21 SE, SSE	2:30	2:30	2:30	1:50	1:50	1:50	2:00	R21 SE, SSE

Table J-1C. Time To Clear The Indicated Area of 95 Percent of the Affected Population

Scenario: Region Wind From:	Summer			Winter			Winter			Winter			Summer		
	Midweek	Weekend	Midweek	Midweek	Weekend	Midweek	Weekend	Midweek	Weekend	Midweek	Weekend	Midweek	Weekend	Midweek	Weekend
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	2:20	2:20	2:00	2:00	2:40	2:20	2:20	2:20	2:00	2:00	2:40	2:40	2:00	2:00	2:50
R01 2-mile ring	3:10	3:10	2:20	2:20	2:20	3:10	3:10	3:10	2:20	2:20	2:20	2:20	2:20	2:20	2:55
R02 5-mile ring	3:20	3:20	2:30	2:30	2:40	3:20	3:20	3:20	2:30	2:30	2:40	2:40	2:30	2:30	3:10
R03 Entire EPZ															
Entire 2-Mile Region, 5-Mile Region, and EPZ															
	2:50	2:50	2:20	2:20	2:40	2:50	2:50	2:50	2:20	2:20	2:40	2:40	2:20	2:20	2:50
R04 S, SSW	3:10	3:10	2:20	2:20	2:40	3:00	3:00	3:00	2:20	2:20	2:40	2:40	2:20	2:20	2:55
R05 SW, WSW	3:00	3:00	2:20	2:20	2:30	3:00	3:00	3:00	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R06 W	2:50	2:50	2:20	2:20	2:40	2:50	2:50	2:50	2:20	2:20	2:40	2:40	2:20	2:20	2:55
R07 WNW, NW	2:50	2:50	2:20	2:20	2:40	2:50	2:50	2:50	2:20	2:20	2:40	2:40	2:20	2:20	2:55
R08 NNW, N	2:50	2:50	2:20	2:20	2:40	2:50	2:50	2:50	2:20	2:20	2:40	2:40	2:20	2:20	2:55
R09 NNE, NE	2:50	2:50	2:20	2:20	2:40	2:50	2:50	2:50	2:20	2:20	2:40	2:40	2:20	2:20	2:55
R10 ENE, E	2:50	2:50	2:20	2:20	2:40	2:50	2:50	2:50	2:20	2:20	2:40	2:40	2:20	2:20	2:55
R11 ESE, SE, SSE															
2-Mile Ring and PAZ(s) From 2 miles to 5 Miles in the Wind Direction From:															
	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R12 S	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R13 SSW, SW	3:20	3:20	2:30	2:30	2:40	3:20	3:20	3:20	2:30	2:30	2:40	2:40	2:30	2:30	3:10
R14 WSW, W	3:20	3:20	2:30	2:30	2:40	3:20	3:20	3:20	2:30	2:30	2:40	2:40	2:30	2:30	3:10
R15 WNW, NW	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R16 NNW	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R17 N, NNE	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R18 NE	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R19 ENE, E	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R20 ESE	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R21 SE, SSE															
5-Mile Ring and PAZ(s) From 5 miles to EPZ Boundary in the Wind Direction From:															
	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R12 S	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R13 SSW, SW	3:20	3:20	2:30	2:30	2:40	3:20	3:20	3:20	2:30	2:30	2:40	2:40	2:30	2:30	3:10
R14 WSW, W	3:20	3:20	2:30	2:30	2:40	3:20	3:20	3:20	2:30	2:30	2:40	2:40	2:30	2:30	3:10
R15 WNW, NW	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R16 NNW	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R17 N, NNE	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R18 NE	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R19 ENE, E	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R20 ESE	3:10	3:10	2:20	2:20	2:30	3:10	3:10	3:10	2:20	2:20	2:30	2:30	2:20	2:20	2:55
R21 SE, SSE															

Table J-1D. Time To Clear The Indicated Area of 100 Percent of the Affected Population

Scenario: Region Wind From:	Summer			Winter			Winter			Summer			Winter			Summer			
	Midweek			Weekend			Midweek			Weekend			Midweek			Weekend			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
	Scenario:				Scenario:				Scenario:					Scenario:				Scenario:	
	Region Wind From:				Region Wind From:				Region Wind From:					Region Wind From:				Region Wind From:	
	Entire 2-Mile Region, 5-Mile Region, and EPZ																		
R01	2-mile ring	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	R01 2-mile ring	4:00
R02	5-mile ring	4:05	4:05	4:05	4:05	4:05	4:10	4:10	4:05	4:05	4:05	4:05	4:05	4:05	4:05	4:05	4:05	R02 5-mile ring	4:05
R03	Entire EPZ	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	R03 Entire EPZ	4:10
	2-Mile Ring and PAZ(s) From 2 miles to 5 Miles in the Wind Direction From:																		
R04	S, SSW	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	R04 S, SSW	4:00
R05	SW, WSW	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	R05 SW, WSW	4:00
R06	W	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	R06 W	4:00
R07	WNW, NW	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	R07 WNW, NW	4:00
R08	NNW, N	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	R08 NNW, N	4:00
R09	NNE, NE	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	R09 NNE, NE	4:00
R10	ENE, E	4:00	4:00	4:00	4:00	4:00	4:00	4:10	4:10	4:10	4:10	4:10	4:10	4:00	4:00	4:00	4:00	R10 ENE, E	4:00
R11	ESE, SE, SSE	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	4:00	R11 ESE, SE, SSE	4:00
	5-Mile Ring and PAZ(s) From 5 miles to EPZ Boundary in the Wind Direction From:																		
R12	S	4:05	4:10	4:05	4:10	4:05	4:10	4:10	4:10	4:05	4:10	4:10	4:10	4:10	4:10	4:10	4:10	R12 S	4:05
R13	SSW, SW	4:05	4:10	4:05	4:10	4:05	4:10	4:10	4:10	4:05	4:10	4:10	4:10	4:10	4:10	4:10	4:10	R13 SSW, SW	4:05
R14	WSW, W	4:10	4:10	4:05	4:10	4:05	4:10	4:10	4:10	4:05	4:10	4:10	4:10	4:05	4:05	4:10	4:10	R14 WSW, W	4:10
R15	WNW, NW	4:10	4:10	4:05	4:10	4:05	4:10	4:10	4:10	4:05	4:10	4:10	4:10	4:05	4:05	4:10	4:10	R15 WNW, NW	4:10
R16	NNW	4:10	4:10	4:05	4:10	4:05	4:10	4:10	4:10	4:05	4:10	4:10	4:10	4:05	4:05	4:10	4:10	R16 NNW	4:10
R17	N, NNE	4:10	4:10	4:10	4:10	4:05	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	R17 N, NNE	4:10
R18	NE	4:10	4:10	4:05	4:05	4:05	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:10	R18 NE	4:10
R19	ENE, E	4:10	4:10	4:05	4:05	4:05	4:05	4:10	4:10	4:10	4:10	4:10	4:10	4:05	4:05	4:05	4:05	R19 ENE, E	4:10
R20	ESE	4:05	4:10	4:05	4:05	4:05	4:05	4:10	4:10	4:10	4:10	4:10	4:10	4:05	4:05	4:05	4:05	R20 ESE	4:10
R21	SE, SSE	4:10	4:10	4:05	4:10	4:05	4:10	4:10	4:10	4:10	4:10	4:10	4:10	4:05	4:05	4:05	4:05	R21 SE, SSE	4:10

Table J-2. Description of Evacuation Regions

Region	Description	Protective Action Zone (PAZ)												
		A-0	A-1	A-2	B-1	B-2	C-1	C-2	D-1	D-2	E-1	E-2	F-1	F-2
R01	2 mile ring													
R02	5-mile ring													
R03	Full EPZ													
Evacuate 2 mile ring and PAZ(s) From 2 mile to 5 miles in the Wind Direction From:														
Region	Wind Direction From	Protective Action Zone (PAZ)												
		A-0	A-1	A-2	B-1	B-2	C-1	C-2	D-1	D-2	E-1	E-2	F-1	F-2
R04	S, SSW													
R05	SW, WSW													
R06	W													
R07	WNW, NW													
R08	NNW, N													
R09	NNE, NE													
R10	ENE, E													
R11	ESE, SE, SSE													
Evacuate 5 mile ring and PAZ(s) from 5 mile to EPZ boundary in the Wind Direction From:														
Region	Wind Direction From	Protective Action Zone (PAZ)												
		A-0	A-1	A-2	B-1	B-2	C-1	C-2	D-1	D-2	E-1	E-2	F-1	F-2
R12	S													
R13	SSW, SW													
R14	WSW, W													
R15	WNW, NW													
R16	NNW													
R17	N, NNE													
R18	NE													
R19	ENE, E													
R20	ESE													
R21	SE, SSE													

Evacuation Time Estimates Summer, Midweek, Midday, Good Weather (Scenario 1)

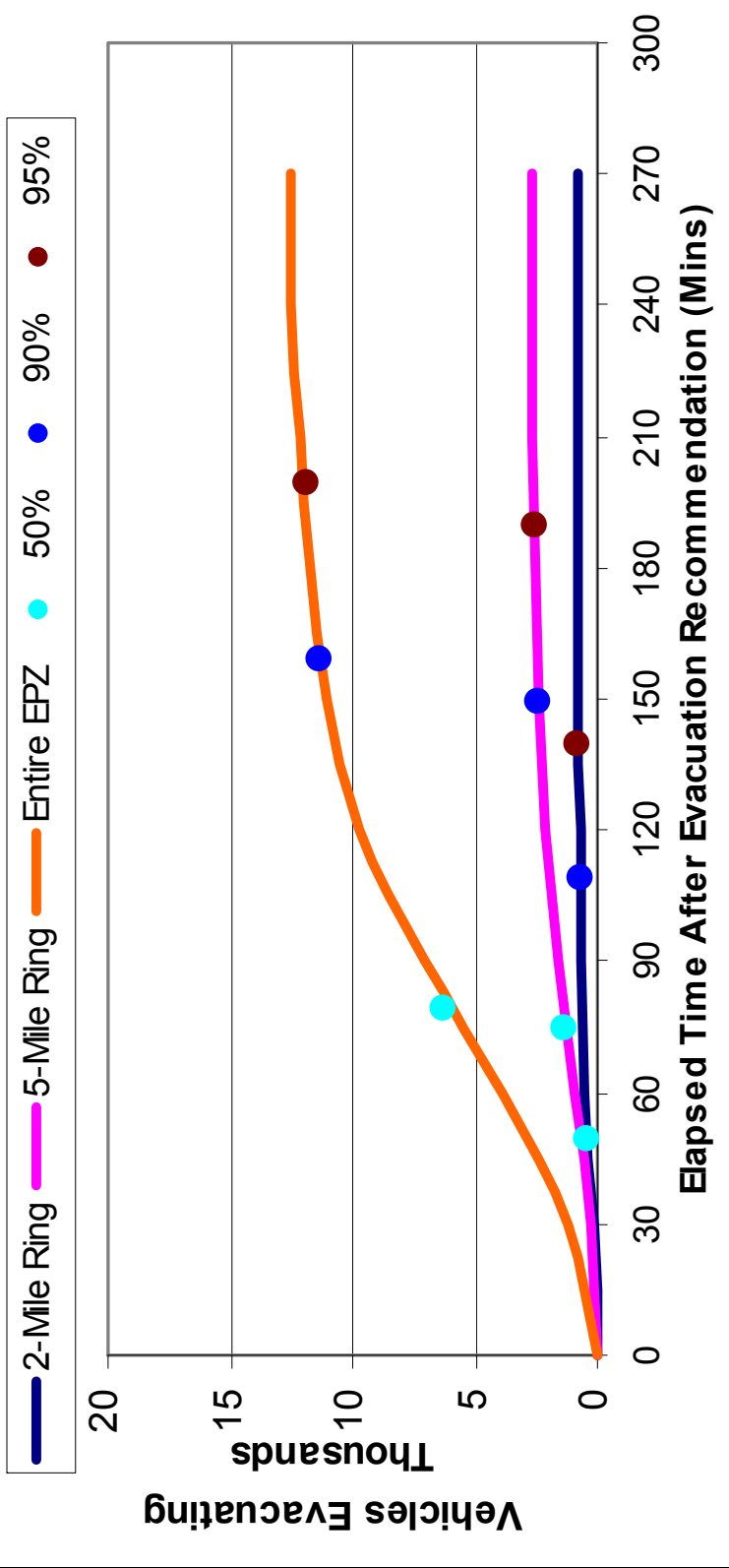


Figure J-1. Evacuation Time Estimates –
Scenario 1 for Region R3 (Entire EPZ)

