

# Memorandum

MIAMI-DADE  
COUNTY

**Date:** July 8, 2010

Supplement to  
Agenda Item No. 2C1

**To:** Honorable Chairman Dennis C. Moss  
and Members, Board of County Commissioners

**From:** George M. Burgess  
County Manager



**Subject:** Report Regarding the County's Hurricane Preparedness Efforts

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This report is provided in response to the request for further information regarding the County's hurricane preparedness efforts during the June 15, 2010 Board of County Commissioners (Board) meeting. The report contains the County's hurricane evacuation zone maps, hurricane evacuation centers, emergency bus pick up points, generator ready retail establishments and various post storm activity information.

### **Evacuation Zone Map (Attachment A)**

The Evacuation Zone Map for the County accounts for the barrier islands, potential storm surge impacts, and flood prone areas. The areas designated in the map are divided into three categories – Zones A, B, and C.

Zone A is designated by the red areas in the map and includes Miami Beach, Virginia Beach, Key Biscayne, and islands lying within Biscayne Bay including the municipalities of Golden Beach, Sunny Isles Beach, Bal Harbor, Bay Harbour Islands, Indian Creek Village, Surfside, North Bay Village, Miami Beach, and portions of the City of Miami. Also included in Zone A is the area known as the 8 ½ square mile area.

Zone B (yellow areas) are all the areas of mainland Miami-Dade County lying (north to south) east of Biscayne Boulevard, Brickell Avenue, South Miami Avenue, South Bayshore Drive, Main Highway, Ingraham Highway, Old Cutler Road, the Florida Turnpike south to US 1 to State Road 9396, SW 192<sup>nd</sup> Avenue and Ingraham Highway South to Everglades National Park.

Zone C (green areas) are the areas of Miami-Dade County west of Zone B and a line delineated by SW 152<sup>nd</sup> Street (Coral Reef Drive) at Old Cutler Road going west to US 1 then south to SW 184<sup>th</sup> Street then west to SW 127<sup>th</sup> Avenue then US 1 south to SW 312 St then west to Everglades National Park.

### **Hurricane Evacuation Centers**

At the beginning of each year, the Miami-Dade County Public Schools (MDCPS) presents the American Red Cross of Greater Miami & The Keys (ARC) and the Miami-Dade Department of Emergency Management (DEM) with a list of schools available for use as hurricane evacuation centers. The ARC 4496 Guidelines set the minimum hurricane shelter selection standards county emergency managers must use when surveying and evaluating potential hurricane evacuation centers. The ARC 4496 addresses such areas as geographic location (i.e. outside of pre-determined evacuation zones), storm surge inundation, rainfall flooding, lay-down hazard exposure, wind and debris exposure, wind design, construction type, building condition, exterior wall construction, window protection, roof construction and emergency power. A structural engineer and ARC conduct a survey to determine the evacuee capacity required for each school that receives the designation of a hurricane evacuation center.

In the mid-1990's, a public shelter design criteria titled "Enhanced Hurricane Protection Area" (EHPA), was used to ensure that new schools could meet or exceed applicable construction standards. Since the inception of the EHPA criteria, DEM has prioritized schools with EHPA when choosing hurricane evacuation sites. This is based on their increased structural integrity above the ARC 4496 standard.

The shelter list is based on consensus among ARC, DEM and MDCPS, geographic location, capacity, structural integrity, accessibility for people with disabilities and practicable amenities such as restrooms designed for adult use. The primary group of twenty hurricane evacuation centers is sorted into four waves of five schools that are geographically disbursed around the County. The primary hurricane evacuation centers meet all the aforementioned criteria and have a capacity greater than 1000 evacuees, have a full service kitchen, which can store a two to three day supply of food, ample parking and ensure that evacuees have access to all shelter areas in the facility during the lockdown period. The determination of how many hurricane evacuation centers to open depends on the extent of the evacuation order issued by the County Mayor. Once a hurricane evacuation center reaches 80 percent capacity, an additional hurricane evacuation center in the surrounding area is opened.

In addition to the primary general population shelters, the County also has two primary pet friendly shelters and two primary special needs shelters. Each is depicted in the attached map (Attachment B). DEM also has secondary and tertiary options in the event that these sites are not available.

