

***Final Technical Memorandum***

**US 1 Intracoastal Waterway Corridor  
Hurricane Evacuation Impact Analysis  
for the Mixed Use Commercial (Waterway,  
Commercial and Entertainment) and Inlet Village  
Sectors**

Prepared for

**Town of Jupiter  
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## INTRODUCTION

The Town of Jupiter is proposing changes to their comprehensive plan for sectors along the US 1 Intracoastal Waterway Corridor. Recognizing the importance of quantifying the potential hurricane evacuation impacts of these changes, the Town hired PBS&J to perform the necessary technical analyses. It became clear early in the process that the Town needed an updated analysis and establishment of its current evacuation clearance times based upon roadway improvements and dwelling unit changes that have occurred since the last countywide hurricane study conducted in 1995-1996. This previous study was based upon roadway and dwelling unit assumptions that are now over ten years old.

The study area for this technical work was confined to Jupiter and surrounding areas of Palm Beach County east of the Florida Turnpike. Any areas that would use Indiantown Road and/or Donald Ross Road as hurricane evacuation routes were included in the analysis.

## EXISTING CONDITIONS

To establish baseline hurricane evacuation conditions for the community, PBS&J developed a spreadsheet tool which includes each of the Year 2000 Census tracts (color coded to reflect their relation to evacuation zones) and their associated socioeconomic parameters. The tool allows for the changing/testing of additional permanent, mobile home, and seasonal units in each tract. Year 2000 figures were enhanced with figures from the county showing units given certificates of occupancy between 2000 and February 2003. The baseline numbers also include development potential numbers for the Mixed Use Residential Sector in the corridor. A total of 476 additional units were included in the existing/baseline numbers to reflect the remaining development potential for the Mixed Use Residential Sector.

The spreadsheet tool for the existing conditions is provided in Appendix A and includes the following elements:

- *Socioeconomic sheet* - includes permanent, mobile home, seasonal units, people and vehicles per unit, two levels of seasonal occupancy rates
- *Behavioral Assumptions sheet* - includes assumed participation rates for Category 1-2 and Category 3-5 storms, destination percentages, vehicle usage rates
- *Evacuation People and Vehicle sheet* - includes number of evacuees, public shelter demand, and number of evacuation vehicles by scenario

- *Out Route sheet* - provides assumptions about what percent of each tract is assumed to use various roadway segments for evacuation
- *Evacuation Vehicles by Critical Roadway Segment sheet* - includes estimated number of evacuating vehicles by roadway segment and an estimate of the hourly number of evacuating vehicles that segment can handle
- *Clearance Time sheet* - shows calculation of times for each scenario and two rates of behavioral response/traffic loading

The spreadsheet tool for the existing situation shows that local clearance times for the Jupiter area are 5.5 to 8.5 hours for a category 1-2 hurricane depending upon seasonal occupancy and behavioral response rate, and 8.0 to 9.2 hours for a category 3-5 hurricane. Clearance times calculated for the November 1996 report entitled *Final Study Report—Palm Beach County Supplemental Emergency Transportation Planning Analysis*, indicated times for a category 3-5 hurricane in the 9 to 17 hour range. The area is one of the few places in the coastal United States that has enjoyed a significant drop in clearance times over the last ten years. This is due to major widening improvements to Indiantown Road and Donald Ross Road since the last hurricane evacuation study was conducted.

The Town should take these times into account in establishing a clearance time policy standard for the community. The Town should also consult with the County Division of Emergency Management, the National Hurricane Center and other forecast experts about certain time thresholds for decision making. A twelve hour clearance time policy may be a good starting point for discussion. If adopted, this would mean that all future development in the area would be managed so that there is not an increase in the local evacuation clearance time above that benchmark.

### **MIXED USE COMMERCIAL SECTOR**

The proposed change in this sector will result in 140 additional permanent dwelling units and 76 additional seasonal units. These fall within a category 1-2 hurricane evacuation zone in Palm Beach County. These zones are shown in Figure 2-2 on page 2-4 of the November 1996 report entitled *Final Study Report—Palm Beach County Supplemental Emergency Transportation Planning Analysis* prepared by PBS&J for the Palm Beach County Metropolitan Planning Organization and the Department of Public Safety/Division of Emergency Management. PBS&J is currently updating the hurricane evacuation transportation data for the US Army Corps of Engineers, Jacksonville District. Since the project falls within the Category 1 evacuation area, by state statute

definition it is within the coastal high hazard area.

Given the location of the project in the Jupiter area of Palm Beach County, the project will contribute evacuation traffic primarily to Indiantown Road. Using the socioeconomic and behavioral assumptions mentioned above and shown in Appendix A, the proposed development will add a total of 194 evacuating vehicles in a low seasonal occupancy scenario (includes all of the project's permanent residents and 35% of the seasonal residents) and 244 evacuating vehicles in a high seasonal occupancy scenario (includes all of the project's permanent residents and 95% of the seasonal residents) to the area's evacuation routes over the entire evacuation. In actuality, it is anticipated for this development change, that seasonal occupancy during the peak hurricane season could be much less than the 35%/95% (low/high) levels as seasonal residents typically either leave the area well in advance of an evacuation or don't come to the area at all. In that regard, estimates of evacuating vehicles described above should be on the high side of reality.

Clearance times with the Mixed Use Commercial Sector change do not increase the existing times for a category 1-2 hurricane. Times are still 5.5 to 8.5 hours depending upon seasonal occupancy and behavioral response rate. This is because excess roadway capacity during each hour of the behavioral response is more than adequate to handle the additional vehicles. Times increase minimally for a category 3-5 hurricane with times ranging from 8.1 to 9.3 hours. This represents a 0.1 hour increase for each tested scenario.

All hurricane evacuation calculations associated with the Mixed Use Commercial Sector are included in Appendix B.

### INLET VILLAGE SECTOR

The proposed change in this sector will result in 148 additional permanent dwelling units and 79 additional seasonal units. These fall within a category 1-2 hurricane evacuation zone in Palm Beach County. These zones are shown in Figure 2-2 on page 2-4 of the November 1996 report entitled Final Study Report—Palm Beach County Supplemental Emergency Transportation Planning Analysis prepared by PBS&J for the Palm Beach County Metropolitan Planning Organization and the Department of Public Safety/Division of Emergency Management. PBS&J is currently updating the hurricane evacuation transportation data for the US Army Corps of Engineers, Jacksonville District. Since the project falls within the Category 1 evacuation area, by state statute definition it is within the coastal high hazard area.

Given the location of the project in the Jupiter area of Palm Beach County, the project will contribute evacuation traffic primarily to Indiantown Road. Using the socioeconomic and behavioral assumptions mentioned above and shown in Appendix A, the proposed development will add a total of 205 evacuating

vehicles in a low seasonal occupancy scenario (includes all of the project's permanent residents and 35% of the seasonal residents) and 256 evacuating vehicles in a high seasonal occupancy scenario (includes all of the project's permanent residents and 95% of the seasonal residents) to the area's evacuation routes over the entire evacuation. In actuality, it is anticipated for this development change, that seasonal occupancy during the peak hurricane season could be much less than the 35%/95% (low/high) levels as seasonal residents typically either leave the area well in advance of an evacuation or don't come to the area at all. In that regard, estimates of evacuating vehicles described above should be on the high side of reality.

Clearance times with the Inlet Village Sector (just as with the Mixed Use Commercial Sector), do not increase the existing times for a category 1-2 hurricane. Times are still 5.5 to 8.5 hours depending upon seasonal occupancy and behavioral response rate. This is because excess roadway capacity during each hour of the behavioral response is more than adequate to handle the additional vehicles. Times increase minimally for a category 3-5 hurricane with times ranging from 8.1 to 9.3 hours. This represents a 0.1 hour increase for each tested scenario.

All hurricane evacuation calculations associated with the Inlet Village Sector are included in Appendix C.

A final clearance time run was accomplished where both the Mixed Use Commercial and Inlet Village Sectors were included. Clearance times with both sectors included, do not increase the existing times for a category 1-2 hurricane (Appendix D). Times are still 5.5 to 8.5 hours depending upon seasonal occupancy and behavioral response rate. This is because excess roadway capacity during each hour of the behavioral response is more than adequate to handle the additional vehicles. Times increase minimally for a category 3-5 hurricane with times ranging from 8.2 to 9.4 hours. This represents a 0.2 hour increase for each tested scenario.

## **Appendix A**

### **Existing Conditions—Hurricane Evacuation Spreadsheet Model**

**Town of Jupiter Area**  
**SOCIOECONOMIC DATA - 2003 Baseline**  
 US 1 Intracoastal Waterway Corridor Hurricane Evac Impact Analysis

| Census Tract                                               | Permanent Occupied Units | Change in Perm. Occupied Units | Mobile Home Units | Change in Mobile Home Units | Seasonal Tourist Units | Change in Tourist Units | People Per Permanent Unit | People Per Mobile Home Unit | People Per Tourist Unit | Vehicles Per Permanent Unit | Vehicles Per Mobile Home Unit | Vehicles Per Tourist Unit | Low Occupancy Tourist | High Occupancy Tourist |
|------------------------------------------------------------|--------------------------|--------------------------------|-------------------|-----------------------------|------------------------|-------------------------|---------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------------|---------------------------|-----------------------|------------------------|
| 1.02 (part) Jupiter Island/Jupiter Inlet Beh Colony        | 303                      | 0                              | 0                 | 0                           | 375                    | 0                       | 1.87                      | 1.87                        | 2.5                     | 1.46                        | 1.46                          | 1.1                       | 35%                   | 95%                    |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 3,270                    | 0                              | 206               | 0                           | 1,423                  | 0                       | 1.76                      | 1.76                        | 2.5                     | 1.47                        | 1.47                          | 1.1                       | 35%                   | 95%                    |
| 4.03 Jupiter/Juno Beh (e of ICW/n of D Ross Rd)            | 2,838                    | 0                              | 260               | 0                           | 952                    | 0                       | 1.92                      | 1.92                        | 2.5                     | 1.52                        | 1.52                          | 1.1                       | 35%                   | 95%                    |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 2,979                    | 0                              | 7                 | 0                           | 123                    | 0                       | 2.35                      | 2.35                        | 2.5                     | 1.65                        | 1.65                          | 1.05                      | 35%                   | 95%                    |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 1,000                    | 0                              | 0                 | 0                           | 100                    | 0                       | 1.87                      | 1.87                        | 2.5                     | 1.46                        | 1.46                          | 1.05                      | 35%                   | 95%                    |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             | 2,043                    | 0                              | 9                 | 0                           | 80                     | 0                       | 2.53                      | 2.53                        | 2.5                     | 1.67                        | 1.67                          | 1.05                      | 35%                   | 95%                    |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 1,420                    | 0                              | 0                 | 0                           | 75                     | 0                       | 2.43                      | 2.43                        | 2.5                     | 1.66                        | 1.66                          | 1.05                      | 35%                   | 95%                    |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA!A/e of Milt Trl)     | 1,207                    | 0                              | 0                 | 0                           | 70                     | 0                       | 2.54                      | 2.54                        | 2.5                     | 1.53                        | 1.53                          | 1.05                      | 35%                   | 95%                    |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 2,259                    | 0                              | 102               | 0                           | 138                    | 0                       | 2.37                      | 2.37                        | 2.5                     | 1.66                        | 1.66                          | 1.05                      | 35%                   | 95%                    |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 500                      | 0                              | 0                 | 0                           | 24                     | 0                       | 2.79                      | 2.79                        | 2.5                     | 1.85                        | 1.85                          | 1.05                      | 35%                   | 95%                    |
| 2.11 Loxahatchee River Rd area                             | 1,391                    | 0                              | 0                 | 0                           | 9                      | 0                       | 3.08                      | 3.08                        | 2.5                     | 2.25                        | 2.25                          | 1.05                      | 35%                   | 95%                    |
| 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          | 1,632                    | 0                              | 0                 | 0                           | 694                    | 0                       | 2.06                      | 2.06                        | 2.5                     | 1.81                        | 1.81                          | 1.05                      | 35%                   | 95%                    |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 851                      | 0                              | 0                 | 0                           | 0                      | 0                       | 2.79                      | 2.79                        | 2.5                     | 1.85                        | 1.85                          | 1.02                      | 35%                   | 95%                    |
| 2.12 Jupiter southwest inland area                         | 1,885                    | 0                              | 0                 | 0                           | 25                     | 0                       | 2.92                      | 2.92                        | 2.5                     | 1.90                        | 1.90                          | 1.02                      | 35%                   | 95%                    |
| 2.13 Jupiter Indian Crk inland area                        | 1,307                    | 0                              | 0                 | 0                           | 151                    | 0                       | 1.92                      | 1.92                        | 2.5                     | 1.23                        | 1.23                          | 1.02                      | 35%                   | 95%                    |
| 4.02 Juno Beh/Juno Isles s of D Ross Rd e of ICW           | 1,902                    | 0                              | 0                 | 0                           | 453                    | 0                       | 1.98                      | 1.98                        | 2.5                     | 1.43                        | 1.43                          | 1.1                       | 35%                   | 95%                    |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 500                      | 0                              | 0                 | 0                           | 100                    | 0                       | 2.33                      | 2.33                        | 2.5                     | 1.90                        | 1.90                          | 1.05                      | 35%                   | 95%                    |
| 3.03 Frenchman's Creek and The Sanctuary                   | 1,379                    | 0                              | 0                 | 0                           | 128                    | 0                       | 2.33                      | 2.33                        | 2.5                     | 1.90                        | 1.90                          | 1.02                      | 35%                   | 95%                    |
| Total                                                      | 28,666                   | 0                              | 584               | 0                           | 4,920                  |                         |                           |                             |                         |                             |                               |                           |                       |                        |

- Category 1-2 Evacuation Zones
- Category 3-5 Evacuation Zones
- Inland Evacuation Zone (Mobile Homes Only)

Please Note: Baseline socioeconomic data is based upon the 2000 Census, units along the ICW Corridor which received a Certificate of Occupancy between 2000 and Feb 2003, and units associated with the 53.3 acre Mixed-use Residential Sector

**Town of Jupiter Area  
BEHAVIORAL DATA**

US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Census Tract                                               | Participation Rates   |                       |                       |                       |                       |                       | Permanent Resident Destination Percentages |                 |                     |                     |                 |                 |                 |                 | Vehicle Usage      |                    |
|------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------------------------------|-----------------|---------------------|---------------------|-----------------|-----------------|-----------------|-----------------|--------------------|--------------------|
|                                                            | Cat 1-2<br>Part. Rate | Cat 1-2<br>Part. Rate | Cat 1-2<br>Part. Rate | Cat 3-5<br>Part. Rate | Cat 3-5<br>Part. Rate | Cat 3-5<br>Part. Rate | Cat 1-2<br>% to                            | Cat 3-5<br>% to | Cat 1-2<br>% Out of | Cat 3-5<br>% Out of | Cat 1-2<br>% to | Cat 3-5<br>% to | Cat 1-2<br>% to | Cat 3-5<br>% to | Vehicle<br>Usage % | Vehicle<br>Usage % |
|                                                            | Perm. Units           | MH Units              | Tour. Units           | Perm. Units           | MH Units              | Tour. Units           | Pub. Shelt.                                | Pub. Shelt.     | County              | County              | Local Res.      | Local Res.      | Hotel           | Hotel           | Perm. & MH         | Tourist            |
| 1.02 (part) Jupiter Island/Jupiter Inlet Bch Colony        | 100%                  | 100%                  | 100%                  | 100%                  | 100%                  | 100%                  | 3%                                         | 3%              | 40%                 | 60%                 | 52%             | 32%             | 5%              | 5%              | 80%                | 100%               |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 100%                  | 100%                  | 100%                  | 100%                  | 100%                  | 100%                  | 3%                                         | 3%              | 40%                 | 60%                 | 52%             | 32%             | 5%              | 5%              | 80%                | 100%               |
| 4.03 Jupiter/Juno Bch (e of ICW/n of D Ross Rd)            | 100%                  | 100%                  | 100%                  | 100%                  | 100%                  | 100%                  | 3%                                         | 3%              | 40%                 | 60%                 | 52%             | 32%             | 5%              | 5%              | 80%                | 100%               |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA!A/e of Milt Trl)     | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 2.11 Loxahatchee River Rd area                             | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 0%                    | 70%                   | 50%                   | 3%                    | 100%                  | 100%                  | 10%                                        | 10%             | 20%                 | 40%                 | 65%             | 45%             | 5%              | 5%              | 70%                | 100%               |
| 2.12 Jupiter southwest inland area                         | 0%                    | 70%                   | 50%                   | 3%                    | 100%                  | 100%                  | 10%                                        | 10%             | 20%                 | 40%                 | 65%             | 45%             | 5%              | 5%              | 70%                | 100%               |
| 2.13 Jupiter Indian Crk inland area                        | 0%                    | 70%                   | 50%                   | 3%                    | 100%                  | 100%                  | 10%                                        | 10%             | 20%                 | 40%                 | 65%             | 45%             | 5%              | 5%              | 70%                | 100%               |
| 4.02 Juno Bch/Juno Isles s of D Ross Rd e of ICW           | 100%                  | 100%                  | 50%                   | 100%                  | 100%                  | 100%                  | 3%                                         | 3%              | 40%                 | 60%                 | 52%             | 32%             | 5%              | 5%              | 80%                | 100%               |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 1%                    | 70%                   | 50%                   | 100%                  | 100%                  | 100%                  | 5%                                         | 5%              | 30%                 | 50%                 | 60%             | 40%             | 5%              | 5%              | 70%                | 100%               |
| 3.03 Frenchman's Creek and The Sanctuary                   | 0%                    | 70%                   | 50%                   | 3%                    | 100%                  | 100%                  | 10%                                        | 10%             | 20%                 | 40%                 | 65%             | 45%             | 5%              | 5%              | 70%                | 100%               |



Category 1-2 Evacuation Zones



Category 3-4 Evacuation Zones



Inland Evacuation Zone (Mobile Homes Only)

**Town of Jupiter Area  
BEHAVIORAL DATA**

US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Tourist Destination Percentages      |                                      |                                     |                                     | Census Tract                                               |
|--------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------------------|
| Cat 1-2<br>Percent to<br>Pub. Shelt. | Cat 3-5<br>Percent to<br>Pub. Shelt. | Cat 1-2<br>Percent<br>Out of County | Cat 3-5<br>Percent<br>Out of County |                                                            |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 1.02 (part) Jupiter Island/Jupiter Inlet Beh Colony        |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 4.04 Jupiter (e of ICW/thru Olympus)                       |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 4.03 Jupiter/Juno Beh (e of ICW/n of D Ross Rd)            |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.05 Jupiter(s of Indtwn Rd/w of AltA!A/e of Milt Trl)     |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.11 Loxahatchee River Rd area                             |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.10(part) Shores of Jup/w of Limestone Crk Rd             |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.12 Jupiter southwest inland area                         |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 2.13 Jupiter Indian Crk inland area                        |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 4.02 Juno Beh/Juno Isles s of D Ross Rd e of ICW           |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    |
| 1%                                   | 1%                                   | 99%                                 | 99%                                 | 3.03 Frenchman's Creek and The Sanctuary                   |