Evacuation Time Estimates Summer, Midweek, Midday, Rain (Scenario 2)

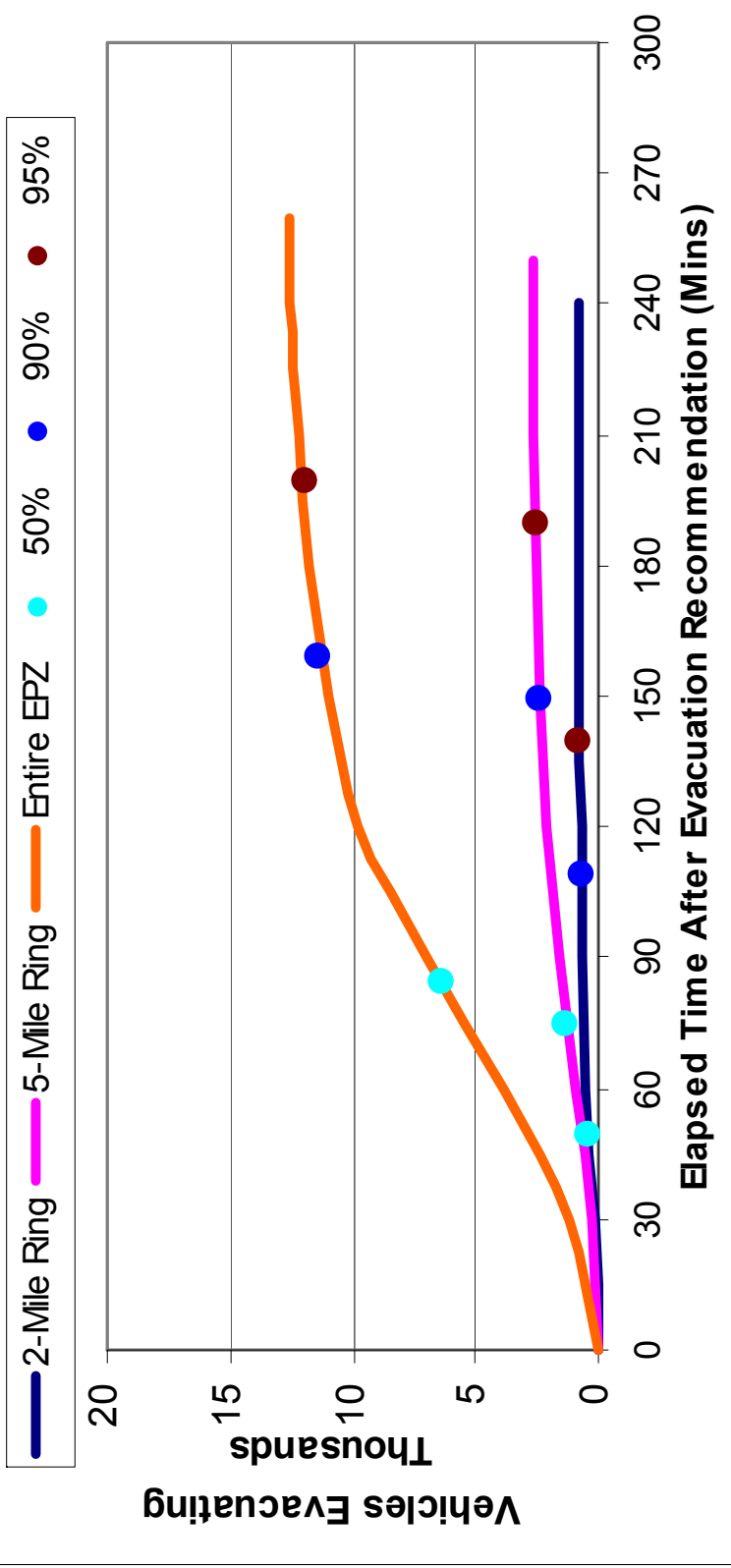


Figure J-2. Evacuation Time Estimates – Scenario 2 for Region R3 (Entire EPZ)

Evacuation Time Estimates Summer, Weekend, Midday, Good Weather (Scenario 3)

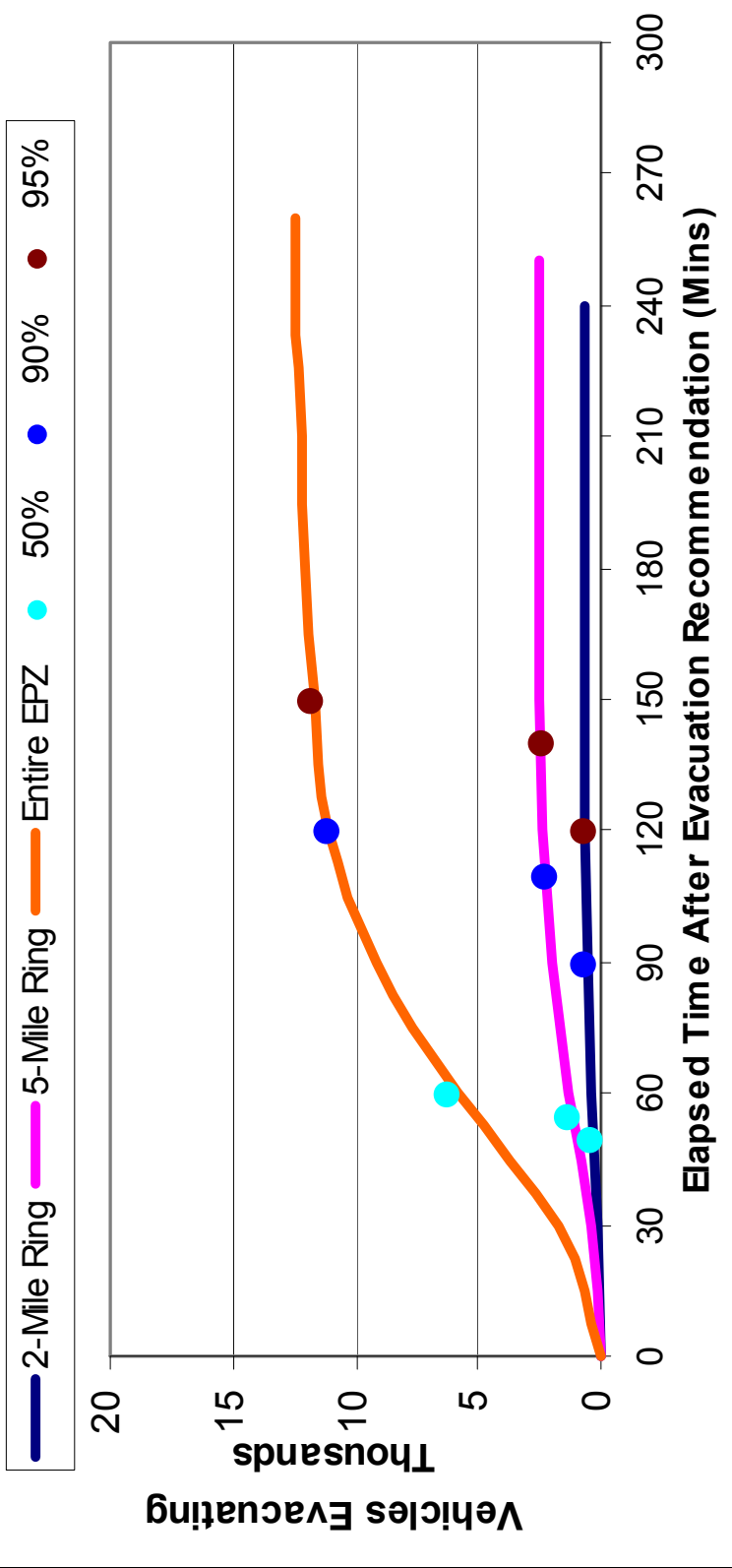


Figure J-3. Evacuation Time Estimates – Scenario 3 for Region R3 (Entire EPZ)

Evacuation Time Estimates Summer, Weekend, Midday, Rain (Scenario 4)

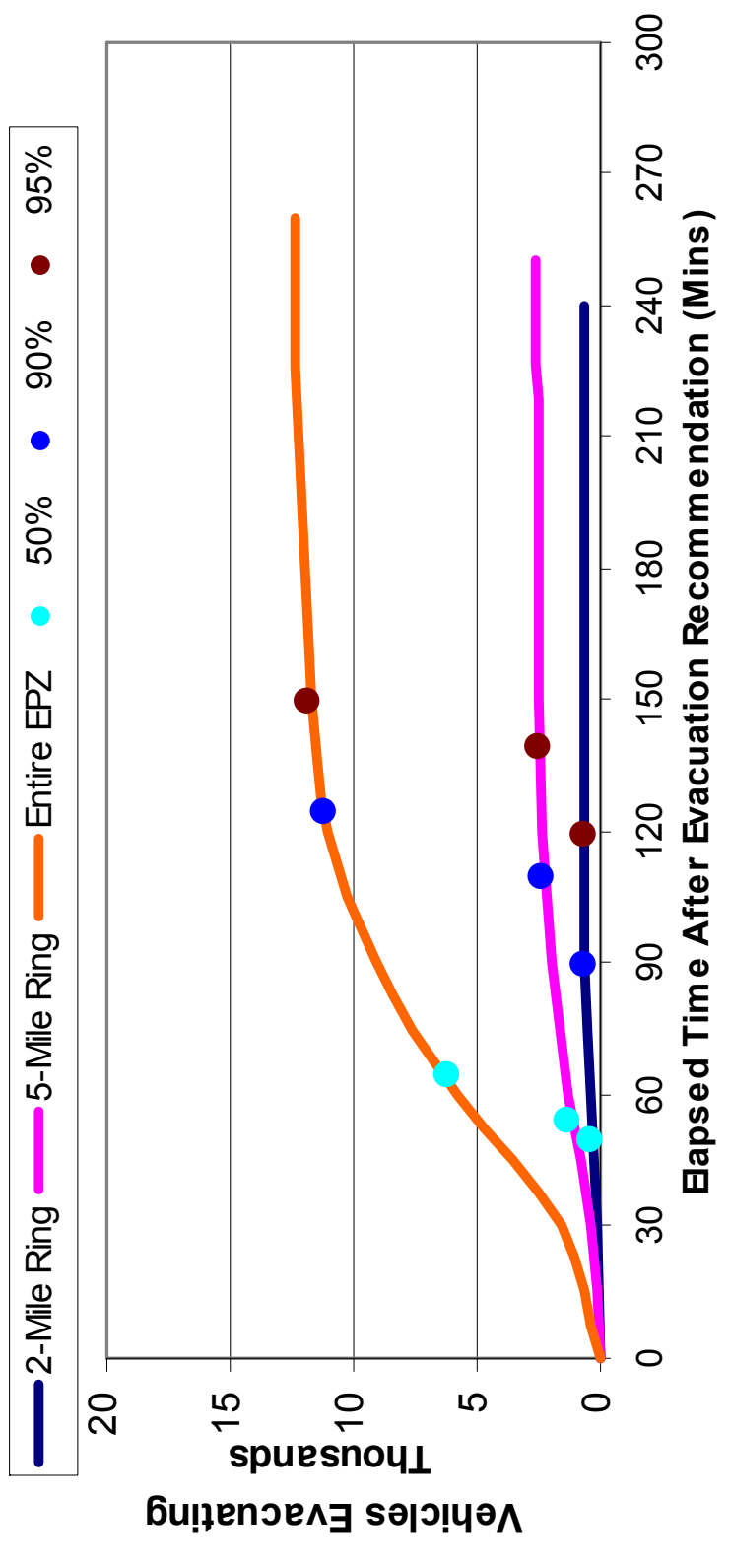


Figure J-4. Evacuation Time Estimates – Scenario 4 for Region R3 (Entire EPZ)