#### **Emergency Bus Pick Up Points**

In the event an evacuation order is issued, individuals that are unable to provide their own transportation to a hurricane evacuation center can use public transportation. Miami-Dade Transit (MDT) would immediately activate non-stop service to all of the designated pick-up points and mobile home parks distinguished in evacuation zones A, B, and C. These pick-up sites are identified by signs that read "**EMERGENCY EVACUATION BUS PICK-UP SITE.**" The buses placed into service for the evacuation will have displays that read "**EMERGENCY EVACUATION**" and these buses will only travel between the pick-up sites and the opened hurricane evacuation centers. Busses provide non-stop service until sustained winds are at 39 mph at which point it is unsafe for high rise vehicles to operate. A list of the pick-up sites is provided in Attachment C.

#### **Generator Ready Retail Establishments**

After the very active hurricane seasons of 2004 and 2005 the State Legislature enacted legislation requiring fuel stations, at a minimum, must have a transfer switch and be pre-wired in order to operate on alternate generated power. The law applies to motor fuel retail outlets that meet certain county size and fueling position criteria and are located within one-half mile of an interstate highway or designated evacuation route.

As a result of the new law, several fuel companies installed generators at fuel stations exceeding the State requirement of being pre-wired for alternate power sources. A list of fuel stations with generators is provided in Attachment D.

Hurricane Wilma was a defining moment for the private sector in South Florida since private companies suffered losses in the millions due to the loss of power for almost three weeks in some areas. It was estimated that the power outage cost more than \$300 million to Publix alone due to store closures and food spoiling. As a result, Publix and other retail giants like Home Depot, Wal-Mart, Sedanos and Winn Dixie, all installed onsite generators capable of powering entire stores.

The three major grocery retail stores in South Florida (Publix, Sedanos, and Winn Dixie) have been plotted on a countywide map and serve as an important resources post storm (see Attachment E).

### **Post Storm**

Post storm activities are just as important as the preparedness efforts mentioned above. Depending on the severity of damage from a storm, activities can range from debris clearing of major roadways, to the opening of Points of Distribution (PODs) sites, as needed, in order to return the community to normal as quickly as possible.

### **Debris Clearing**

Debris clearing of county roadways is performed by the Public Works, Park and Recreation, and Solid Waste departments. Once tropical storm force winds have passed and it is safe for high profile vehicles to travel, work crews make an initial pass to clean up major section lines with the goal of clearing roadways for emergency and public safety vehicles within the first 72 hours. Sectors of the County roadways are pre-assigned and departments are aware of their areas of responsibilities (see Attachment F). Once the initial clearing is completed, crews then begin picking up debris and transport it to staging sites.

### **Damage Assessment**

An important tool in determining the severity level is thru damage assessment which is done in two phases, the first identifying the initial hazard to the County and second, accounting for the overall impact. DEM utilizes a program called SnapShot whereby residents, Miami-Dade Fire Rescue, police departments (including municipal agencies), municipal building officials and County staff can report damage online. If the online option is not available, government agencies like police and fire have instructions to report damage in their area via 311. In addition, the agencies involved in debris clearance also report damage as they conduct their initial push. This information is used to determine whether or not the County will request assistance from the State and FEMA.

### **Points of Distribution**

As mandated by the State of Florida, Miami-Dade County is required to survey and identify at least one County Staging Area (CSA) and multiple Points of Distribution (PODs). DEM is responsible for submitting this information to the Florida Department of Emergency Management (FDEM) no later than June 1st of each year.

POD sites will be used for the purpose of receiving and distributing necessary bulk emergency relief supplies, such as water, food and tarps within the first 72-96 hours after an event. The timeframe on opening a site will depend greatly upon the incident itself and the ability to set up locations. The purpose of each POD location is to provide emergency supplies when they are not readily available to the community. Supplies to be provided will be based on the emergent need of the community. POD openings are based on:

- Proximity to population that needs to be assisted.
- Area is without power.
- Food distributors are not open for business within a five mile radius as per State mandate.
- A boil water order issue is in effect within the impacted area.

PODs are categorized into three types serving anywhere from 20,000 to 5,000 people per day. The breakdown is as follows:

- Type I PODs - approximately 125,000 square feet serving up to 20,000 people per day.
- Type II PODs - approximately 75,000 square feet serving up to 10,000 people per day.
- Type III PODs - approximately 45,000 square feet serving up to 5,000 people per day.

Currently there are 28 PODs countywide with at least one in every commission district.