Category 1-2 Evacuation Zones



Category 3-5 Evacuation Zones



Inland Evacuation Zone (Mobile Homes Only)

**Town of Jupiter Area**  
**EVACUATION PEOPLE AND VEHICLE STATISTICS - 2003 Baseline**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Census Tract                                               | Evacuating People              |                                 |                                |                                 | Local Public Shelter Demand(People) |                                     |                                    |                                     | Evacuating Vehicles            |                                 |                                |                                 | Evac Vehicles to Public Shelter             |                                              |                                             |                                              |
|------------------------------------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|
|                                                            | Cat 1-2<br>Evac Pop<br>Low Occ | Cat 1-2<br>Evac Pop<br>High Occ | Cat 3-5<br>Evac Pop<br>Low Occ | Cat 3-5<br>Evac Pop<br>High Occ | Cat 1-2<br>PS<br>Demand<br>Low Occ  | Cat 1-2<br>PS<br>Demand<br>High Occ | Cat 3-5<br>PS<br>Demand<br>Low Occ | Cat 3-5<br>PS<br>Demand<br>High Occ | Cat 1-2<br>Evac Veh<br>Low Occ | Cat 1-2<br>Evac Veh<br>High Occ | Cat 3-5<br>Evac Veh<br>Low Occ | Cat 3-5<br>Evac Veh<br>High Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>Low Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>High Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>Low Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>High Occ |
| 1.02 (part) Jupiter Island/Jupiter Inlet Bch Colony        | 895                            | 1,457                           | 895                            | 1,457                           | 20                                  | 26                                  | 20                                 | 26                                  | 498                            | 746                             | 498                            | 746                             | 12                                          | 15                                           | 12                                          | 15                                           |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 7,000                          | 9,135                           | 7,000                          | 9,135                           | 185                                 | 206                                 | 185                                | 206                                 | 4393                           | 5,333                           | 4,393                          | 5,333                           | 121                                         | 130                                          | 121                                         | 130                                          |
| 4.03 Jupiter/Juno Bch (e of ICW/n of D Ross Rd)            | 6282                           | 7710                            | 6282                           | 7710                            | 172                                 | 186                                 | 172                                | 186                                 | 3818                           | 4446                            | 3818                           | 4446                            | 107                                         | 113                                          | 107                                         | 113                                          |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 135                            | 227                             | 7108                           | 7293                            | 5                                   | 6                                   | 351                                | 353                                 | 63                             | 101                             | 3486                           | 3563                            | 2                                           | 3                                            | 172                                         | 173                                          |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 62                             | 137                             | 1958                           | 2108                            | 1                                   | 2                                   | 94                                 | 96                                  | 29                             | 60                              | 1059                           | 1122                            | 1                                           | 1                                            | 51                                          | 52                                           |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             | 102                            | 162                             | 5239                           | 5359                            | 4                                   | 4                                   | 259                                | 260                                 | 46                             | 71                              | 2418                           | 2468                            | 2                                           | 2                                            | 120                                         | 120                                          |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 67                             | 124                             | 3516                           | 3629                            | 2                                   | 3                                   | 173                                | 174                                 | 30                             | 54                              | 1678                           | 1725                            | 1                                           | 1                                            | 83                                          | 83                                           |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA!A/e of Milt Trl)     | 61                             | 114                             | 3127                           | 3232                            | 2                                   | 2                                   | 154                                | 155                                 | 26                             | 48                              | 1318                           | 1363                            | 1                                           | 1                                            | 65                                          | 65                                           |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 281                            | 384                             | 5475                           | 5682                            | 12                                  | 13                                  | 269                                | 271                                 | 133                            | 177                             | 2676                           | 2763                            | 6                                           | 6                                            | 132                                         | 133                                          |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 24                             | 42                              | 1416                           | 1452                            | 1                                   | 1                                   | 70                                 | 70                                  | 11                             | 18                              | 656                            | 671                             | 0                                           | 0                                            | 32                                          | 33                                           |
| 2.11 Loxahatchee River Rd area                             | 47                             | 54                              | 4292                           | 4306                            | 2                                   | 2                                   | 214                                | 214                                 | 24                             | 26                              | 2194                           | 2200                            | 1                                           | 1                                            | 110                                         | 110                                          |
| 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          | 337                            | 858                             | 3969                           | 5010                            | 5                                   | 10                                  | 174                                | 185                                 | 148                            | 367                             | 2323                           | 2760                            | 2                                           | 4                                            | 106                                         | 110                                          |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 0                              | 0                               | 71                             | 71                              | 0                                   | 0                                   | 7                                  | 7                                   | 0                              | 0                               | 33                             | 33                              | 0                                           | 0                                            | 3                                           | 3                                            |
| 2.12 Jupiter southwest inland area                         | 11                             | 30                              | 187                            | 225                             | 0                                   | 0                                   | 17                                 | 17                                  | 4                              | 12                              | 84                             | 99                              | 0                                           | 0                                            | 8                                           | 8                                            |
| 2.13 Jupiter Indian Crk inland area                        | 66                             | 179                             | 207                            | 434                             | 1                                   | 2                                   | 9                                  | 11                                  | 27                             | 73                              | 88                             | 180                             | 0                                           | 1                                            | 4                                           | 5                                            |
| 4.02 Juno Bch/Juno Isles s of D Ross Rd e of ICW           | 3964                           | 4304                            | 4162                           | 4842                            | 115                                 | 118                                 | 117                                | 124                                 | 2263                           | 2413                            | 2350                           | 2649                            | 66                                          | 68                                           | 67                                          | 70                                           |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 55                             | 130                             | 1253                           | 1403                            | 1                                   | 2                                   | 59                                 | 61                                  | 25                             | 57                              | 702                            | 765                             | 1                                           | 1                                            | 34                                          | 34                                           |
| 3.03 Frenchman's Creek and The Sanctuary                   | 56                             | 152                             | 208                            | 400                             | 1                                   | 2                                   | 11                                 | 13                                  | 23                             | 62                              | 101                            | 179                             | 0                                           | 1                                            | 6                                           | 7                                            |
| <b>Total</b>                                               | <b>19445</b>                   | <b>25199</b>                    | <b>56365</b>                   | <b>63748</b>                    | <b>529</b>                          | <b>585</b>                          | <b>2355</b>                        | <b>2429</b>                         | <b>11561</b>                   | <b>14064</b>                    | <b>29875</b>                   | <b>33065</b>                    | <b>323</b>                                  | <b>348</b>                                   | <b>1233</b>                                 | <b>1264</b>                                  |



Category 1-2 Evacuation Zones



Category 3-5 Evacuation Zones



Inland Evacuation Zone (Mobile Homes Only)

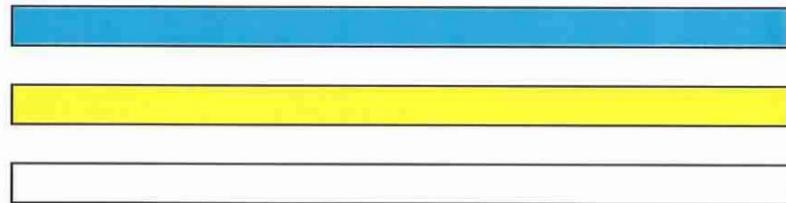
**Town of Jupiter Area**  
**EVACUATION PEOPLE AND VEHICLE STATISTICS - 2003 Baseline**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Evac Vehicles to Friends and Relatives Homes |                                              |                                             |                                              | Evac Vehicles to Local Hotels and Motels    |                                              |                                             |                                              | Evac Vehicles to Out of County              |                                              |                                             |                                              |
|----------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|
| Cat 1-2<br>Vehicle<br>Scenario A<br>Low Occ  | Cat 1-2<br>Vehicle<br>Scenario A<br>High Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>Low Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>High Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>Low Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>High Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>Low Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>High Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>Low Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>High Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>Low Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>High Occ |
| 184                                          | 184                                          | 113                                         | 113                                          | 18                                          | 18                                           | 18                                          | 18                                           | 284                                         | 530                                          | 355                                         | 600                                          |
| 2000                                         | 2,000                                        | 1,231                                       | 1,231                                        | 192                                         | 192                                          | 192                                         | 192                                          | 2081                                        | 3,010                                        | 2,850                                       | 3779                                         |
| 1795                                         | 1795                                         | 1104                                        | 1104                                         | 173                                         | 173                                          | 173                                         | 173                                          | 1743                                        | 2365                                         | 2433                                        | 3055                                         |
| 24                                           | 24                                           | 1376                                        | 1376                                         | 2                                           | 2                                            | 172                                         | 172                                          | 34                                          | 73                                           | 1765                                        | 1842                                         |
| 6                                            | 6                                            | 409                                         | 409                                          | 1                                           | 1                                            | 51                                          | 51                                           | 21                                          | 52                                           | 547                                         | 610                                          |
| 19                                           | 19                                           | 955                                         | 955                                          | 2                                           | 2                                            | 119                                         | 119                                          | 24                                          | 49                                           | 1223                                        | 1273                                         |
| 10                                           | 10                                           | 660                                         | 660                                          | 1                                           | 1                                            | 83                                          | 83                                           | 19                                          | 42                                           | 852                                         | 899                                          |
| 8                                            | 8                                            | 517                                         | 517                                          | 1                                           | 1                                            | 65                                          | 65                                           | 17                                          | 38                                           | 672                                         | 715                                          |
| 65                                           | 65                                           | 1050                                        | 1050                                         | 5                                           | 5                                            | 131                                         | 131                                          | 58                                          | 101                                          | 1363                                        | 1449                                         |
| 4                                            | 4                                            | 259                                         | 259                                          | 0                                           | 0                                            | 32                                          | 32                                           | 6                                           | 14                                           | 332                                         | 347                                          |
| 13                                           | 13                                           | 876                                         | 876                                          | 1                                           | 1                                            | 110                                         | 110                                          | 8                                           | 11                                           | 1099                                        | 1104                                         |
| 12                                           | 12                                           | 827                                         | 827                                          | 1                                           | 1                                            | 103                                         | 103                                          | 132                                         | 349                                          | 1286                                        | 1719                                         |
| 0                                            | 0                                            | 15                                          | 15                                           | 0                                           | 0                                            | 2                                           | 2                                            | 0                                           | 0                                            | 13                                          | 13                                           |
| 0                                            | 0                                            | 34                                          | 34                                           | 0                                           | 0                                            | 4                                           | 4                                            | 4                                           | 12                                           | 39                                          | 54                                           |
| 0                                            | 0                                            | 15                                          | 15                                           | 0                                           | 0                                            | 2                                           | 2                                            | 27                                          | 72                                           | 67                                          | 158                                          |
| 1131                                         | 1131                                         | 696                                         | 696                                          | 109                                         | 109                                          | 109                                         | 109                                          | 957                                         | 1105                                         | 1478                                        | 1774                                         |
| 4                                            | 4                                            | 266                                         | 266                                          | 0                                           | 0                                            | 33                                          | 33                                           | 20                                          | 51                                           | 369                                         | 431                                          |
| 0                                            | 0                                            | 25                                          | 25                                           | 0                                           | 0                                            | 3                                           | 3                                            | 23                                          | 61                                           | 67                                          | 145                                          |
| 5275                                         | 5275                                         | 10428                                       | 10428                                        | 506                                         | 506                                          | 1402                                        | 1402                                         | 5458                                        | 7935                                         | 16810                                       | 19967                                        |



**Town of Jupiter Area**  
**PERCENT OF EVACUATING VEHICLES USING SPECIFIC ROUTES BY TRACT**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Census Tract                                               | Westbound Indiantown Rd |                |                        |                          |                           |                      |                          | Donald Ross Rd |
|------------------------------------------------------------|-------------------------|----------------|------------------------|--------------------------|---------------------------|----------------------|--------------------------|----------------|
|                                                            | A1A to US1              | US1 to Alt A1A | Alt A1A to Military Tr | Military Tr to Center St | Center St to Central Blvd | Central Blvd to I-95 | I-95 to Florida Turnpike |                |
| 1.02 (part) Jupiter Island/Jupiter Inlet Beh Colony        | 0                       | 0.7            | 0.65                   | 0.55                     | 0.55                      | 0.5                  | 0.25                     | 0              |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 0.7                     | 0.95           | 0.9                    | 0.8                      | 0.75                      | 0.7                  | 0.4                      | 0              |
| 4.03 Jupiter/Juno Beh (e of ICW/n of D Ross Rd)            | 0                       | 0.05           | 0.05                   | 0.05                     | 0.02                      | 0.02                 | 0                        | 0.95           |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 0                       | 0              | 0.4                    | 0.35                     | 0.35                      | 0.3                  | 0.15                     | 0              |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 0                       | 0.7            | 0.65                   | 0.55                     | 0.55                      | 0.5                  | 0.25                     | 0              |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA1A)             | 0                       | 0              | 0.4                    | 0.35                     | 0.75                      | 0.65                 | 0.45                     | 0              |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 0                       | 0              | 0                      | 0.75                     | 0.7                       | 0.65                 | 0.45                     | 0              |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA1A/e of Milt Trl)     | 0                       | 0              | 0.6                    | 0.5                      | 0.45                      | 0.45                 | 0.3                      | 0.35           |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 0                       | 0              | 0                      | 0.6                      | 0.5                       | 0.45                 | 0.3                      | 0.2            |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 0                       | 0              | 0                      | 0                        | 0                         | 0.7                  | 0.45                     | 0              |
| 2.11 Loxahatchee River Rd area                             | 0                       | 0              | 0                      | 0                        | 0.6                       | 0.55                 | 0.35                     | 0              |
| 3.01 Jupiter/Paradise Port (e of AltA1A/w of ICW)          | 0                       | 0.5            | 0.45                   | 0.4                      | 0.4                       | 0.4                  | 0.2                      | 0.5            |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 0                       | 0              | 0                      | 0                        | 0                         | 0.7                  | 0.45                     | 0              |
| 2.12 Jupiter southwest inland area                         | 0                       | 0              | 0                      | 0                        | 0                         | 0.05                 | 0.02                     | 0.95           |
| 2.13 Jupiter Indian Crk inland area                        | 0                       | 0              | 0                      | 0                        | 0                         | 0.7                  | 0.45                     | 0              |
| 4.02 Juno Beh/Juno Isles s of D Ross Rd e of ICW           | 0                       | 0              | 0                      | 0                        | 0                         | 0                    | 0                        | 1              |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 0                       | 0              | 0                      | 0                        | 0                         | 0                    | 0                        | 1              |
| 3.03 Frenchman's Creek and The Sanctuary                   | 0                       | 0              | 0                      | 0                        | 0                         | 0                    | 0                        | 1              |



Category 1-2 Evacuation Zones

Category 3-5 Evacuation Zones

Inland Evacuation Zone (Mobile Homes Only)

**Town of Jupiter Area**  
**EVACUATING VEHICLES BY CRITICAL ROADWAY SEGMENT - 2003 Baseline**  
**US 1 Intracoastal Waterway Corridor Hurricane Evac Impact Analysis**

| Evacuation Roadway Segment             | Evacuation Service Volume<br>Veh per hr | Cat 1-2 |          | Change          |                   | New     |          | Cat 1-2         |                   | Change  |          | New             |                   | Cat 3-5 |          | Change          |                   | New     |          |
|----------------------------------------|-----------------------------------------|---------|----------|-----------------|-------------------|---------|----------|-----------------|-------------------|---------|----------|-----------------|-------------------|---------|----------|-----------------|-------------------|---------|----------|
|                                        |                                         | Low Occ | High Occ | From Base Model | To High Occ Model | Low Occ | High Occ | From Base Model | To High Occ Model | Low Occ | High Occ | From Base Model | To High Occ Model | Low Occ | High Occ | From Base Model | To High Occ Model | Low Occ | High Occ |
| Indiantown from A1A to US1             | 1360                                    | 3075    | 3733     | 0               | 0                 | 3075    | 3733     | 3075            | 3733              | 0       | 0        | 3075            | 3733              | 3075    | 3733     | 0               | 0                 | 3075    | 3733     |
| Indiantown from US1 to Alt A1A         | 2110                                    | 4807    | 6036     | 0               | 0                 | 4807    | 6036     | 6616            | 7976              | 0       | 0        | 6616            | 7976              | 6616    | 7976     | 0               | 0                 | 6616    | 7976     |
| Indiantown from Alt A1A to Military Tr | 2110                                    | 4613    | 5809     | 0               | 0                 | 4613    | 5809     | 9354            | 10708             | 0       | 0        | 9354            | 10708             | 9354    | 10708    | 0               | 0                 | 9354    | 10708    |
| Indiantown from Military Tr to Cntr St | 2110                                    | 4208    | 5310     | 0               | 0                 | 4208    | 5310     | 11080           | 12364             | 0       | 0        | 11080           | 12364             | 11080   | 12364    | 0               | 0                 | 11080   | 12364    |
| Indiantown from Cntr St to Cent Blvd   | 2110                                    | 3890    | 4931     | 0               | 0                 | 3890    | 4931     | 12612           | 13840             | 0       | 0        | 12612           | 13840             | 12612   | 13840    | 0               | 0                 | 12612   | 13840    |
| Indiantown from Cent Blvd to I-95      | 2110                                    | 3654    | 4663     | 0               | 0                 | 3654    | 4663     | 12119           | 13345             | 0       | 0        | 12119           | 13345             | 12119   | 13345    | 0               | 0                 | 12119   | 13345    |
| Indiantown from I-95 to Fla Tmpk       | 2110                                    | 2035    | 2597     | 0               | 0                 | 2035    | 2597     | 7295            | 7981              | 0       | 0        | 7295            | 7981              | 7295    | 7981     | 0               | 0                 | 7295    | 7981     |
| Donald Ross Rd                         | 1810                                    | 6052    | 7003     | 0               | 0                 | 6052    | 7003     | 9018            | 10320             | 0       | 0        | 9018            | 10320             | 9018    | 10320    | 0               | 0                 | 9018    | 10320    |

**Town of Jupiter Area**  
**CLEARANCE TIME SUMMARY (in hours to clear all evacuees) - 2003 Baseline**  
*Us 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis*

Actual Total Clearance Times

| Rapidity of Behavioral Response | Cat 1-2 Low Occupancy | Cat 1-2 High Occupancy | Cat 3-5 Low Occupancy | Cat 3-5 High Occupancy |
|---------------------------------|-----------------------|------------------------|-----------------------|------------------------|
| RAPID                           | 5.5                   | 5.5                    | 8                     | 9.05                   |
| MEDIUM                          | 8.5                   | 8.5                    | 8.5                   | 9.21                   |

