



FLORIDA
DEPARTMENT *of*
ECONOMIC
OPPORTUNITY

Behavioral Studies

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Area of Critical State Concern Program



Behavioral Studies/Analysis

- Residents – telephone surveys (included site-built and mobile homes)
- Tourists – behavior in evacuations from previous studies



Use of Survey Findings

- Intended responses
- Responses in past threats
- Responses in past threats in other locations
- Factors usually correlated with actual response



Key Findings

- Evacuees do not leave at the same time
- 15-20% of any type of housing leave before an evacuation order
- People prefer not to evacuate at night but will do so if necessary. Examples are Eloise, Elena, and Opal
- The most significant factor affecting response is the urgency of the evacuation order



Maximum probable participation rates

| | Storm Threat Scenarios | | | | | |
|-------------|------------------------|--------|------------|--------|------------|--------|
| | Category 3 | | Category 4 | | Category 5 | |
| | Site-built | Mobile | Site-built | Mobile | Site-built | Mobile |
| Upper Keys | 70 | 85 | 80 | 90 | 90 | 95 |
| Middle Keys | 75 | 85 | 85 | 90 | 90 | 95 |
| Lower Keys | 70 | 85 | 80 | 90 | 90 | 95 |
| Key West | 70 | 85 | 80 | 90 | 90 | 95 |



Number of Vehicles per evacuating households

| | Site-built | Mobile |
|-------------|------------|--------|
| Upper Keys | 1.30 | 1.13 |
| Middle Keys | 1.29 | 1.14 |
| Lower Keys | 1.47 | 1.30 |
| Key West | 1.09 | 0.96 |



Vehicle Usage Rates

| | Storm Threat Scenarios | | | | | |
|-------------|------------------------|--------|------------|--------|------------|--------|
| | Category 3 | | Category 4 | | Category 5 | |
| | Site-built | Mobile | Site-built | Mobile | Site-built | Mobile |
| Upper Keys | 75 | 80 | 75 | 80 | 75 | 80 |
| Middle Keys | 75 | 80 | 75 | 80 | 75 | 80 |
| Lower Keys | 75 | 80 | 75 | 80 | 75 | 80 |
| Key West | 80 | 85 | 80 | 85 | 80 | 85 |



Public Shelter Use Rates

| | Storm Threat Scenarios | | | | | |
|-------------|------------------------|--------|------------|--------|------------|--------|
| | Category 3 | | Category 4 | | Category 5 | |
| | Site-built | Mobile | Site-built | Mobile | Site-built | Mobile |
| Upper Keys | 2 | 5 | 2 | 10 | 2 | 10 |
| Middle Keys | 2 | 5 | 2 | 10 | 2 | 10 |
| Lower Keys | 2 | 5 | 5 | 10 | 5 | 10 |
| Key West | 2 | 5 | 5 | 10 | 5 | 10 |



Hotel/Motel

- Hotel/Motel include all establishments registered with Florida Department of Business and Professional Regulation and rented for a period of 28 days or fewer
- The term is interchangeable with transient



Behavioral Information

- Hotel/Motel
 - 93% would evacuate the first day
 - 30% would close within 12 hours of the evacuation order
 - 66% would close within 24 hours of the evacuation order
 - 18% would not close until landfall
 - 3% would not close



Percentage of hoteliers who would tell guests they must evacuate out of the Keys

| | Keys | Key Largo | Islamorada | Marathon | Key West |
|----------------|------|-----------|------------|----------|----------|
| Would Tell | 94 | 90 | 91 | 93 | 97 |
| Would not Tell | 6 | 10 | 9 | 7 | 3 |



Questions from the Committee?