The County's Disaster Assistance Employees (DAEs) are used whenever a disaster has impacted and there are a multitude of jobs that need to be accomplished during the recovery process. By organizing, training and mobilizing employees for disaster roles, the DAE Program gives employees a defined task in the community's disaster preparedness and recovery operations and fulfills the County's mission of meeting the community's needs. All Miami-Dade County employees are designated as either "Department Essential" or "Emergency Operations Center (EOC) Essential" employees. Department Essential employees report to their regular work assignments to assist with their department's role in the response and recovery efforts while employees designated as EOC Essential are part of the DAE Program. Possible assignments include, but are not limited to:

- Shuttering
- Shelter Management/Support
- EOC Support (DAE Command)
- Call Center
- PODs
- Traffic Control
- Employee and Volunteer Staging Area
- Mobile Assistance
- Employee Wellness
- Disaster Assistance Centers

Roles may be pre-assigned or assigned as the situation dictates. Work assignments, contact information and training history is maintained in the County's employee data collection system commonly known as the BlueBook database.

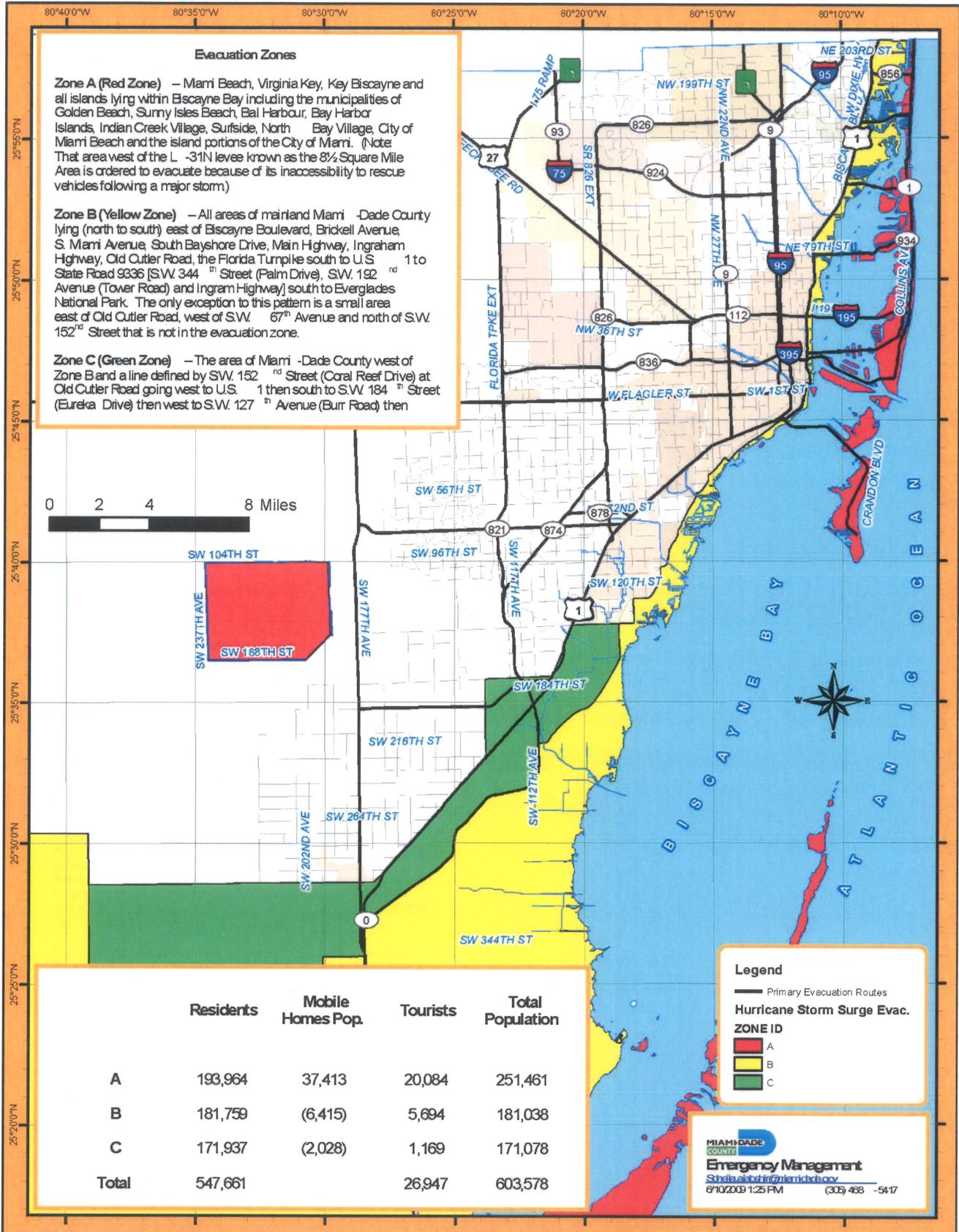
Employees who have been designated as EOC essential personnel are given the opportunity to select a primary work area of interest however, the final assignment will be made by their Department Director or DPR in cooperation with the DEM. Assignments are made based on training, knowledge, skills, abilities, prior disaster experience and need. DAE staging areas may be utilized to deploy DAEs to their respective work assignment locations.