Raw Travel Demand Time

| Rapidity of Behavioral Response | Cat 1-2 Low Occupancy | Cat 1-2 High Occupancy | Cat 3-5 Low Occupancy | Cat 3-5 High Occupancy |
|---------------------------------|-----------------------|------------------------|-----------------------|------------------------|
| RAPID                           | 3.58                  | 4.62                   | 8                     | 9.05                   |
| MEDIUM                          | 3.71                  | 4.98                   | 7.94                  | 9.21                   |

Behavioral Response/Duration of Traffic Loading

| Rapidity of Behavioral Response | Cat 1-2 Low Occupancy | Cat 1-2 High Occupancy | Cat 3-5 Low Occupancy | Cat 3-5 High Occupancy |
|---------------------------------|-----------------------|------------------------|-----------------------|------------------------|
| RAPID                           | 5.5                   | 5.5                    | 5.5                   | 5.5                    |
| MEDIUM                          | 8.5                   | 8.5                    | 8.5                   | 8.5                    |

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS - 2003 Baseline**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from US1 to Alt A1A  
 Scenario: Cat 1/2 low occupancy

Roadway Capacity Assumptions

|                                                    |             |
|----------------------------------------------------|-------------|
| Hourly Service Volume (1st quarter of evacuation): | 2110        |
| Hourly Service Volume (2nd quarter of evacuation): | <u>1899</u> |
| Hourly Service Volume (3rd quarter of evacuation): | <u>1688</u> |
| Hourly Service Volume (4th quarter of evacuation): | <u>2110</u> |

Travel Demand Assumptions

|                                           |            |
|-------------------------------------------|------------|
| Local Baseline County Evacuating Traffic: | 4807       |
| Mixed Use Commercial Sector Evac Traffic: | <u>0</u>   |
| Inlet Village Sector Evac Traffic:        | <u>0</u>   |
| Other States Evac Traffic:                | <u>0</u>   |
| Background Traffic:                       | <u>400</u> |

Hours for "last evac vehicle" to get from  
 critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 240.35                                     | 0                                              | 0                                           | 0                                          | 0.05                                            | 340                                 | 0.85                                                    | 580.35                                                          | -0.72                                         |
| 2                | 961.4                                      | 0                                              | 0                                           | 0                                          | 0.2                                             | 220                                 | 0.55                                                    | 1181.4                                                          | -0.38                                         |
| 3                | 2403.5                                     | 0                                              | 0                                           | 0                                          | 0.5                                             | 80                                  | 0.2                                                     | 2483.5                                                          | 0.47                                          |
| 4                | 961.4                                      | 0                                              | 0                                           | 0                                          | 0.2                                             | 40                                  | 0.1                                                     | 1001.4                                                          | -0.41                                         |
| 5                | 240.35                                     | 0                                              | 0                                           | 0                                          | 0.05                                            | 0                                   | 0                                                       | 240.35                                                          | -0.89                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | <u>5487</u>                                                     |                                               |

3.075588468 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
3.575588468 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 96.14                                      | 0                                              | 0                                           | 0                                          | 0.02                                            | 380                                 | 0.95                                                    | 476.14                                                          | -0.77                                         |
| 2                | 384.56                                     | 0                                              | 0                                           | 0                                          | 0.08                                            | 320                                 | 0.8                                                     | 704.56                                                          | -0.67                                         |
| 3                | 721.05                                     | 0                                              | 0                                           | 0                                          | 0.15                                            | 220                                 | 0.55                                                    | 941.05                                                          | -0.5                                          |
| 4                | 1201.75                                    | 0                                              | 0                                           | 0                                          | 0.25                                            | 140                                 | 0.35                                                    | 1341.75                                                         | -0.29                                         |
| 5                | 1201.75                                    | 0                                              | 0                                           | 0                                          | 0.25                                            | 80                                  | 0.2                                                     | 1281.75                                                         | -0.24                                         |
| 6                | 721.05                                     | 0                                              | 0                                           | 0                                          | 0.15                                            | 40                                  | 0.1                                                     | 761.05                                                          | -0.55                                         |
| 7                | 384.56                                     | 0                                              | 0                                           | 0                                          | 0.08                                            | 20                                  | 0.05                                                    | 404.56                                                          | -0.81                                         |
| 8                | 96.14                                      | 0                                              | 0                                           | 0                                          | 0.02                                            | 0                                   | 0                                                       | 96.14                                                           | -0.95                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | <u>6007</u>                                                     |                                               |

3.209167983 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
3.709167983 total hours of evac travel demand

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS - 2003 Baseline**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from US1 to Alt A1A  
 Scenario: Cat 1/2 high occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |      |
|-------------------------------------------|------|
| Local Baseline County Evacuating Traffic: | 6036 |
| Mixed Use Commercial Sector Evac Traffic: | 0    |
| Inlet Village Sector Evac Traffic:        | 0    |
| Other States Evac Traffic:                | 0    |
| Background Traffic:                       | 800  |

Hours for "last evac vehicle" to get from  
 critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 301.8                                   | 0                                           | 0                                        | 0                                       | 0.05                                      | 680                              | 0.85                                           | 981.8                                                     | -0.53                                   |
| 2                | 1207.2                                  | 0                                           | 0                                        | 0                                       | 0.2                                       | 440                              | 0.55                                           | 1647.2                                                    | -0.13                                   |
| 3                | 301.8                                   | 0                                           | 0                                        | 0                                       | 0.5                                       | 160                              | 0.2                                            | 3178                                                      | 0.88                                    |
| 4                | 1207.2                                  | 0                                           | 0                                        | 0                                       | 0.2                                       | 80                               | 0.1                                            | 1287.2                                                    | -0.24                                   |
| 5                | 301.8                                   | 0                                           | 0                                        | 0                                       | 0.05                                      | 0                                | 0                                              | 301.8                                                     | -0.86                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 7396                                                      |                                         |

4.121005793 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 4.621005793 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 120.72                                  | 0                                           | 0                                        | 0                                       | 0.02                                      | 760                              | 0.95                                           | 880.72                                                    | -0.58                                   |
| 2                | 482.88                                  | 0                                           | 0                                        | 0                                       | 0.08                                      | 640                              | 0.8                                            | 1122.88                                                   | -0.47                                   |
| 3                | 905.4                                   | 0                                           | 0                                        | 0                                       | 0.15                                      | 440                              | 0.55                                           | 1345.4                                                    | -0.29                                   |
| 4                | 1509                                    | 0                                           | 0                                        | 0                                       | 0.25                                      | 280                              | 0.35                                           | 1789                                                      | -0.06                                   |
| 5                | 1509                                    | 0                                           | 0                                        | 0                                       | 0.25                                      | 160                              | 0.2                                            | 1669                                                      | -0.01                                   |
| 6                | 905.4                                   | 0                                           | 0                                        | 0                                       | 0.15                                      | 80                               | 0.1                                            | 985.4                                                     | -0.42                                   |
| 7                | 482.88                                  | 0                                           | 0                                        | 0                                       | 0.08                                      | 40                               | 0.05                                           | 522.88                                                    | -0.75                                   |
| 8                | 120.72                                  | 0                                           | 0                                        | 0                                       | 0.02                                      | 0                                | 0                                              | 120.72                                                    | -0.94                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 8436                                                      |                                         |

4.477661927 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 4.977661927 total hours of evac travel demand

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS - 2003 Baseline**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from Center Street to Central Blvd  
 Scenario: Cat 3-5 low occupancy

Roadway Capacity Assumptions

|                                                    |             |
|----------------------------------------------------|-------------|
| Hourly Service Volume (1st quarter of evacuation): | 2110        |
| Hourly Service Volume (2nd quarter of evacuation): | <u>1899</u> |
| Hourly Service Volume (3rd quarter of evacuation): | <u>1688</u> |
| Hourly Service Volume (4th quarter of evacuation): | <u>2110</u> |

Travel Demand Assumptions

|                                           |            |
|-------------------------------------------|------------|
| Local Baseline County Evacuating Traffic: | 12612      |
| Mixed Use Commercial Sector Evac Traffic: | <u>0</u>   |
| Inlet Village Sector Evac Traffic:        | <u>0</u>   |
| Other States Evac Traffic:                | <u>0</u>   |
| Background Traffic:                       | <u>400</u> |

Hours for "last evac vehicle" to get from  
 critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 630.6                                      | 0                                              | 0                                           | 0                                          | 0.05                                            | 340                                 | 0.85                                                    | 970.6                                                           | -0.54                                         |
| 2                | 2522.4                                     | 0                                              | 0                                           | 0                                          | 0.2                                             | 220                                 | 0.55                                                    | 2742.4                                                          | 0.44                                          |
| 3                | 6306                                       | 0                                              | 0                                           | 0                                          | 0.5                                             | 80                                  | 0.2                                                     | 6386                                                            | 2.78                                          |
| 4                | 2522.4                                     | 0                                              | 0                                           | 0                                          | 0.2                                             | 40                                  | 0.1                                                     | 2562.4                                                          | 0.52                                          |
| 5                | 630.6                                      | 0                                              | 0                                           | 0                                          | 0.05                                            | 0                                   | 0                                                       | 630.6                                                           | -0.7                                          |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 13292                                                           |                                               |

7,504175882 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

8,004175882 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 252.24                                     | 0                                              | 0                                           | 0                                          | 0.02                                            | 380                                 | 0.95                                                    | 632.24                                                          | -0.7                                          |
| 2                | 1008.96                                    | 0                                              | 0                                           | 0                                          | 0.08                                            | 320                                 | 0.8                                                     | 1328.96                                                         | -0.37                                         |
| 3                | 1891.8                                     | 0                                              | 0                                           | 0                                          | 0.15                                            | 220                                 | 0.55                                                    | 2111.8                                                          | 0.11                                          |
| 4                | 3153                                       | 0                                              | 0                                           | 0                                          | 0.25                                            | 140                                 | 0.35                                                    | 3293                                                            | 0.73                                          |
| 5                | 3153                                       | 0                                              | 0                                           | 0                                          | 0.25                                            | 80                                  | 0.2                                                     | 3233                                                            | 0.92                                          |
| 6                | 1891.8                                     | 0                                              | 0                                           | 0                                          | 0.15                                            | 40                                  | 0.1                                                     | 1931.8                                                          | 0.14                                          |
| 7                | 1008.96                                    | 0                                              | 0                                           | 0                                          | 0.08                                            | 20                                  | 0.05                                                    | 1028.96                                                         | -0.51                                         |
| 8                | 252.24                                     | 0                                              | 0                                           | 0                                          | 0.02                                            | 0                                   | 0                                                       | 252.24                                                          | -0.88                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 13812                                                           |                                               |

7,442527646 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

7,942527646 total hours of evac travel demand

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS - 2003 Baseline**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from Center Street to Central Blvd  
 Scenario: Cat 3-5 high occupancy

Roadway Capacity Assumptions

|                                                    |             |
|----------------------------------------------------|-------------|
| Hourly Service Volume (1st quarter of evacuation): | 2110        |
| Hourly Service Volume (2nd quarter of evacuation): | <u>1899</u> |
| Hourly Service Volume (3rd quarter of evacuation): | <u>1688</u> |
| Hourly Service Volume (4th quarter of evacuation): | <u>2110</u> |

Travel Demand Assumptions

|                                           |            |
|-------------------------------------------|------------|
| Local Baseline County Evacuating Traffic: | 13840      |
| Mixed Use Commercial Sector Evac Traffic: | <u>0</u>   |
| Inlet Village Sector Evac Traffic:        | <u>0</u>   |
| Other States Evac Traffic:                | <u>0</u>   |
| Background Traffic:                       | <u>800</u> |

|                                                                                 |            |
|---------------------------------------------------------------------------------|------------|
| Hours for "last evac vehicle" to get from critical link to study area boundary: | <u>0.5</u> |
|---------------------------------------------------------------------------------|------------|

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 692                                     | 0                                           | 0                                        | 0                                       | 0.05                                      | 680                              | 0.85                                           | 1372                                                      | -0.35                                   |
| 2                | 2768                                    | 0                                           | 0                                        | 0                                       | 0.2                                       | 440                              | 0.55                                           | 3208                                                      | 0.69                                    |
| 3                | 6920                                    | 0                                           | 0                                        | 0                                       | 0.5                                       | 160                              | 0.2                                            | 7080                                                      | 3.19                                    |
| 4                | 2768                                    | 0                                           | 0                                        | 0                                       | 0.2                                       | 80                               | 0.1                                            | 2848                                                      | 0.69                                    |
| 5                | 692                                     | 0                                           | 0                                        | 0                                       | 0.05                                      | 0                                | 0                                              | 692                                                       | -0.67                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 15200                                                     |                                         |

8.549025803 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

9.049025803 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 276.8                                   | 0                                           | 0                                        | 0                                       | 0.02                                      | 760                              | 0.95                                           | 1036.8                                                    | -0.51                                   |
| 2                | 1107.2                                  | 0                                           | 0                                        | 0                                       | 0.08                                      | 640                              | 0.8                                            | 1747.2                                                    | -0.17                                   |
| 3                | 2076                                    | 0                                           | 0                                        | 0                                       | 0.15                                      | 440                              | 0.55                                           | 2516                                                      | 0.32                                    |
| 4                | 3460                                    | 0                                           | 0                                        | 0                                       | 0.25                                      | 280                              | 0.35                                           | 3740                                                      | 0.97                                    |
| 5                | 3460                                    | 0                                           | 0                                        | 0                                       | 0.25                                      | 160                              | 0.2                                            | 3620                                                      | 1.14                                    |
| 6                | 2076                                    | 0                                           | 0                                        | 0                                       | 0.15                                      | 80                               | 0.1                                            | 2156                                                      | 0.28                                    |
| 7                | 1107.2                                  | 0                                           | 0                                        | 0                                       | 0.08                                      | 40                               | 0.05                                           | 1147.2                                                    | -0.46                                   |
| 8                | 276.8                                   | 0                                           | 0                                        | 0                                       | 0.02                                      | 0                                | 0                                              | 276.8                                                     | -0.87                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 16240                                                     |                                         |

8.7104792 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

9.2104792 total hours of evac travel demand

## **Appendix B**

### **Hurricane Evacuation Spreadsheet Model with Mixed Use Commercial Sector**

**Town of Jupiter Area**  
**SOCIOECONOMIC DATA (With Mixed Use Commercial Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Census Tract                                               | Permanent Occupied Units | Change in Perm. Occupied Units | Mobile Home Units | Change in Mobile Home Units | Seasonal Tourist Units | Change in Tourist Units | People Per Permanent Unit | People Per Mobile Home Unit | People Per Tourist Unit | Vehicles Per Permanent Unit | Vehicles Per Mobile Home Unit | Vehicles Per Tourist Unit | Low Occupancy Tourist | High Occupancy Tourist |
|------------------------------------------------------------|--------------------------|--------------------------------|-------------------|-----------------------------|------------------------|-------------------------|---------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------------|---------------------------|-----------------------|------------------------|
| 1.02 (part) Jupiter Island/Jupiter Inlet Beh Colony        | 303                      | 0                              | 0                 | 0                           | 375                    | 0                       | 1.87                      | 1.87                        | 2.5                     | 1.46                        | 1.46                          | 1.1                       | 35%                   | 95%                    |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 3,410                    | 140                            | 206               | 0                           | 1,499                  | 76                      | 1.76                      | 1.76                        | 2.5                     | 1.47                        | 1.47                          | 1.1                       | 35%                   | 95%                    |
| 4.03 Jupiter/Juno Beh (e of ICW/n of D Ross Rd)            | 2,838                    | 0                              | 260               | 0                           | 952                    | 0                       | 1.92                      | 1.92                        | 2.5                     | 1.52                        | 1.52                          | 1.1                       | 35%                   | 95%                    |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 2,979                    | 0                              | 7                 | 0                           | 123                    | 0                       | 2.35                      | 2.35                        | 2.5                     | 1.65                        | 1.65                          | 1.05                      | 35%                   | 95%                    |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 1,000                    | 0                              | 0                 | 0                           | 100                    | 0                       | 1.87                      | 1.87                        | 2.5                     | 1.46                        | 1.46                          | 1.05                      | 35%                   | 95%                    |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             | 2,043                    | 0                              | 9                 | 0                           | 80                     | 0                       | 2.53                      | 2.53                        | 2.5                     | 1.67                        | 1.67                          | 1.05                      | 35%                   | 95%                    |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 1,420                    | 0                              | 0                 | 0                           | 75                     | 0                       | 2.43                      | 2.43                        | 2.5                     | 1.66                        | 1.66                          | 1.05                      | 35%                   | 95%                    |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA1A/e of Milt Trl)     | 1,207                    | 0                              | 0                 | 0                           | 70                     | 0                       | 2.54                      | 2.54                        | 2.5                     | 1.53                        | 1.53                          | 1.05                      | 35%                   | 95%                    |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 2,259                    | 0                              | 102               | 0                           | 138                    | 0                       | 2.37                      | 2.37                        | 2.5                     | 1.66                        | 1.66                          | 1.05                      | 35%                   | 95%                    |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 500                      | 0                              | 0                 | 0                           | 24                     | 0                       | 2.79                      | 2.79                        | 2.5                     | 1.85                        | 1.85                          | 1.05                      | 35%                   | 95%                    |
| 2.11 Loxahatchee River Rd area                             | 1,391                    | 0                              | 0                 | 0                           | 9                      | 0                       | 3.08                      | 3.08                        | 2.5                     | 2.25                        | 2.25                          | 1.05                      | 35%                   | 95%                    |
| 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          | 1,632                    | 0                              | 0                 | 0                           | 694                    | 0                       | 2.06                      | 2.06                        | 2.5                     | 1.81                        | 1.81                          | 1.05                      | 35%                   | 95%                    |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 851                      | 0                              | 0                 | 0                           | 0                      | 0                       | 2.79                      | 2.79                        | 2.5                     | 1.85                        | 1.85                          | 1.02                      | 35%                   | 95%                    |
| 2.12 Jupiter southwest inland area                         | 1,885                    | 0                              | 0                 | 0                           | 25                     | 0                       | 2.92                      | 2.92                        | 2.5                     | 1.90                        | 1.90                          | 1.02                      | 35%                   | 95%                    |
| 2.13 Jupiter Indian Crk inland area                        | 1,307                    | 0                              | 0                 | 0                           | 151                    | 0                       | 1.92                      | 1.92                        | 2.5                     | 1.23                        | 1.23                          | 1.02                      | 35%                   | 95%                    |
| 4.02 Juno Bch/Juno Isles s of D Ross Rd e of ICW           | 1,902                    | 0                              | 0                 | 0                           | 453                    | 0                       | 1.98                      | 1.98                        | 2.5                     | 1.43                        | 1.43                          | 1.1                       | 35%                   | 95%                    |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 500                      | 0                              | 0                 | 0                           | 100                    | 0                       | 2.33                      | 2.33                        | 2.5                     | 1.90                        | 1.90                          | 1.05                      | 35%                   | 95%                    |
| 3.03 Frenchman's Creek and The Sanctuary                   | 1,379                    | 0                              | 0                 | 0                           | 128                    | 0                       | 2.33                      | 2.33                        | 2.5                     | 1.90                        | 1.90                          | 1.02                      | 35%                   | 95%                    |
| Total                                                      | 28,806                   | 140                            | 584               | 0                           | 4,996                  |                         |                           |                             |                         |                             |                               |                           |                       |                        |