Evacuation Time Estimates Summer, Evening, Good Weather (Scenario 5)

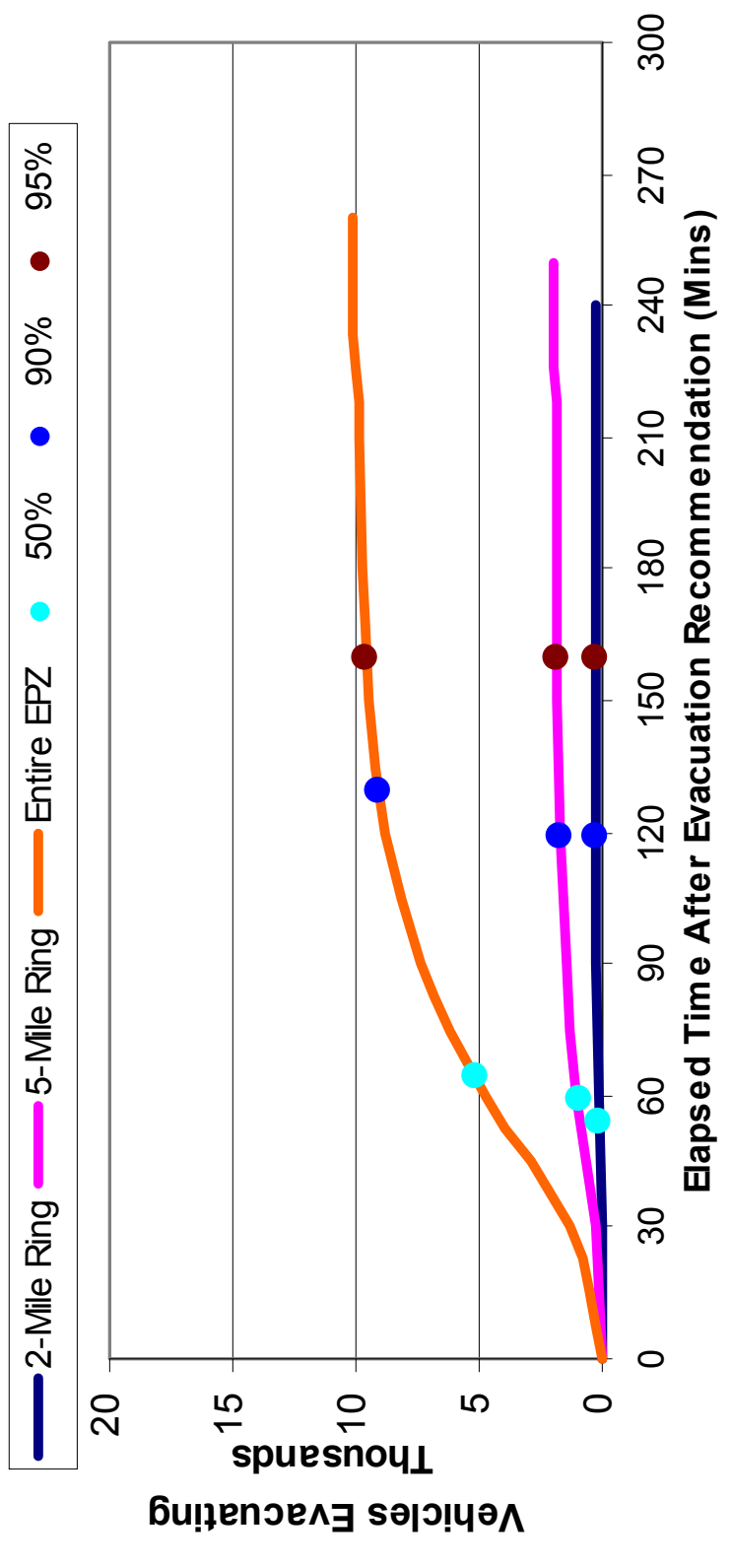


Figure J-5. Evacuation Time Estimates –
Scenario 5 for Region R3 (Entire EPZ)

Evacuation Time Estimates

Winter, Midweek, Midday, Good Weather ((Scenario 6)

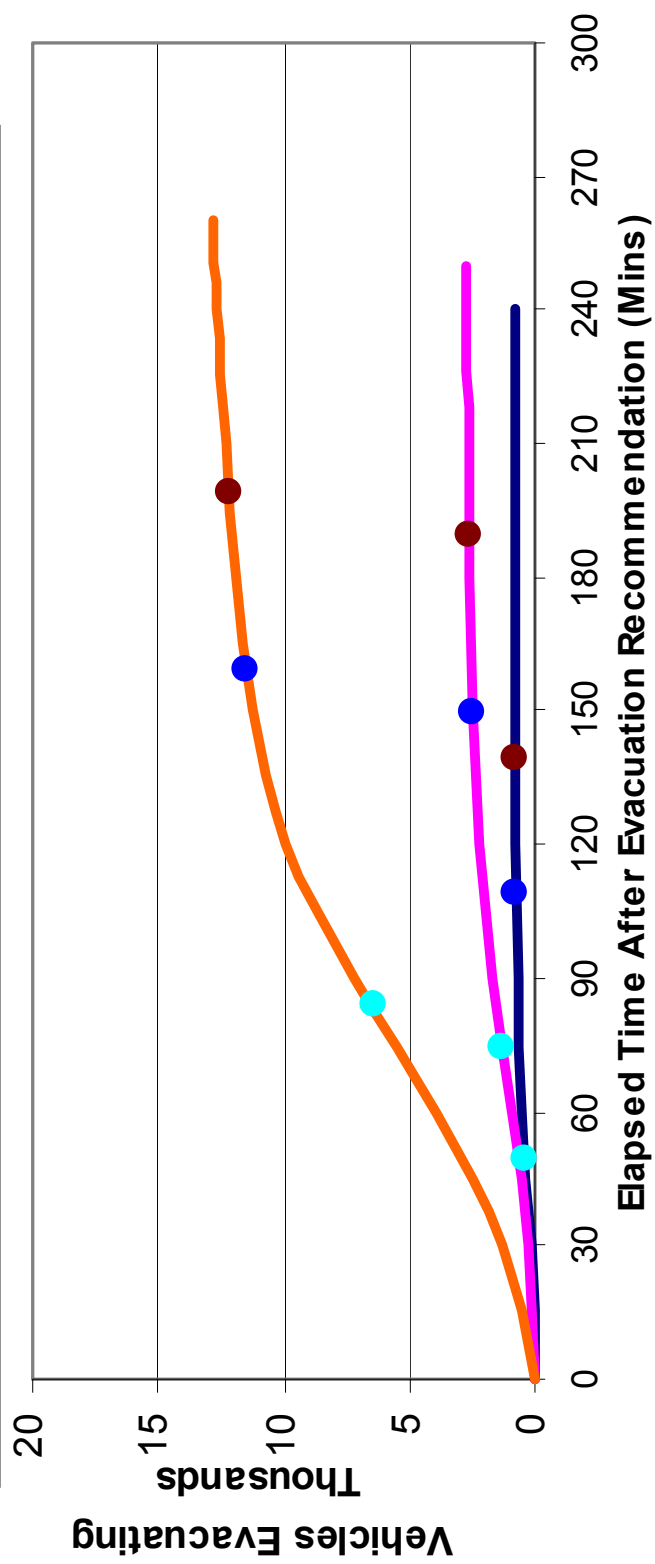


Figure J-6. Evacuation Time Estimates – Scenario 6 for Region R3 (Entire EPZ)

Evacuation Time Estimates Winter, Midweek, Midday, Rain (Scenario 7)

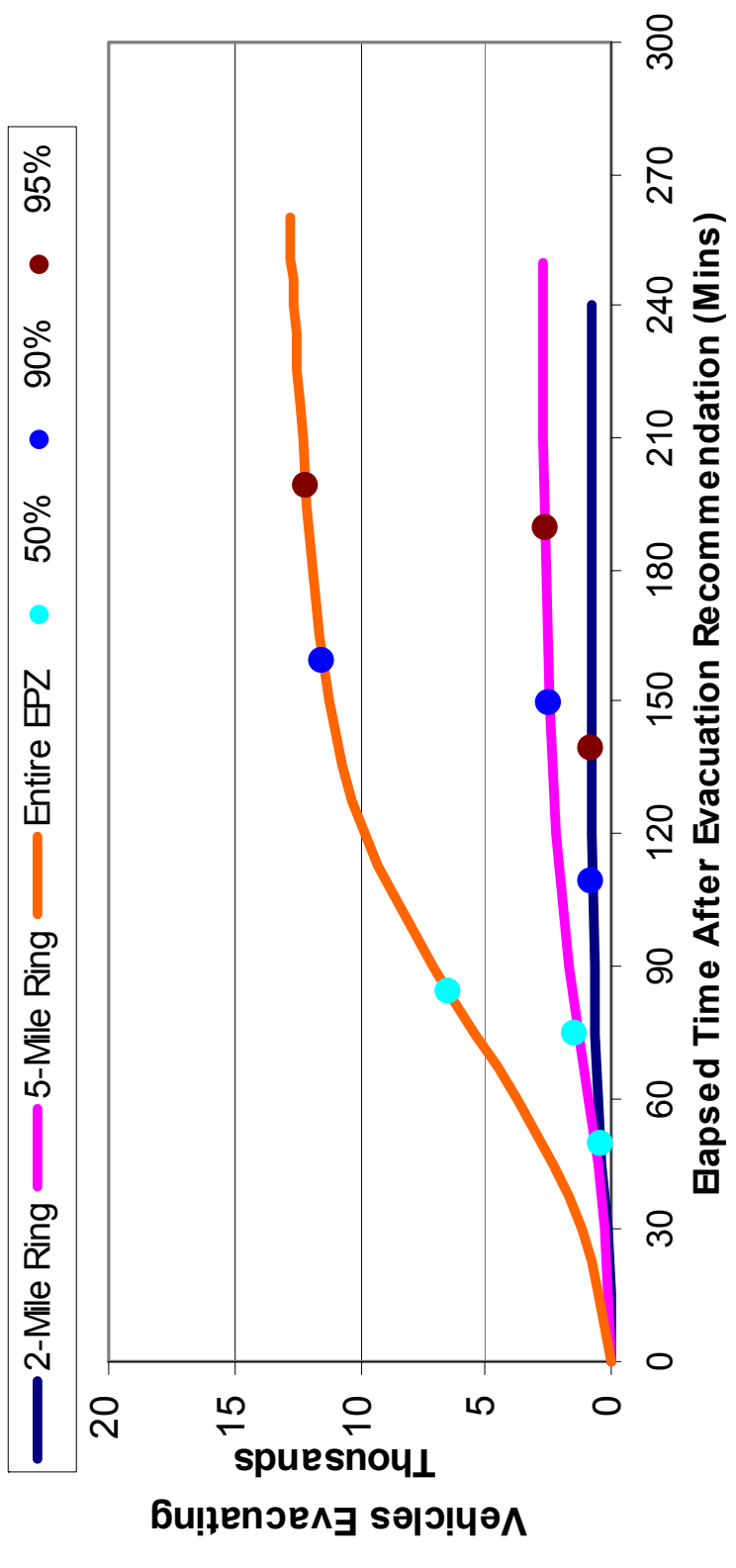


Figure J-7. Evacuation Time Estimates – Scenario 7 for Region R3 (Entire EPZ)

Evacuation Time Estimates Winter, Midweek, Midday, Ice (Scenario 8)