DEM's hurricane preparedness efforts and countywide plans are a State model for emergency management. After every activation and exercise, the EOC emergency plans are revised and updated to reflect best practices and lessons learned. I firmly believe all of our County departments are prepared and will fulfill their roles and responsibilities during an emergency. Please be advised that the DEM Director, Curt Sommerhoff has been meeting with Commissioner's to discuss hurricane preparedness efforts in full detail. If you have any further concerns or questions, please do not hesitate to contact Mr. Sommerhoff or me directly.

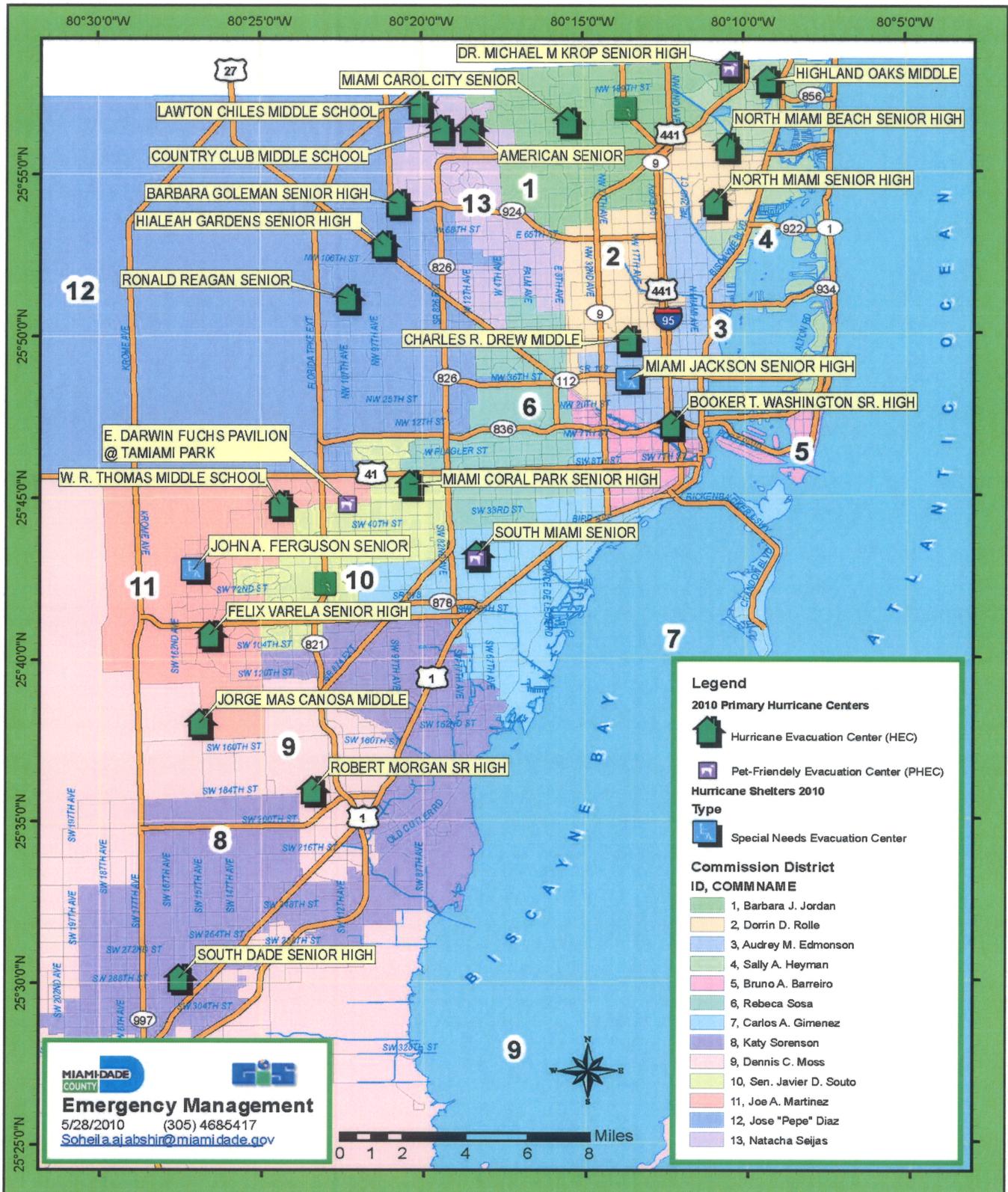
Attachments

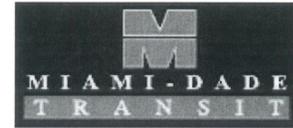


Assistant County Manager



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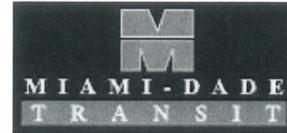