Category 1-2 Evacuation Zones



Category 3-5 Evacuation Zones

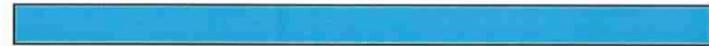


Inland Evacuation Zone (Mobile Homes Only)

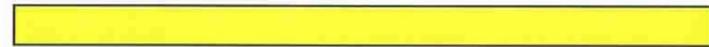
Please Note: Baseline socioeconomic data is based upon the 2000 Census, units along the ICW Corridor which received a Certificate of Occupancy between 2000 and Feb 2003, and units associated with the 53.3 acre Mixed-use Residential Sector

**Town of Jupiter**  
**EVACUATION PEOPLE AND VEHICLE STATISTICS (With Mixed Use Commercial Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Census Tract                                               | Evacuating People              |                                 |                                |                                 | Local Public Shelter Demand(People) |                                     |                                    |                                     | Evacuating Vehicles            |                                 |                                |                                 | Evac Vehicles to Public Shelter             |                                              |                                             |                                              |
|------------------------------------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|
|                                                            | Cat 1-2<br>Evac Pop<br>Low Occ | Cat 1-2<br>Evac Pop<br>High Occ | Cat 3-5<br>Evac Pop<br>Low Occ | Cat 3-5<br>Evac Pop<br>High Occ | Cat 1-2<br>PS<br>Demand<br>Low Occ  | Cat 1-2<br>PS<br>Demand<br>High Occ | Cat 3-5<br>PS<br>Demand<br>Low Occ | Cat 3-5<br>PS<br>Demand<br>High Occ | Cat 1-2<br>Evac Veh<br>Low Occ | Cat 1-2<br>Evac Veh<br>High Occ | Cat 3-5<br>Evac Veh<br>Low Occ | Cat 3-5<br>Evac Veh<br>High Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>Low Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>High Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>Low Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>High Occ |
| 1.02 (part) Jupiter Island/Jupiter Inlet Beh Colony        | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.03 Jupiter/Juno Beh (e of ICW/n of D Ross Rd)            | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA!A/e of Milt Trl)     | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.11 Loxahatchee River Rd area                             | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.12 Jupiter southwest inland area                         | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.13 Jupiter Indian Crk inland area                        | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.02 Juno Beh/Juno Isles s of D Ross Rd e of ICW           | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.03 Frenchman's Creek and The Sanctuary                   | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| Total                                                      | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |



Category 1-2 Evacuation Zones



Category 3-5 Evacuation Zones



Inland Evacuation Zone (Mobile Homes Only)



**Town of Jupiter**  
**EVACUATION PEOPLE AND VEHICLE STATISTICS (With Mixed Use Commercial Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Evacuating Vehicles From Base Year 2003 Model |                                |                              |                               | Evac Veh to Out of County from Base Yr 2000 Model |                                   |                                  |                                   | Evacuating Veh Change from Base Year 2003 Model |                                |                              |                               | Evac Vehicles to Out of County Change from Base Year 2003 Model |                                    |                                 |                                  |
|-----------------------------------------------|--------------------------------|------------------------------|-------------------------------|---------------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------------------------------|--------------------------------|------------------------------|-------------------------------|-----------------------------------------------------------------|------------------------------------|---------------------------------|----------------------------------|
| Cat1-2<br>Evac Veh<br>Low Occ                 | Cat1-2<br>Evac Veh<br>High Occ | Cat 3<br>Evac Veh<br>Low Occ | Cat 3<br>Evac Veh<br>High Occ | Cat 1-2<br>Veh Seen A<br>Low Occ                  | Cat 1-2<br>Veh Seen A<br>High Occ | Cat 3-5<br>Veh Seen B<br>Low Occ | Cat 3-5<br>Veh Seen B<br>High Occ | Cat1-2<br>Evac Veh<br>Low Occ                   | Cat1-2<br>Evac Veh<br>High Occ | Cat 3<br>Evac Veh<br>Low Occ | Cat 3<br>Evac Veh<br>High Occ | Cat 1-2<br>Veh Cat 1-2<br>Low Occ                               | Cat 1-2<br>Veh Cat 1-2<br>High Occ | Cat 3-5<br>Veh Cat 3<br>Low Occ | Cat 3-5<br>Veh Cat 3<br>High Occ |
| 498                                           | 746                            | 498                          | 746                           | 284                                               | 530                               | 355                              | 600                               | 498                                             | 746                            | 498                          | 746                           | -284                                                            | -530                               | -355                            | -600                             |
| 4393                                          | 5333                           | 4393                         | 5333                          | 2081                                              | 3010                              | 2850                             | 3779                              | 4393                                            | 5333                           | 4393                         | 5333                          | -2081                                                           | -3010                              | -2850                           | -3779                            |
| 3818                                          | 4446                           | 3818                         | 4446                          | 1743                                              | 2365                              | 2433                             | 3055                              | 3818                                            | 4446                           | 3818                         | 4446                          | -1743                                                           | -2365                              | -2433                           | -3055                            |
| 63                                            | 101                            | 3486                         | 3563                          | 34                                                | 73                                | 1765                             | 1842                              | 63                                              | 101                            | 3486                         | 3563                          | -34                                                             | -73                                | -1765                           | -1842                            |
| 29                                            | 60                             | 1059                         | 1122                          | 21                                                | 52                                | 547                              | 610                               | 29                                              | 60                             | 1059                         | 1122                          | -21                                                             | -52                                | -547                            | -610                             |
| 46                                            | 71                             | 2418                         | 2468                          | 24                                                | 49                                | 1223                             | 1273                              | 46                                              | 71                             | 2418                         | 2468                          | -24                                                             | -49                                | -1223                           | -1273                            |
| 30                                            | 54                             | 1678                         | 1725                          | 19                                                | 42                                | 852                              | 899                               | 30                                              | 54                             | 1678                         | 1725                          | -19                                                             | -42                                | -852                            | -899                             |
| 26                                            | 48                             | 1318                         | 1363                          | 17                                                | 38                                | 672                              | 715                               | 26                                              | 48                             | 1318                         | 1363                          | -17                                                             | -38                                | -672                            | -715                             |
| 133                                           | 177                            | 2676                         | 2763                          | 58                                                | 101                               | 1363                             | 1449                              | 133                                             | 177                            | 2676                         | 2763                          | -58                                                             | -101                               | -1363                           | -1449                            |
| 11                                            | 18                             | 656                          | 671                           | 6                                                 | 14                                | 332                              | 347                               | 11                                              | 18                             | 656                          | 671                           | -6                                                              | -14                                | -332                            | -347                             |
| 24                                            | 26                             | 2194                         | 2200                          | 8                                                 | 11                                | 1099                             | 1104                              | 24                                              | 26                             | 2194                         | 2200                          | -8                                                              | -11                                | -1099                           | -1104                            |
| 148                                           | 367                            | 2323                         | 2760                          | 132                                               | 349                               | 1286                             | 1719                              | 148                                             | 367                            | 2323                         | 2760                          | -132                                                            | -349                               | -1286                           | -1719                            |
| 0                                             | 0                              | 33                           | 33                            | 0                                                 | 0                                 | 13                               | 13                                | 0                                               | 0                              | 33                           | 33                            | 0                                                               | 0                                  | -13                             | -13                              |
| 4                                             | 12                             | 84                           | 99                            | 4                                                 | 12                                | 39                               | 54                                | 4                                               | 12                             | 84                           | 99                            | -4                                                              | -12                                | -39                             | -54                              |
| 27                                            | 73                             | 88                           | 180                           | 27                                                | 72                                | 67                               | 158                               | 27                                              | 73                             | 88                           | 180                           | -27                                                             | -72                                | -67                             | -158                             |
| 2263                                          | 2413                           | 2350                         | 2649                          | 957                                               | 1105                              | 1478                             | 1774                              | 2263                                            | 2413                           | 2350                         | 2649                          | -957                                                            | -1105                              | -1478                           | -1774                            |
| 25                                            | 57                             | 702                          | 765                           | 20                                                | 51                                | 369                              | 431                               | 25                                              | 57                             | 702                          | 765                           | -20                                                             | -51                                | -369                            | -431                             |
| 23                                            | 62                             | 101                          | 179                           | 23                                                | 61                                | 67                               | 145                               | 23                                              | 62                             | 101                          | 179                           | -23                                                             | -61                                | -67                             | -145                             |
| 11561                                         | 14064                          | 29875                        | 33065                         | 5458                                              | 7935                              | 16810                            | 19967                             | 11561                                           | 14064                          | 29875                        | 33065                         | -5458                                                           | -7935                              | -16810                          | -19967                           |

**Town of Jupiter Area**  
**EVACUATING VEHICLES BY CRITICAL ROADWAY SEGMENT**  
**With Mixed Use Commercial Sector**  
**US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis**

| Evacuation Roadway Segment             | Evacuation Service Volume | Cat 1-2 Evac Veh | Change From Base Model | New Cat 1-2 Evac Veh | Cat 1-2 Evac Veh | Change From Base Model | New Cat 1-2 Evac Veh | Cat 3-5 Evac Veh | Change From Base Model | New Cat 3-5 Evac Veh | Cat 3-5 Evac Veh | Change From Base Model | New Cat 3-5 Evac Veh |
|----------------------------------------|---------------------------|------------------|------------------------|----------------------|------------------|------------------------|----------------------|------------------|------------------------|----------------------|------------------|------------------------|----------------------|
| Indiantown from A1A to US1             | 1360                      | 3075             | 0                      | 3075                 | 3733             | 0                      | 3733                 | 3075             | 0                      | 3075                 | 3733             | 0                      | 3733                 |
| Indiantown from US1 to Alt A1A         | 2110                      | 4807             | 0                      | 4807                 | 6036             | 0                      | 6036                 | 6616             | 0                      | 6616                 | 7976             | 0                      | 7976                 |
| Indiantown from Alt A1A to Military Tr | 2110                      | 4613             | 0                      | 4613                 | 5809             | 0                      | 5809                 | 9354             | 0                      | 9354                 | 10708            | 0                      | 10708                |
| Indiantown from Military Tr to Cntr St | 2110                      | 4208             | 0                      | 4208                 | 5310             | 0                      | 5310                 | 11080            | 0                      | 11080                | 12364            | 0                      | 12364                |
| Indiantown from Cntr St to Cent Blvd   | 2110                      | 3890             | 0                      | 3890                 | 4931             | 0                      | 4931                 | 12612            | 0                      | 12612                | 13840            | 0                      | 13840                |
| Indiantown from Central Blvd to I-95   | 2110                      | 3654             | 0                      | 3654                 | 4663             | 0                      | 4663                 | 12119            | 0                      | 12119                | 13345            | 0                      | 13345                |
| Indiantown from I-95 to Fla Trmpk      | 2110                      | 2035             | 0                      | 2035                 | 2597             | 0                      | 2597                 | 7295             | 0                      | 7295                 | 7981             | 0                      | 7981                 |
| Donald Ross Rd                         | 1810                      | 6052             | 0                      | 6052                 | 7003             | 0                      | 7003                 | 9018             | 0                      | 9018                 | 10320            | 0                      | 10320                |

**Town of Jupiter Area**  
**CLEARANCE TIME SUMMARY (in hours to clear all evacuees) With Mixed Use Commercial Sector**  
*US 1 Intracoastal Waterway Corridor Hurricane evacuation Impact Analysis*

Actual Total Clearance Times

|                                 | Cat 1-2 | Cat 1-2  | Cat 3-5 | Cat 3-5  |
|---------------------------------|---------|----------|---------|----------|
| Rapidity of Behavioral Response | Low Occ | High Occ | Low Occ | High Occ |
| RAPID                           | 5.5     | 5.5      | 8.09    | 9.15     |
| MEDIUM                          | 8.5     | 8.5      | 8.5     | 9.31     |

Raw Travel Demand Time

|                                 | Cat 1-2 | Cat 1-2  | Cat 3-5 | Cat 3-5  |
|---------------------------------|---------|----------|---------|----------|
| Rapidity of Behavioral Response | Low Occ | High Occ | Low Occ | High Occ |
| RAPID                           | 3.68    | 4.75     | 8.09    | 9.15     |
| MEDIUM                          | 3.81    | 5.1      | 8.02    | 9.31     |

Behavioral Response/Duration of Traffic Load

|                                 | Cat 1-2 | Cat 1-2  | Cat 3-5 | Cat 3-5  |
|---------------------------------|---------|----------|---------|----------|
| Rapidity of Behavioral Response | Low Occ | High Occ | Low Occ | High Occ |
| RAPID                           | 5.5     | 5.5      | 5.5     | 5.5      |
| MEDIUM                          | 8.5     | 8.5      | 8.5     | 8.5      |

**Town of Jupiter**  
**DETAILED CLEARANCE TIME CALCULATIONS (With Mixed Use Commercial Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from US1 to Alt A1A  
 Scenario: Cat 1/2 low occupancy

Roadway Capacity Assumptions

|                                                    |             |
|----------------------------------------------------|-------------|
| Hourly Service Volume (1st quarter of evacuation): | 2110        |
| Hourly Service Volume (2nd quarter of evacuation): | <u>1899</u> |
| Hourly Service Volume (3rd quarter of evacuation): | <u>1688</u> |
| Hourly Service Volume (4th quarter of evacuation): | <u>2110</u> |

Travel Demand Assumptions

|                                           |            |
|-------------------------------------------|------------|
| Local Baseline County Evacuating Traffic: | 4807       |
| Mixed Use Commercial Sector Evac Traffic: | <u>184</u> |
| Inlet Village Sector Evac Traffic:        | <u>0</u>   |
| Other States Evac Traffic:                | <u>0</u>   |
| Background Traffic:                       | <u>400</u> |

Hours for "last evac vehicle" to get from critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hr | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 240.35                                     | 9.2                                            | 0                                           | 0                                          | 0.05                                          | 340                                 | 0.85                                                    | 589.55                                                          | -0.72                                         |
| 2                | 961.4                                      | 36.8                                           | 0                                           | 0                                          | 0.2                                           | 220                                 | 0.55                                                    | 1218.2                                                          | -0.36                                         |
| 3                | 2403.5                                     | 92                                             | 0                                           | 0                                          | 0.5                                           | 80                                  | 0.2                                                     | 2575.5                                                          | 0.53                                          |
| 4                | 961.4                                      | 36.8                                           | 0                                           | 0                                          | 0.2                                           | 40                                  | 0.1                                                     | 1038.2                                                          | -0.38                                         |
| 5                | 240.35                                     | 9.2                                            | 0                                           | 0                                          | 0.05                                          | 0                                   | 0                                                       | 249.55                                                          | -0.88                                         |
|                  |                                            |                                                |                                             |                                            |                                               |                                     |                                                         | 5671                                                            |                                               |

3.18 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

3.68 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hou | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 96.14                                      | 3.68                                           | 0                                           | 0                                          | 0.02                                           | 380                                 | 0.95                                                    | 479.82                                                          | -0.77                                         |
| 2                | 384.56                                     | 14.72                                          | 0                                           | 0                                          | 0.08                                           | 320                                 | 0.8                                                     | 719.28                                                          | -0.66                                         |
| 3                | 721.05                                     | 27.6                                           | 0                                           | 0                                          | 0.15                                           | 220                                 | 0.55                                                    | 968.65                                                          | -0.49                                         |
| 4                | 1201.75                                    | 46                                             | 0                                           | 0                                          | 0.25                                           | 140                                 | 0.35                                                    | 1387.75                                                         | -0.27                                         |
| 5                | 1201.75                                    | 46                                             | 0                                           | 0                                          | 0.25                                           | 80                                  | 0.2                                                     | 1327.75                                                         | -0.21                                         |
| 6                | 721.05                                     | 27.6                                           | 0                                           | 0                                          | 0.15                                           | 40                                  | 0.1                                                     | 788.65                                                          | -0.53                                         |
| 7                | 384.56                                     | 14.72                                          | 0                                           | 0                                          | 0.08                                           | 20                                  | 0.05                                                    | 419.28                                                          | -0.8                                          |
| 8                | 96.14                                      | 3.68                                           | 0                                           | 0                                          | 0.02                                           | 0                                   | 0                                                       | 99.82                                                           | -0.95                                         |
|                  |                                            |                                                |                                             |                                            |                                                |                                     |                                                         | 6191                                                            |                                               |

3.31 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

3.81 total hours of evac travel demand

**Town of Jupiter**  
**DETAILED CLEARANCE TIME CALCULATIONS (With Mixed Use Commercial Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from US1 to Alt A1A  
 Scenario: Cat 1/2 high occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |      |
|-------------------------------------------|------|
| Local Baseline County Evacuating Traffic: | 6036 |
| Mixed Use Commercial Sector Evac Traffic: | 232  |
| Inlet Village Sector Evac Traffic:        | 0    |
| Other States Evac Traffic:                | 0    |
| Background Traffic:                       | 800  |

Hours for "last evac vehicle" to get from critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|------------------------------------------|-----------------------------------------|
| 1                | 301.8                                   | 11.6                                        | 0                                        | 0                                       | 0.05                                      | 680                              | 0.85                                           | 993.4                                    | -0.53                                   |
| 2                | 1207.2                                  | 46.4                                        | 0                                        | 0                                       | 0.2                                       | 440                              | 0.55                                           | 1693.6                                   | -0.11                                   |
| 3                | 301.8                                   | 11.6                                        | 0                                        | 0                                       | 0.5                                       | 160                              | 0.2                                            | 3294                                     | 0.95                                    |
| 4                | 1207.2                                  | 46.4                                        | 0                                        | 0                                       | 0.2                                       | 80                               | 0.1                                            | 1333.6                                   | -0.21                                   |
| 5                | 301.8                                   | 11.6                                        | 0                                        | 0                                       | 0.05                                      | 0                                | 0                                              | 313.4                                    | -0.85                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 7628                                     |                                         |