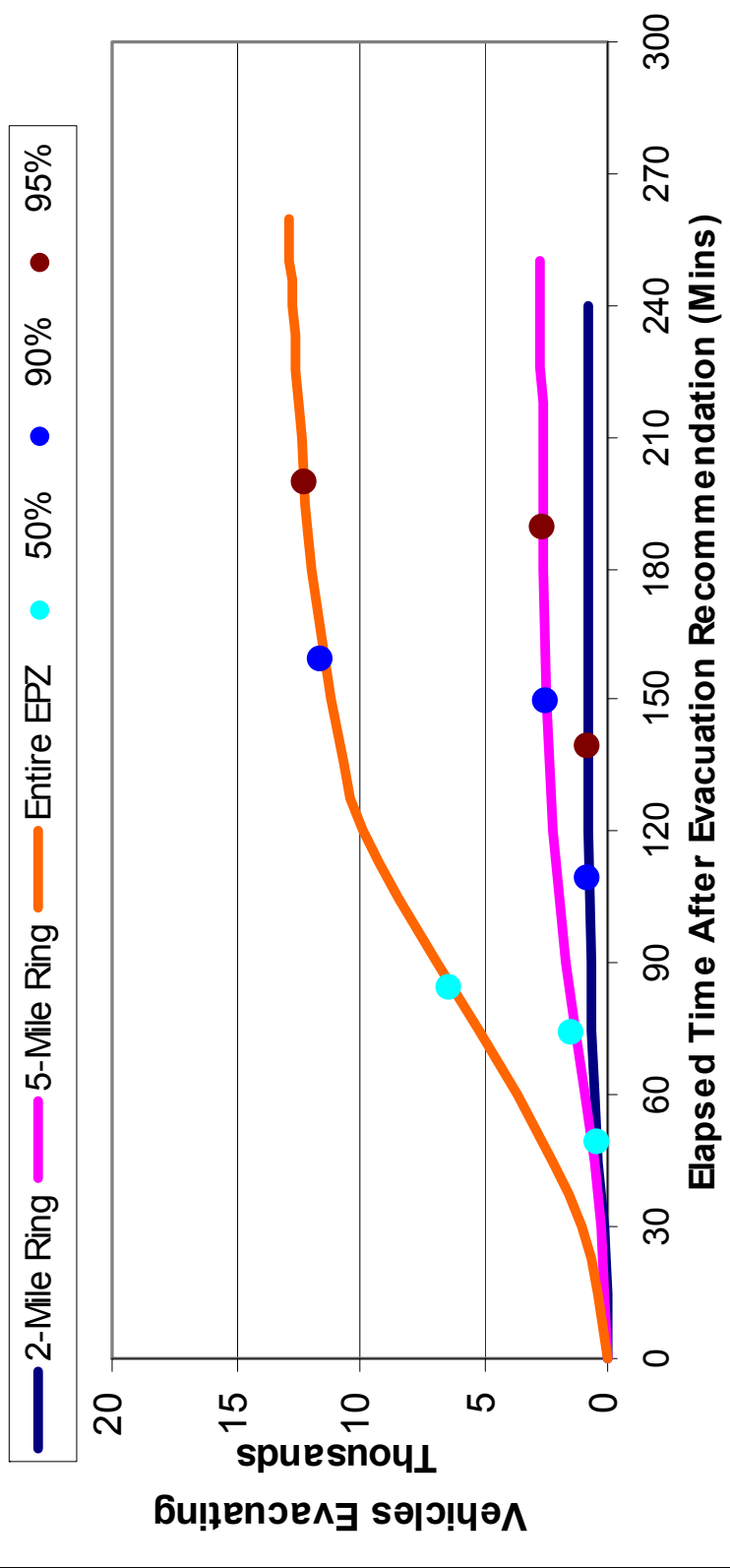


Figure J-8. Evacuation Time Estimates – Scenario 8 for Region R3 (Entire EPZ)

Evacuation Time Estimates Winter, Weekend, Midday, Good Weather (Scenario 9)

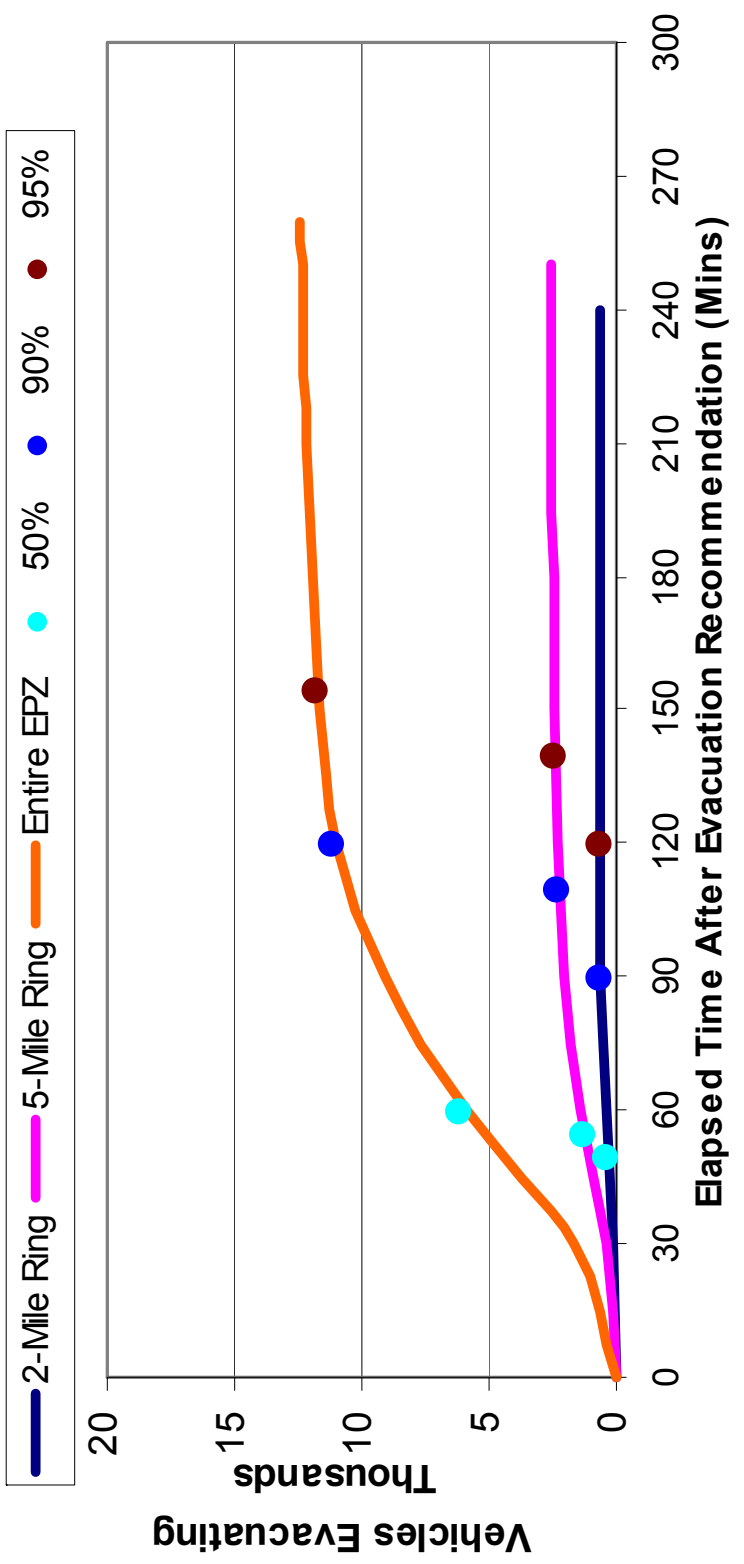


Figure J-9. Evacuation Time Estimates – Scenario 9 for Region R3 (Entire EPZ)

Evacuation Time Estimates Winter, Weekend, Midday, Rain (Scenario 10)

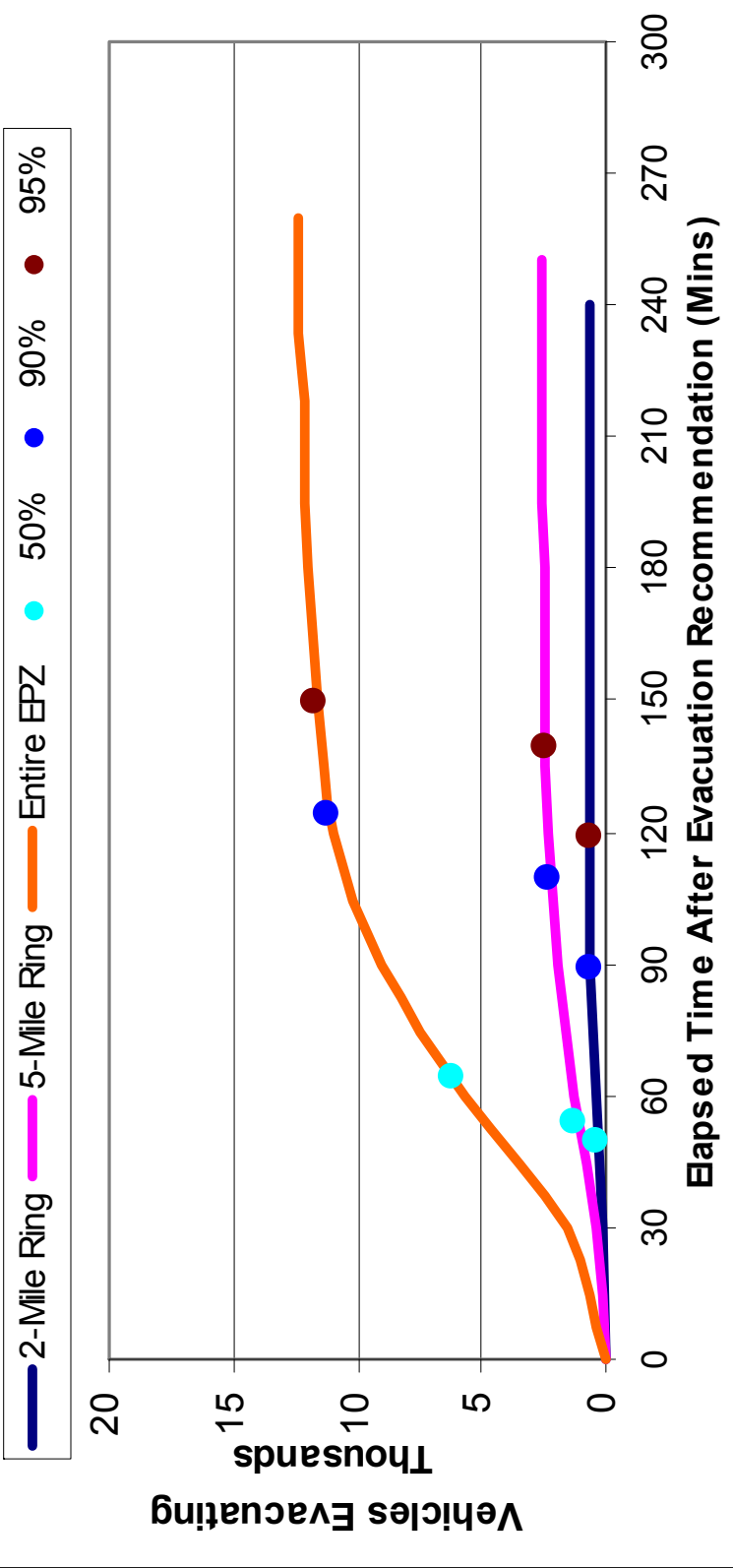


Figure J-10. Evacuation Time Estimates – Scenario 10 for Region R3 (Entire EPZ)