## 2010 HURRICANE SEASON – EMERGENCY EVACUATION PICK-UP SITES

## HURRICANE EVACUATION ZONE A

EVACUATION BUS PICK-UP SITE	ADDRESS	CITY	ZIP
BAL HARBOR VILLAGE HALL	655 96 ST	BAL HARBOR VILLAGE	33154
HARBOR HOUSE CONDOS	10285 COLLINS AVE	BAL HARBOR VILLAGE	33154
BAY HARBOR TOWN HALL	9665 BAY HARBOR TE	BAY HARBOR ISLANDS	33154
VILLAGE OF KEY BISCAYNE FIRE STATION	CRANDON BD & E ENID DR	KEY BISCAYNE	33149
REBECCA TOWERS SOUTH	150 ALTON RD	MIAMI BEACH	33139
COUNCIL TOWERS SOUTH	533 COLLINS AVE	MIAMI BEACH	33139
SOUTH BAY CLUB	800 WEST AV	MIAMI BEACH	33139
SOUTH SHORE COMMUNITY CENTER	833 6 ST	MIAMI BEACH	33139
SOUTH BEACH ALT. MIDDLE SCHOOL	920 ALTON RD	MIAMI BEACH	33139
OCEAN FRONT AUDITORIUM	1001 OCEAN DR	MIAMI BEACH	33139
ALTON TOWERS CONDOMINIUM	14 ST & ALTON RD	MIAMI BEACH	33139
IDA FISHER COMMUNITY SCHOOL	1424 DREXEL AV	MIAMI BEACH	33139
EUCLID GARDENS CONDOMINIUM	1575 EUCLID AVE	MIAMI BEACH	33139
MIAMI BEACH CITY HALL	1700 CONVENTION CENTER DR	MIAMI BEACH	33139
MESIVTA HIGH SCHOOL	1965 ALTON RD	MIAMI BEACH	33139
BAYSHORE GOLF CLUB	2301 ALTON RD	MIAMI BEACH	33140
SCOTT RAKOW YOUTH CENTER	2700 SHERIDAN AV	MIAMI BEACH	33140
SEVILLE BEACH HOTEL	29 ST & COLLINS AV	MIAMI BEACH	33140
CROWN HOTEL	4041 COLLINS AVE	MIAMI BEACH	33140
TEMPLE BETH SHALOM	4144 CHASE AV	MIAMI BEACH	33140
SHERRY FRONTENAC HOTEL	6565 COLLINS AV	MIAMI BEACH	33141
STREET INTERSECTION	NORMANDY DR & RUE VERSAILLES	MIAMI BEACH	33141
NORMANDY POOL	71 ST & TROUVILLE ESPLANADE	MIAMI BEACH	33141
NORTH SHORE PARK	72 ST & BYRON AV	MIAMI BEACH	33141
NORTH SHORE LIBRARY	75 ST & COLLINS AV	MIAMI BEACH	33141
BISCAYNE ELEMENTARY	800 77TH STREET	MIAMI BEACH	33141
STREET INTERSECTION	79 ST & HAWTHORNE AV	MIAMI BEACH	33141
STREET INTERSECTION	81 ST & COLLINS AV	MIAMI BEACH	33141
ST. JOSEPH'S SCHOOL	8625 BYRON AV	MIAMI BEACH	33141
NORTH BAY VILLAGE SYNAGOGUE	N TREASURE DR & HISPANOLA AV	NORTH BAY VILLAGE	33141
ARLEN HOUSE CONDOMINIUMS	158 ST & COLLINS AV	SUNNY ISLES BEACH	33160
WINSTON TOWERS BLDG 400	231 174 ST	SUNNY ISLES BEACH	33160
WINSTON TOWERS BLDG 100	250 174 ST	SUNNY ISLES BEACH	33160
STREET INTERSECTION	189 ST & COLLINS AV	SUNNY ISLES BEACH	33160
OCEAN VIEW	193 ST & COLLINS AV	SUNNY ISLES BEACH	33160
SURFSIDE TOWN CITY HALL	9293 HARDING AV	SURFSIDE	33154
8-1/2 SQUARE MILE	SW 136 ST & SW 202 AV	UNICORPORATED	33196