4.25 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 4.75 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|------------------------------------------|-----------------------------------------|
| 1                | 120.72                                  | 4.64                                        | 0                                        | 0                                       | 0.02                                      | 760                              | 0.95                                           | 885.36                                   | -0.58                                   |
| 2                | 482.88                                  | 18.56                                       | 0                                        | 0                                       | 0.08                                      | 640                              | 0.8                                            | 1141.44                                  | -0.46                                   |
| 3                | 905.4                                   | 34.8                                        | 0                                        | 0                                       | 0.15                                      | 440                              | 0.55                                           | 1380.2                                   | -0.27                                   |
| 4                | 1509                                    | 58                                          | 0                                        | 0                                       | 0.25                                      | 280                              | 0.35                                           | 1847                                     | -0.03                                   |
| 5                | 1509                                    | 58                                          | 0                                        | 0                                       | 0.25                                      | 160                              | 0.2                                            | 1727                                     | 0.02                                    |
| 6                | 905.4                                   | 34.8                                        | 0                                        | 0                                       | 0.15                                      | 80                               | 0.1                                            | 1020.2                                   | -0.4                                    |
| 7                | 482.88                                  | 18.56                                       | 0                                        | 0                                       | 0.08                                      | 40                               | 0.05                                           | 541.44                                   | -0.74                                   |
| 8                | 120.72                                  | 4.64                                        | 0                                        | 0                                       | 0.02                                      | 0                                | 0                                              | 125.36                                   | -0.94                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 8668                                     |                                         |

4.6 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 5.1 total hours of evac travel demand

**Town of Jupiter**  
**DETAILED CLEARANCE TIME CALCULATIONS (With Mixed Use Commercial Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from Center Street to Central Blvd  
 Scenario: Cat 3-5 low occupancy

Roadway Capacity Assumptions

|                                                    |             |
|----------------------------------------------------|-------------|
| Hourly Service Volume (1st quarter of evacuation): | 2110        |
| Hourly Service Volume (2nd quarter of evacuation): | <u>1899</u> |
| Hourly Service Volume (3rd quarter of evacuation): | <u>1688</u> |
| Hourly Service Volume (4th quarter of evacuation): | <u>2110</u> |

Travel Demand Assumptions

|                                           |            |
|-------------------------------------------|------------|
| Local Baseline County Evacuating Traffic: | 12612      |
| Mixed Use Commercial Sector Evac Traffic: | <u>146</u> |
| Inlet Village Sector Evac Traffic:        | <u>0</u>   |
| Other States Evac Traffic:                | <u>0</u>   |
| Background Traffic:                       | <u>400</u> |

Hours for "last evac vehicle" to get from critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 630.6                                      | 7.3                                            | 0                                           | 0                                          | 0.05                                            | 340                                 | 0.85                                                    | 977.9                                                           | -0.54                                         |
| 2                | 2522.4                                     | 29.2                                           | 0                                           | 0                                          | 0.2                                             | 220                                 | 0.55                                                    | 2771.6                                                          | 0.46                                          |
| 3                | 630.6                                      | 7.3                                            | 0                                           | 0                                          | 0.5                                             | 80                                  | 0.2                                                     | 645.9                                                           | 2.83                                          |
| 4                | 2522.4                                     | 29.2                                           | 0                                           | 0                                          | 0.2                                             | 40                                  | 0.1                                                     | 2591.6                                                          | 0.54                                          |
| 5                | 630.6                                      | 7.3                                            | 0                                           | 0                                          | 0.05                                            | 0                                   | 0                                                       | 637.9                                                           | -0.7                                          |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 13438                                                           |                                               |

7.59 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

8.09 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 252.24                                     | 2.92                                           | 0                                           | 0                                          | 0.02                                            | 380                                 | 0.95                                                    | 635.16                                                          | -0.7                                          |
| 2                | 1008.96                                    | 11.68                                          | 0                                           | 0                                          | 0.08                                            | 320                                 | 0.8                                                     | 1340.64                                                         | -0.36                                         |
| 3                | 1891.8                                     | 21.9                                           | 0                                           | 0                                          | 0.15                                            | 220                                 | 0.55                                                    | 2133.7                                                          | 0.12                                          |
| 4                | 3153                                       | 36.5                                           | 0                                           | 0                                          | 0.25                                            | 140                                 | 0.35                                                    | 3329.5                                                          | 0.75                                          |
| 5                | 3153                                       | 36.5                                           | 0                                           | 0                                          | 0.25                                            | 80                                  | 0.2                                                     | 3269.5                                                          | 0.94                                          |
| 6                | 1891.8                                     | 21.9                                           | 0                                           | 0                                          | 0.15                                            | 40                                  | 0.1                                                     | 1953.7                                                          | 0.16                                          |
| 7                | 1008.96                                    | 11.68                                          | 0                                           | 0                                          | 0.08                                            | 20                                  | 0.05                                                    | 1040.64                                                         | -0.51                                         |
| 8                | 252.24                                     | 2.92                                           | 0                                           | 0                                          | 0.02                                            | 0                                   | 0                                                       | 255.16                                                          | -0.88                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 13958                                                           |                                               |

7.52 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

8.02 total hours of evac travel demand

**Town of Jupiter**  
**DETAILED CLEARANCE TIME CALCULATIONS (With Mixed Use Commercial Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from Center Street to Central Blvd  
 Scenario: Cat 3-5 high occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |       |
|-------------------------------------------|-------|
| Local Baseline County Evacuating Traffic: | 13840 |
| Mixed Use Commercial Sector Evac Traffic: | 183   |
| Inlet Village Sector Evac Traffic:        | 0     |
| Other States Evac Traffic:                | 0     |
| Background Traffic:                       | 800   |

Hours for "last evac vehicle" to get from critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 692                                        | 9.15                                           | 0                                           | 0                                          | 0.05                                            | 680                                 | 0.85                                                    | 1381.15                                                         | -0.35                                         |
| 2                | 2768                                       | 36.6                                           | 0                                           | 0                                          | 0.2                                             | 440                                 | 0.55                                                    | 3244.6                                                          | 0.71                                          |
| 3                | 6920                                       | 91.5                                           | 0                                           | 0                                          | 0.5                                             | 160                                 | 0.2                                                     | 7171.5                                                          | 3.25                                          |
| 4                | 2768                                       | 36.6                                           | 0                                           | 0                                          | 0.2                                             | 80                                  | 0.1                                                     | 2884.6                                                          | 0.71                                          |
| 5                | 692                                        | 9.15                                           | 0                                           | 0                                          | 0.05                                            | 0                                   | 0                                                       | 701.15                                                          | -0.67                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 15383                                                           |                                               |

8.65 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

9.15 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 276.8                                      | 3.66                                           | 0                                           | 0                                          | 0.02                                            | 760                                 | 0.95                                                    | 1040.46                                                         | -0.51                                         |
| 2                | 1107.2                                     | 14.64                                          | 0                                           | 0                                          | 0.08                                            | 640                                 | 0.8                                                     | 1761.84                                                         | -0.17                                         |
| 3                | 2076                                       | 27.45                                          | 0                                           | 0                                          | 0.15                                            | 440                                 | 0.55                                                    | 2543.45                                                         | 0.34                                          |
| 4                | 3460                                       | 45.75                                          | 0                                           | 0                                          | 0.25                                            | 280                                 | 0.35                                                    | 3785.75                                                         | 0.99                                          |
| 5                | 3460                                       | 45.75                                          | 0                                           | 0                                          | 0.25                                            | 160                                 | 0.2                                                     | 3665.75                                                         | 1.17                                          |
| 6                | 2076                                       | 27.45                                          | 0                                           | 0                                          | 0.15                                            | 80                                  | 0.1                                                     | 2183.45                                                         | 0.29                                          |
| 7                | 1107.2                                     | 14.64                                          | 0                                           | 0                                          | 0.08                                            | 40                                  | 0.05                                                    | 1161.84                                                         | -0.45                                         |
| 8                | 276.8                                      | 3.66                                           | 0                                           | 0                                          | 0.02                                            | 0                                   | 0                                                       | 280.46                                                          | -0.87                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 16423                                                           |                                               |

8.81 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

9.31 total hours of evac travel demand

## **Appendix C**

### **Hurricane Evacuation Spreadsheet Model with Inlet Village Sector**

**Town of Jupiter Area**  
**SOCIOECONOMIC DATA (With Inlet Village Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Census Tract                                               | Permanent Occupied Units | Change in Perm. Occupied Units | Mobile Home Units | Change in Mobile Home Units | Seasonal Tourist Units | Change in Tourist Units | People Per Permanent Unit | People Per Mobile Home Unit | People Per Tourist Unit | Vehicles Per Permanent Unit | Vehicles Per Mobile Home Unit | Vehicles Per Tourist Unit | Low Occupancy Tourist | High Occupancy Tourist |
|------------------------------------------------------------|--------------------------|--------------------------------|-------------------|-----------------------------|------------------------|-------------------------|---------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------------|---------------------------|-----------------------|------------------------|
| 1.02 (part) Jupiter Island/Jupiter Inlet Bch Colony        | 303                      | 0                              | 0                 | 0                           | 375                    | 0                       | 1.87                      | 1.87                        | 2.5                     | 1.46                        | 1.46                          | 1.1                       | 35%                   | 95%                    |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 3,418                    | 148                            | 206               | 0                           | 1,502                  | 79                      | 1.76                      | 1.76                        | 2.5                     | 1.47                        | 1.47                          | 1.1                       | 35%                   | 95%                    |
| 4.03 Jupiter/Juno Bch (e of ICW/n of D Ross Rd)            | 2,838                    | 0                              | 260               | 0                           | 952                    | 0                       | 1.92                      | 1.92                        | 2.5                     | 1.52                        | 1.52                          | 1.1                       | 35%                   | 95%                    |
| 1.01 Tequesta/Jupiter (n of LoX/w of Old Dix Hwy)          | 2,979                    | 0                              | 7                 | 0                           | 123                    | 0                       | 2.35                      | 2.35                        | 2.5                     | 1.65                        | 1.65                          | 1.05                      | 35%                   | 95%                    |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 1,000                    | 0                              | 0                 | 0                           | 100                    | 0                       | 1.87                      | 1.87                        | 2.5                     | 1.46                        | 1.46                          | 1.05                      | 35%                   | 95%                    |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             | 2,043                    | 0                              | 9                 | 0                           | 80                     | 0                       | 2.53                      | 2.53                        | 2.5                     | 1.67                        | 1.67                          | 1.05                      | 35%                   | 95%                    |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 1,420                    | 0                              | 0                 | 0                           | 75                     | 0                       | 2.43                      | 2.43                        | 2.5                     | 1.66                        | 1.66                          | 1.05                      | 35%                   | 95%                    |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA1A/e of Milt Trl)     | 1,207                    | 0                              | 0                 | 0                           | 70                     | 0                       | 2.54                      | 2.54                        | 2.5                     | 1.53                        | 1.53                          | 1.05                      | 35%                   | 95%                    |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 2,259                    | 0                              | 102               | 0                           | 138                    | 0                       | 2.37                      | 2.37                        | 2.5                     | 1.66                        | 1.66                          | 1.05                      | 35%                   | 95%                    |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 500                      | 0                              | 0                 | 0                           | 24                     | 0                       | 2.79                      | 2.79                        | 2.5                     | 1.85                        | 1.85                          | 1.05                      | 35%                   | 95%                    |
| 2.11 Loxahatchee River Rd area                             | 1,391                    | 0                              | 0                 | 0                           | 9                      | 0                       | 3.08                      | 3.08                        | 2.5                     | 2.25                        | 2.25                          | 1.05                      | 35%                   | 95%                    |
| 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          | 1,632                    | 0                              | 0                 | 0                           | 694                    | 0                       | 2.06                      | 2.06                        | 2.5                     | 1.81                        | 1.81                          | 1.05                      | 35%                   | 95%                    |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 851                      | 0                              | 0                 | 0                           | 0                      | 0                       | 2.79                      | 2.79                        | 2.5                     | 1.85                        | 1.85                          | 1.02                      | 35%                   | 95%                    |
| 2.12 Jupiter southwest inland area                         | 1,885                    | 0                              | 0                 | 0                           | 25                     | 0                       | 2.92                      | 2.92                        | 2.5                     | 1.90                        | 1.90                          | 1.02                      | 35%                   | 95%                    |
| 2.13 Jupiter Indian Crk inland area                        | 1,307                    | 0                              | 0                 | 0                           | 151                    | 0                       | 1.92                      | 1.92                        | 2.5                     | 1.23                        | 1.23                          | 1.02                      | 35%                   | 95%                    |
| 4.02 Juno Bch/Juno Isles s of D Ross Rd e of ICW           | 1,902                    | 0                              | 0                 | 0                           | 453                    | 0                       | 1.98                      | 1.98                        | 2.5                     | 1.43                        | 1.43                          | 1.1                       | 35%                   | 95%                    |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 500                      | 0                              | 0                 | 0                           | 100                    | 0                       | 2.33                      | 2.33                        | 2.5                     | 1.90                        | 1.90                          | 1.05                      | 35%                   | 95%                    |
| 3.03 Frenchman's Creek and The Sanctuary                   | 1,379                    | 0                              | 0                 | 0                           | 128                    | 0                       | 2.33                      | 2.33                        | 2.5                     | 1.90                        | 1.90                          | 1.02                      | 35%                   | 95%                    |
| <b>Total</b>                                               | <b>28,814</b>            | <b>148</b>                     | <b>584</b>        | <b>0</b>                    | <b>4,999</b>           |                         |                           |                             |                         |                             |                               |                           |                       |                        |



Category 1-2 Evacuation Zones



Category 3-5 Evacuation Zones



Inland Evacuation Zone (Mobile Homes Only)

Please Note: Baseline socioeconomic data is based upon the 2000 Census, units along the ICW Corridor which received a Certificate of Occupancy between 2000 and Feb 2003, and units associated with the 53.3 acre Mixed-use Residential Sector

**Town of Jupiter Area**  
**EVACUATION PEOPLE AND VEHICLE STATISTICS (With Inlet Village Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Eac Impact Analysis

| Census Tract                                               | Evacuating People              |                                 |                                |                                 | Local Public Shelter Demand(People) |                                     |                                    |                                     | Evacuating Vehicles            |                                 |                                |                                 | Evac Vehicles to Public Shelter             |                                              |                                             |                                              |
|------------------------------------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|
|                                                            | Cat 1-2<br>Evac Pop<br>Low Occ | Cat 1-2<br>Evac Pop<br>High Occ | Cat 3-5<br>Evac Pop<br>Low Occ | Cat 3-5<br>Evac Pop<br>High Occ | Cat 1-2<br>PS<br>Demand<br>Low Occ  | Cat 1-2<br>PS<br>Demand<br>High Occ | Cat 3-5<br>PS<br>Demand<br>Low Occ | Cat 3-5<br>PS<br>Demand<br>High Occ | Cat 1-2<br>Evac Veh<br>Low Occ | Cat 1-2<br>Evac Veh<br>High Occ | Cat 3-5<br>Evac Veh<br>Low Occ | Cat 3-5<br>Evac Veh<br>High Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>Low Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>High Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>Low Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>High Occ |
| 1.02 (part) Jupiter Island/Jupiter Inlet Beh Colony        | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.03 Jupiter/Juno Beh (e of ICW/n of D Ross Rd)            | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA/A)             | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA1A/e of Milt Trl)     | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.11 Loxahatchee River Rd area                             | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.01 Jupiter/Paradise Port (e of AltA/A/w of ICW)          | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.12 Jupiter southwest inland area                         | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.13 Jupiter Indian Crk inland area                        | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.02 Juno Beh/Juno Isles s of D Ross Rd e of ICW           | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.03 Frenchman's Creek and The Sanctuary                   | 0                              | 0                               | 0                              | 0                               | 0                                   | 0                                   | 0                                  | 0                                   | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| <b>Total</b>                                               | <b>0</b>                       | <b>0</b>                        | <b>0</b>                       | <b>0</b>                        | <b>0</b>                            | <b>0</b>                            | <b>0</b>                           | <b>0</b>                            | <b>0</b>                       | <b>0</b>                        | <b>0</b>                       | <b>0</b>                        | <b>0</b>                                    | <b>0</b>                                     | <b>0</b>                                    | <b>0</b>                                     |

- Category 1-2 Evacuation Zones
- Category 3-5 Evacuation Zones
- Inland Evacuation Zone (Mobile Homes Only)