**Evacuation Time Estimates
Winter, Midweek, Weekend, Evening (Scenario 11)**

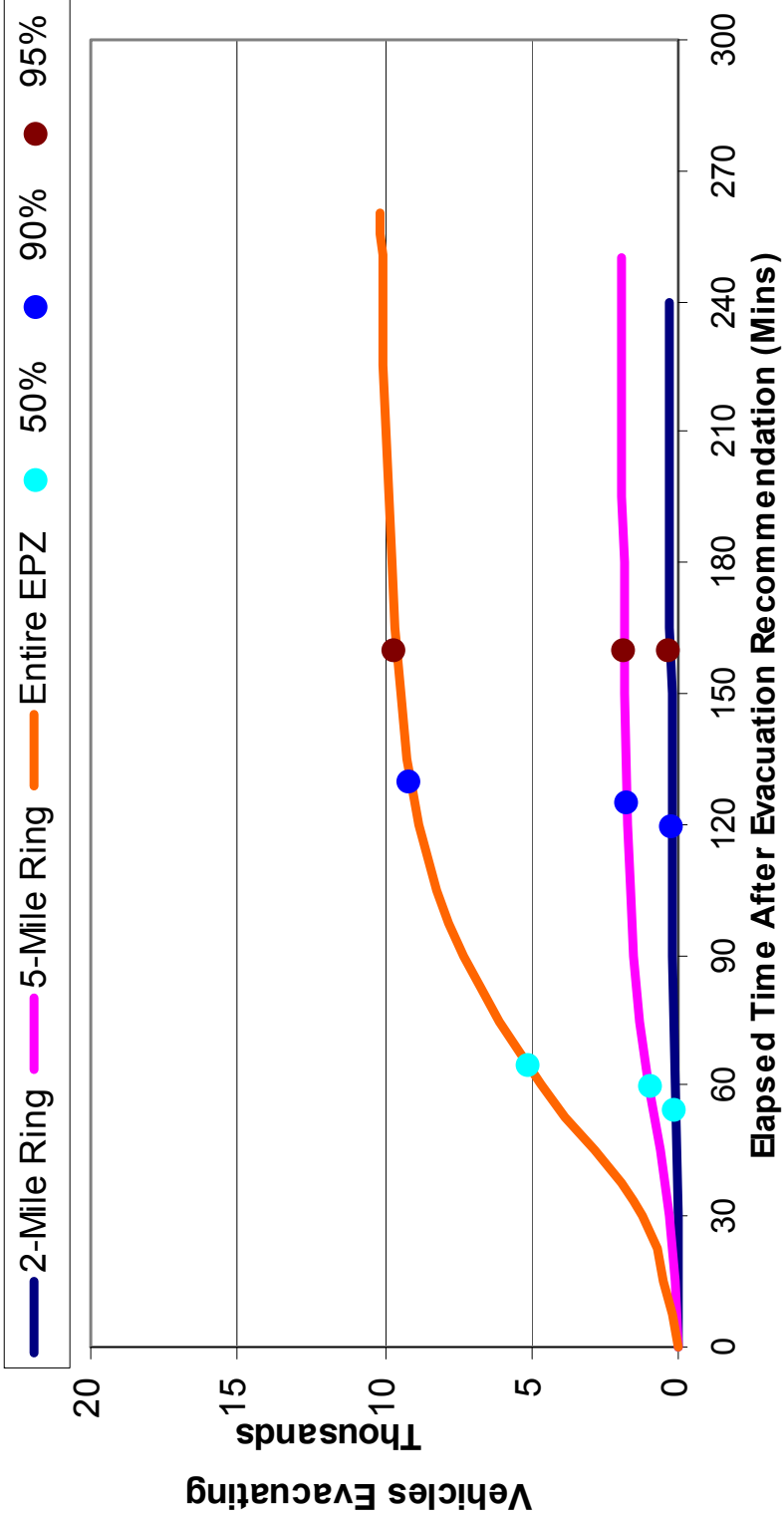


Figure J-11. Evacuation Time Estimates – Scenario 11 for Region R3 (Entire EPZ)

**Evacuation Time Estimates
Summer, Midweek, Midday, Plant Construction (Scenario 12)**

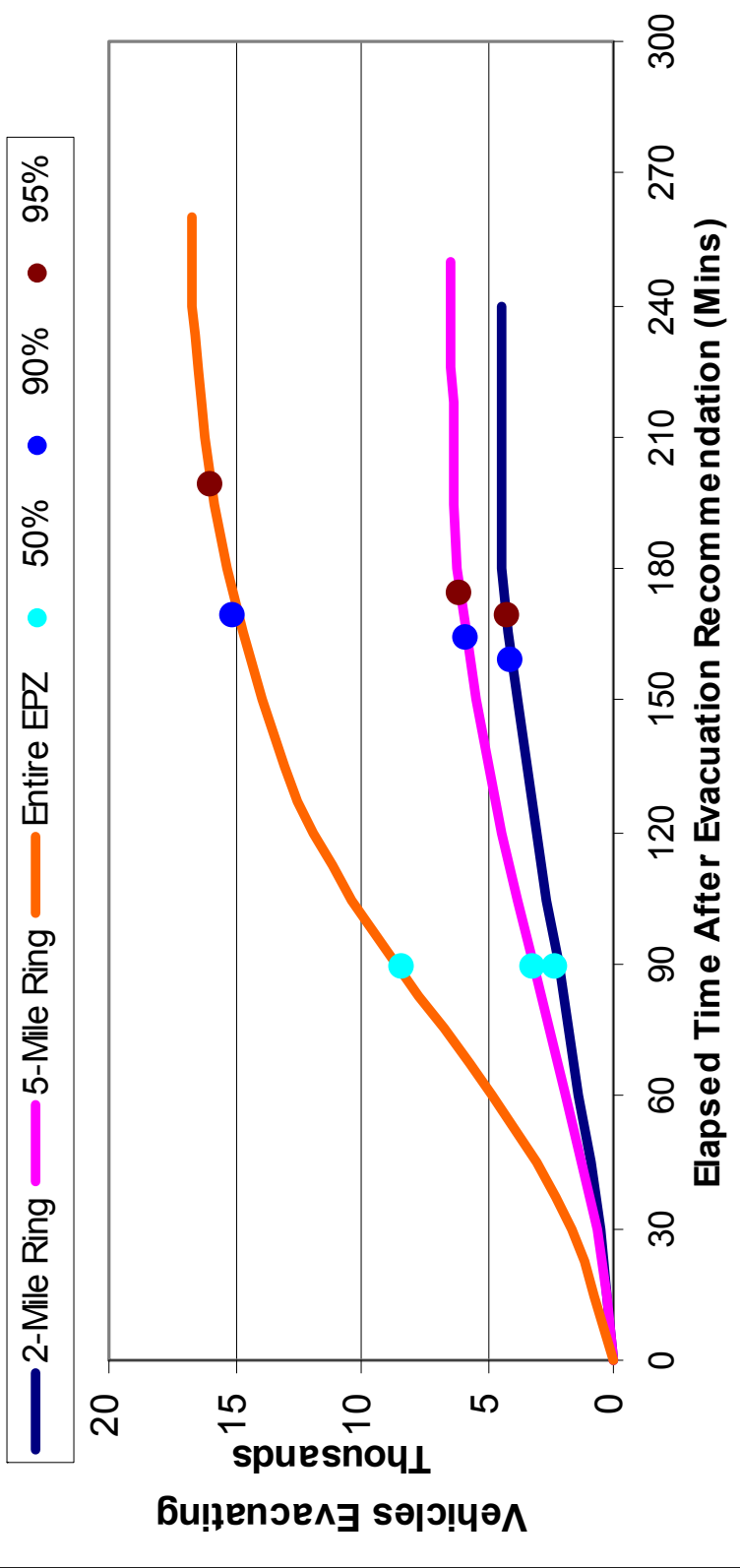


Figure J-12. Evacuation Time Estimates –
Scenario 12 for Region R3 (Entire EPZ)