8-1/2 SQUARE MILE	SW 168 ST & SW 197 AV	UNICORPORATED	33187
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**2010 HURRICANE SEASON – EMERGENCY EVACUATION PICK-UP SITES**

**HURRICANE EVACUATION ZONE B**

EVACUATION BUS PICK-UP SITE	ADDRESS	CITY	ZIP
OFFICE DEPOT SHOPPING CENTER	NE 179 ST & BISCAYNE BD	AVENTURA	33160
CIRCUIT CITY SHOPPING CENTER	NE 209 ST & BISCAYNE BD	AVENTURA	33180
CENTENNIAL MIDDLE SCHOOL	8601 SW 212 ST	CUTLER BAY	33189
SOUTH DADE CAMP	13600 SW 312TH ST	HOMESTEAD	33033
STANLEY AXLRD UTD TOWERS	1809 BRICKELL AVE	MIAMI	33129
STREET INTERSECTION	NE 90 ST & BISCAYNE BD	MIAMI SHORES	33138
BAY VIEW TOWERS	2100 SANS SOUCI BD	NORTH MIAMI	33181
DORSET HOUSE	2500 NE 135 ST	NORTH MIAMI	33181
TARGET SHOPPING CENTER	NE 140 ST & BISCAYNE BD	NORTH MIAMI BEACH	33181
STRATFORD CONDOMINIUMS	NE 163 ST & NE 28 AV	NORTH MIAMI BEACH	33160
EASTERN SHORES SHOPPING CENTER	NE 163 ST & NE 35 AV	NORTH MIAMI BEACH	33160
WESTMINSTER CHRISTIAN SCHOOL	6855 SW 152 ST	PALMETTO BAY	33157
HUD - PINE ISLAND	SW 272 ST & SW 127 AV	UNICORPORATED	33032

**HURRICANE EVACUATION ZONE B**

EVACUATION BUS PICK-UP SITE	ADDRESS	CITY	ZIP
EAST RIDGE RETIREMENT VILLAGE	SW 193 TE & SW 87 AV	CUTLER BAY	33157
CUTLER RIDGE PARK	10100 SW 200 ST	CUTLER BAY	33157
FRANJO PARK	20175 FRANJO RD	CUTLER BAY	33189
SOUTHLAND MALL (SOUTHSIDE)	10850 SW 211 ST	CUTLER BAY	33189
FLORIDA CITY - CITY HALL	404 W PALM DR	FLORIDA CITY	33034
POLICE ATHLETIC LEAGUE GYM	600 REDLAND RD	HOMESTEAD	33030
LAURA SAUNDERS ELEMENTARY	505 SW 8 ST	HOMESTEAD	33030
HARRIS FIELD	CAMPBELL DR & S DIXIE HWY	HOMESTEAD	33033
HOMESTEAD SENIOR CENTER	NE 16 ST & KROME AV	HOMESTEAD	33030
CHRIST FELLOWSHIP CHURCH	8900 SW 168 ST	PALMETTO BAY	33157
WEST PERRINE COMMUNITY ACTION AGENCY	17801 HOMESTEAD AV	UNICORPORATED	33157
MAYS MIDDLE SCHOOL	11700 SW 216 ST	UNICORPORATED	33170
ANDREW CENTER	19308 SW 380 ST	UNICORPORATED	33034

MAYS MIDDLE SCHOOL	11700 SW 216 ST	UNICORPORATED	33170
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**2010 HURRICANE SEASON – EMERGENCY EVACUATION PICK-UP SITES**