**Town of Jupiter Area**  
**EVACUATION PEOPLE AND VEHICLE STATISTICS (With Inlet Village Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evac Impact Analysis

| Evacuating Vehicles From Base Year 2000 Model |                    |                   |                   | Evac Veh to Out of County from Base Year 2000 Model |                       |                       |                       | Evacuating Veh Change from Base Year 2003 Model |                    |                   |                   | Evac Veh to Out of County Change from Base Yr 2003 Model |                        |                      |                      |
|-----------------------------------------------|--------------------|-------------------|-------------------|-----------------------------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------------------------|--------------------|-------------------|-------------------|----------------------------------------------------------|------------------------|----------------------|----------------------|
| Cat1-2<br>Evac Veh                            | Cat1-2<br>Evac Veh | Cat 3<br>Evac Veh | Cat 3<br>Evac Veh | Cat 1-2<br>Veh Scen A                               | Cat 1-2<br>Veh Scen A | Cat 3-5<br>Veh Scen B | Cat 3-5<br>Veh Scen B | Cat1-2<br>Evac Veh                              | Cat1-2<br>Evac Veh | Cat 3<br>Evac Veh | Cat 3<br>Evac Veh | Cat 1-2<br>Veh Cat 1-2                                   | Cat 1-2<br>Veh Cat 1-2 | Cat 3-5<br>Veh Cat 3 | Cat 3-5<br>Veh Cat 3 |
| Low Occ                                       | High Occ           | Low Occ           | High Occ          | Low Occ                                             | High Occ              | Low Occ               | High Occ              | Low Occ                                         | High Occ           | Low Occ           | High Occ          | Low Occ                                                  | High Occ               | Low Occ              | High Occ             |
| 498                                           | 746                | 498               | 746               | 284                                                 | 530                   | 355                   | 600                   | 498                                             | 746                | 498               | 746               | -284                                                     | -530                   | -355                 | -600                 |
| 4393                                          | 5333               | 4393              | 5333              | 2081                                                | 3010                  | 2850                  | 3779                  | 4393                                            | 5333               | 4393              | 5333              | -2081                                                    | -3010                  | -2850                | -3779                |
| 3818                                          | 4446               | 3818              | 4446              | 1743                                                | 2365                  | 2433                  | 3055                  | 3818                                            | 4446               | 3818              | 4446              | -1743                                                    | -2365                  | -2433                | -3055                |
| 63                                            | 101                | 3486              | 3563              | 34                                                  | 73                    | 1765                  | 1842                  | 63                                              | 101                | 3486              | 3563              | -34                                                      | -73                    | -1765                | -1842                |
| 29                                            | 60                 | 1059              | 1122              | 21                                                  | 52                    | 547                   | 610                   | 29                                              | 60                 | 1059              | 1122              | -21                                                      | -52                    | -547                 | -610                 |
| 46                                            | 71                 | 2418              | 2468              | 24                                                  | 49                    | 1223                  | 1273                  | 46                                              | 71                 | 2418              | 2468              | -24                                                      | -49                    | -1223                | -1273                |
| 30                                            | 54                 | 1678              | 1725              | 19                                                  | 42                    | 852                   | 899                   | 30                                              | 54                 | 1678              | 1725              | -19                                                      | -42                    | -852                 | -899                 |
| 26                                            | 48                 | 1318              | 1363              | 17                                                  | 38                    | 672                   | 715                   | 26                                              | 48                 | 1318              | 1363              | -17                                                      | -38                    | -672                 | -715                 |
| 133                                           | 177                | 2676              | 2763              | 58                                                  | 101                   | 1363                  | 1449                  | 133                                             | 177                | 2676              | 2763              | -58                                                      | -101                   | -1363                | -1449                |
| 11                                            | 18                 | 656               | 671               | 6                                                   | 14                    | 332                   | 347                   | 11                                              | 18                 | 656               | 671               | -6                                                       | -14                    | -332                 | -347                 |
| 24                                            | 26                 | 2194              | 2200              | 8                                                   | 11                    | 1099                  | 1104                  | 24                                              | 26                 | 2194              | 2200              | -8                                                       | -11                    | -1099                | -1104                |
| 148                                           | 367                | 2323              | 2760              | 132                                                 | 349                   | 1286                  | 1719                  | 148                                             | 367                | 2323              | 2760              | -132                                                     | -349                   | -1286                | -1719                |
| 0                                             | 0                  | 33                | 33                | 0                                                   | 0                     | 13                    | 13                    | 0                                               | 0                  | 33                | 33                | 0                                                        | 0                      | -13                  | -13                  |
| 4                                             | 12                 | 84                | 99                | 4                                                   | 12                    | 39                    | 54                    | 4                                               | 12                 | 84                | 99                | -4                                                       | -12                    | -39                  | -54                  |
| 27                                            | 73                 | 88                | 180               | 27                                                  | 72                    | 67                    | 158                   | 27                                              | 73                 | 88                | 180               | -27                                                      | -72                    | -67                  | -158                 |
| 2263                                          | 2413               | 2350              | 2649              | 957                                                 | 1105                  | 1478                  | 1774                  | 2263                                            | 2413               | 2350              | 2649              | -957                                                     | -1105                  | -1478                | -1774                |
| 25                                            | 57                 | 702               | 765               | 20                                                  | 51                    | 369                   | 431                   | 25                                              | 57                 | 702               | 765               | -20                                                      | -51                    | -369                 | -431                 |
| 23                                            | 62                 | 101               | 179               | 23                                                  | 61                    | 67                    | 145                   | 23                                              | 62                 | 101               | 179               | -23                                                      | -61                    | -67                  | -145                 |
| 11561                                         | 14064              | 29875             | 33065             | 5458                                                | 7935                  | 16810                 | 19967                 | 11561                                           | 14064              | 29875             | 33065             | -5458                                                    | -7935                  | -16810               | -19967               |

**Town of Jupiter Area**  
**EVACUATING VEHICLES BY CRITICAL ROADWAY SEGMENT (With Inlet Village Sector)**  
**US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis**

| Evacuation Roadway Segment              | Evacuation Service Volume | Cat 1-2 Evac Vehicle | Change From Base Model | New Cat 1-2 Vehicle | Cat 1-2 Evac Vehicle | Change From Base Model | New Cat 1-2 Evac Veh High Occ | Cat 3-5 Evac Vehicle | Change From Base Model | New Cat 3-5 Evac Veh Low Occ | Cat 3-5 Evac Vehicle | Change From Base Model | New Cat 3-5 Evac Veh High Occ |
|-----------------------------------------|---------------------------|----------------------|------------------------|---------------------|----------------------|------------------------|-------------------------------|----------------------|------------------------|------------------------------|----------------------|------------------------|-------------------------------|
| Indiantown from A1A to US1              | 1360                      | 3075                 | 0                      | 3075                | 3733                 | 0                      | 3733                          | 3075                 | 0                      | 3075                         | 3733                 | 0                      | 3733                          |
| Indiantown from US1 to Alt A1A          | 2110                      | 4807                 | 0                      | 4807                | 6036                 | 0                      | 6036                          | 6616                 | 0                      | 6616                         | 7976                 | 0                      | 7976                          |
| Indiantown from Alt A1A to Military Tr  | 2110                      | 4613                 | 0                      | 4613                | 5809                 | 0                      | 5809                          | 9354                 | 0                      | 9354                         | 10708                | 0                      | 10708                         |
| Indiantown from Military Tr to Cntr St  | 2110                      | 4208                 | 0                      | 4208                | 5310                 | 0                      | 5310                          | 11080                | 0                      | 11080                        | 12364                | 0                      | 12364                         |
| Indiantown from Cntr St to Central Blvd | 2110                      | 3890                 | 0                      | 3890                | 4931                 | 0                      | 4931                          | 12612                | 0                      | 12612                        | 13840                | 0                      | 13840                         |
| Indiantown from Central Blvd to I-95    | 2110                      | 3654                 | 0                      | 3654                | 4663                 | 0                      | 4663                          | 12119                | 0                      | 12119                        | 13345                | 0                      | 13345                         |
| Indiantown from I-95 to Fla Trmpk       | 2110                      | 2035                 | 0                      | 2035                | 2597                 | 0                      | 2597                          | 7295                 | 0                      | 7295                         | 7981                 | 0                      | 7981                          |
| Donald Ross Rd                          | 1810                      | 6052                 | 0                      | 6052                | 7003                 | 0                      | 7003                          | 9018                 | 0                      | 9018                         | 10320                | 0                      | 10320                         |

**Town of Jupiter Area**  
**CLEARANCE TIME SUMMARY (in hours to clear all evacuees) With Inlet Village Sector**  
**US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis**

Actual Total Evacuation Times

|                                 | Cat 1-2 | Cat 1-2  | Cat 3-5 | Cat 3-5  |
|---------------------------------|---------|----------|---------|----------|
| Rapidity of Behavioral Response | Low Occ | High Occ | Low Occ | High Occ |
| RAPID                           | 5.5     | 5.5      | 8.09    | 9.16     |
| MEDIUM                          | 8.5     | 8.5      | 8.5     | 9.31     |

Raw Travel Demand Time

|                                 | Cat 1-2 | Cat 1-2  | Cat 3-5 | Cat 3-5  |
|---------------------------------|---------|----------|---------|----------|
| Rapidity of Behavioral Response | Low Occ | High Occ | Low Occ | High Occ |
| RAPID                           | 3.69    | 4.76     | 8.09    | 9.16     |
| MEDIUM                          | 3.81    | 5.11     | 8.03    | 9.31     |

Behavioral Response/Duration of Traffic Loading

|                                 | Cat 1-2 | Cat 1-2  | Cat 3-5 | Cat 3-5  |
|---------------------------------|---------|----------|---------|----------|
| Rapidity of Behavioral Response | Low Occ | High Occ | Low Occ | High Occ |
| RAPID                           | 5.5     | 5.5      | 5.5     | 5.5      |
| MEDIUM                          | 8.5     | 8.5      | 8.5     | 8.5      |

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS (With Inlet Village Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evac Impact Analysis

Critical Link: Indiantown Rd from US1 to Alt A1A  
 Scenario: Cat 1/2 low occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |      |
|-------------------------------------------|------|
| Local Baseline County Evacuating Traffic: | 4807 |
| Mixed Use Commercial Sector Evac Traffic: | 0    |
| Inlet Village Sector Evac Traffic:        | 195  |
| Other States Evac Traffic:                | 0    |
| Background Traffic:                       | 400  |

Hours for "last evac vehicle" to get from critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hr | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|----------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 240.35                                  | 0                                           | 9.75                                     | 0                                       | 0.05                                      | 340                              | 0.85                                         | 590.1                                                     | -0.72                                   |
| 2                | 961.4                                   | 0                                           | 39                                       | 0                                       | 0.2                                       | 220                              | 0.55                                         | 1220.4                                                    | -0.36                                   |
| 3                | 2403.5                                  | 0                                           | 97.5                                     | 0                                       | 0.5                                       | 80                               | 0.2                                          | 2581                                                      | 0.53                                    |
| 4                | 961.4                                   | 0                                           | 39                                       | 0                                       | 0.2                                       | 40                               | 0.1                                          | 1040.4                                                    | -0.38                                   |
| 5                | 240.35                                  | 0                                           | 9.75                                     | 0                                       | 0.05                                      | 0                                | 0                                            | 250.1                                                     | -0.88                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                              | 5682                                                      |                                         |

3.19 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 3.69 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hr | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hr | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------|----------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 96.14                                   | 0                                           | 3.9                                      | 0                                       | 0.02                                    | 380                              | 0.95                                         | 480.04                                                    | -0.77                                   |
| 2                | 384.56                                  | 0                                           | 15.6                                     | 0                                       | 0.08                                    | 320                              | 0.8                                          | 720.16                                                    | -0.66                                   |
| 3                | 721.05                                  | 0                                           | 29.25                                    | 0                                       | 0.15                                    | 220                              | 0.55                                         | 970.3                                                     | -0.49                                   |
| 4                | 1201.75                                 | 0                                           | 48.75                                    | 0                                       | 0.25                                    | 140                              | 0.35                                         | 1390.5                                                    | -0.27                                   |
| 5                | 1201.75                                 | 0                                           | 48.75                                    | 0                                       | 0.25                                    | 80                               | 0.2                                          | 1330.5                                                    | -0.21                                   |
| 6                | 721.05                                  | 0                                           | 29.25                                    | 0                                       | 0.15                                    | 40                               | 0.1                                          | 790.3                                                     | -0.53                                   |
| 7                | 384.56                                  | 0                                           | 15.6                                     | 0                                       | 0.08                                    | 20                               | 0.05                                         | 420.16                                                    | -0.8                                    |
| 8                | 96.14                                   | 0                                           | 3.9                                      | 0                                       | 0.02                                    | 0                                | 0                                            | 100.04                                                    | -0.95                                   |
|                  |                                         |                                             |                                          |                                         |                                         |                                  |                                              | 6202                                                      |                                         |

3.31 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 3.81 total hours of evac travel demand

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS (With Inlet Village Sector)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evac Impact Analysis

Critical Link: Indiantown Rd from US1 to Alt A1A  
 Scenario: Cat 1/2 high occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |      |
|-------------------------------------------|------|
| Local Baseline County Evacuating Traffic: | 6036 |
| Mixed Use Commercial Sector Evac Traffic: | 0    |
| Inlet Village Sector Evac Traffic:        | 243  |
| Other States Evac Traffic:                | 0    |
| Background Traffic:                       | 800  |

Hours for "last evac vehicle" to get from  
 critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 301.8                                      | 0                                              | 12.15                                       | 0                                          | 0.05                                            | 680                                 | 0.85                                                    | 993.95                                                          | -0.53                                         |
| 2                | 1207.2                                     | 0                                              | 48.6                                        | 0                                          | 0.2                                             | 440                                 | 0.55                                                    | 1695.8                                                          | -0.11                                         |
| 3                | 3018                                       | 0                                              | 121.5                                       | 0                                          | 0.5                                             | 160                                 | 0.2                                                     | 3299.5                                                          | 0.95                                          |
| 4                | 1207.2                                     | 0                                              | 48.6                                        | 0                                          | 0.2                                             | 80                                  | 0.1                                                     | 1335.8                                                          | -0.21                                         |
| 5                | 301.8                                      | 0                                              | 12.15                                       | 0                                          | 0.05                                            | 0                                   | 0                                                       | 313.95                                                          | -0.85                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 7639                                                            |                                               |

4.26 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 4.76 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 120.72                                     | 0                                              | 4.86                                        | 0                                          | 0.02                                            | 760                                 | 0.95                                                    | 885.58                                                          | -0.58                                         |
| 2                | 482.88                                     | 0                                              | 19.44                                       | 0                                          | 0.08                                            | 640                                 | 0.8                                                     | 1142.32                                                         | -0.46                                         |
| 3                | 905.4                                      | 0                                              | 36.45                                       | 0                                          | 0.15                                            | 440                                 | 0.55                                                    | 1381.85                                                         | -0.27                                         |
| 4                | 1509                                       | 0                                              | 60.75                                       | 0                                          | 0.25                                            | 280                                 | 0.35                                                    | 1849.75                                                         | -0.03                                         |
| 5                | 1509                                       | 0                                              | 60.75                                       | 0                                          | 0.25                                            | 160                                 | 0.2                                                     | 1729.75                                                         | -0.02                                         |
| 6                | 905.4                                      | 0                                              | 36.45                                       | 0                                          | 0.15                                            | 80                                  | 0.1                                                     | 1021.85                                                         | -0.39                                         |
| 7                | 482.88                                     | 0                                              | 19.44                                       | 0                                          | 0.08                                            | 40                                  | 0.05                                                    | 542.32                                                          | -0.74                                         |
| 8                | 120.72                                     | 0                                              | 4.86                                        | 0                                          | 0.02                                            | 0                                   | 0                                                       | 125.58                                                          | -0.94                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 8679                                                            |                                               |

4.61 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 5.11 total hours of evac travel demand

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS w/Inlet Village Sector**  
**US 1 Intracoastal Waterway Corridor Hurricane Evac Impact Analysis**

Critical Link: Indiantown Rd from Center Street to Central Blvd  
 Scenario: Cat 3-5 low occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |       |
|-------------------------------------------|-------|
| Local Baseline County Evacuating Traffic: | 12612 |
| Mixed Use Commercial Sector Evac Traffic: | 0     |
| Inlet Village Sector Evac Traffic:        | 154   |
| Other States Evac Traffic:                | 0     |
| Background Traffic:                       | 400   |

|                                                                                 |     |
|---------------------------------------------------------------------------------|-----|
| Hours for "last evac vehicle" to get from critical link to study area boundary: | 0.5 |
|---------------------------------------------------------------------------------|-----|

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 630.6                                   | 0                                           | 7.7                                      | 0                                       | 0.05                                      | 340                              | 0.85                                           | 978.3                                                     | -0.54                                   |
| 2                | 2522.4                                  | 0                                           | 30.8                                     | 0                                       | 0.2                                       | 220                              | 0.55                                           | 2773.2                                                    | 0.46                                    |
| 3                | 630.6                                   | 0                                           | 7.7                                      | 0                                       | 0.5                                       | 80                               | 0.2                                            | 6463                                                      | 2.83                                    |
| 4                | 2522.4                                  | 0                                           | 30.8                                     | 0                                       | 0.2                                       | 40                               | 0.1                                            | 2593.2                                                    | 0.54                                    |
| 5                | 630.6                                   | 0                                           | 7.7                                      | 0                                       | 0.05                                      | 0                                | 0                                              | 638.3                                                     | -0.7                                    |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 13446                                                     |                                         |

7.591556082 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 8.091556082 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 252.24                                  | 0                                           | 3.08                                     | 0                                       | 0.02                                      | 380                              | 0.95                                           | 635.32                                                    | -0.7                                    |
| 2                | 1008.96                                 | 0                                           | 12.32                                    | 0                                       | 0.08                                      | 320                              | 0.8                                            | 1341.28                                                   | -0.36                                   |
| 3                | 1891.8                                  | 0                                           | 23.1                                     | 0                                       | 0.15                                      | 220                              | 0.55                                           | 2134.9                                                    | 0.12                                    |
| 4                | 3153                                    | 0                                           | 38.5                                     | 0                                       | 0.25                                      | 140                              | 0.35                                           | 3331.5                                                    | 0.75                                    |
| 5                | 3153                                    | 0                                           | 38.5                                     | 0                                       | 0.25                                      | 80                               | 0.2                                            | 3271.5                                                    | 0.94                                    |
| 6                | 1891.8                                  | 0                                           | 23.1                                     | 0                                       | 0.15                                      | 40                               | 0.1                                            | 1954.9                                                    | 0.16                                    |
| 7                | 1008.96                                 | 0                                           | 12.32                                    | 0                                       | 0.08                                      | 20                               | 0.05                                           | 1041.28                                                   | -0.51                                   |
| 8                | 252.24                                  | 0                                           | 3.08                                     | 0                                       | 0.02                                      | 0                                | 0                                              | 255.32                                                    | -0.88                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 13966                                                     |                                         |

7.53 hours of evac travel demand  
 0.5 hours to get "last evac vehicle" to study area boundary  
 8.03 total hours of evac travel demand

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS w/Inlet Village Sector**  
 US 1 Intracoastal Waterway Corridor Hurricane Evac Impact Analysis

Critical Link: Indiantown Rd from Center Street to Central Blvd  
 Scenario: Cat 3-5 high occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |       |
|-------------------------------------------|-------|
| Local Baseline County Evacuating Traffic: | 13840 |
| Mixed Use Commercial Sector Evac Traffic: | 0     |
| Inlet Village Sector Evac Traffic:        | 192   |
| Other States Evac Traffic:                | 0     |
| Background Traffic:                       | 800   |

Hours for "last evac vehicle" to get from critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 692                                        | 0                                              | 9.6                                         | 0                                          | 0.05                                            | 680                                 | 0.85                                                    | 1381.6                                                          | -0.35                                         |
| 2                | 2768                                       | 0                                              | 38.4                                        | 0                                          | 0.2                                             | 440                                 | 0.55                                                    | 3246.4                                                          | 0.71                                          |
| 3                | 6920                                       | 0                                              | 96                                          | 0                                          | 0.5                                             | 160                                 | 0.2                                                     | 7176                                                            | 3.25                                          |
| 4                | 2768                                       | 0                                              | 38.4                                        | 0                                          | 0.2                                             | 80                                  | 0.1                                                     | 2886.4                                                          | 0.71                                          |
| 5                | 692                                        | 0                                              | 9.6                                         | 0                                          | 0.05                                            | 0                                   | 0                                                       | 701.6                                                           | -0.67                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 15392                                                           |                                               |

8.66 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

9.16 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 276.8                                      | 0                                              | 3.84                                        | 0                                          | 0.02                                            | 760                                 | 0.95                                                    | 1040.64                                                         | -0.51                                         |
| 2                | 1107.2                                     | 0                                              | 15.36                                       | 0                                          | 0.08                                            | 640                                 | 0.8                                                     | 1762.56                                                         | -0.16                                         |
| 3                | 2076                                       | 0                                              | 28.8                                        | 0                                          | 0.15                                            | 440                                 | 0.55                                                    | 2544.8                                                          | 0.34                                          |
| 4                | 3460                                       | 0                                              | 48                                          | 0                                          | 0.25                                            | 280                                 | 0.35                                                    | 3788                                                            | 0.99                                          |
| 5                | 3460                                       | 0                                              | 48                                          | 0                                          | 0.25                                            | 160                                 | 0.2                                                     | 3668                                                            | 1.17                                          |
| 6                | 2076                                       | 0                                              | 28.8                                        | 0                                          | 0.15                                            | 80                                  | 0.1                                                     | 2184.8                                                          | 0.29                                          |
| 7                | 1107.2                                     | 0                                              | 15.36                                       | 0                                          | 0.08                                            | 40                                  | 0.05                                                    | 1162.56                                                         | -0.45                                         |
| 8                | 276.8                                      | 0                                              | 3.84                                        | 0                                          | 0.02                                            | 0                                   | 0                                                       | 280.64                                                          | -0.87                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 16432                                                           |                                               |