APPENDIX K

Evacuation Roadway Network Characteristics

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
1	3	24	1	1895	55
1	87	36	1	1895	55
2	126	40	1	1895	55
3	33	39	1	1895	55
4	5	29	1	1714	45
4	6	34	1	1895	55
5	1	107	1	1714	45
6	7	76	1	1895	55
7	8	75	1	1714	45
8	14	15	1	1895	55
9	4	24	1	1714	45
10	9	22	1	1500	40
11	10	37	1	1500	40
12	11	41	1	1500	40
13	12	34	1	1500	40
13	832	36	1	1714	40
14	15	60	1	1895	55
15	16	103	1	1895	55
16	17	38	1	1895	55
17	18	44	1	1895	55
18	19	25	1	1895	55
19	20	117	1	1895	55
20	21	88	1	1895	55
21	22	76	1	1895	55
22	23	157	1	1895	55
23	24	134	1	1895	55
24	25	155	1	1895	55
25	27	65	1	1895	55
26	85	58	1	1895	55
26	27	34	1	1714	40
27	28	42	1	1895	55
27	26	34	1	1895	55
28	29	131	1	1895	55
29	30	38	1	1895	55
30	31	36	1	1895	55
31	32	34	1	1895	55
33	34	98	1	1895	55
34	35	73	1	1895	55
35	36	41	1	1895	55
35	803	99	1	1500	45
36	37	44	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
37	38	24	1	1895	55
38	39	18	1	1895	55
39	40	25	1	1895	55
40	41	40	1	1895	55
41	42	38	1	1895	55
42	43	76	1	1895	55
43	44	31	1	1895	55
44	45	94	1	1895	55
45	46	80	1	1895	55
46	47	40	1	1895	55
47	48	62	1	1895	55
47	804	101	1	1714	45
48	49	35	1	1895	55
49	50	89	1	1895	55
50	51	94	1	1895	55
51	52	22	1	1895	55
52	53	18	1	1895	55
53	54	27	1	1895	55
54	55	53	1	1895	55
55	56	41	1	1895	55
56	57	72	1	1895	55
57	450	18	2	1714	45
57	58	12	2	1895	50
57	452	4	1	1714	40
58	57	12	3	1895	50
58	59	14	1	1714	50
58	62	17	2	1895	50
59	60	42	1	1714	50
60	61	186	1	1714	50
62	63	89	2	1895	50
62	58	17	2	1714	50
63	64	20	2	1895	50
63	62	89	2	1895	50
64	63	20	2	1895	50
64	65	75	1	1895	55
64	72	56	1	1895	55
65	66	62	1	1895	55
65	64	75	1	1895	55
66	67	83	1	1895	55
66	65	62	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
67	68	135	1	1895	55
67	66	83	1	1895	55
68	69	87	1	1895	55
68	67	135	1	1895	55
69	805	102	1	1895	55
69	68	87	1	1895	55
70	71	138	1	1895	55
70	805	92	1	1895	55
71	70	138	1	1895	55
71	664	106	1	1895	55
72	73	43	1	1895	55
72	64	56	1	1714	40
73	74	67	1	1895	55
73	72	43	1	1895	55
74	75	40	1	1895	55
74	73	67	1	1895	55
75	652	34	1	1895	55
75	74	40	1	1895	55
76	652	75	1	1895	55
76	77	93	1	1895	55
77	76	93	1	1895	55
77	86	79	1	1895	55
78	86	77	1	1895	55
78	79	72	1	1895	55
79	80	75	1	1895	55
79	78	72	1	1895	55
80	79	75	1	1895	55
80	81	72	1	1895	55
81	82	122	1	1895	55
81	80	72	1	1895	55
82	83	19	1	1895	55
82	81	122	1	1895	55
83	84	103	1	1895	55
83	82	19	1	1895	55
84	83	103	1	1895	55
84	655	24	1	1895	55
85	655	53	1	1895	55
85	26	58	1	1895	55
86	77	79	1	1895	55
86	78	77	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
87	88	85	1	1895	55
88	89	81	1	1895	55
89	90	30	1	1895	55
90	91	72	1	1895	55
91	92	32	1	1895	55
92	93	64	1	1895	55
93	94	47	1	1895	55
94	95	169	1	1895	55
95	96	39	1	1895	55
96	97	43	1	1895	55
97	98	43	1	1895	55
98	99	53	1	1895	55
99	112	17	1	1895	55
99	114	18	1	1895	55
99	143	9	1	1895	55
100	101	26	1	1895	55
101	102	57	1	1895	55
102	103	120	1	1895	55
103	104	62	1	1895	55
104	105	65	1	1895	55
105	106	61	1	1895	55
106	107	72	1	1895	55
107	108	65	1	1895	55
108	109	72	1	1895	55
109	110	19	1	1895	55
110	113	26	1	1895	55
112	100	87	1	1895	55
113	111	34	1	1895	55
114	115	61	1	1895	55
115	116	58	1	1895	55
116	117	16	1	1895	55
117	118	33	1	1895	55
118	119	19	1	1895	55
119	120	147	1	1895	55
120	121	57	1	1895	55
121	122	35	1	1895	55
122	123	35	1	1895	55
123	124	42	1	1895	55
124	125	28	1	1895	55
125	2	45	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
126	142	61	1	1895	55
127	128	26	1	1895	55
128	129	26	1	1895	55
129	130	30	1	1895	55
129	557	37	1	1500	45
130	131	63	1	1895	55
131	132	39	1	1895	55
132	133	31	1	1895	55
133	134	38	1	1895	55
134	135	38	1	1895	55
135	136	92	1	1895	55
136	137	47	1	1895	55
137	138	62	1	1714	45
138	463	77	1	1714	45
138	139	52	1	1714	45
138	451	96	1	1714	45
139	140	19	1	1714	45
140	464	36	2	1714	45
140	141	89	1	1714	50
140	462	14	2	1500	30
142	127	74	1	1895	55
143	144	27	1	1895	55
144	145	15	1	1895	55
145	146	18	1	1895	55
146	147	66	1	1895	55
147	148	45	1	1895	55
148	149	86	1	1895	55
149	150	50	1	1895	55
150	151	59	1	1895	55
151	152	39	1	1895	55
152	153	62	1	1895	55
153	154	21	1	1895	55
154	155	73	1	1895	55
155	156	104	1	1895	55
156	157	59	1	1895	55
157	158	77	1	1895	55
158	159	12	1	1895	55
159	160	167	1	1895	55
159	402	74	1	1500	45
160	161	62	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
161	545	38	1	1895	55
162	163	96	1	1895	55
163	164	27	1	1895	55
164	165	75	1	1895	55
165	166	71	1	1895	55
166	167	47	1	1714	40
167	312	40	1	1895	55
167	352	94	1	1895	55
167	396	62	1	1895	55
168	8	45	1	1714	45
169	170	40	1	1895	55
169	168	52	1	1895	55
170	171	36	1	1895	55
171	172	148	1	1895	55
172	173	78	1	1895	55
173	174	91	1	1895	55
174	175	37	1	1714	40
175	192	126	1	1895	55
175	197	58	1	1895	55
176	172	37	1	1895	55
177	176	110	1	1895	55
178	177	26	1	1895	55
179	180	30	1	1895	55
180	181	25	1	1895	55
181	182	35	1	1895	55
182	183	87	1	1895	55
183	184	84	1	1895	55
184	185	44	1	1895	55
185	186	133	1	1895	55
186	187	82	1	1895	55
187	188	157	1	1895	55
188	159	133	1	1895	55
189	172	32	1	1200	30
190	178	58	1	1895	55
190	179	41	1	1895	55
191	190	28	1	1500	45
192	193	55	1	1895	55
192	175	126	1	1895	55
193	194	44	1	1895	55
193	192	55	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
194	279	70	1	1714	50
194	193	44	1	1895	55
194	195	106	1	1895	55
195	194	106	1	1895	55
195	196	51	1	1895	55
196	307	46	1	1895	55
196	306	10	1	1714	50
196	195	51	1	1895	55
197	198	57	1	1895	55
197	175	58	1	1895	55
198	199	67	1	1895	55
198	197	57	1	1895	55
199	200	37	1	1895	55
199	198	67	1	1895	55
200	201	23	1	1895	55
200	199	37	1	1895	55
201	200	23	1	1895	55
201	202	152	1	1895	55
201	262	25	1	1500	40
202	203	41	1	1895	55
202	201	152	1	1895	55
203	202	41	1	1895	55
203	204	49	1	1895	55
204	203	49	1	1895	55
204	205	35	1	1895	55
205	204	35	1	1895	55
205	206	80	1	1895	55
206	205	80	1	1895	55
206	207	52	1	1895	55
207	206	52	1	1895	55
207	208	47	1	1895	55
208	209	77	1	1895	55
208	207	47	1	1895	55
209	208	77	1	1895	55
209	210	54	1	1895	55
209	268	37	1	1714	45
210	209	54	1	1895	55
210	605	48	1	1895	55
211	605	32	1	1895	55
211	212	61	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
212	211	61	1	1895	55
212	213	86	1	1895	55
213	212	86	1	1895	55
213	382	36	1	1895	55
214	383	8	1	1200	30
214	382	11	1	1895	55
214	215	30	1	1714	40
215	216	89	1	1895	55
215	214	30	1	1714	40
215	380	10	1	1200	30
216	217	40	1	1895	55
216	215	89	1	1714	40
217	612	34	1	1895	55
217	216	40	1	1895	55
218	630	63	1	1714	45
218	612	29	1	1714	45
218	219	66	1	1714	50
219	218	66	1	1714	50
219	220	21	1	1714	50
220	219	21	1	1714	50
220	221	29	2	1714	40
221	222	20	2	1714	40
221	389	29	1	1714	45
221	220	29	1	1714	40
222	821	41	2	1714	40
222	221	20	2	1714	40
223	717	116	1	1714	50
223	821	32	2	1714	40
224	717	16	1	1714	50
224	225	61	1	1714	40
225	226	49	1	1714	45
225	224	61	1	1714	40
226	225	49	1	1714	40
226	227	83	1	1895	55
227	686	58	1	1714	45
227	226	83	1	1714	45
228	229	61	1	1895	55
228	686	47	1	1714	45
229	230	57	1	1895	55
229	228	61	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
230	229	57	1	1895	55
230	231	92	1	1895	55
231	230	92	1	1895	55
231	232	58	1	1714	45
232	231	58	1	1895	55
232	233	18	1	1500	40
233	684	32	1	1500	40
233	232	18	1	1714	40
233	267	13	1	1895	55
234	684	26	1	1500	40
234	235	108	1	1895	55
235	236	131	1	1895	55
235	234	108	1	1714	45
236	237	85	1	1895	55
236	235	131	1	1895	55
237	236	85	1	1895	55
237	238	30	1	1895	55
238	239	52	1	1895	55
238	237	30	1	1895	55
239	767	55	1	1895	55
239	284	65	1	1714	50
239	238	52	1	1895	55
240	241	161	1	1895	55
240	767	23	1	1895	55
241	775	18	1	1895	55
241	240	161	1	1895	55
242	243	138	1	1895	55
242	775	51	1	1895	55
243	242	138	1	1895	55
243	311	22	1	1714	50
243	244	60	1	1895	55
244	245	32	1	1895	55
244	243	60	1	1895	55
245	246	182	1	1895	55
245	244	32	1	1895	55
246	247	36	1	1895	55
246	245	182	1	1895	55
247	246	36	1	1895	55
247	248	51	1	1895	55
248	249	61	2	1714	45

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
248	247	51	1	1895	55
248	253	36	1	1200	40
249	250	47	2	1714	45
249	248	61	2	1714	45
250	249	47	2	1714	45
250	251	42	2	1714	45
251	252	100	2	1714	45
251	250	42	2	1714	45
252	251	100	2	1714	45
252	351	60	2	1714	45
253	248	36	1	1714	40
253	254	39	1	1200	40
254	255	10	1	1200	40
254	253	39	1	1714	40
255	256	37	1	1714	50
256	257	43	1	1714	50
257	258	49	1	1714	50
258	259	26	1	1714	50
259	260	25	1	1714	50
260	261	35	1	1714	50
261	718	96	1	1714	50
262	263	139	1	1500	40
263	264	66	1	1500	40
264	265	33	1	1500	40
265	266	30	1	1500	40
266	267	29	1	1500	40
267	278	51	1	1714	45
267	233	13	1	1500	40
268	269	44	1	1714	45
269	270	17	1	1714	45
270	271	99	1	1714	45
271	272	25	1	1714	45
272	275	20	1	1714	50
272	273	13	1	1714	45
273	276	25	1	1714	45
273	274	17	1	1714	50
273	272	13	1	1714	45
274	275	31	2	2250	70
274	376	116	2	2250	70
275	274	31	2	2250	70

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
275	375	73	2	2250	70
276	277	49	1	1714	45
276	273	25	1	1714	45
277	278	41	1	1714	45
277	276	49	1	1714	45
278	277	41	1	1714	45
278	267	51	1	1714	45
279	280	49	1	1714	50
280	281	109	1	1714	50
281	282	32	1	1714	40
282	298	18	1	1714	40
282	301	19	1	1714	50
283	298	51	1	1714	40
283	284	51	1	1714	50
284	283	51	1	1714	50
284	239	65	1	1714	50
285	310	27	1	1714	50
286	287	39	1	1714	50
287	288	60	1	1714	50
288	289	36	1	1714	50
289	338	20	1	1714	50
289	290	40	1	1714	50
290	302	32	1	1714	40
291	292	55	1	1714	50
291	303	20	1	1714	40
292	311	104	1	1714	50
292	291	55	1	1714	50
293	294	41	1	1714	50
294	295	37	1	1714	50
295	296	53	1	1714	50
296	339	44	1	1714	50
297	340	33	1	1714	50
298	283	51	1	1714	50
298	282	18	1	1714	40
298	299	10	1	1200	30
299	300	8	1	1714	50
300	301	13	2	2250	70
300	372	42	2	2250	70
301	300	13	2	2250	70
301	371	71	2	2250	70

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
302	303	13	1	1714	40
302	304	23	1	1714	50
303	305	18	1	1714	50
303	302	13	1	1714	40
303	291	20	1	1714	50
304	369	55	2	2250	70
304	305	33	2	2250	70
305	370	58	2	2250	70
305	304	33	2	2250	70
306	285	34	1	1714	50
307	196	46	1	1895	55
307	308	55	1	1895	55
308	307	55	1	1895	55
308	309	86	1	1895	55
309	317	18	1	1714	50
309	308	86	1	1895	55
309	313	80	1	1895	55
310	286	54	1	1714	50
311	243	22	1	1714	50
311	292	104	1	1714	50
312	316	69	1	1895	55
312	167	40	1	1714	40
313	309	80	1	1895	55
313	314	187	1	1895	55
314	313	187	1	1895	55
314	315	62	1	1895	55
315	314	62	1	1895	55
315	316	97	1	1895	55
316	312	69	1	1895	55
316	315	97	1	1895	55
317	332	42	1	1714	50
318	333	28	1	1714	50
319	320	138	1	1714	50
320	334	25	1	1714	50
321	335	35	1	1714	50
322	324	13	1	1714	50
322	323	13	1	1714	40
323	325	13	1	1714	50
323	326	25	1	1714	50
324	325	19	2	2250	70

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
324	364	95	2	2250	70
325	365	41	2	2250	70
325	324	19	2	2250	70
326	327	63	1	1714	50
327	328	41	1	1714	50
328	329	28	1	1714	50
329	330	32	1	1714	50
330	331	33	1	1714	50
331	809	82	2	1714	45
332	318	101	1	1714	50
333	319	34	1	1714	50
334	321	32	1	1714	50
335	336	25	1	1714	50
336	337	49	1	1714	50
337	322	56	1	1714	40
338	293	61	1	1714	50
339	297	97	1	1714	50
340	341	45	1	1714	50
341	342	49	1	1714	50
342	343	32	1	1714	50
343	344	26	1	1714	50
344	345	70	1	1714	50
345	346	51	1	1714	50
346	347	64	1	1714	50
347	348	44	1	1714	50
348	349	43	1	1714	50
349	350	20	1	1714	50
350	806	51	2	1200	45
350	351	100	2	1714	45
351	350	100	2	1714	45
351	252	60	2	1714	45
352	353	51	1	1895	55
353	354	85	1	1895	55
354	355	63	1	1895	55
355	356	27	1	1895	55
356	357	60	1	1895	55
357	358	50	1	1714	45
358	359	12	1	1714	45
358	361	14	1	1714	50
359	360	13	1	1714	50

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
359	362	64	1	1895	55
360	361	21	2	2250	70
360	364	91	2	2250	70
361	360	21	2	2250	70
361	363	27	2	2250	70
362	810	161	1	1500	40
363	361	27	2	2250	70
364	324	95	2	2250	70
364	360	91	2	2250	70
365	366	117	2	2250	70
365	325	41	2	2250	70
366	367	42	2	2250	70
366	365	117	2	2250	70
367	366	42	2	2250	70
367	368	151	2	2250	70
368	367	151	2	2250	70
368	369	185	2	2250	70
369	304	55	2	2250	70
369	368	185	2	2250	70
370	305	58	2	2250	70
370	371	154	2	2250	70
371	301	71	2	2250	70
371	370	154	2	2250	70
372	300	42	2	2250	70
372	373	189	2	2250	70
373	372	189	2	2250	70
373	374	167	2	2250	70
374	373	167	2	2250	70
374	375	104	2	2250	70
375	374	104	2	2250	70
375	275	73	2	2250	70
376	377	179	2	2250	70
376	274	116	2	2250	70
377	376	179	2	2250	70
377	378	162	2	2250	70
378	377	162	2	2250	70
378	379	56	2	2250	70
379	378	56	2	2250	70
379	385	12	2	2250	70
380	381	10	1	1200	30