**HURRICANE EVACUATION ZONE – MOBILE HOME PARKS (part 1 of 2)**

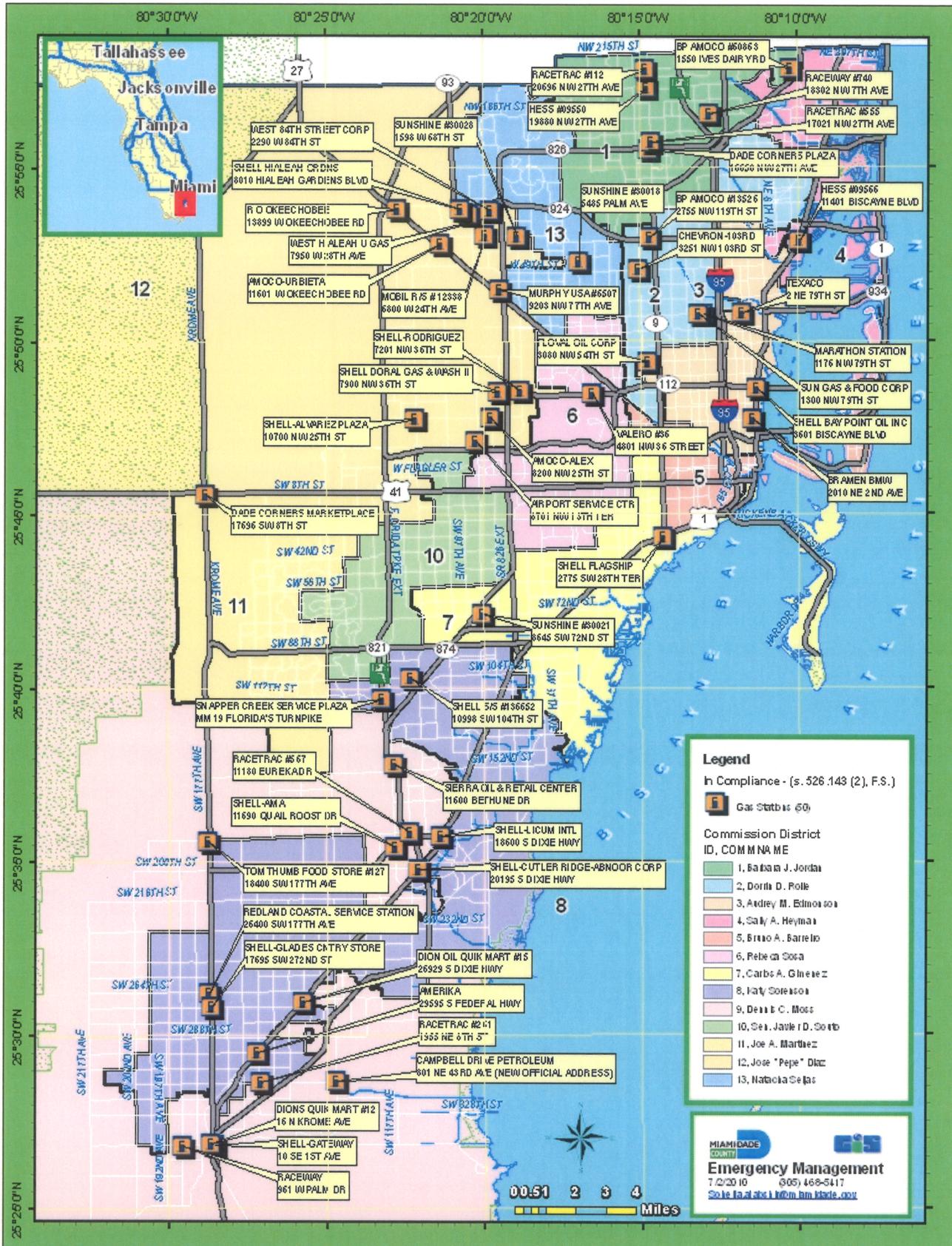
EVACUATION BUS PICK-UP SITE	ADDRESS	CITY	ZIP
Wynken-Blynken & Nod	2800 W 12TH AVE	HIALEAH	33010
Hibiscus Mobile Homes	3131 W 16TH AVE	HIALEAH	33012
Holiday Acres Mobile Home Park	1401 W 29TH ST	HIALEAH	33012
Palmetto Trailer Estates	3205 W 16TH AVE	HIALEAH	33012
Strawberry Village Trailer	1451 W 29TH ST	HIALEAH	33012
Sunny Gardens Trailer	2901 W 16TH AVE	HIALEAH	33012
Hialeah Trailer Park	425 E 33RD ST	HIALEAH	33013
Courtly Manor	12401 W OCHEECHOBEE RD	HIALEAH	33018
Jones Fishing Camp Trailer	14601 NW 185 ST	HIALEAH	33018
Aquarius Mobile Home	451 SE 8TH ST	HOMESTEAD	33030
Boardwalk Mobile Home Park	100 NE 6TH AVE	HOMESTEAD	33030
Cocowalk Estates	220 NE 12TH AVE	HOMESTEAD	33030
Homestead Trailer Park	31 SE 2ND RD	HOMESTEAD	33030
Princetonian Mobile Home Park	25120 SW 127 AVE	HOMESTEAD	33032
Palm Garden RV Park	28300 SW 147 AVE	HOMESTEAD	33033
Palm Garden	28501 SW 152 AVE	HOMESTEAD	33033
Pine Isle Mobile Home Park	28600 SW 132 AVE	HOMESTEAD	33033
Florida City Camp Site	601 NW 3RD AVE	FLORIDA CITY	33034
Gateway Estates Condo	35250 SW 177 CT	HOMESTEAD	33034
Gateway West Condo	35303 SW 180 AVE	HOMESTEAD	33034
Southern Comfort RV	345 E PALM DR	FLORIDA CITY	33034
Gold Coaster Trailer Park	34850 SW 187 AVE	HOMESTEAD	33034
Honey Hill	4955 NW 199TH ST	MIAMI GARDENS	33055
Royal Country	5555 NW 202 TER	MIAMI GARDENS	33055
Riviera Park INC	19900 NW 37 AVE	MIAMI GARDENS	33056
Paradise Trailer Park	2750 NW SOUTH RIVER DR	MIAMI	33125
Gables Trailer Park	825 SW 44TH AVE	MIAMI	33134
Silver Court Trailer Park	3170 SW 8TH ST	MIAMI	33135
Magic City Trailer Park	6005 NE 2ND AVE	MIAMI	33137
Little Farm Mobile Court	8500 BISCAYNE BLVD	MIAMI	33138
River Park Apts & Trailer Park	2260 NW 27TH AVE	MIAMI	33142
Royal Duke	3620 NW 30TH AVE	MIAMI	33142