8.81 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

9.31 total hours of evac travel demand

## **Appendix D**

### **Hurricane Evacuation Spreadsheet Model with Mixed Use Commercial and Inlet Village Sectors**

**Town of Jupiter Area**  
**SOCIOECONOMIC DATA (With Mixed Use Commercial & Inlet Village Sectors)**  
*US 1 Intracoastal Waterway Corridor Hurricane Evac Impact Analysis*

| Census Tract                                               | Permanent Occupied Units | Change in Perm. Occupied Units | Mobile Home Units | Change in Mobile Home Units | Seasonal Tourist Units | Change in Tourist Units | People Per Permanent Unit | People Per Mobile Home Unit | People Per Tourist Unit | Vehicles Per Permanent Unit | Vehicles Per Mobile Home Unit | Vehicles Per Tourist Unit | Low Occupancy Tourist | High Occupancy Tourist |
|------------------------------------------------------------|--------------------------|--------------------------------|-------------------|-----------------------------|------------------------|-------------------------|---------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------------|---------------------------|-----------------------|------------------------|
| 1.02 (part) Jupiter Island/Jupiter Inlet Beh Colony        | 303                      | 0                              | 0                 | 0                           | 375                    | 0                       | 1.87                      | 1.87                        | 2.5                     | 1.46                        | 1.46                          | 1.1                       | 35%                   | 95%                    |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 3,558                    | 288                            | 206               | 0                           | 1,578                  | 155                     | 1.76                      | 1.76                        | 2.5                     | 1.47                        | 1.47                          | 1.1                       | 35%                   | 95%                    |
| 4.03 Jupiter/Juno Beh (e of ICW/n of D Ross Rd)            | 2,838                    | 0                              | 260               | 0                           | 952                    | 0                       | 1.92                      | 1.92                        | 2.5                     | 1.52                        | 1.52                          | 1.1                       | 35%                   | 95%                    |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 2,979                    | 0                              | 7                 | 0                           | 123                    | 0                       | 2.35                      | 2.35                        | 2.5                     | 1.65                        | 1.65                          | 1.05                      | 35%                   | 95%                    |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 1,000                    | 0                              | 0                 | 0                           | 100                    | 0                       | 1.87                      | 1.87                        | 2.5                     | 1.46                        | 1.46                          | 1.05                      | 35%                   | 95%                    |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             | 2,043                    | 0                              | 9                 | 0                           | 80                     | 0                       | 2.53                      | 2.53                        | 2.5                     | 1.67                        | 1.67                          | 1.05                      | 35%                   | 95%                    |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 1,420                    | 0                              | 0                 | 0                           | 75                     | 0                       | 2.43                      | 2.43                        | 2.5                     | 1.66                        | 1.66                          | 1.05                      | 35%                   | 95%                    |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA1A/e of Milt Trl)     | 1,207                    | 0                              | 0                 | 0                           | 70                     | 0                       | 2.54                      | 2.54                        | 2.5                     | 1.53                        | 1.53                          | 1.05                      | 35%                   | 95%                    |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 2,259                    | 0                              | 102               | 0                           | 138                    | 0                       | 2.37                      | 2.37                        | 2.5                     | 1.66                        | 1.66                          | 1.05                      | 35%                   | 95%                    |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 500                      | 0                              | 0                 | 0                           | 24                     | 0                       | 2.79                      | 2.79                        | 2.5                     | 1.85                        | 1.85                          | 1.05                      | 35%                   | 95%                    |
| 2.11 Loxahatchee River Rd area                             | 1,391                    | 0                              | 0                 | 0                           | 9                      | 0                       | 3.08                      | 3.08                        | 2.5                     | 2.25                        | 2.25                          | 1.05                      | 35%                   | 95%                    |
| 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          | 1,632                    | 0                              | 0                 | 0                           | 694                    | 0                       | 2.06                      | 2.06                        | 2.5                     | 1.81                        | 1.81                          | 1.05                      | 35%                   | 95%                    |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 851                      | 0                              | 0                 | 0                           | 0                      | 0                       | 2.79                      | 2.79                        | 2.5                     | 1.85                        | 1.85                          | 1.02                      | 35%                   | 95%                    |
| 2.12 Jupiter southwest inland area                         | 1,885                    | 0                              | 0                 | 0                           | 25                     | 0                       | 2.92                      | 2.92                        | 2.5                     | 1.90                        | 1.90                          | 1.02                      | 35%                   | 95%                    |
| 2.13 Jupiter Indian Crk inland area                        | 1,307                    | 0                              | 0                 | 0                           | 151                    | 0                       | 1.92                      | 1.92                        | 2.5                     | 1.23                        | 1.23                          | 1.02                      | 35%                   | 95%                    |
| 4.02 Juno Beh/Juno Isles s of D Ross Rd e of ICW           | 1,902                    | 0                              | 0                 | 0                           | 453                    | 0                       | 1.98                      | 1.98                        | 2.5                     | 1.43                        | 1.43                          | 1.1                       | 35%                   | 95%                    |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 500                      | 0                              | 0                 | 0                           | 100                    | 0                       | 2.33                      | 2.33                        | 2.5                     | 1.90                        | 1.90                          | 1.05                      | 35%                   | 95%                    |
| 3.03 Frenchman's Creek and The Sanctuary                   | 1,379                    | 0                              | 0                 | 0                           | 128                    | 0                       | 2.33                      | 2.33                        | 2.5                     | 1.90                        | 1.90                          | 1.02                      | 35%                   | 95%                    |
| Total                                                      | 28,954                   | 288                            | 584               | 0                           | 5,075                  |                         |                           |                             |                         |                             |                               |                           |                       |                        |

- Category 1-2 Evacuation Zones
- Category 3-5 Evacuation Zones
- Inland Evacuation Zone (Mobile Homes Only)

Please Note: Baseline socioeconomic data is based upon the 2000 Census, units along the ICW Corridor which received a Certificate of Occupancy between 2000 and Feb 2003, and units associated with the 53.3 acre Mixed-use Residential Sector

**Town of Jupiter Area**  
**EVACUATION PEOPLE AND VEHICLE STATISTICS (With Mixed-Use Commercial and Inlet Village Sectors)**  
*US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis*

| Census Tract                                               | Evacuating People                                   |                                 |                                |                                 | Local Public Shelter Demand(People) |                                  |                                 |                                  | Evacuating Vehicles            |                                 |                                |                                 | Evac Vehicles to Public Shelter             |                                              |                                             |                                              |
|------------------------------------------------------------|-----------------------------------------------------|---------------------------------|--------------------------------|---------------------------------|-------------------------------------|----------------------------------|---------------------------------|----------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------------------|----------------------------------------------|---------------------------------------------|----------------------------------------------|
|                                                            | Cat 1-2<br>Evac Pop<br>Low Occ                      | Cat 1-2<br>Evac Pop<br>High Occ | Cat 3-5<br>Evac Pop<br>Low Occ | Cat 3-5<br>Evac Pop<br>High Occ | Cat 1-2<br>PS Demand<br>Low Occ     | Cat 1-2<br>PS Demand<br>High Occ | Cat 3-5<br>PS Demand<br>Low Occ | Cat 3-5<br>PS Demand<br>High Occ | Cat 1-2<br>Evac Veh<br>Low Occ | Cat 1-2<br>Evac Veh<br>High Occ | Cat 3-5<br>Evac Veh<br>Low Occ | Cat 3-5<br>Evac Veh<br>High Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>Low Occ | Cat 1-2<br>Vehicle<br>Scenario A<br>High Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>Low Occ | Cat 3-5<br>Vehicle<br>Scenario B<br>High Occ |
|                                                            | 1.02 (part) Jupiter Island/Jupiter Inlet Beh Colony | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.04 Jupiter (e of ICW/thru Olympus)                       | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.03 Jupiter/Juno Beh (e of ICW/n of D Ross Rd)            | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 1.01 Tequesta/Jupiter (n of Lox/w of Old Dix Hwy)          | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 1.02(part)Tequesta (e of Old Dix Hwy/w of Jupiter Snd)     | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.02 Jupiter (n of Indiantown Rd/ w of AltA!A)             | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.04 Jupiter (s of Indtwn Rd/w of Mil Trail/n of T Penna)  | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.05 Jupiter(s of Indtwn Rd/w of AltA!A/e of Milt Trl)     | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.06 Jupiter(s of T Penna/n of Ind Crk Pkwy/w of Milt Trl) | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.10(part) Shores of Jup/North Fork e of Limestone Crk Rd  | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.11 Loxahatchee River Rd area                             | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.01 Jupiter/Paradise Port (e of AltA!A/w of ICW)          | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.10(part) Shores of Jup/w of Limestone Crk Rd             | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.12 Jupiter southwest inland area                         | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 2.13 Jupiter Indian Crk inland area                        | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 4.02 Juno Bch/Juno Isles s of D Ross Rd e of ICW           | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.03 Area betwn Prosperity Farms Rd and ICW s of D Ross    | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| 3.03 Frenchman's Creek and The Sanctuary                   | 0                                                   | 0                               | 0                              | 0                               | 0                                   | 0                                | 0                               | 0                                | 0                              | 0                               | 0                              | 0                               | 0                                           | 0                                            | 0                                           | 0                                            |
| <b>Total</b>                                               | <b>0</b>                                            | <b>0</b>                        | <b>0</b>                       | <b>0</b>                        | <b>0</b>                            | <b>0</b>                         | <b>0</b>                        | <b>0</b>                         | <b>0</b>                       | <b>0</b>                        | <b>0</b>                       | <b>0</b>                        | <b>0</b>                                    | <b>0</b>                                     | <b>0</b>                                    | <b>0</b>                                     |

- Category 1-2 Evacuation Zones
- Category 3-5 Evacuation Zones
- Inland Evacuation Zone (Mobile Homes Only)



**Town of Jupiter Area**  
**EVACUATION PEOPLE AND VEHICLE STATISTICS (With Mixed-Use Commercial and Inlet Village Sectors)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

| Evacuating Vehicles From Base Year 2003 Model |                                |                              |                               | Evac Vehicles to Out of County from Base Yr 2000 Model |                                   |                                  |                                   | Evacuating Vehicles Change from Base Yr 2003 Model |                                |                              |                               | Evac Vehicles to Out of County Change from Base Yr 2003 Model |                                    |                                 |                                  |
|-----------------------------------------------|--------------------------------|------------------------------|-------------------------------|--------------------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------------------------|--------------------------------|------------------------------|-------------------------------|---------------------------------------------------------------|------------------------------------|---------------------------------|----------------------------------|
| Cat1-2<br>Evac Veh<br>Low Occ                 | Cat1-2<br>Evac Veh<br>High Occ | Cat 3<br>Evac Veh<br>Low Occ | Cat 3<br>Evac Veh<br>High Occ | Cat 1-2<br>Veh Scen A<br>Low Occ                       | Cat 1-2<br>Veh Scen A<br>High Occ | Cat 3-5<br>Veh Scen B<br>Low Occ | Cat 3-5<br>Veh Scen B<br>High Occ | Cat1-2<br>Evac Veh<br>Low Occ                      | Cat1-2<br>Evac Veh<br>High Occ | Cat 3<br>Evac Veh<br>Low Occ | Cat 3<br>Evac Veh<br>High Occ | Cat 1-2<br>Veh Cat 1-2<br>Low Occ                             | Cat 1-2<br>Veh Cat 1-2<br>High Occ | Cat 3-5<br>Veh Cat 3<br>Low Occ | Cat 3-5<br>Veh Cat 3<br>High Occ |
| 498                                           | 746                            | 498                          | 746                           | 284                                                    | 530                               | 355                              | 600                               | 498                                                | 746                            | 498                          | 746                           | -284                                                          | -530                               | -355                            | -600                             |
| 4393                                          | 5333                           | 4393                         | 5333                          | 2081                                                   | 3010                              | 2850                             | 3779                              | 4393                                               | 5333                           | 4393                         | 5333                          | -2081                                                         | -3010                              | -2850                           | -3779                            |
| 3818                                          | 4446                           | 3818                         | 4446                          | 1743                                                   | 2365                              | 2433                             | 3055                              | 3818                                               | 4446                           | 3818                         | 4446                          | -1743                                                         | -2365                              | -2433                           | -3055                            |
| 63                                            | 101                            | 3486                         | 3563                          | 34                                                     | 73                                | 1765                             | 1842                              | 63                                                 | 101                            | 3486                         | 3563                          | -34                                                           | -73                                | -1765                           | -1842                            |
| 29                                            | 60                             | 1059                         | 1122                          | 21                                                     | 52                                | 547                              | 610                               | 29                                                 | 60                             | 1059                         | 1122                          | -21                                                           | -52                                | -547                            | -610                             |
| 46                                            | 71                             | 2418                         | 2468                          | 24                                                     | 49                                | 1223                             | 1273                              | 46                                                 | 71                             | 2418                         | 2468                          | -24                                                           | -49                                | -1223                           | -1273                            |
| 30                                            | 54                             | 1678                         | 1725                          | 19                                                     | 42                                | 852                              | 899                               | 30                                                 | 54                             | 1678                         | 1725                          | -19                                                           | -42                                | -852                            | -899                             |
| 26                                            | 48                             | 1318                         | 1363                          | 17                                                     | 38                                | 672                              | 715                               | 26                                                 | 48                             | 1318                         | 1363                          | -17                                                           | -38                                | -672                            | -715                             |
| 133                                           | 177                            | 2676                         | 2763                          | 58                                                     | 101                               | 1363                             | 1449                              | 133                                                | 177                            | 2676                         | 2763                          | -58                                                           | -101                               | -1363                           | -1449                            |
| 11                                            | 18                             | 656                          | 671                           | 6                                                      | 14                                | 332                              | 347                               | 11                                                 | 18                             | 656                          | 671                           | -6                                                            | -14                                | -332                            | -347                             |
| 24                                            | 26                             | 2194                         | 2200                          | 8                                                      | 11                                | 1099                             | 1104                              | 24                                                 | 26                             | 2194                         | 2200                          | -8                                                            | -11                                | -1099                           | -1104                            |
| 148                                           | 367                            | 2323                         | 2760                          | 132                                                    | 349                               | 1286                             | 1719                              | 148                                                | 367                            | 2323                         | 2760                          | -132                                                          | -349                               | -1286                           | -1719                            |
| 0                                             | 0                              | 33                           | 33                            | 0                                                      | 0                                 | 13                               | 13                                | 0                                                  | 0                              | 33                           | 33                            | 0                                                             | 0                                  | -13                             | -13                              |
| 4                                             | 12                             | 84                           | 99                            | 4                                                      | 12                                | 39                               | 54                                | 4                                                  | 12                             | 84                           | 99                            | -4                                                            | -12                                | -39                             | -54                              |
| 27                                            | 73                             | 88                           | 180                           | 27                                                     | 72                                | 67                               | 158                               | 27                                                 | 73                             | 88                           | 180                           | -27                                                           | -72                                | -67                             | -158                             |
| 2263                                          | 2413                           | 2350                         | 2649                          | 957                                                    | 1105                              | 1478                             | 1774                              | 2263                                               | 2413                           | 2350                         | 2649                          | -957                                                          | -1105                              | -1478                           | -1774                            |
| 25                                            | 57                             | 702                          | 765                           | 20                                                     | 51                                | 369                              | 431                               | 25                                                 | 57                             | 702                          | 765                           | -20                                                           | -51                                | -369                            | -431                             |
| 23                                            | 62                             | 101                          | 179                           | 23                                                     | 61                                | 67                               | 145                               | 23                                                 | 62                             | 101                          | 179                           | -23                                                           | -61                                | -67                             | -145                             |
| 11561                                         | 14064                          | 29875                        | 33065                         | 5458                                                   | 7935                              | 16810                            | 19967                             | 11561                                              | 14064                          | 29875                        | 33065                         | -5458                                                         | -7935                              | -16810                          | -19967                           |

**Town of Jupiter Area**  
**EVACUATING VEHICLES BY CRITICAL ROADWAY SEGMENT**  
**(With Mixed-Use Commercial and Inlet Village Sectors)**  
**US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis**

| Evacuation Roadway Segment             | Evacuation Service Volume Veh per hr | Cat 1-2 Evac Veh Low Occ | Change From Base Model | New Cat 1-2 Evac Veh Low Occ | Cat 1-2 Evac Veh High Occ | Change From Base Model | New Cat 1-2 Evac Veh High Occ | Cat 3-5 Evac Veh Low Occ | Change From Base Model | New Cat 3-5 Evac Veh Low Occ | Cat 3-5 Evac Veh High Occ | Change From Base Model | New Cat 3-5 Evac Veh High Occ |
|----------------------------------------|--------------------------------------|--------------------------|------------------------|------------------------------|---------------------------|------------------------|-------------------------------|--------------------------|------------------------|------------------------------|---------------------------|------------------------|-------------------------------|
| Indiantown from A1A to US1             | 1360                                 | 3075                     | 0                      | 3075                         | 3733                      | 0                      | 3733                          | 3075                     | 0                      | 3075                         | 3733                      | 0                      | 3733                          |
| Indiantown from US1 to Alt A1A         | 2110                                 | 4807                     | 0                      | 4807                         | 6036                      | 0                      | 6036                          | 6616                     | 0                      | 6616                         | 7976                      | 0                      | 7976                          |
| Indiantown from Alt A1A to Military Tr | 2110                                 | 4613                     | 0                      | 4613                         | 5809                      | 0                      | 5809                          | 9354                     | 0                      | 9354                         | 10708                     | 0                      | 10708                         |
| Indiantown from Military Tr to Cntr St | 2110                                 | 4208                     | 0                      | 4208                         | 5310                      | 0                      | 5310                          | 11080                    | 0                      | 11080                        | 12364                     | 0                      | 12364                         |
| Indiantown from Cntr St to Cent Blvd   | 2110                                 | 3890                     | 0                      | 3890                         | 4931                      | 0                      | 4931                          | 12612                    | 0                      | 12612                        | 13840                     | 0                      | 13840                         |
| Indiantown from Central Blvd to I-95   | 2110                                 | 3654                     | 0                      | 3654                         | 4663                      | 0                      | 4663                          | 12119                    | 0                      | 12119                        | 13345                     | 0                      | 13345                         |
| Indiantown from I-95 to Fla Trmpk      | 2110                                 | 2035                     | 0                      | 2035                         | 2597                      | 0                      | 2597                          | 7295                     | 0                      | 7295                         | 7981                      | 0                      | 7981                          |
| Donald Ross Rd                         | 1810                                 | 6052                     | 0                      | 6052                         | 7003                      | 0                      | 7003                          | 9018                     | 0                      | 9018                         | 10320                     | 0                      | 10320                         |