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
381	379	8	1	1714	50
382	214	11	1	1714	40
382	213	36	1	1895	55
383	384	12	1	1200	30
384	385	8	1	1714	50
385	379	12	2	2250	70
385	386	177	2	2250	70
386	385	177	2	2250	70
386	387	181	2	2250	70
387	388	106	2	2250	70
387	386	181	2	2250	70
388	387	106	2	2250	70
388	823	41	3	2250	70
389	390	86	1	1714	45
390	391	110	1	1714	45
392	393	24	1	1714	45
392	630	87	1	1714	45
393	392	24	1	1714	45
393	394	75	1	1714	45
393	395	69	1	1714	40
394	822	25	2	1714	45
394	393	75	1	1714	45
396	397	134	1	1895	55
396	167	62	1	1714	40
397	396	134	1	1895	55
397	398	171	1	1895	55
398	397	171	1	1895	55
398	399	145	1	1714	55
399	398	145	1	1895	55
399	400	66	1	1895	55
400	401	65	1	1895	55
400	399	66	1	1714	55
401	400	65	1	1895	55
402	403	47	1	1500	45
402	159	74	1	1500	45
403	404	49	1	1500	45
403	402	47	1	1500	45
404	405	80	1	1500	45
404	403	49	1	1500	45
405	406	56	1	1500	45

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
406	407	63	1	1500	45
407	408	98	1	1500	45
408	409	33	1	1500	45
409	410	31	1	1500	45
410	411	30	1	1500	45
411	412	81	1	1500	45
412	413	31	1	1500	45
413	414	41	1	1500	45
414	415	49	1	1500	45
415	416	45	1	1500	45
416	417	27	1	1500	45
416	421	23	1	1500	45
417	418	31	1	1500	45
418	419	47	1	1500	45
419	420	18	1	1500	45
420	427	37	1	1500	45
420	425	22	1	1500	45
421	422	48	1	1500	45
422	423	113	1	1500	45
424	404	26	1	1500	40
425	426	39	1	1500	45
427	428	14	1	1500	45
428	429	111	1	1500	45
429	430	41	1	1500	45
430	431	75	1	1500	45
431	432	21	1	1500	45
432	433	36	1	1500	45
433	434	22	1	1500	45
434	435	35	1	1500	45
435	436	35	1	1500	45
436	437	41	1	1500	45
437	438	23	1	1500	45
438	439	30	1	1500	45
439	440	112	1	1500	45
440	399	65	1	1500	40
441	165	58	1	1500	40
442	203	19	1	1714	40
443	442	35	1	1895	55
444	443	68	1	1895	55
445	444	52	1	1895	55

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
446	447	15	2	1714	45
446	451	50	2	1714	45
446	828	38	2	1500	40
447	446	15	2	1714	45
447	449	38	2	1714	45
448	449	32	2	1714	45
448	450	84	2	1714	45
449	447	38	2	1714	45
449	448	32	2	1714	45
450	57	18	2	1714	45
450	448	84	2	1714	45
451	138	96	1	1714	45
451	446	50	2	1714	45
452	57	4	1	1714	40
452	453	47	1	1714	40
453	452	47	1	1714	40
453	454	32	1	1714	40
454	453	32	1	1714	40
454	455	61	1	1714	40
455	456	29	1	1714	40
455	454	61	1	1714	40
456	455	29	1	1714	40
456	457	40	2	1500	30
457	456	40	2	1500	30
457	458	13	2	1500	30
458	457	13	2	1500	30
458	459	14	2	1500	30
459	458	14	2	1500	30
459	460	18	2	1500	30
460	461	27	2	1500	30
460	459	18	2	1500	30
461	460	27	2	1500	30
461	462	29	2	1500	30
462	140	14	2	1500	30
462	461	29	2	1500	30
463	138	77	1	1714	45
463	464	66	1	1714	45
463	465	25	1	1895	55
464	140	36	2	1714	45
464	463	66	1	1714	45

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
465	463	25	1	1714	45
465	466	89	1	1895	55
466	465	89	1	1714	45
466	467	94	1	1895	55
467	468	33	1	1895	55
467	466	94	1	1895	55
468	467	33	1	1895	55
468	469	38	1	1895	55
469	470	67	1	1895	55
469	468	38	1	1895	55
470	469	67	1	1895	55
471	169	75	1	1500	40
472	17	17	1	1500	45
473	472	23	1	1500	45
474	473	23	1	1500	45
475	474	116	1	1500	45
476	497	119	1	1500	45
476	477	58	1	1500	45
476	475	41	1	1500	45
477	478	80	1	1500	45
478	479	100	1	1500	45
479	496	112	1	1500	45
479	480	11	1	1500	45
480	481	142	1	1500	45
481	482	75	1	1500	45
482	483	74	1	1500	45
483	484	28	1	1500	45
484	485	76	1	1500	45
485	486	30	1	1500	45
486	487	22	1	1500	45
487	488	45	1	1500	45
488	492	47	1	1500	45
488	489	77	1	1500	45
489	490	88	1	1500	45
490	491	65	1	1500	45
491	495	109	1	1500	45
492	493	125	1	1500	45
493	494	53	1	1500	45
494	46	36	1	1714	45
495	52	51	1	1500	45

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
496	665	30	1	1500	45
497	669	67	1	1500	45
498	499	43	1	1500	40
498	520	23	1	1500	40
499	519	16	1	1500	40
500	505	45	1	1500	40
500	501	18	1	1500	40
501	502	22	1	1500	40
502	503	36	1	1500	40
503	504	99	1	1500	40
504	93	18	1	1500	40
505	506	35	1	1500	40
506	507	38	1	1500	40
507	508	94	1	1500	40
508	96	14	1	1500	45
509	498	25	1	1500	40
510	509	35	1	1500	40
511	516	16	1	1500	40
512	511	40	1	1500	40
513	512	24	1	1500	40
514	513	38	1	1500	40
515	514	48	1	1500	40
516	517	21	1	1500	40
517	518	33	1	1500	40
518	510	40	1	1500	40
519	500	19	1	1500	40
520	521	26	1	1500	40
521	522	24	1	1500	40
522	523	17	1	1500	40
523	524	70	1	1500	40
524	525	29	1	1500	40
525	526	26	1	1500	40
526	527	37	1	1500	40
527	528	46	1	1500	40
528	151	13	1	1500	40
529	527	10	1	1500	40
530	529	16	1	1500	40
531	530	36	1	1500	40
532	539	85	1	1500	40
532	534	45	1	1500	40

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
533	532	42	1	1500	40
534	535	52	1	1500	40
535	536	34	1	1500	40
536	537	68	1	1500	40
537	308	34	1	1500	40
538	536	116	1	1500	40
539	540	98	1	1500	40
540	541	37	1	1500	40
541	542	32	1	1500	40
542	543	32	1	1500	40
543	544	78	1	1500	40
544	545	78	1	1500	40
545	162	55	1	1895	55
546	547	145	1	1714	45
547	548	31	1	1714	45
548	549	57	1	1714	45
549	446	43	1	1500	45
550	53	34	1	1500	45
551	550	14	1	1500	45
551	552	48	1	1500	45
552	553	30	1	1500	45
553	554	26	1	1500	45
554	447	52	1	1500	45
555	469	49	1	1500	45
556	555	45	1	1500	45
557	558	42	1	1500	45
558	559	32	1	1500	45
559	560	45	1	1500	45
560	561	33	1	1500	45
561	556	26	1	1500	45
562	563	61	1	1500	40
562	584	18	1	1500	40
563	564	30	1	1500	40
564	565	25	1	1500	40
565	566	26	1	1500	40
566	567	24	1	1500	40
567	568	38	1	1500	40
568	569	37	1	1500	40
569	570	57	1	1500	40
570	571	47	1	1500	40

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
571	572	21	1	1500	40
572	573	64	1	1500	40
573	574	81	1	1500	40
574	128	39	1	1500	40
575	562	90	1	1500	40
576	575	114	1	1500	40
577	576	19	1	1500	40
578	577	16	1	1500	40
579	578	16	1	1500	40
580	579	23	1	1500	40
581	580	31	1	1500	40
582	581	20	1	1500	40
583	582	48	1	1500	40
584	585	16	1	1500	40
585	586	47	1	1500	40
586	587	41	1	1500	40
587	588	16	1	1500	40
588	589	25	1	1500	40
589	590	30	1	1500	40
590	591	18	1	1500	40
591	592	37	1	1500	40
592	593	22	1	1500	40
593	594	53	1	1500	40
594	102	14	1	1500	40
595	594	90	1	1500	40
596	595	62	1	1500	40
597	596	89	1	1500	40
598	597	139	1	1500	40
599	204	32	1	1714	40
600	599	21	1	1714	40
601	600	48	1	1714	40
602	601	64	1	1714	40
603	207	50	1	1714	40
604	603	41	1	1714	40
605	210	48	1	1895	55
605	211	32	1	1895	55
606	605	59	1	1714	40
607	606	50	1	1714	40
608	607	52	1	1714	40
609	608	49	1	1714	40

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
610	611	45	1	1714	40
610	609	65	1	1714	40
611	620	37	1	1714	40
612	217	34	1	1895	55
612	218	29	1	1714	50
613	612	22	1	1714	40
614	613	35	1	1714	40
615	614	88	1	1714	40
616	615	25	1	1714	40
617	616	53	1	1714	40
618	617	84	1	1714	40
619	618	56	1	1714	40
619	637	27	1	1714	40
620	621	65	1	1714	40
621	622	69	1	1714	40
622	623	31	1	1714	40
623	624	19	1	1714	40
624	625	24	1	1714	40
625	628	30	1	1714	40
625	626	70	1	1714	40
626	627	55	1	1714	40
627	213	48	1	1714	40
628	629	27	1	1714	40
629	615	18	1	1714	40
630	218	63	1	1714	50
630	392	87	1	1714	45
631	630	69	1	1714	40
632	631	68	1	1714	40
633	632	43	1	1714	40
634	633	69	1	1714	40
635	634	41	1	1714	40
636	635	16	1	1714	40
637	636	65	1	1714	40
638	633	33	1	1714	40
639	68	30	1	1500	45
640	639	53	1	1500	45
641	640	32	1	1500	45
642	653	28	1	1500	45
642	641	77	1	1500	45
643	642	29	1	1500	45

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
644	643	77	1	1500	45
645	644	79	1	1500	45
646	649	20	1	1500	45
646	645	91	1	1500	45
647	79	41	1	1500	45
648	647	30	1	1500	45
649	648	78	1	1500	45
650	646	60	1	1500	45
651	650	91	1	1500	45
652	76	75	1	1895	55
652	75	34	1	1895	55
653	652	99	1	1500	45
654	652	89	1	1500	45
655	84	24	1	1895	55
655	85	53	1	1895	55
656	655	54	1	1500	45
657	656	26	1	1500	40
658	657	54	1	1500	40
659	660	74	1	1500	45
659	658	35	1	1500	45
660	661	47	1	1500	45
661	662	51	1	1500	45
662	663	35	1	1500	45
663	71	48	1	1500	45
664	71	106	1	1895	55
665	666	26	1	1500	45
666	667	54	1	1500	45
667	668	41	1	1500	45
668	78	84	1	1500	45
669	670	130	1	1500	45
670	671	63	1	1500	45
671	80	35	1	1500	45
672	673	49	1	1714	40
673	674	61	1	1714	40
674	675	23	1	1714	40
675	676	30	1	1714	40
676	685	62	1	1714	40
677	678	81	1	1714	40
678	679	73	1	1714	40
679	754	51	1	1714	40