**2010 HURRICANE SEASON – EMERGENCY EVACUATION PICK-UP SITES**

**HURRICANE EVACUATION ZONE – MOBILE HOME PARKS (part 2 of 2)**

EVACUATION BUS PICK-UP SITE	ADDRESS	CITY	ZIP
Blue Bell Trailer Park	3586 NW 41ST ST	MIAMI	33142
Carley's	4111 NW 37TH AVE	MIAMI	33142
Fronton Trailer Park	3617 NW 36TH ST	MIAMI	33142
All Star 36 Street	3010 NW 36TH ST	MIAMI	33142
Miami Terrace Mobile Home Park	1040 SW 70TH AVE	WEST MIAMI	33144
Sunnyside Trailer Park	6024 SW 8TH ST	WEST MIAMI	33144
West Haven Motel & Trail Park	6020 SW 8TH ST	WEST MIAMI	33144
Palm Lake Mobile Home Park	7600 NW 27 AVE	MIAMI	33147
Miami Heights Trailer Park	3520 NW 79TH ST	MIAMI	33147
Tradewinds Trailer Park	1919 NW 79TH ST	MIAMI	33147
J. Bar J.	2980 NW 79TH ST	MIAMI	33147
Landmark Mobile Home Park	215 NW 79TH ST	MIAMI	33150
Colonial Acres Mobile Home Park	9674 NW 10TH AVE	MIAMI	33150
New Avocado Trailer Park	1170 NW 79TH ST	MIAMI	33150
Rovell Trailer Park	939 NW 81ST ST	MIAMI	33150
Trinidad Court	7930 NW MIAMI CT	MIAMI	33150
Tropical Village	1398 NW 79TH ST	MIAMI	33150
Westland Mobile Home Park	1175 NW 79TH ST	MIAMI	33150
Sunnyland Trailer Park	129 NW 79TH ST	MIAMI	33150
Shady Oak Trailer Park	14721 NE 6 AVE	NORTH MIAMI	33161
Six Avenue Trailer Park	14752 NE 6 AVE	NORTH MIAMI	33161
Medley Mobile Homes Park	8181 NW SOUTH RIVER DR	MIAMI	33166
Redland Mobile Home Park	17360 SILVER PALM DR (SW 232 st)	UNINCORPORATED	33170
Silver Palm Mobile Home Park	17350 SW 232 ST	UNINCORPORATED	33170
Lil Abner Mobile Home Park	11239 NW 4 ST	SWEETWATER	33172
Larry/Penny Thompson	12451 SW 184 ST	UNINCORPORATED	33177
Medley Lakeside Retirement	10601 NW 105 WAY	MEDLEY	33178
Dixie Mobile Court	19640 W DIXIE HWY	AVENTURA	33180
Biscayne Breeze Park	11380 BISCAYNE BLVD	NORTH MIAMI	33181
Highland Mobile Home Park	13565 NE 21ST AVE	NORTH MIAMI	33181
University Lakes Trailer Park	12800 SW 14 ST	UNINCORPORATED	33184
Miami-Everglades Kampground	20675 SW 162 AVE	UNINCORPORATED	33187
Americana Village Condo	19800 SW 180 AVE	UNINCORPORATED	33187
Gator Park, Inc	24050 SW 8 ST	UNINCORPORATED	33194



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