**Town of Jupiter Area**  
**CLEARANCE TIME SUMMARY (in hours to clear all evacuees)**  
**(With Mixed-Use Commercial and Inlet Village Sectors)**  
*US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis*

Actual Total Clearance Times

| Rapidity of Behavioral Response | Cat 1-2<br>Low Occ | Cat 1-2<br>High Occ | Cat 3-5<br>Low Occ | Cat 3-5<br>High Occ |
|---------------------------------|--------------------|---------------------|--------------------|---------------------|
| RAPID                           | 5.5                | 5.5                 | 0                  | 0                   |
| MEDIUM                          | 8.5                | 8.5                 | 8.5                | 0                   |

Raw Travel Demand Time

| Rapidity of Behavioral Response | Cat 1-2<br>Low Occ | Cat 1-2<br>High Occ | Cat 3-5<br>Low Occ | Cat 3-5<br>High Occ |
|---------------------------------|--------------------|---------------------|--------------------|---------------------|
| RAPID                           | 0                  | 0                   | 0                  | 0                   |
| MEDIUM                          | 0                  | 0                   | 0                  | 0                   |

Behavioral Response/Duration of Traffic Loading

| Rapidity of Behavioral Response | Cat 1-2<br>Low Occ | Cat 1-2<br>High Occ | Cat 3-5<br>Low Occ | Cat 3-5<br>High Occ |
|---------------------------------|--------------------|---------------------|--------------------|---------------------|
| RAPID                           | 5.5                | 5.5                 | 5.5                | 5.5                 |
| MEDIUM                          | 8.5                | 8.5                 | 8.5                | 8.5                 |

**Town of Jupiter Area**

**DETAILED CLEARANCE TIME CALCULATIONS (With Mixed-Use Commercial & Inlet Village Sectors)**

US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from US1 to Alt A1A

Scenario: Cat 1/2 low occupancy

Roadway Capacity Assumptions

|                                                    |             |
|----------------------------------------------------|-------------|
| Hourly Service Volume (1st quarter of evacuation): | 2110        |
| Hourly Service Volume (2nd quarter of evacuation): | <u>1899</u> |
| Hourly Service Volume (3rd quarter of evacuation): | <u>1688</u> |
| Hourly Service Volume (4th quarter of evacuation): | <u>2110</u> |

Travel Demand Assumptions

|                                           |            |
|-------------------------------------------|------------|
| Local Baseline County Evacuating Traffic: | 4807       |
| Mixed Use Commercial Sector Evac Traffic: | <u>184</u> |
| Inlet Village Sector Evac Traffic:        | <u>195</u> |
| Other States Evac Traffic:                | <u>0</u>   |
| Background Traffic:                       | <u>400</u> |

Hours for "last evac vehicle" to get from critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|------------------------------------------|-----------------------------------------|
| 1                | 240.35                                  | 9.2                                         | 9.75                                     | 0                                       | 0.05                                      | 340                              | 0.85                                           | 599.3                                    | -0.72                                   |
| 2                | 961.4                                   | 36.8                                        | 39                                       | 0                                       | 0.2                                       | 220                              | 0.55                                           | 1257.2                                   | -0.34                                   |
| 3                | 2403.5                                  | 92                                          | 97.5                                     | 0                                       | 0.5                                       | 80                               | 0.2                                            | 2673                                     | 0.58                                    |
| 4                | 961.4                                   | 36.8                                        | 39                                       | 0                                       | 0.2                                       | 40                               | 0.1                                            | 1077.2                                   | -0.36                                   |
| 5                | 240.35                                  | 9.2                                         | 9.75                                     | 0                                       | 0.05                                      | 0                                | 0                                              | 259.3                                    | -0.88                                   |

5866

3.290634544 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

3.790634544 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|------------------------------------------|-----------------------------------------|
| 1                | 96.14                                   | 3.68                                        | 3.9                                      | 0                                       | 0.02                                      | 380                              | 0.95                                           | 483.72                                   | -0.77                                   |
| 2                | 384.56                                  | 14.72                                       | 15.6                                     | 0                                       | 0.08                                      | 320                              | 0.8                                            | 734.88                                   | -0.65                                   |
| 3                | 721.05                                  | 27.6                                        | 29.25                                    | 0                                       | 0.15                                      | 220                              | 0.55                                           | 997.9                                    | -0.47                                   |
| 4                | 1201.75                                 | 46                                          | 48.75                                    | 0                                       | 0.25                                      | 140                              | 0.35                                           | 1436.5                                   | -0.24                                   |
| 5                | 1201.75                                 | 46                                          | 48.75                                    | 0                                       | 0.25                                      | 80                               | 0.2                                            | 1376.5                                   | -0.18                                   |
| 6                | 721.05                                  | 27.6                                        | 29.25                                    | 0                                       | 0.15                                      | 40                               | 0.1                                            | 817.9                                    | -0.52                                   |
| 7                | 384.56                                  | 14.72                                       | 15.6                                     | 0                                       | 0.08                                      | 20                               | 0.05                                           | 434.88                                   | -0.79                                   |
| 8                | 96.14                                   | 3.68                                        | 3.9                                      | 0                                       | 0.02                                      | 0                                | 0                                              | 103.72                                   | -0.95                                   |

6386

3.414734071 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

3.914734071 total hours of evac travel demand

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS (With Mixed-Use Commercial & Inlet Village Sectors)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from US1 to Alt A1A  
 Scenario: Cat 1/2 high occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |      |
|-------------------------------------------|------|
| Local Baseline County Evacuating Traffic: | 6036 |
| Mixed Use Commercial Sector Evac Traffic: | 232  |
| Inlet Village Sector Evac Traffic:        | 243  |
| Other States Evac Traffic:                | 0    |
| Background Traffic:                       | 800  |

Hours for "last evac vehicle" to get from critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response                                            | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet-Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|-------------------------------------------------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                                                           | 301.8                                   | 11.6                                        | 12.15                                    | 0                                       | 0.05                                      | 680                              | 0.85                                           | 1005.55                                                   | -0.52                                   |
| 2                                                           | 1207.2                                  | 46.4                                        | 48.6                                     | 0                                       | 0.2                                       | 440                              | 0.55                                           | 1742.2                                                    | -0.08                                   |
| 3                                                           | 3018                                    | 116                                         | 121.5                                    | 0                                       | 0.5                                       | 160                              | 0.2                                            | 3415.5                                                    | 1.02                                    |
| 4                                                           | 1207.2                                  | 46.4                                        | 48.6                                     | 0                                       | 0.2                                       | 80                               | 0.1                                            | 1382.2                                                    | -0.18                                   |
| 5                                                           | 301.8                                   | 11.6                                        | 12.15                                    | 0                                       | 0.05                                      | 0                                | 0                                              | 325.55                                                    | -0.85                                   |
|                                                             |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 7871                                                      |                                         |
| 4.390522643 hours of evac travel demand                     |                                         |                                             |                                          |                                         |                                           |                                  |                                                |                                                           |                                         |
| 0.5 hours to get "last evac vehicle" to study area boundary |                                         |                                             |                                          |                                         |                                           |                                  |                                                |                                                           |                                         |
| 4.890522643 total hours of evac travel demand               |                                         |                                             |                                          |                                         |                                           |                                  |                                                |                                                           |                                         |

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response                                            | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed Use Comm Sector Ev Traf | (vehicles)<br>Inlet-Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|-------------------------------------------------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                                                           | 120.72                                  | 4.64                                        | 4.86                                     | 0                                       | 0.02                                      | 760                              | 0.95                                           | 890.22                                                    | -0.58                                   |
| 2                                                           | 482.88                                  | 18.56                                       | 19.44                                    | 0                                       | 0.08                                      | 640                              | 0.8                                            | 1160.88                                                   | -0.45                                   |
| 3                                                           | 905.4                                   | 34.8                                        | 36.45                                    | 0                                       | 0.15                                      | 440                              | 0.55                                           | 1416.65                                                   | -0.25                                   |
| 4                                                           | 1509                                    | 58                                          | 60.75                                    | 0                                       | 0.25                                      | 280                              | 0.35                                           | 1907.75                                                   | 0.01                                    |
| 5                                                           | 1509                                    | 58                                          | 60.75                                    | 0                                       | 0.25                                      | 160                              | 0.2                                            | 1787.75                                                   | 0.06                                    |
| 6                                                           | 905.4                                   | 34.8                                        | 36.45                                    | 0                                       | 0.15                                      | 80                               | 0.1                                            | 1056.65                                                   | -0.37                                   |
| 7                                                           | 482.88                                  | 18.56                                       | 19.44                                    | 0                                       | 0.08                                      | 40                               | 0.05                                           | 560.88                                                    | -0.73                                   |
| 8                                                           | 120.72                                  | 4.64                                        | 4.86                                     | 0                                       | 0.02                                      | 0                                | 0                                              | 130.22                                                    | -0.94                                   |
|                                                             |                                         |                                             |                                          |                                         |                                           |                                  |                                                | 8911                                                      |                                         |
| 4.735297525 hours of evac travel demand                     |                                         |                                             |                                          |                                         |                                           |                                  |                                                |                                                           |                                         |
| 0.5 hours to get "last evac vehicle" to study area boundary |                                         |                                             |                                          |                                         |                                           |                                  |                                                |                                                           |                                         |
| 5.235297525 total hours of evac travel demand               |                                         |                                             |                                          |                                         |                                           |                                  |                                                |                                                           |                                         |

**Town of Jupiter Area**

**DETAILED CLEARANCE TIME CALCULATIONS (With Mixed-Use Commercial & Inlet Village Sectors)**

US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from Center Street to Central Blvd

Scenario: Cat 3-5 low occupancy

Roadway Capacity Assumptions

|                                                    |             |
|----------------------------------------------------|-------------|
| Hourly Service Volume (1st quarter of evacuation): | 2110        |
| Hourly Service Volume (2nd quarter of evacuation): | <u>1899</u> |
| Hourly Service Volume (3rd quarter of evacuation): | <u>1688</u> |
| Hourly Service Volume (4th quarter of evacuation): | <u>2110</u> |

Travel Demand Assumptions

|                                           |            |
|-------------------------------------------|------------|
| Local Baseline County Evacuating Traffic: | 12612      |
| Mixed Use Commercial Sector Evac Traffic: | <u>146</u> |
| Inlet Village Sector Evac Traffic:        | <u>154</u> |
| Other States Evac Traffic:                | <u>0</u>   |
| Background Traffic:                       | <u>400</u> |

|                                                                                 |            |
|---------------------------------------------------------------------------------|------------|
| Hours for "last evac vehicle" to get from critical link to study area boundary: | <u>0.5</u> |
|---------------------------------------------------------------------------------|------------|

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed-Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 630.6                                   | 7.3                                         | 7.7                                      | 0                                       | 0.05                                      | 340                              | 0.85                                           | 985.6                                                     | -0.53                                   |
| 2                | 2522.4                                  | 29.2                                        | 30.8                                     | 0                                       | 0.2                                       | 220                              | 0.55                                           | 2802.4                                                    | 0.48                                    |
| 3                | 630.6                                   | 7.3                                         | 7.7                                      | 0                                       | 0.5                                       | 80                               | 0.2                                            | 6536                                                      | 2.87                                    |
| 4                | 2522.4                                  | 29.2                                        | 30.8                                     | 0                                       | 0.2                                       | 40                               | 0.1                                            | 2622.4                                                    | 0.55                                    |
| 5                | 630.6                                   | 7.3                                         | 7.7                                      | 0                                       | 0.05                                      | 0                                | 0                                              | 645.6                                                     | -0.69                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | <u>13592</u>                                              |                                         |

7.674397051 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

8.174397051 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County Evac Traffic | (vehicles)<br>Mixed-Use Comm Sector Ev Traf | (vehicles)<br>Inlet Village Evac Traffic | (vehicles)<br>Other States Evac Traffic | Percent of Traffic Trying to Load by Hour | (vehicles)<br>Background Traffic | Diminishing Rate of Background Traffic by Hour | (vehicles)<br>Theoretical Hr by Hr Traffic Demand at Link | (hours)<br>Queuing Delay by Response Hr |
|------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|-----------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------|-----------------------------------------------------------|-----------------------------------------|
| 1                | 252.24                                  | 2.92                                        | 3.08                                     | 0                                       | 0.02                                      | 380                              | 0.95                                           | 638.24                                                    | -0.7                                    |
| 2                | 1008.96                                 | 11.68                                       | 12.32                                    | 0                                       | 0.08                                      | 320                              | 0.8                                            | 1352.96                                                   | -0.36                                   |
| 3                | 1891.8                                  | 21.9                                        | 23.1                                     | 0                                       | 0.15                                      | 220                              | 0.55                                           | 2156.8                                                    | 0.14                                    |
| 4                | 3153                                    | 36.5                                        | 38.5                                     | 0                                       | 0.25                                      | 140                              | 0.35                                           | 3368                                                      | 0.77                                    |
| 5                | 3153                                    | 36.5                                        | 38.5                                     | 0                                       | 0.25                                      | 80                               | 0.2                                            | 3308                                                      | 0.96                                    |
| 6                | 1891.8                                  | 21.9                                        | 23.1                                     | 0                                       | 0.15                                      | 40                               | 0.1                                            | 1976.8                                                    | 0.17                                    |
| 7                | 1008.96                                 | 11.68                                       | 12.32                                    | 0                                       | 0.08                                      | 20                               | 0.05                                           | 1052.96                                                   | -0.5                                    |
| 8                | 252.24                                  | 2.92                                        | 3.08                                     | 0                                       | 0.02                                      | 0                                | 0                                              | 258.24                                                    | -0.88                                   |
|                  |                                         |                                             |                                          |                                         |                                           |                                  |                                                | <u>14112</u>                                              |                                         |

7.605244866 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

8.105244866 total hours of evac travel demand

**Town of Jupiter Area**  
**DETAILED CLEARANCE TIME CALCULATIONS (With Mixed-Use Commercial & Inlet Village Sectors)**  
 US 1 Intracoastal Waterway Corridor Hurricane Evacuation Impact Analysis

Critical Link: Indiantown Rd from Center Street to Central Blvd  
 Scenario: Cat 3-5 high occupancy

Roadway Capacity Assumptions

|                                                    |      |
|----------------------------------------------------|------|
| Hourly Service Volume (1st quarter of evacuation): | 2110 |
| Hourly Service Volume (2nd quarter of evacuation): | 1899 |
| Hourly Service Volume (3rd quarter of evacuation): | 1688 |
| Hourly Service Volume (4th quarter of evacuation): | 2110 |

Travel Demand Assumptions

|                                           |       |
|-------------------------------------------|-------|
| Local Baseline County Evacuating Traffic: | 13840 |
| Mixed Use Commercial Sector Evac Traffic: | 183   |
| Inlet Village Sector Evac Traffic:        | 192   |
| Other States Evac Traffic:                | 0     |
| Background Traffic:                       | 800   |

Hours for "last evac vehicle" to get from  
 critical link to study area boundary: 0.5

**RAPID RESPONSE-BEHAVIORAL RESPONSE CURVE A**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 692                                        | 9.15                                           | 9.6                                         | 0                                          | 0.05                                            | 680                                 | 0.85                                                    | 1390.75                                                         | -0.34                                         |
| 2                | 2768                                       | 36.6                                           | 38.4                                        | 0                                          | 0.2                                             | 440                                 | 0.55                                                    | 3283                                                            | 0.73                                          |
| 3                | 6920                                       | 91.5                                           | 96                                          | 0                                          | 0.5                                             | 160                                 | 0.2                                                     | 7267.5                                                          | 3.31                                          |
| 4                | 2768                                       | 36.6                                           | 38.4                                        | 0                                          | 0.2                                             | 80                                  | 0.1                                                     | 2923                                                            | 0.73                                          |
| 5                | 692                                        | 9.15                                           | 9.6                                         | 0                                          | 0.05                                            | 0                                   | 0                                                       | 710.75                                                          | -0.66                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 15575                                                           |                                               |

8.761802264 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

9.261802264 total hours of evac travel demand

**MEDIUM RESPONSE-BEHAVIORAL RESPONSE CURVE B**

| Hour of Response | (vehicles)<br>Local County<br>Evac Traffic | (vehicles)<br>Mixed Use Comm<br>Sector Ev Traf | (vehicles)<br>Inlet Village<br>Evac Traffic | (vehicles)<br>Other States<br>Evac Traffic | Percent of<br>Traffic Trying<br>to Load by Hour | (vehicles)<br>Background<br>Traffic | Diminishing<br>Rate of<br>Background<br>Traffic by Hour | (vehicles)<br>Theoretical<br>Hr by Hr Traffic<br>Demand at Link | (hours)<br>Queuing<br>Delay by<br>Response Hr |
|------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|
| 1                | 276.8                                      | 3.66                                           | 3.84                                        | 0                                          | 0.02                                            | 760                                 | 0.95                                                    | 1044.3                                                          | -0.51                                         |
| 2                | 1107.2                                     | 14.64                                          | 15.36                                       | 0                                          | 0.08                                            | 640                                 | 0.8                                                     | 1777.2                                                          | -0.16                                         |
| 3                | 2076                                       | 27.45                                          | 28.8                                        | 0                                          | 0.15                                            | 440                                 | 0.55                                                    | 2572.25                                                         | 0.35                                          |
| 4                | 3460                                       | 45.75                                          | 48                                          | 0                                          | 0.25                                            | 280                                 | 0.35                                                    | 3833.75                                                         | 1.02                                          |
| 5                | 3460                                       | 45.75                                          | 48                                          | 0                                          | 0.25                                            | 160                                 | 0.2                                                     | 3713.75                                                         | 1.2                                           |
| 6                | 2076                                       | 27.45                                          | 28.8                                        | 0                                          | 0.15                                            | 80                                  | 0.1                                                     | 2212.25                                                         | 0.31                                          |
| 7                | 1107.2                                     | 14.64                                          | 15.36                                       | 0                                          | 0.08                                            | 40                                  | 0.05                                                    | 1177.2                                                          | -0.44                                         |
| 8                | 276.8                                      | 3.66                                           | 3.84                                        | 0                                          | 0.02                                            | 0                                   | 0                                                       | 284.3                                                           | -0.87                                         |
|                  |                                            |                                                |                                             |                                            |                                                 |                                     |                                                         | 16615                                                           |                                               |

8.913875724 hours of evac travel demand

0.5 hours to get "last evac vehicle" to study area boundary

9.413875724 total hours of evac travel demand