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
679	680	120	1	1714	40
680	681	30	1	1714	40
681	682	34	1	1714	40
682	683	38	1	1714	40
683	684	21	1	1500	40
684	234	26	1	1500	40
684	233	32	1	1500	40
685	677	23	1	1714	40
686	227	58	1	1714	45
686	228	47	1	1714	45
687	686	23	1	1714	40
688	687	51	1	1714	40
689	688	20	1	1714	40
690	689	60	1	1714	40
691	690	33	1	1714	40
691	706	33	1	1714	40
692	691	101	1	1714	40
693	692	68	1	1714	40
694	691	70	1	1714	40
695	694	47	1	1714	40
696	695	58	1	1714	40
697	696	44	1	1714	40
698	233	38	1	1500	40
699	698	37	1	1714	40
700	699	34	1	1714	40
700	231	59	1	1714	40
700	701	28	1	1714	40
701	700	28	1	1714	40
701	702	72	1	1714	40
702	703	52	1	1714	40
702	701	72	1	1714	40
702	230	91	1	1714	40
703	702	52	1	1714	40
703	704	31	1	1714	40
704	703	31	1	1714	40
704	705	46	1	1714	40
705	706	55	1	1714	40
705	704	46	1	1714	40
706	705	55	1	1714	40
706	691	33	1	1714	40

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
707	700	48	1	1714	40
708	707	45	1	1714	40
709	222	81	1	1714	40
710	225	61	1	1714	40
710	717	48	1	1714	40
711	710	48	1	1714	40
712	711	44	1	1714	40
713	710	53	1	1714	40
713	817	26	1	1714	40
714	713	17	1	1714	40
715	714	59	1	1714	40
716	715	61	1	1714	40
717	223	116	1	1714	50
717	224	16	1	1714	50
718	719	67	1	1714	50
719	720	47	1	1714	50
721	722	95	1	1714	40
722	723	66	1	1714	40
723	724	70	1	1714	40
724	728	29	1	1714	40
724	788	51	1	1714	40
725	722	56	1	1714	40
725	726	129	1	1714	40
726	725	129	1	1714	40
726	727	92	1	1714	40
727	750	38	1	1714	40
728	729	35	1	1714	40
728	736	31	1	1714	40
729	730	34	1	1714	40
730	731	57	1	1714	40
731	732	59	1	1714	40
732	733	94	1	1714	40
733	734	41	1	1714	40
734	735	63	1	1714	40
735	719	50	1	1714	40
736	728	31	1	1714	40
736	737	71	1	1714	40
737	736	71	1	1714	40
737	738	44	1	1714	40
738	737	44	1	1714	40

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
738	739	98	1	1714	40
739	738	98	1	1714	40
739	740	26	1	1714	40
740	739	26	1	1714	40
740	741	106	1	1714	40
741	744	91	1	1714	40
741	742	46	1	1714	40
741	740	106	1	1714	40
742	743	101	1	1714	40
743	254	110	1	1714	40
744	745	25	1	1714	40
745	746	37	1	1714	40
746	260	36	1	1714	40
747	725	114	1	1714	40
748	747	83	1	1714	40
749	758	52	1	1714	40
749	763	70	1	1714	40
750	751	29	1	1714	40
751	752	44	1	1714	40
751	755	57	1	1714	40
752	753	46	1	1714	40
752	751	44	1	1714	40
753	752	46	1	1714	40
753	754	53	1	1714	40
754	679	51	1	1714	40
754	753	53	1	1714	40
755	776	32	1	1714	40
755	756	35	1	1714	40
756	757	49	1	1714	40
757	749	34	1	1714	40
758	759	35	1	1714	40
759	760	71	1	1714	40
760	739	153	1	1714	40
760	768	99	1	1714	40
761	726	38	1	1714	40
762	761	88	1	1714	40
763	764	38	1	1714	40
764	765	29	1	1714	40
765	766	59	1	1714	40
766	767	98	1	1500	40

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
767	239	55	1	1895	55
767	240	23	1	1895	55
768	769	28	1	1714	40
769	770	18	1	1714	40
770	771	26	1	1714	40
771	772	68	1	1714	40
772	773	35	1	1714	40
773	774	11	1	1714	40
774	775	54	1	1500	40
775	242	51	1	1895	55
775	241	18	1	1895	55
776	777	18	1	1714	40
777	782	79	1	1714	40
777	778	108	1	1714	40
778	779	20	1	1714	40
779	780	99	1	1714	40
780	781	79	1	1714	40
781	234	26	1	1714	40
782	783	88	1	1714	40
783	784	63	1	1714	40
784	785	17	1	1714	40
785	786	11	1	1714	40
786	787	68	1	1714	40
787	239	25	1	1714	50
788	789	34	1	1714	40
789	792	19	1	1714	40
790	791	57	1	1714	40
791	749	101	1	1714	40
792	790	46	1	1714	40
793	794	42	1	1500	40
794	795	95	1	1500	40
794	796	25	1	1500	40
795	354	55	1	1500	40
796	797	66	1	1500	40
797	397	161	1	1500	40
798	93	44	1	1500	40
799	798	78	1	1500	40
800	798	46	1	1500	40
801	800	64	1	1500	40
802	801	47	1	1500	40

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
803	482	84	1	1500	45
804	546	100	1	1714	45
805	69	102	1	1895	55
805	70	92	1	1895	55
806	350	51	2	1714	45
806	807	33	2	1200	45
807	806	33	2	1200	45
807	808	55	2	1200	45
808	809	18	2	1200	45
808	807	55	2	1200	45
809	810	19	2	1500	40
809	808	18	2	1200	45
809	811	30	2	1500	40
810	813	97	2	1200	40
810	809	19	2	1714	45
810	811	29	1	1500	40
811	812	39	2	1500	40
812	814	40	1	1500	40
813	810	97	2	1200	40
815	686	43	1	1714	40
816	815	109	1	1714	40
817	818	32	1	1714	40
818	226	42	1	1714	40
819	226	39	1	1714	40
820	819	23	1	1714	40
821	223	32	2	1714	40
821	222	41	2	1714	40
822	825	28	2	1714	45
822	823	29	1	1714	50
822	394	25	2	1714	45
823	824	25	3	2250	70
823	388	41	3	2250	70
824	823	25	3	2250	70
825	822	28	2	1714	45
825	826	33	2	1714	45
826	825	33	2	1714	45
826	827	32	1	1714	45
827	826	32	1	1714	45
828	829	22	1	1500	40
828	457	58	1	1500	30

Upstream Node Number	Downstream Node Number	Length (miles * 100)	Full Lanes	Saturation Flow Rate (Veh/hr/ln)	Free Flow Speed (MPH)
829	458	43	1	1500	30
829	830	29	1	1500	30
830	459	17	1	1500	30
830	831	18	1	1500	30
831	460	18	1	1500	30
832	833	30	1	1714	40
833	834	18	1	1714	40
834	835	19	1	1714	40
835	836	14	1	1714	40
836	837	12	1	1714	40
837	838	39	1	1714	40
838	839	36	1	1714	40
839	840	23	1	1714	40
840	841	37	1	1714	40
841	471	29	1	1714	40

APPENDIX L

Protective Action Zone Boundaries

APPENDIX L: PROTECTIVE ACTION ZONE BOUNDARIES

Fairfield County:

- PAZ A-0: Bound on the north by an unnamed road between Broad River and Cole Trestle Rd, Cole Trestle Rd, and Monticello Reservoir. Bound on the east by STHY 215/213. Bound on the south by Jenkinsville Rd, and Parr Rd. Bound on the west by Parr Reservoir.
- PAZ A-1: Bound on the north by Dawkins Rd, Fox Glenn Rd, Old Pearson Rd, and Meadowlake Rd. Bound on the east by STHY 215. Bound on the south by Monticello Reservoir, Cole Trestle Rd, and an unnamed road between Broad River Rd and Cole Trestle Rd. Bound on the west by Broad River.
- PAZ A-2: Bound on the north by STHY 34, Old Blair Rd, Buckhead Rd, STHY 215, Harden Rd, Possum Branch Rd, and STHY 34. Bound on the east by Clark Bridge Rd. Bound on the south by Meadowlake Rd, Old Pearson Rd, Fox Glenn Rd, and Dawkins Rd. Bound on the west by Broad River.
- PAZ B-1: Bound on the north by Clark Bridge Rd. Bound on the east by Little River. Bound on the south by STHY 213. Bound on the west by STHY 215.
- PAZ B-2: Bound on the north by Clark Bridge Rd and STHY 34. Bound on the east by Jackson Creek Rd. Bound on the south by Reservoir Rd, Landis Rd, and STHY 213. Bound on the west by Little River.
- PAZ C-1: Bound on the north by STHY 213 and Landis Rd. Bound on the east by Kennedy Rd, Glenss Bridge, STHY 215, Wallaceville Rd, Depot Rd, a line between the end of Depot Rd and approximately -81.257 34.207 decimal degrees on Broad River, Broad River, and Parr Reservoir. Bound on the west by Parr Rd, Jenkinsville Rd, and STHY 213/215.
- PAZ C-2: Bound on the north by Reservoir Rd and an arced line between the intersection of Reservoir Rd and Seibles Rd and a point at approximately -81.108 34.312 decimal degrees on STHY 269. Bound on the east by STHY 269, a line between approximately -81.159 34.218 decimal degrees on Bookman Mills Rd and a point at approximately -81.181 34.219 on Little River, and Little River. Bound on the south by Broad River. Bound on the west by a line between a point at approximately -81.257 34.207 on Broad River and the end of Depot Rd, Depot Rd, Wallaceville Rd, STHY 215, Glenn Bridge Rd, Kennedy Rd, and Landis Rd.

Richland County:

PAZ D-1: Bound on the north and east by Broad River. Bound on the south by Sam Bradshaw Rd, Kennerly Rd, Hopewell Church Rd, Bookie Richardson Rd, and I-26. Bound on then west by the Lexington County boundary line, and the Newberry County boundary line.

Lexington County:

PAZ D-2: Bound on the northwest by the Newberry County boundary line. Bound on the northeast and east by the Richland County boundary line. Bound on the south by USHY 176, Primrose Rd, a line between the intersection of Primrose Rd and Old Lexington Rd and a point at approximately -81.344 34.130 decimal degrees, a line between the point at approximately -81.344 34.130 decimal degrees and a point at approximately -81.349 34.135, a line between the point at approximately -81.349 34.135 decimal degrees and a point at approximately -81.347 34.150, and a line between the point at approximately -81.347 34.150 decimal degrees and a point at approximately -81.347 34.151 decimal degrees. Bound on the west by a line arced outward from the Chapin town boundary line at approximately -81.347 34.151 decimal degrees to a point at approximately -81.360 34.168 decimal degrees on USHY 176, USHY 176, and a line from a point at approximately -81.370 34.176 decimal degrees on USHY 176 and the intersection of Nursery Rd and Sam Koon Rd.

Newberry County:

PAZ E-1: Bound on the north by New Hope Rd, Mud Creek, and Par Reservoir. Bound on the east by Broad River / Fairfield County boundary line, and the Richland County boundary line. Bound on the south and west by USHY 176.

PAZ E-2: Bound on the north by I-26, STHY 773, and USHY 176. Bound on the east by Nursery Rd, a line between the end of Nursery Rd and a point at approximately -81.400 34.189 on Preheris Rd, Preheris Rd, Little Mountain town boundary line, a line between the southern most point of Little Mountain's town boundary line and a point at approximately -81.422 34.186 decimal degrees, a line between the point at approximately -81.422 34.186 decimal degrees and a point at approximately -81.424 34.193 decimal degrees on USHY 76, USHY 76, Mt Pilgrim Church Rd, and Camping Creek. Bound on the west by a line between the intersection of Camping Creek and Candy Kitchen Rd and the intersection of USHY 76 and Old Jolly St, and Old Jolly St.

PAZ F-1: Bound on the north by unnamed road between Broad River Rd and Broad River. Bound on the east by Broad River / Fairfield County boundary line. Bound on the south by Parr Reservoir, Cannons Creek, and Mud Creek. Bound on the west by New Hope Rd.

PAZ F-2: Bound on the north by Mt. Pleasant Rd and STHY 34. Bound on the east by Broad River / Fairfield County boundary line, an unnamed road between Broad River Rd and Broad River, New Hope Rd, and USHY 176. Bound on the south by STHY 773 and I-26. Bound on the west by Bachman Chapel Rd, Saint Phillips Church Rd, Mud Creek Rd, USHY 176, Livingston Rd, Carolina Rd, and Ringer Rd.