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FLORIDA  
DEPARTMENT *of*  
ECONOMIC  
OPPORTUNITY

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# Scenario Results

Barbara Powell – Planning Analyst  
Area of Critical State Concern Program

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# Data Update

- Model data updated with
  - 2010 Census Data
    - Dwelling Units
    - Vehicles per Unit
    - Occupancy Rate
    - Persons per Occupied Unit
  - Smith Travel Research (2011)
    - Hotel Occupancy



# Assumptions – Tourist Units

- Tourist Units - 13,665
- Average Auto Use – 1.1 cars per unit
- Occupancy ranges from 67-90%
- July represents the highest hotel occupancy rates



# Assumptions – Mobile Homes

- Mobile Home Units – 8,134
- Average Auto use – 1.1 – 1.5 cars per unit
- Average Occupancy – 42-80%



# Assumptions – Site-built

- Site-built Units – 44,630
- Average Auto use – 1.49 – 1.5 cars per unit
- Average Occupancy – 49-81%



# Assumptions – Special Populations

- NAS – Key West – 2,025 vehicles
- Florida Keys Community College – 100 vehicles



# Trends

- Conversion of 30.6% of mobile homes to site built homes in the past 20 years
- Occupancy rate has declined 9.2% since the 2000 Census



# Scenarios

		Category 3/ Level C	Category 4/ Level D	Category 5/ Level E
Participation		70%	80%	90%
1	2010 Census site-built units <b>(44,630)</b>	19 hours	21 hours	23 hours
2	2010 Census site-built units with full allocation for 10 years <b>(44,630 + 3,540)</b>	19 hours & 30 minutes	22 hours	24 hours
3	2010 Census site-built units with 50% decrease in current allocation for 10 years <b>(44,630 + 1,780)</b>	19 hours & 30 minutes	21 hours & 30 minutes	23 hours & 30 minutes
4	2010 Census site-built units with 25% decrease in current allocation for 10 years <b>(44,630 + 2,660)</b>	19 hours & 30 minutes	21 hours & 30 minutes	23 hours & 30 minutes





# Scenarios

		Category 3/ Level C	Category 4/ Level D	Category 5/ Level E
Participation		70%	80%	90%
6	2010 Census site-built units with full allocation for 10 years with 1,248 mobile homes (projected conversion to site-built) <b>(44,630 + 3,540 + 1,248)</b>	20 hours	22 hours & 30 minutes	<b>24 hours &amp; 30 minutes</b>
7	2010 Census site-built units with 50% decrease in current allocation for 10 years with 1,248 mobile homes <b>(44,630 + 1,780 + 1,248)</b>	19 hours & 30 minutes	21 hours & 30 minutes	24 hours
8	2010 Census site-built units with 25% decrease in current allocation for 10 years with 1,248 mobile homes <b>(44,630 + 2,660 + 1,248)</b>	20 hours	22 hours	24 hours



# Scenarios

		Category 5/ Level E
		100%
25	2010 Census site-built units and mobile homes <b>(44,630 + 8,134)</b>	<b>25 hours &amp; 30 minutes</b>
14	2010 Census site-built units with 50% decrease in current allocation for 10 years and all mobile homes <b>(44,630 + 8,134 + 1,780 )</b>	<b>26 hours &amp; 30 minutes</b>
15	2010 Census site-built units with 25% decrease in current allocation for 10 years and all mobile homes <b>(44,630 + 8,134 + 2,660)</b>	<b>26 hours &amp; 30 minutes</b>
5	2010 Census site-built units with full allocation for 10 years and all mobile homes <b>(44,630 + 8,134 + 3,540)</b>	<b>27 hours</b>



# Scenarios

		Participation	100%
9	Existing Hotel units, 100 hotel units in Marathon, Mobile homes, Military modeled using hotel occupancy rates for July <b>(13,665 units + 100 units + 8,134 units + 2,025 vehicles)</b>		16 hours & 30 minutes
10	Existing Hotel units, 100 hotel units in Marathon, Mobile homes, Military modeled using hotel occupancy rates for October <b>(13,665 units + 100 units + 8,134 units + 2,025 vehicles)</b>		15 hours & 30 minutes
11	Existing Hotel units, 100 hotel units in Marathon, Mobile homes, Military modeled using hotel occupancy rates for November <b>(13,665 units + 100 units + 8,134 units + 2,025 vehicles)</b>		16 hours
12	Existing Hotel units, 100 hotel units in Marathon, Mobile homes, Military modeled using hotel occupancy rates for the hurricane season average (June through November) <b>(13,665 units + 100 units + 8,134 units + 2,025 vehicles)</b>		15 hours & 30 minutes
13	Hotels, Mobile homes, Military modeled using hotel occupancy rates for July with an additional 215 units in Key West <b>(13,665 units + 100 units + 8,134 units + 2,025 vehicles + 215 units)</b>		16 hours & 30 minutes
17	Hotels, Military 100% participation, July occupancy ( <b>no mobiles</b> ) <b>(13,665 units + 2,025 vehicles)</b>		14 hours & 30 minutes



# Scenarios

		Category 5/ Level E
		90%
		Participation
18	2010 Census Site built units, mobile homes, 500 additional units <b>(44,630 + 8,134 + 500)</b>	<b>26 hours</b>
19	2010 Census Site built units, mobile homes, 1,000 additional units <b>(44,630 + 8,134 + 1,000)</b>	<b>26 hours</b>
20	2010 Census Site built units, mobile homes, 1,500 additional units <b>(44,630 + 8,134 + 1,500)</b>	<b>26 hours</b>
21	2010 Census Site built units, mobile homes, 2,000 additional units <b>(44,630 + 8,134 + 2,000)</b>	<b>26 hours</b>
22	2010 Census Site built units, mobile homes, 2,500 additional units <b>(44,630 + 8,134 + 2,500)</b>	<b>26 hours &amp; 30 minutes</b>
23	2010 Census site-built units, mobile homes, 3,000 additional units <b>(44,630 + 8,134 + 3,000)</b>	<b>27 hours</b>
25	2010 Census site-built units and mobile homes <b>(44,630 + 8,134)</b>	<b>25 hours &amp; 30 minutes</b>



# Scenarios

		Category 5/ Level E
Participation		90%
16	2010 Census Site built units, hotels, mobile homes, Military (44,630 + 13,665 units + 8,134 units + 2,025 vehicles)	35 hours & 30 minutes
24	2010 Census site-built units, mobile homes and vacant parcels (44,630 + 8,134 + 11,282)	30 hours & 30 minutes



# Scenarios

## Regional Evacuation Run

		Category 5/ Level E
		Participation
26	2010 Census Units (Monroe <b>44,630</b> ) + 5 years full allocation ( <b>1,780</b> ) + 5 years of mobile homes converting to site-built ( <b>622</b> ), 2015 projections for Miami-Dade & Broward, 2015 Roadway Network	90%
		24 hours

